

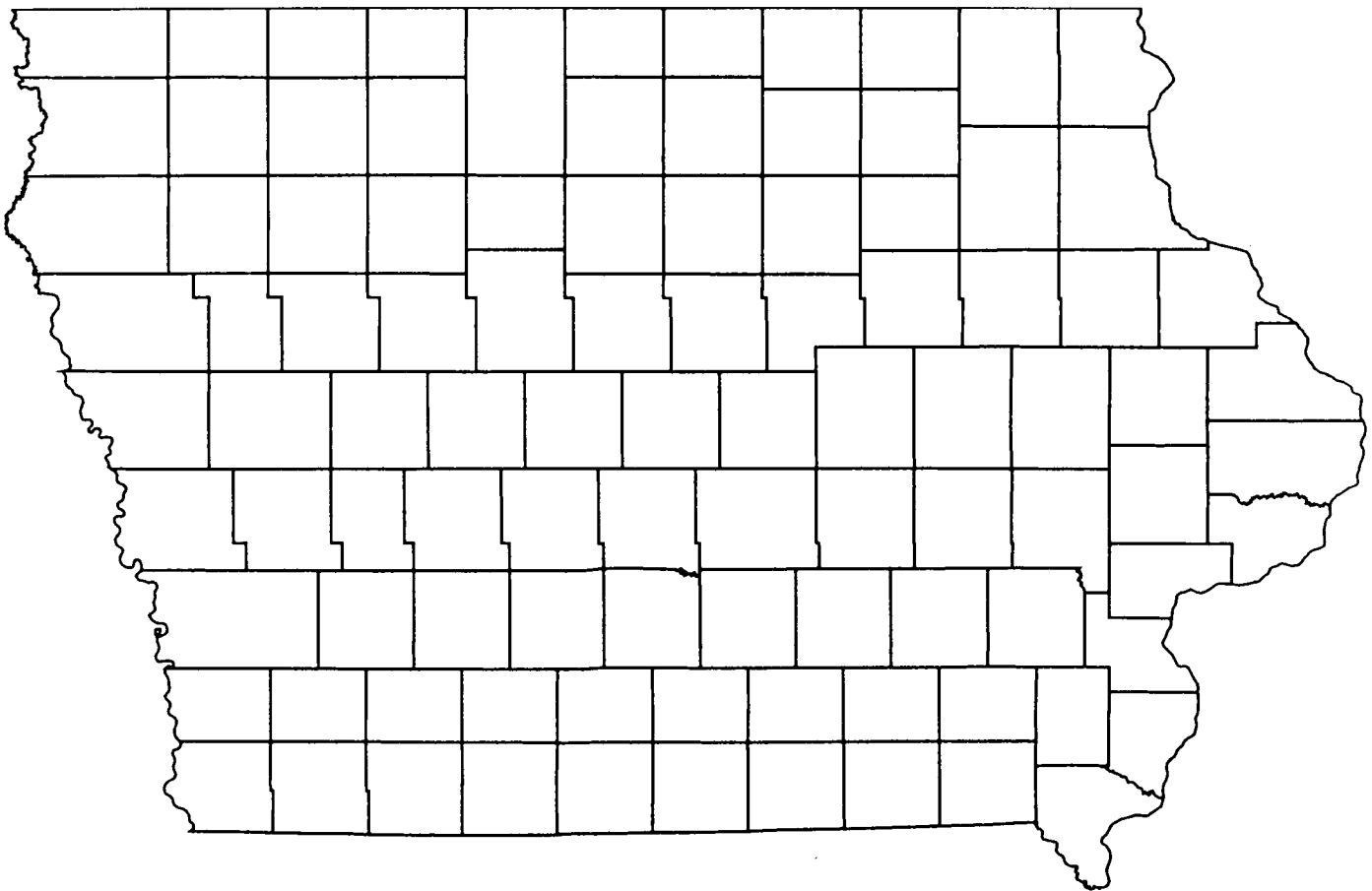


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# Iowa's Counties:

## Selected Population Trends, Vital Statistics, and Socioeconomic Data

2000 Edition



Willis Goudy, Sandra Charvat Burke, and Margaret Hanson  
Census Services  
Department of Sociology  
Iowa State University  
Ames, Iowa

October, 2000



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### Selected Population Trends, Vital Statistics, and Socioeconomic Data

#### Content of Previous Editions Not Included in the 2000 Volume

Limited copies of some previous editions of this county data book are available for \$25 each; contact us to purchase them. Include a check made payable to Iowa State University with the order. Clearly specify what edition is requested. Send your order to Census Services, 303 East Hall, Iowa State University, Ames, IA 50011; the phone number is 515-294-6482 and our fax number is 515-294-0592. If you don't have previous editions, here's what you missed.

**1999 If you don't have the 1999 edition, here are items it included that are not repeated in 2000.**

Estimated Population (1998) and Census Counts (1990) in Incorporated Places and Unincorporated Areas; Property Tax Valuations: 1995, 1997, and 1999; Voting for Selected Candidates for State and National Offices, 1980-1998; Votes on Adding "and Women" (1998) and Additional Language on Equal Rights (1980, 1992) to the Constitution of the State of Iowa; Votes on Adding Two Amendments Regarding Taxes to the Constitution of the State of Iowa: 1999.

**1997 If you don't have the 1997 edition, here are items not repeated in 1998-2000.**

Migration by Sex, by Age Categories, and by Education, 1985-1990; Estimated Numbers of Veterans by Period of Service: 1993-1996.

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Migration: 1985 to 1990; Manufacturing, 1977-1992; Women-Owned Businesses: 1987-1992.

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Retail Trade: 1977-1992, Wholesale Trade: 1977-1992, Service Industries: 1982-1992.

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Farm Numbers and Average Acres: 1880-1992; Tenure and Type of Organization of Farms: 1978-1992; Selected Characteristics of Farm Operators: 1978-1992; Hogs and Pigs Sold: 1978-1992; Fattened Cattle Sold for Slaughter: 1978-1992; Market Value of Agricultural Products Sold: 1978-1992.

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Population and Housing Units in Townships and Incorporated Places: 1970-1990; Median Age of Females and Males: 1960-1990; Education Completed by Females and Males 25 Years of Age or Older: 1940-1990; General Occupational Categories for Females and Males: 1940-1990; Income of Employed Females and Males: 1979-1989; Poverty Among Females and Males in Selected Age Groups: 1979-1989; Place of Work: 1960-1990; Estimated Church Membership in Selected Denominations: 1971, 1980, 1990; Votes on an Equal Rights Amendment to the Constitution of the State of Iowa: 1980 and 1992.

**1992 If you don't have the 1992 edition, here are items not repeated in 1993-2000:**

Urban, Rural, and Farm Populations: 1940-1990; Year Housing Units Built: 1940-1990; Median Housing Value, Contract Rent, and Gross Rent: 1940-1990; Education Completed by Residents Aged 25 or Older: 1940-1990; Labor-force Status by Sex: 1950-1990; Family and Household Income: 1949-1989; Poverty: 1969-1989; Residence in the Census Year and Five Years Earlier: 1960-1990.

**1991 If you don't have the 1991 edition, here are items not repeated in 1992-2000:**

Housing Units: 1940-1990; Age: 1980-1990; Younger (17 and Under) and Older (65 and Over) Residents: 1940-1990; Race and Hispanic Origin: 1980-1990; Marital Status: 1950-1990; Family Type and Presence of Related Children: 1970-1990; Residents of Households and Group Quarters: 1950-1990.

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## Introduction

Willis Goudy, Iowa State University  
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Welcome to the 12<sup>th</sup> edition of our county data book, which highlights trends occurring throughout Iowa. It continues our tradition of providing information for several years in most instances and several decades in others. Readers have informed us that this annual publication has become one of the most frequently referenced data sources in the state. As we've done in previous editions, tables have been constructed from varied sources to serve as a reference for demographic and socioeconomic change in Iowa's counties. We've focused on the 1990s for the most part, although one section traces population back to 1850 while others project it to 2020. We are particularly interested in providing data that readers can use to determine trends that are occurring in Iowa; that's why all of the sections have data for at least two years.

We updated the usual sections with the most recent data available. We added information on fertility beginning in 1940, natural change across the last six decades, deaths from cardiovascular disease or cancer, and alcohol-related traffic fatalities. A section on child abuse is included after an absence of several years. And items on housing sales prices and voting (registration, use of absentee ballots) return this year.

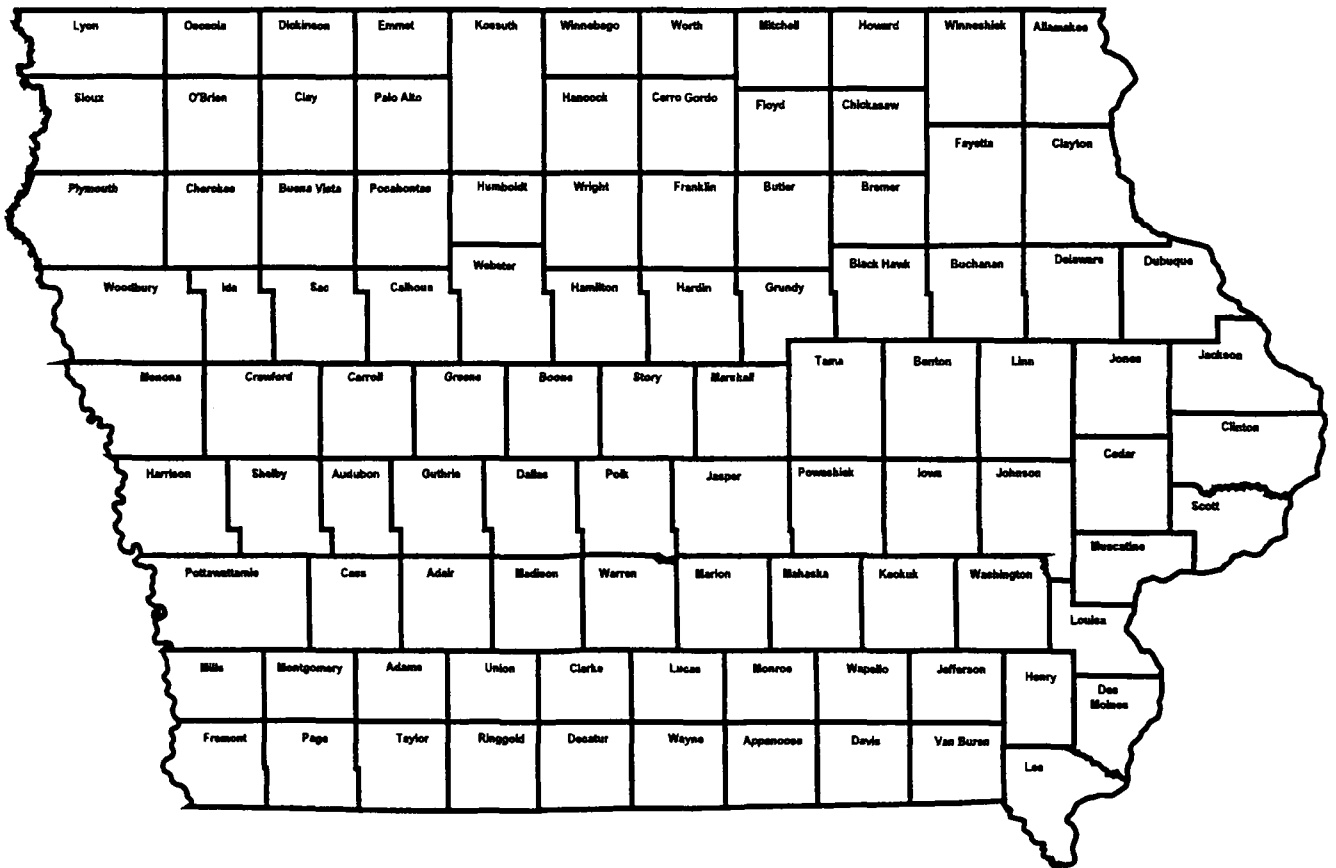
Each data set in this volume is accompanied by a brief analysis of trends. Graphics highlight either changes in state figures or differences across the counties. Definitions are provided where necessary, as well as notes of caution and an indication of the source of the data. For assistance in locating counties mentioned in the text, please see the map included on page 4 and elsewhere in this volume.

We continue to be confident that readers will find sources of data on Iowa's counties that they haven't seen previously—unless it was in previous editions of this publication. Because we add some items each year and delete others, readers interested in having as much information as possible will want to collect and retain all volumes in this series.

We know that the statistics we've included have never been published in one source; indeed, several never have been published previously for the general public. But we've undoubtedly missed other data sets for Iowa's counties that would be valuable to share in future editions. Thus, suggestions on data that would be useful would be appreciated. Although the numbers in the tables 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 303 East Hall, Department of Sociology, Iowa State University, Ames, IA 50011. We can be reached by telephone (515-294-6482), fax (515-294-0592), or e-mail (ramiller@iastate.edu, scburke@iastate.edu, mmhanson@iastate.edu, wjgoudy@iastate.edu). Check our homepage on the Internet (<http://www.soc.iastate.edu/census/>) for the latest information.

**Note:** Renea Miller is the clerk for Census Services. She entered and verified data for several sections of this volume. In addition, she trained students on data entry procedures; she is our expert on using a microcomputer system to produce maps and figures. Miller does all of this while giving Census Services less than half of her time. We are delighted that she continues to be an important part of our small group of professionals. We also are indebted to ISU undergraduate Robert Lawson and Jessica Rohrig for their work in adding data to our files, checking the accuracy of those numbers, and updating some of the reports. Finally, we acknowledge the many persons involved in providing data for this volume; their assistance is greatly appreciated.



## Population Estimates in Iowa's Counties: 1970-1999

Willis Goudy, Iowa State University  
 Beth Henning, State Library of Iowa  
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The U.S. Bureau of the Census estimates the population of counties each year between the decennial censuses. The estimates for 1 July 1999 were released in March of 2000. They are included with revised estimates for 1991-1998 and the 1990 census counts in Table 1. Iowa's population was estimated to have increased by nearly 92,600 (3.3%) between 1 April 1990 (census date) and 1 July 1999 (Table 1). While the nation as a whole has been increasing by about 1 percentage point per year, growth has been slower in Iowa (less than half a percentage point a year).

### 1990-1999 Population Change

Forty-eight counties were estimated to have gained residents between 1990 and 1999 (Figure 1), with increases greater than 1,000 in 22 of these 48. The gains of 37,500 in Polk and 16,100 in Linn were the only ones exceeding 10,000; Dallas, Johnson, and Scott each increased by at least 5,000 residents. Twenty of the 48 counties with gains grew by fewer than 500 inhabitants. Declines occurred in 51 counties, although only in Black Hawk, Cerro Gordo, Cherokee, Clinton, and Webster were the decreases greater than 1,000. Another 16 noted declines of at least 500.

Iowa's relatively slow rate of growth (3.3%) is reflected in county figures as well (Figure 2); 58 of the 99 counties increased (28) or decreased (30) by less than 4 percent in the 1990-1999 period. Eight counties (Benton, Dallas, Dickinson, Linn, Madison, Mills, Polk, Warren) grew by at least 9 percent, or more than a percentage point a year on average. Dallas was the only county that gained more than 15 percent. Only Adams declined by at least 9 percent, although 11 others decreased by 5 to 8 percent according to the bureau's figures.

There are 3,142 counties in the United States. Only 13 of Iowa's 99 counties were in the top half of the distribution of all U.S. counties on percentage change in population from 1990 to 1999. The highest rank (226<sup>th</sup>) for this state was earned by Dallas County's increase of 28.4 percent. Eleven Iowa counties were among the 10 percent in the nation with the most negative change, with Adams' -9.5 percent ranking it at 3,017<sup>th</sup>.

The estimates for the state and counties are based on births, deaths, and residual change. Most of the residual is net migration. Residual change also is affected by any inaccuracies in data supplied to the census bureau or in variations in implementing the estimating method. Actually, even the births and deaths are based on estimates, since they normally are reported for calendar years rather than the period covered by the population estimate. Thus, caution is urged in interpreting the estimates. They provide only a preliminary view of change since the 1990 census.

### 1971-1979 and 1981-1989 Population Estimates

After a decennial census, the bureau re-evaluates the estimates that it provided during the previous decade and issues revised numbers (Tables 2, 3). Generally, the revised figures for 1981-1989 are substantially lower, especially in the initial years of the 1980s, than were reported originally. These revised numbers have been used throughout this edition of the annual county data book as the base to calculate rates and percentages for the years between the 1970 and 1990 censuses.

Table 1. Estimates (1 July 1991-1999), Census Count (1 April 1990), and Estimated Change (1990-1999) in Population in Iowa's Counties.

County	1 July	1 July	1 July	1 July	1 July	1 July	1 July	1 July	1 July	1 July	1 April	Estimated Change 1990-1999	
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	Number	Percent	
Adair	8066	8103	8146	8221	8246	8285	8406	8386	8398	8409	-343	-4.1	
Adams	4405	4386	4407	4450	4507	4558	4588	4654	4730	4866	-461	-9.5	
Allamakee	14068	14052	14006	14053	14134	13967	14016	13975	13915	13855	213	1.5	
Appanoose	13446	13568	13509	13604	13598	13624	13821	13809	13738	13743	-297	-2.2	
Audubon	6802	6806	6829	6847	6894	6943	7001	7116	7236	7334	-532	-7.3	
Benton	25798	25399	24986	24708	24340	23855	23451	22866	22614	22429	3369	15.0	
Black Hawk	119959	120918	121350	122262	122634	123648	124295	124273	124558	123798	-3839	-3.1	
Boone	26300	26113	26179	25877	25565	25249	25201	25306	25363	25186	1114	4.4	
Bremer	23440	23343	23302	23314	23189	23106	23161	23035	22926	22813	627	2.7	
Buchanan	21160	21152	21162	21192	21195	21275	21125	20974	20914	20844	316	1.5	
Buena Vista	19404	19412	19637	19826	19930	20033	20225	20063	19944	19965	-561	-2.8	
Butler	15499	15631	15723	15724	15735	15710	15678	15779	15825	15731	-232	-1.5	
Calhoun	11319	11373	11448	11488	11523	11671	11510	11526	11510	11508	-189	-1.6	
Carroll	21518	21616	21624	21583	21593	21483	21603	21465	21417	21423	95	0.4	
Cass	14512	14642	14745	14884	14942	15087	15028	15011	15038	15128	-616	-4.1	
Cedar	18056	17957	17990	17764	17662	17503	17502	17665	17484	17444	612	3.5	
Cerro Gordo	45669	46073	46314	46411	46627	46490	46551	46815	47072	46733	-1064	-2.3	
Cherokee	13060	13190	13363	13431	13621	13870	13903	13974	14060	14098	-1038	-7.4	
Chickasaw	13423	13425	13427	13403	13408	13380	13307	13266	13245	13295	128	1.0	
Clarke	8273	8303	8229	8255	8150	8158	8337	8350	8272	8287	-14	-0.2	
Clay	17245	17474	17594	17549	17529	17658	17671	17744	17625	17585	-340	-1.9	
Clayton	18582	18711	18792	18790	18754	18792	18836	18762	18861	19054	-472	-2.5	
Clinton	49612	49924	50100	50327	50877	51001	51240	51227	50963	51040	-1428	-2.8	
Crawford	16427	16462	16467	16429	16469	16478	16504	16666	16668	16775	-348	-2.1	
Dallas	38210	36865	35783	34484	33320	32461	31824	31061	30416	29755	8455	28.4	
Davis	8517	8462	8460	8398	8484	8431	8380	8313	8313	8312	205	2.5	
Decatur	8319	8241	8151	8227	8270	8134	8047	8135	8140	8338	-19	-0.2	
Delaware	18482	18541	18444	18380	18394	18361	18296	18293	18148	18035	447	2.5	
Des Moines	41955	42069	42096	42360	42547	42801	42853	42839	42774	42614	-659	-1.5	
Dickinson	16285	16209	16048	15755	15582	15398	15375	15236	15191	14909	1376	9.2	
Dubuque	88112	87879	88186	88390	88352	88177	87891	87419	86843	86403	1709	2.0	
Emmet	10638	10850	10959	11040	11152	11296	11406	11608	11603	11569	-931	-8.0	
Fayette	21566	21794	21909	21972	21955	21925	21932	21973	22005	21843	-277	-1.3	
Floyd	16256	16369	16494	16542	16592	16730	16804	16941	16852	17058	-802	-4.7	
Franklin	10781	10865	10909	11016	11002	11032	11244	11174	11312	11364	-583	-5.1	
Fremont	7706	7771	7806	7920	8039	8148	8132	8183	8161	8226	-520	-6.3	
Greene	10020	10075	10083	10061	10000	10071	10138	10088	10057	10045	-25	-0.2	
Grundy	12284	12234	12297	12287	12218	12128	12051	12066	11951	12029	255	2.1	
Guthrie	11591	11506	11474	11399	11350	11228	11191	11171	11125	10935	656	6.0	
Hamilton	15905	16010	16040	16066	16225	16044	16043	16124	16043	16071	-166	-1.0	
Hancock	12037	12044	12010	12131	12123	12052	12154	12378	12490	12638	-601	-4.8	
Hardin	18159	18350	18492	18641	18745	18653	18604	18785	18945	19094	-935	-4.9	
Harrison	15216	15336	15288	15223	15084	14875	14802	14691	14676	14730	486	3.3	
Henry	20139	20038	19824	19842	19852	19723	19546	19581	19456	19226	913	4.7	
Howard	9574	9680	9694	9745	9747	9783	9883	9891	9860	9809	-235	-2.4	
Humboldt	10224	10327	10362	10380	10376	10425	10465	10553	10668	10756	-532	-4.9	
Ida	7930	7917	8016	8084	8197	8325	8315	8286	8283	8365	-435	-5.2	
Iowa	15667	15513	15454	15361	15160	14946	14872	14761	14751	14630	1037	7.1	
Jackson	20157	20139	20080	20137	20143	20221	20131	20084	19900	19950	207	1.0	
Jasper	36659	36541	35781	35458	35189	35167	34998	34826	34733	34795	1864	5.4	

Table 1. Estimates (1 July 1991-1999), Census Count (1 April 1990), and Estimated Change (1990-1999) in Population in Iowa's Counties (continued).

County	1 July 1999	1 July 1998	1 July 1997	1 July 1996	1 July 1995	1 July 1994	1 July 1993	1 July 1992	1 July 1991	1 April 1990	Estimated Change 1990-1999	
											Number	Percent
Jefferson	16762	17043	17063	16883	16775	16805	16739	16473	16377	16310	452	2.8
Johnson	103813	102556	101921	101415	101157	100379	98913	97939	96681	96119	7694	8.0
Jones	20075	20138	20353	20322	20350	19959	19837	19750	19570	19444	631	3.2
Keokuk	11340	11469	11496	11534	11637	11522	11625	11608	11626	11624	-284	-2.4
Kossuth	17630	17721	17907	17953	18094	18162	18144	18211	18296	18591	-961	-5.2
Lee	38309	38488	38665	38736	39064	38932	38877	39053	38901	38687	-378	-1.0
Linn	184891	182779	181542	179829	179080	176855	175106	173141	170686	168767	16124	9.6
Louisa	11945	11935	11894	11944	11820	11752	11746	11427	11614	11592	353	3.0
Lucas	9131	9098	9110	9029	9026	9017	9052	9043	9117	9070	61	0.7
Lyon	12030	12036	11968	11931	11835	11900	11958	11963	11941	11952	78	0.7
Madison	14105	13888	13740	13611	13448	13034	12868	12777	12571	12483	1622	13.0
Mahaska	21954	21899	21812	21760	21827	21725	21658	21513	21458	21532	422	2.0
Marion	31529	31327	31114	31103	30994	30684	30424	30214	30149	30001	1528	5.1
Marshall	38782	38740	38776	38708	38714	38256	37882	37759	38118	38276	506	1.3
Mills	14705	14481	14342	13986	13801	13556	13357	13362	13261	13202	1503	11.4
Mitchell	11106	11033	11081	11077	11074	11057	11011	10841	10922	10928	178	1.6
Monona	10089	10068	10138	10085	10071	10103	10078	10049	9980	10034	55	0.5
Monroe	8017	8033	8082	8086	8170	8158	8155	8195	8161	8114	-97	-1.2
Montgomery	11707	11850	11849	11883	11920	11969	12034	11903	11974	12076	-369	-3.1
Muscatine	41195	40991	40900	40954	41167	41026	41022	40705	40472	39907	1288	3.2
O'Brien	14621	14887	14982	15009	15262	15333	15394	15466	15435	15444	-823	-5.3
Osceola	6914	6956	7052	7056	7055	7148	7185	7210	7271	7267	-353	-4.9
Page	17139	17271	17326	17301	16695	16754	16626	16658	16848	16870	269	1.6
Palo Alto	9917	10059	10081	10111	10134	10406	10427	10507	10582	10669	-752	-7.0
Plymouth	24819	24609	24692	24741	24340	24259	23946	23715	23473	23388	1431	6.1
Pocahontas	8774	8815	8833	8947	9110	9122	9153	9302	9390	9525	-751	-7.9
Polk	364672	359713	356245	353943	350699	346646	343079	338209	332752	327140	37532	11.5
Pottawattamie	86425	86190	85319	84690	83722	83350	83492	83407	82810	82628	3797	4.6
Poweshiek	18693	18759	18934	18958	18886	18963	18856	18928	18937	19033	-340	-1.8
Ringgold	5361	5358	5366	5348	5326	5334	5369	5387	5389	5420	-59	-1.1
Sac	11761	11893	11916	11996	12027	12109	12051	12162	12163	12324	-563	-4.6
Scott	159458	158333	157746	157213	156658	156043	155594	155049	153296	150973	8485	5.6
Shelby	12781	12934	13073	13071	13032	13116	13171	13231	13271	13230	-449	-3.4
Sioux	31355	31425	31292	31043	31223	31247	30876	30387	30084	29903	1452	4.9
Story	75373	74875	74922	74435	74184	74206	74710	74225	74014	74252	1121	1.5
Tama	17788	17766	17681	17652	17756	17751	17611	17430	17380	17419	369	2.1
Taylor	7025	7149	7121	7161	7145	7109	7071	7056	7071	7114	-89	-1.3
Union	12611	12522	12499	12594	12437	12439	12546	12545	12658	12750	-139	-1.1
Van Buren	7873	7862	7824	7744	7765	7737	7764	7725	7732	7676	197	2.6
Wapello	35458	35387	35483	35626	35632	35976	36047	35880	35733	35696	-238	-0.7
Warren	40614	40209	39784	39417	38840	38353	37882	37226	36613	36033	4581	12.7
Washington	21147	20938	20886	20668	20515	20253	20258	20185	19888	19612	1535	7.8
Wayne	6581	6677	6775	6819	6840	6893	6980	6974	7034	7067	-486	-6.9
Webster	38832	38975	38690	38957	39269	39435	39868	40092	40234	40342	-1510	-3.7
Winnebago	11971	11942	12056	11989	11936	11901	11841	11911	11972	12122	-151	-1.2
Winneshiak	20917	20962	20827	20923	20933	20982	20997	20974	21028	20847	70	0.3
Woodbury	101437	101547	101862	102385	101997	101296	100795	99858	99193	98276	3161	3.2
Worth	7657	7742	7772	7864	7837	7833	7958	7879	7880	7991	-334	-4.2
Wright	13892	14039	14135	14292	14361	14218	14155	14252	14149	14269	-377	-2.6
State of Iowa	2869413	2861025	2854396	2848473	2840860	2829422	2820525	2806923	2791227	2776831	92582	3.3

Table 2. Estimates (1 July 1981-1989) and Census Counts (1 April 1980, 1990) of Population in Iowa's Counties.

County	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	8409	8430	8510	8550	8700	8940	9140	9210	9260	9400	9509
Adams	4866	4990	5100	5220	5200	5310	5420	5490	5560	5630	5731
Allamakee	13855	14070	14160	14160	14390	14640	14830	14890	14870	14990	15108
Appanoose	13743	13820	13960	14120	14150	14390	14650	14870	15160	15360	15511
Audubon	7334	7410	7510	7610	7850	8090	8320	8250	8360	8470	8559
Benton	22429	22440	22300	22210	22350	22520	22820	22910	23300	23610	23649
Black Hawk	123798	123260	122450	123820	126210	130080	133880	135580	136840	137900	137961
Boone	25186	25110	25180	25160	25320	25510	25710	25900	26060	26280	26184
Bremer	22813	22710	22520	22720	23230	23710	24200	24540	24660	24790	24820
Buchanan	20844	20890	20760	20790	21080	21810	22250	22740	22980	23030	22900
Buena Vista	19965	20050	20170	20100	20400	20570	20930	20750	20850	20890	20774
Butler	15731	15830	15970	15990	16330	16780	17100	17250	17430	17580	17668
Calhoun	11508	11600	11640	11760	11960	12340	12760	13010	13240	13390	13542
Carroll	21423	21500	21730	21780	22100	22430	22640	22640	22670	22970	22951
Cass	15128	15230	15330	15420	15840	16370	16880	16880	16920	17060	16932
Cedar	17444	17380	17330	17480	17820	18210	18430	18580	18520	18620	18635
Cerro Gordo	46733	46850	47220	47360	48160	48500	48060	48070	48220	48420	48458
Cherokee	14098	14140	14280	14510	14850	15270	15660	15850	15870	16130	16238
Chickasaw	13295	13420	13540	13720	14180	14490	14900	15150	15210	15320	15437
Clarke	8287	8330	8410	8350	8290	8390	8490	8570	8720	8650	8612
Clay	17585	17450	17200	17320	17770	18390	18950	19200	19220	19400	19576
Clayton	19054	19220	19370	19410	19700	20180	20510	20600	20810	20950	21098
Clinton	51040	51060	51370	51720	52450	53590	54520	55330	56360	56680	57122
Crawford	16775	17060	17480	17610	17740	18330	18740	18810	18840	18890	18935
Dallas	29755	29320	29180	28810	28880	29250	29180	29320	29180	29360	29513
Davis	8312	8300	8380	8560	8690	8790	8930	8990	9030	9110	9104
Decatur	8338	8490	8460	8560	8780	8910	9100	9280	9580	9750	9794
Delaware	18035	18050	17990	17930	18060	18520	18760	18730	18720	18850	18933
Des Moines	42614	42610	42810	42950	43220	43850	44360	44710	45420	46120	46203
Dickinson	14909	14850	14730	14660	14820	15050	15220	15250	15390	15570	15629
Dubuque	86403	86650	87360	87130	87770	89100	89620	90300	91990	93310	93745
Emmet	11569	11540	11680	11650	11900	12410	12760	12830	13140	13270	13336
Fayette	21843	21850	21880	22000	22600	23380	24150	24460	24840	25060	25488
Floyd	17058	17310	17400	17540	17890	18520	18780	19000	19100	19350	19597
Franklin	11364	11400	11540	11800	12100	12400	12510	12720	12790	12900	13036
Fremont	8226	8250	8440	8670	8670	8830	9030	9060	9170	9250	9401
Greene	10045	10170	10310	10520	10820	11200	11490	11710	11790	11980	12119
Grundy	12029	12120	12280	12430	12800	13250	13510	13780	13950	14190	14366
Guthrie	10935	10920	11070	11050	11280	11420	11600	11550	11690	11860	11983
Hamilton	16071	16300	16460	16570	16840	16990	17200	17430	17590	17840	17862
Hancock	12638	12830	12870	12900	13090	13380	13500	13410	13580	13660	13833
Hardin	19094	19220	19390	19640	20280	20880	21320	21320	21550	21660	21776
Harrison	14730	14830	15080	15180	15340	15450	15630	15810	16040	16160	16348
Henry	19226	19050	19120	19060	18970	18840	18560	18550	18690	18810	18890
Howard	9809	9910	10060	10140	10290	10570	10860	10780	10910	11000	11114
Humboldt	10756	10760	10870	10950	11270	11620	11830	11940	11970	12180	12246
Ida	8365	8390	8340	8380	8600	8750	8800	8800	8750	8890	8908
Iowa	14630	14660	14700	14700	14920	15080	15120	15100	15160	15410	15429
Jackson	19950	20190	20580	20810	21120	21570	21860	21990	22080	22300	22503
Jasper	34795	34760	34750	34570	34640	34720	35030	35240	35710	36050	36425

Table 2. Estimates (1 July 1981-1989) and Census Counts (1 April 1980, 1990) of Population in Iowa's Counties (continued).

County	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	16310	16380	16350	16300	16270	16330	16380	16140	16320	16090	16316
Johnson	96119	94370	92570	90500	89410	88540	87330	86020	84640	83690	81717
Jones	19444	19390	19140	19030	19350	19650	19900	19920	20020	20180	20401
Keokuk	11624	11660	11830	11900	12120	12390	12500	12570	12640	12780	12921
Kossuth	18591	18840	19040	19160	19690	20400	20830	21020	21200	21520	21891
Lee	38687	38890	39170	39670	40320	40800	41570	41890	42270	42580	43106
Linn	168767	167710	165980	164340	164170	164830	165250	165410	167050	168750	169775
Louisa	11592	11570	11640	11630	11630	11790	12000	11990	12000	12150	12055
Lucas	9070	9180	9300	9390	9550	9770	10040	10070	10280	10270	10313
Lyon	11952	11910	11950	11900	12080	12380	12580	12740	12700	12790	12896
Madison	12483	12410	12320	12260	12240	12210	12230	12320	12470	12500	12597
Mahaska	21532	21410	21560	21470	21640	21850	22140	22010	22280	22560	22867
Marion	30001	30040	29890	29590	29460	29520	29630	29680	29930	29830	29669
Marshall	38276	38280	38410	38760	39660	40280	40980	41530	41830	41830	41652
Mills	13202	13240	13320	13210	13230	13340	13310	13370	13380	13520	13406
Mitchell	10928	11010	11110	11140	11260	11430	11590	11840	11940	12110	12329
Monona	10034	10160	10300	10340	10530	10840	11210	11420	11400	11520	11692
Monroe	8114	8100	8150	8250	8360	8590	8700	8850	8950	9120	9209
Montgomery	12076	12110	12060	12090	12350	12840	13170	13130	13150	13360	13413
Muscatine	39907	39760	39740	39540	40020	40420	40850	41070	41400	41000	40436
O'Brien	15444	15520	15560	15610	15930	16320	16700	16920	16860	16970	16972
Osceola	7267	7260	7350	7360	7540	7760	8060	8130	8130	8260	8371
Page	16870	16840	16740	16970	17300	17790	18180	18360	18610	18920	19063
Palo Alto	10669	10760	10850	10980	11370	11890	12160	12450	12510	12670	12721
Plymouth	23388	23450	23690	23560	23600	23690	24080	24290	24430	24880	24743
Pocahontas	9525	9720	9870	10010	10370	10740	10840	10930	10970	11160	11369
Polk	327140	322470	317120	312850	309720	308350	307090	305720	304570	304870	303170
Pottawattamie	82628	82780	83330	83800	84180	84830	85620	85470	85940	86320	86561
Poweshiek	19033	19060	18920	18750	18700	18890	18820	19050	19100	19270	19306
Ringgold	5420	5440	5430	5430	5570	5790	5970	6000	6110	6080	6112
Sac	12324	12350	12380	12560	12750	13080	13280	13460	13740	14010	14118
Scott	150973	150040	150220	150910	152610	154570	156280	157400	159620	160180	160022
Shelby	13230	13280	13420	13470	13800	14200	14700	14630	14780	14830	15043
Sioux	29903	29880	29980	29600	29900	30440	30610	30700	30530	30650	30813
Story	74252	73720	73880	73320	74020	74050	73410	73320	72300	72870	72326
Tama	17419	17490	17680	17810	18220	18660	19000	19040	19210	19340	19533
Taylor	7114	7190	7240	7410	7590	7840	8090	8210	8310	8320	8353
Union	12750	12640	12750	12860	12930	13140	13490	13660	13750	13850	13858
Van Buren	7676	7670	7850	7870	7990	8120	8300	8420	8520	8630	8626
Wapello	35696	35680	35590	36240	37140	38160	38820	39070	39380	39940	40241
Warren	36033	35660	35180	35040	34900	34780	34780	34720	34730	34980	34878
Washington	19612	19600	19640	19520	19620	19770	19810	19870	20070	20190	20141
Wayne	7067	7060	7080	7230	7360	7520	7820	7870	7960	8090	8199
Webster	40342	40510	40690	41110	41680	42690	43470	44110	44900	45490	45953
Winnebago	12122	12130	12050	12030	12320	12540	12630	12550	12550	12680	13010
Winneshiek	20847	21040	21050	20960	21140	21430	21690	21760	21820	21930	21876
Woodbury	98276	97750	97570	96800	97530	98910	99740	99810	100550	101190	100884
Worth	7991	8100	8170	8190	8480	8700	8810	8870	8950	9020	9075
Wright	14269	14350	14320	14430	14830	15400	15800	15770	15850	16080	16319
State of Iowa	2776831	2770720	2768550	2767130	2792050	2829780	2858690	2870650	2888250	2908050	2913808

Table 3. Estimates (1 July 1971-1979) and Census Counts (1 April 1970, 1980) of Population in Iowa's Counties.

County	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Adair	9509	9500	9400	9400	9300	9300	9300	9600	9500	9300	9487
Adams	5731	5800	5900	5900	5800	5900	6000	6100	6300	6300	6322
Allamakee	15108	15400	15700	15600	15300	15200	15000	15100	15400	15300	14968
Appanoose	15511	15500	15400	15600	15200	14900	14700	15000	15500	15200	15007
Audubon	8559	8900	9000	9000	9000	8900	8900	9100	9400	9400	9595
Benton	23649	23700	23500	23400	23000	22900	22800	22900	22900	23000	22885
Black Hawk	137961	136200	136200	134900	134200	133100	132400	132800	132400	133400	132916
Boone	26184	26300	26400	26500	26300	26200	26500	26800	27500	26900	26470
Bremer	24820	24300	24000	23900	23800	23800	23800	23300	23100	22800	22737
Buchanan	22900	23200	23100	23100	22700	22500	22100	22000	21600	21600	21762
Buena Vista	20774	20600	20900	20900	20900	20800	20900	21000	21200	21000	20693
Butler	17668	17800	17700	17700	17500	17400	17400	17200	17100	17000	16953
Calhoun	13542	13500	13700	13800	13900	13800	13800	14000	13900	14200	14292
Carroll	22951	22900	23100	23000	23000	23000	23100	23100	22800	22800	22912
Cass	16932	17200	17200	17100	17000	17000	17100	17200	17000	17200	17007
Cedar	18635	18800	18900	18800	18300	17800	17800	18000	18100	18000	17655
Cerro Gordo	48458	48500	48900	49200	49200	49300	49700	49700	49300	49500	49223
Cherokee	16238	16400	16600	16600	16500	16500	16900	17200	17400	17300	17269
Chickasaw	15437	15500	15500	15400	15300	15200	14900	14900	14800	14700	14969
Clarke	8612	8500	8300	8200	8100	8000	7800	7800	7900	7600	7581
Clay	19576	19600	19500	19200	19000	18800	18500	18400	18400	18600	18464
Clayton	21098	21600	21800	21800	21500	21400	21100	21100	21300	20800	20606
Clinton	57122	58300	58300	58300	58200	57900	57400	56800	57100	57400	56749
Crawford	18935	19300	19200	19200	18900	18800	18700	18700	18900	18900	19116
Dallas	29513	29000	28800	28300	27800	27500	27200	26900	26600	26400	26085
Davis	9104	9200	9100	9200	8800	8600	8500	8400	8400	8200	8207
Decatur	9794	9800	9800	10000	9900	9900	9700	9600	9800	9700	9737
Delaware	18933	18700	18800	18800	18900	18900	18700	18800	18800	18400	18770
Des Moines	46203	45800	46000	45700	45600	45600	45800	45600	45500	46400	46982
Dickinson	15629	15700	15300	15100	14700	14300	13700	13400	13000	12900	12565
Dubuque	93745	93400	93700	94300	95700	94700	93800	93700	92700	91700	90609
Emmet	13336	13500	13700	13900	13700	13600	13700	13800	14200	13900	14009
Fayette	25488	25200	25800	26100	26100	26100	26200	26500	27100	26800	26898
Floyd	19597	19600	19800	19800	20100	20200	19900	19700	20300	21000	19860
Franklin	13036	13100	12900	12800	13100	13000	12900	13000	13200	13200	13255
Fremont	9401	9700	9700	9600	9600	9600	9600	9600	9800	9700	9282
Greene	12119	12300	12200	12300	12400	12400	12400	12500	12600	12700	12716
Grundy	14366	14400	14200	14000	14100	14100	14000	14000	14100	14100	14119
Guthrie	11983	11900	12000	12300	12200	12200	12300	12400	12700	12300	12243
Hamilton	17862	18000	18100	18000	18300	18200	18100	18400	17800	18000	18383
Hancock	13833	13800	13900	14000	13800	13600	13400	13700	13900	13500	13506
Hardin	21776	22000	21700	22100	22200	22200	22300	22100	22300	22300	22248
Harrison	16348	16600	16600	16900	16700	16600	16600	16800	17100	16600	16240
Henry	18890	18900	19000	18600	18400	18300	18300	18200	18200	18300	18114
Howard	11114	11100	11300	11500	11500	11500	11300	11300	11200	11300	11442
Humboldt	12246	12300	12400	12600	12600	12400	12400	12500	12800	12700	12519
Ida	8908	9000	9000	9100	9100	9100	9200	9400	9300	9200	9283
Iowa	15429	15700	15800	15900	15900	15900	15800	15900	15500	15400	15419
Jackson	22503	22400	22300	22100	21900	21600	21300	21200	21200	21300	20839
Jasper	36425	36800	36700	36700	36700	36600	36500	36500	35500	35700	35425



Table 3. Estimates (1 July 1971-1979) and Census Counts (1 April 1970, 1980) of Population in Iowa's Counties (continued).

County	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Jefferson	16316	16300	16200	15900	15700	15300	14600	15900	16200	16300	15774
Johnson	81717	81400	79500	79200	79100	76500	76100	74900	73100	73600	72127
Jones	20401	20400	20100	20300	20200	19900	19500	19600	19800	19800	19868
Keokuk	12921	13100	13300	13500	13500	13500	13600	13900	13900	14200	13943
Kossuth	21891	21900	22100	22100	22300	22400	22300	22600	23100	23000	22937
Lee	43106	43400	43800	43800	43400	42600	42900	42800	43400	44200	42996
Linn	169775	167900	167500	167200	168200	167200	165700	164500	165200	164800	163213
Louisa	12055	12100	12100	11900	11500	11300	11200	11200	11200	11000	10682
Lucas	10313	10400	10300	10200	10300	10300	10300	10400	10400	10300	10163
Lyon	12896	12800	13100	13000	13100	13100	13200	13400	13100	13000	13340
Madison	12597	12900	12800	12600	12300	12100	12200	12200	12200	11700	11558
Mahaska	22867	23000	23000	22900	22200	22100	22500	22400	22500	22500	22177
Marion	29669	29200	29200	28700	27900	27400	27000	26800	26900	26800	26352
Marshall	41652	41700	42400	43000	42700	42700	42200	42000	42400	41800	41076
Mills	13406	13600	13400	13200	12900	12600	12600	12400	12600	12300	11832
Mitchell	12329	12400	12500	12500	12700	12600	12600	12700	12600	12900	13108
Monona	11692	12200	12200	12200	12100	12000	12000	12200	12200	12000	12069
Monroe	9209	9600	9400	9400	9300	9300	9300	9400	9400	9500	9357
Montgomery	13413	13400	13500	13600	13300	13200	13100	13100	13500	13100	12781
Muscatine	40436	40500	40500	40400	40200	39800	39000	38500	38100	37900	37181
O'Brien	16972	17000	17300	17400	17400	17400	17500	17400	17800	17800	17522
Osceola	8371	8500	8400	8400	8500	8400	8600	8600	8500	8500	8555
Page	19063	19400	19300	19300	19100	19000	19100	18900	19300	19000	18537
Palo Alto	12721	12900	13200	13400	13300	13200	13300	13200	13700	13600	13289
Plymouth	24743	25000	25000	25100	24600	24300	24100	24100	24400	24400	24322
Pocahontas	11369	11700	11800	11800	12100	12200	12000	12200	12300	12700	12793
Polk	303170	302300	302900	302100	304500	303100	300800	297300	292800	291300	286130
Pottawattamie	86561	86500	86900	87800	87300	86700	86800	87500	88900	88300	86991
Poweshiek	19306	19100	19100	19200	19200	19400	19200	19200	19000	18700	18803
Ringgold	6112	6100	6200	6300	6200	6100	6200	6300	6400	6400	6373
Sac	14118	14300	14600	14800	15000	14900	15000	15200	15300	15500	15573
Scott	160022	159600	158700	156900	155100	152800	149600	146200	144700	145000	142687
Shelby	15043	14800	14800	15000	15000	15100	15200	15500	15800	15700	15528
Sioux	30813	30600	30300	29900	29500	29000	28900	28500	28200	28100	27996
Story	72326	71400	71300	69900	69100	68000	67700	66400	64600	63700	62783
Tama	19533	19900	20100	20000	19900	19600	20200	20200	20100	20400	20147
Taylor	8353	8300	8400	8300	8400	8400	8400	8600	8800	8900	8790
Union	13858	14100	13900	13800	13700	13500	13600	13600	13900	13700	13557
Van Buren	8626	8500	8500	8600	8300	8300	8500	8500	8800	8500	8643
Wapello	40241	40700	40500	40500	40100	39800	40800	42000	41900	42300	42149
Warren	34878	34300	33600	32900	31900	31200	30700	30300	28900	28100	27432
Washington	20141	20300	20100	20000	19700	19500	19500	19400	19400	19000	18967
Wayne	8199	8100	8200	8300	8200	8200	8400	8400	8300	8300	8405
Webster	45953	45900	46500	46800	47200	47000	47000	47200	48300	48200	48391
Winnebago	13010	13500	13700	13600	13600	13400	13700	14000	13500	13000	12990
Winneshiek	21876	22200	22000	21900	21700	21700	21800	22000	22100	21900	21758
Woodbury	100884	102300	104200	105200	105300	104600	104400	104400	104500	104400	103052
Worth	9075	9300	9100	9000	8900	8900	8800	9000	9000	8900	8984
Wright	16319	16400	16600	16500	16800	16700	16700	17100	17000	17200	17294
State of Iowa	2913808	2917000	2919000	2914000	2904000	2881000	2868000	2864000	2860000	2852000	2825368

Figure 1. Population change, 1990–1999.

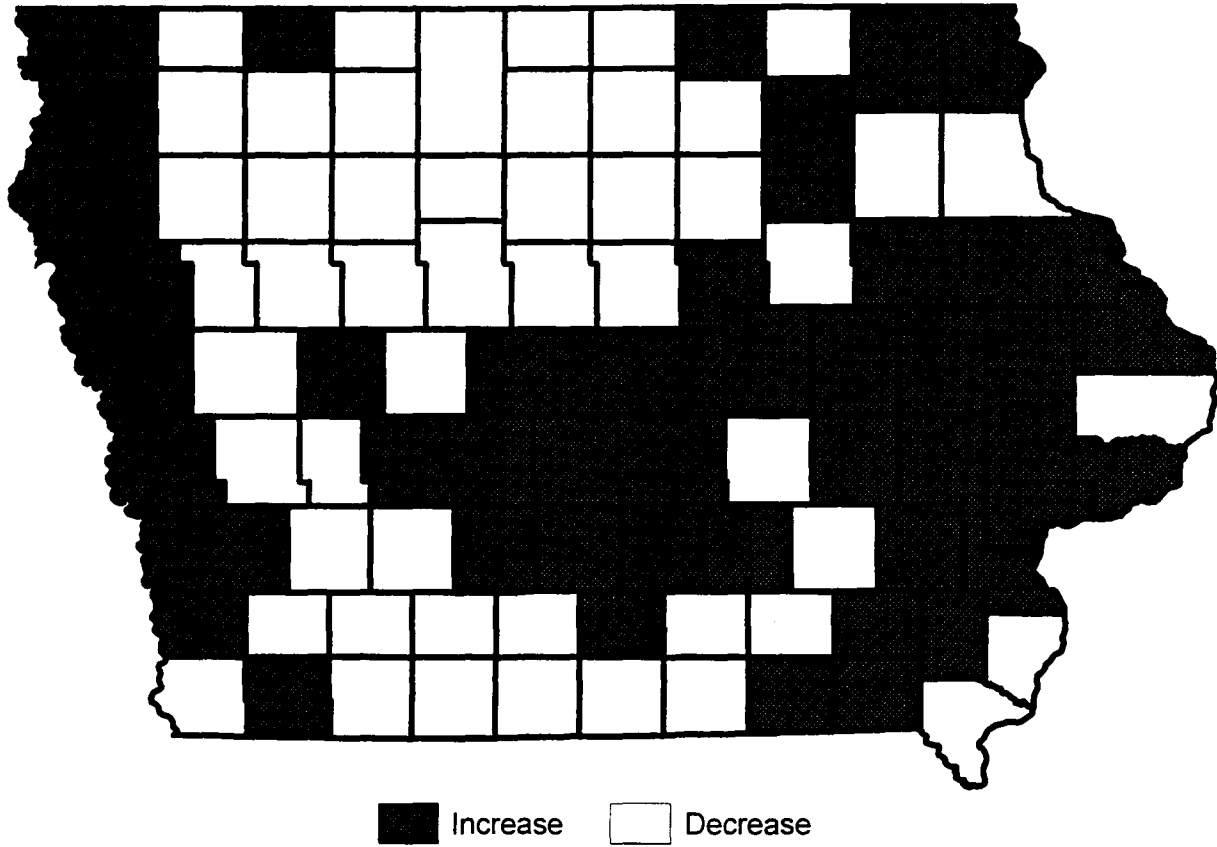
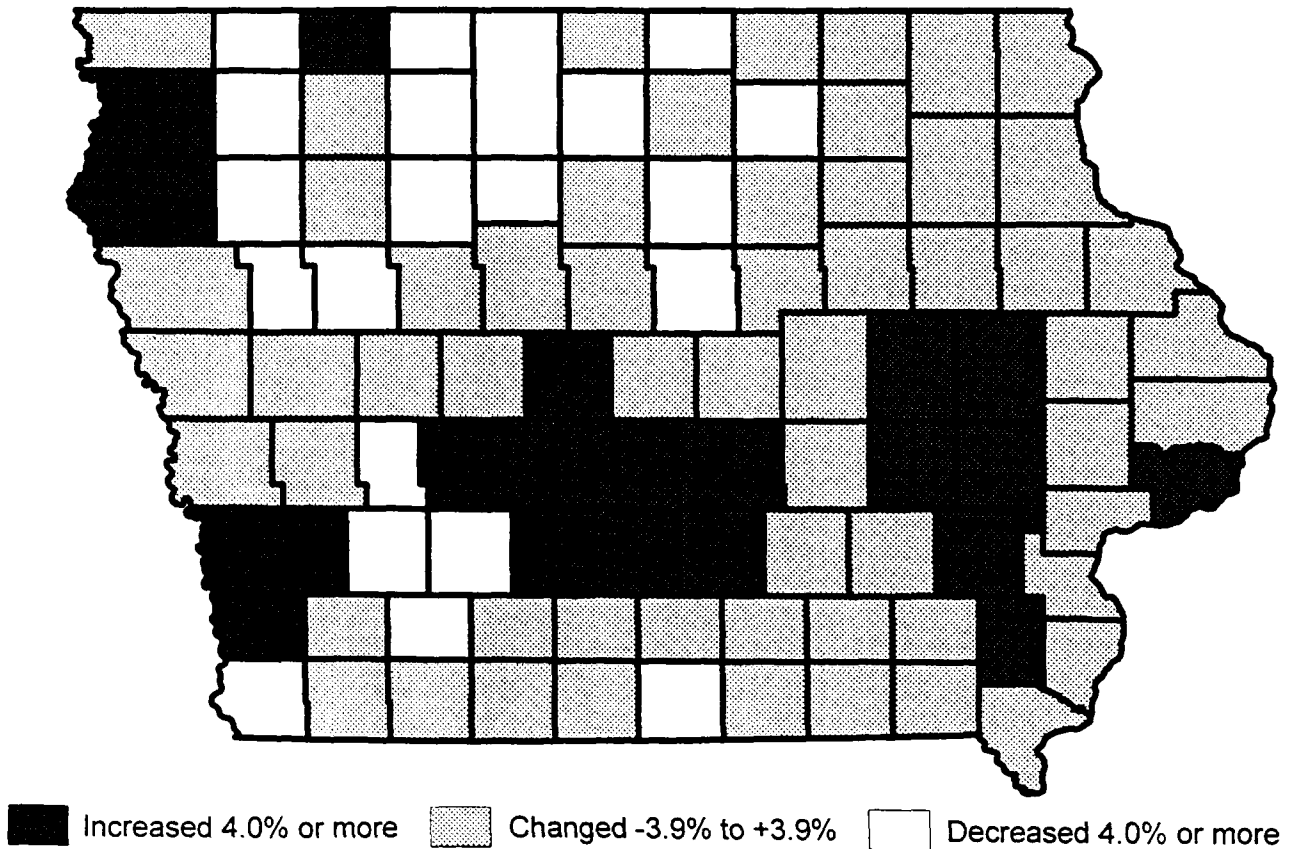


Figure 2. Percent population change, 1990–1999.



## Projected Population in Iowa's Counties: 2000-2020

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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. In 2000, Woods and Poole Economics, Inc. (1794 Columbia Road, NW; Washington, DC 20009) provided projections to 2020. Economic models drive this set of projections, with employment statistics acting as a key determinant of the figures. Woods and Poole update their projections annually. This set of forecasts is obtained by the State of Iowa for use by its agencies. Note that the figures for 2000 are considered projections because census data setting the population for that year for Iowa and its counties will not be available until 2001.

For Iowa, the projection for the year 2000 indicates a gain of 111,400 from the 1990 census count (Table 1). That trend is anticipated to continue, with a gain of 114,500 projected from 2000 to 2010 and an increase of 134,500 from 2010 to 2020. The forecasts of 2,888,300 for 2000 and 3,002,800 for 2010 suggest Iowa will surpass the 1980 census count of 2,913,800 in the next few years. In percentage terms, the anticipated gains by decade are smaller in Iowa (1990-2000: 4.0%, 2000-2010: 4.0%, 2010-2020: 4.5%) than the nation (1990-2000: 10.6%, 2000-2010: 8.4%, 2010-2020: 8.4%), a pattern similar to most decades in the 1900s.

Nearly equal numbers of counties are projected to gain and decline in coming decades. It is anticipated that 48 counties will have increasing populations in the first decade of this century while 51 will decrease. About the same numbers for gains (49) and declines (50) are projected for the 2010-2020 decade.

Numerical changes are projected to be much greater in some counties than others, of course. For example, Polk may gain 41,000 residents from 2000 to 2010, a figure substantially above those for Johnson (15,700) and Linn (16,700), the only others predicted to increase by at least 10,000 that decade. Scott, Warren, and Woodbury also may gain by at least 5,000. Losses among those declining over the first decade of the 21<sup>st</sup> century will be relatively small according to these projections, with only those in Wapello and Webster greater than 1,000. Change from 2010 to 2020 is more difficult to predict, of course, but only Webster is projected to decline by at least 1,000 that decade while 21 others could gain by that amount or more. Polk's gain of 44,000 could be the greatest, with increases in Johnson and Linn also anticipated to be at least 10,000 from 2010 to 2020.

Percentage changes also could be small in most counties according to the Woods and Poole projections. For example, 50 counties are expected to change by less than three percentage points in either direction between 2000 and 2010. From 2010 to 2020, 58 may change by less than three points. Gains of at least 10 percent could occur in Dallas, Johnson, Polk, and Warren in both decades. No county is expected to decline by at least 10 percent from 2000 to 2010 or from 2010 to 2020.

**Note:** Caution is urged in examining population projections. It is difficult to predict population even a few years, let alone a few decades, into the future.

Table 1. Population, 1990, and Projected Population, 2000-2020, in Iowa's Counties.

County	Census	Woods and Poole Projections			County	Census	Woods and Poole Projections		
	1990	2000*	2010*	2020*		1990	2000*	2010*	2020*
Adair	8409	8030	7860	7740	Jefferson	16310	17270	17900	18690
Adams	4866	4350	4280	4220	Johnson	96119	105970	121670	138210
Allamakee	13855	13960	13700	13540	Jones	19444	20470	20900	21420
Appanoose	13743	13570	13310	13200	Keokuk	11624	11430	11010	10680
Audubon	7334	6730	6410	6130	Kossuth	18591	17600	16830	16200
Benton	22429	25860	27980	30260	Lee	38687	38390	37710	37280
Black Hawk	123798	121680	123910	126950	Linn	168767	186130	202830	220770
Boone	25186	26300	26490	26850	Louisa	11592	12030	12440	12960
Bremer	22813	23600	24440	25440	Lucas	9070	9130	8920	8790
Buchanan	20844	21240	21370	21650	Lyon	11952	12140	12670	13300
Buena Vista	19965	19450	19240	19160	Madison	12483	14080	15000	16020
Butler	15731	15670	15530	15470	Mahaska	21532	21930	21970	22130
Calhoun	11508	11290	10830	10420	Marion	30001	31660	32880	34340
Carroll	21423	21880	22670	23630	Marshall	38276	38920	39570	40470
Cass	15128	14540	14210	13960	Mills	13202	14610	15160	15830
Cedar	17444	18030	18240	18550	Mitchell	10928	11060	11260	11520
Cerro Gordo	46733	46130	45670	45520	Monona	10034	10110	10030	9970
Cherokee	14098	13150	12880	12620	Monroe	8114	8010	7800	7650
Chickasaw	13295	13490	13670	13920	Montgomery	12076	11910	11840	11810
Clarke	8287	8430	8700	9040	Muscatine	39907	41430	42790	44450
Clay	17585	17670	18270	18960	O'Brien	15444	14910	14820	14770
Clayton	19054	18650	18250	17990	Osceola	7267	6940	6720	6540
Clinton	51040	49820	49100	48700	Page	16870	17490	18550	19720
Crawford	16775	16390	15960	15650	Palo Alto	10669	9950	9490	9060
Dallas	29755	37940	42930	48240	Plymouth	23388	25010	25760	26650
Davis	8312	8420	8440	8520	Pocahontas	9525	8690	8170	7700
Decatur	8338	8170	7940	7740	Polk	327140	368350	409390	453410
Delaware	18035	18660	18990	19480	Pottawattamie	82628	87050	90980	95440
Des Moines	42614	41830	41010	40460	Poweshiek	19033	18920	19010	19240
Dickinson	14909	16500	17760	19140	Ringgold	5420	5330	5160	5030
Dubuque	86403	88260	90090	92500	Sac	12324	11840	11320	10870
Emmet	11569	10810	10350	10010	Scott	150973	160280	168150	177250
Fayette	21843	21630	20840	20180	Shelby	13230	12930	12630	12400
Floyd	17058	16260	15740	15320	Sioux	29903	31750	33900	36290
Franklin	11364	10810	10470	10190	Story	74252	75920	78880	82350
Fremont	8226	7720	7530	7360	Tama	17419	17840	18190	18640
Greene	10045	10000	9590	9310	Taylor	7114	7110	6900	6700
Grundy	12029	12240	12420	12660	Union	12750	12530	12370	12300
Guthrie	10935	11630	11880	12220	Van Buren	7676	7920	8050	8220
Hamilton	16071	15950	15550	15250	Wapello	35696	35270	34230	33420
Hancock	12638	12020	11840	11720	Warren	36033	41310	46550	52190
Hardin	19094	18370	17830	17420	Washington	19612	21320	22990	24790
Harrison	14730	15520	16190	16960	Wayne	7067	6610	6360	6140
Henry	19226	20240	21300	22490	Webster	40342	38480	37140	36000
Howard	9809	9620	9260	8990	Winnebago	12122	11900	11740	11660
Humboldt	10756	10260	9910	9690	Winneshiak	20847	21020	21350	21810
Ida	8365	7920	7900	7920	Woodbury	98276	103250	110720	118970
Iowa	14630	15680	16220	16840	Worth	7991	7750	7570	7470
Jackson	19950	20050	19850	19780	Wright	14269	13920	13400	12990
Jasper	34795	36060	36350	36840					
State of Iowa						2776831	2888300	3002800	3137300
United States						248718300	275205800	298405800	323501400

\*County projections were rounded to the nearest 10 and state/nation projections to the nearest 100.

## Counts (1990) and Estimates (1999) of Residents by Age and Sex in Iowa's Counties

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The U.S. Bureau of the Census released estimates of the 1999 population of counties by five-year age groups in September of 2000. They are included in Tables 1A (females) and 1B (males). Numbers from the 1990 census are provided for comparative purposes in Tables 2A and 2B.

According to these estimates, females outnumbered males in the state in both 1990 (by 87,000) and 1999 (by 75,000). This trend was not continuous through the life span for either year, however. In 1999, males accounted for 51.2 percent of the population 19 or younger and 50.1 percent of 20-39 year olds. Among older age groups, females accounted for 50.7 percent of 40-59 year olds, 54.7 percent of 60-79 year olds, and 67.4 percent of those 80 and older.

From 1990 to 1999, the number of Iowa residents under the age of 20 gained slightly; the estimated increase was about 4,600. An estimated loss of 74,600 occurred among 20-39 year olds. At the same time, there was an increase of 164,800 among the 40-59 year olds. Part of the relatively large changes in the 20-39 and 40-49 categories can be attributed to the aging of baby-boomers. In 1990, these individuals were about 25-44 years of age; nine years later they were 34-53. Thus, more had moved from the 20-39 group in 1990 to the 40-59 by 1999. In the 60-79 year old age category, there was a decrease of 18,400. This decline is due in part to the inclusion of those born in the early 1930s, when birth rates declined substantially. Among those 80 and older, the gain was about 16,300.

In 1999, it was estimated that females outnumbered males in all counties but six (Henry, Jasper, Jones, Louisa, Page, Story). Prisons, labor-intensive industries, and universities may partially explain these exceptions. For example, there were 2,300 more males aged 20-24 (college age) than females in that age group in Story County—the location of Iowa State University—that year.

Twenty-eight counties experienced growth in their populations under the age of 20 from 1990 to 1999. Benton, Dallas, and Madison were the only counties with increases in the 20-39 age category, however. All counties noted gains in their 40-59 year old populations, and 12 counties had more persons 60-79 years of age in 1999 than in 1990. All except Fremont and Taylor had greater numbers 80 and older at the end of the period, although gains in 52 counties were less than 100.

The count of Iowans 75 or older exceeded that under the age of 5 for the first time in this state in the 1990 census; that trend has continued. Eighty-four counties in 1990 and 88 in 1999 had more residents 75 or older than under 5 years of age. When the upper category is raised to those 85 or older, then no county had more in the older group than under 5 years of age either year. But when the numbers of females were compared, Ringgold had more 85 and older than under the age of 5 in 1990. Hardin, Monona, Page, and Wayne joined Ringgold in 1999 as counties estimated to have more females 85 or older than 4 or younger. In neither year did any county have more males 85 and older than under the age of 5, which reflects the shorter life expectancy of males than females.

**Note:** The estimates for the state and counties by the U.S. Bureau of the Census are based on births, deaths, and residual change. Most of the residual is net migration. Residual change also is affected by any inaccuracies in data supplied to the census bureau or in variations in implementing the estimating

Table 1A. Estimated Age of Females in Iowa's Counties, 1999.

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Adair	244	250	292	257	153	191	232	225	256	296	292	220	202	187	216	234	188	220	4155
Adams	117	121	142	140	78	102	117	129	165	173	157	131	106	138	121	115	94	93	2239
Allamakee	452	500	532	477	266	363	390	465	464	492	426	372	335	331	318	343	263	337	7126
Appanoose	408	410	485	500	318	350	375	429	511	494	422	393	355	312	363	314	263	296	6998
Audubon	208	233	215	208	107	158	170	189	227	237	246	198	202	178	200	197	152	207	3532
Benton	855	914	1016	893	630	777	819	909	990	981	805	693	598	492	509	499	365	329	13074
Black Hawk	3498	3788	4296	5218	5439	3333	3879	4618	4919	4313	3678	2856	2706	2431	2420	2022	1609	1628	62651
Boone	814	866	924	875	650	783	854	1048	1048	995	868	705	640	500	518	503	419	627	13637
Bremer	621	775	807	1060	850	553	617	775	970	930	770	596	450	479	489	432	391	424	11989
Buchanan	763	824	943	795	481	585	649	706	817	755	674	510	466	409	449	387	255	263	10731
Buena Vista	604	626	704	825	725	519	578	654	622	560	532	483	497	447	436	434	311	391	9948
Butler	432	505	569	530	282	357	450	523	550	526	492	425	396	391	408	357	335	346	7874
Calhoun	309	376	374	354	147	238	308	384	365	382	366	326	295	305	323	320	240	307	5719
Carroll	763	807	902	755	477	557	673	719	663	731	621	560	563	509	510	461	361	477	11109
Cass	399	489	506	481	276	359	407	491	525	520	508	413	364	351	398	408	328	340	7563
Cedar	534	639	736	593	393	508	550	696	700	699	553	469	448	360	389	337	278	319	9201
Cerro Gordo	1356	1397	1489	1728	1252	1420	1536	1705	1734	1586	1472	1257	1119	1148	1085	1052	812	899	24047
Cherokee	392	409	526	484	231	322	346	461	451	459	429	399	327	319	334	323	266	297	6775
Chickasaw	410	463	521	475	250	333	413	460	477	489	473	302	321	291	284	289	244	239	6734
Clarke	263	280	294	306	175	228	231	324	292	317	285	215	230	160	175	206	150	186	4317
Clay	561	609	654	597	417	483	569	672	660	574	528	476	433	422	380	350	267	346	8998
Clayton	597	665	724	667	389	488	526	623	645	623	586	528	462	399	433	391	332	325	9403
Clinton	1546	1655	1872	1882	1253	1452	1592	1745	2009	1883	1624	1259	1216	1086	1143	955	740	807	25719
Crawford	535	563	653	661	354	421	465	508	605	632	498	423	398	358	375	344	255	327	8375
Dallas	1221	1414	1476	1340	866	1193	1369	1544	1766	1465	1257	908	803	590	602	561	452	507	19334
Davis	272	297	310	314	196	220	242	309	280	323	298	240	199	161	163	192	136	183	4335
Decatur	221	245	275	461	325	201	202	226	278	282	241	213	218	163	204	164	156	195	4270
Delaware	628	780	793	689	412	551	606	601	615	624	571	470	424	376	374	293	292	278	9377
Des Moines	1288	1392	1447	1458	1146	1221	1219	1580	1770	1678	1332	1103	1023	981	875	834	742	769	21858
Dickinson	420	492	575	474	292	381	426	650	648	615	531	512	505	449	469	411	283	299	8432
Dubuque	2678	3002	3220	3716	2867	2584	2765	3288	3377	3207	2636	2175	1892	1842	1727	1639	1360	1412	45387
Emmet	285	329	409	481	234	240	290	356	374	330	314	278	294	273	273	268	230	247	5505
Fayette	659	759	776	798	519	536	609	681	756	772	707	618	494	515	513	490	386	423	11011

Table 1A. Estimated Age of Females in Iowa's Counties, 1999 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Floyd	471	533	623	585	372	391	419	549	597	655	552	440	443	382	441	390	284	366	8493
Franklin	318	363	377	348	205	263	304	354	431	378	355	311	294	274	261	246	214	256	5552
Fremont	210	255	326	297	140	180	209	266	289	289	231	233	219	196	181	200	157	154	4032
Greene	269	321	349	297	183	237	283	353	333	339	331	304	290	255	288	296	224	253	5205
Grundy	346	393	455	397	231	290	351	415	486	470	437	356	319	287	342	309	230	237	6351
Guthrie	284	405	425	398	218	261	307	385	448	417	420	380	356	280	279	261	205	265	5994
Hamilton	476	508	569	535	320	431	468	569	592	587	555	477	412	379	380	315	291	311	8175
Hancock	388	440	455	427	237	338	369	414	446	378	378	317	285	271	283	266	219	225	6136
Hardin	474	571	590	648	347	425	504	599	647	636	582	497	483	478	498	491	380	491	9341
Harrison	441	543	544	604	321	423	469	492	552	571	482	439	384	318	326	332	269	328	7838
Henry	617	632	696	756	537	521	608	693	835	728	566	477	411	348	417	353	319	356	9870
Howard	299	339	379	299	169	252	262	271	325	330	303	288	264	202	221	246	208	229	4886
Humboldt	279	356	365	337	167	244	302	324	368	352	357	318	287	269	274	283	171	187	5240
Ida	256	295	272	258	133	200	241	250	273	256	199	233	222	218	195	207	166	211	4085
Iowa	532	536	554	478	322	458	511	543	561	563	559	438	382	329	343	352	248	327	8036
Jackson	621	673	776	738	463	541	585	681	689	809	611	595	480	427	441	431	336	322	10219
Jasper	1043	1092	1282	1221	834	1010	1078	1298	1448	1394	1246	1029	934	780	763	676	567	550	18245
Jefferson	508	581	543	514	346	447	527	905	965	694	477	388	334	275	291	266	241	237	8539
Johnson	3127	2820	2572	5058	8576	4765	3920	4226	3884	3090	2270	1653	1338	1108	1079	959	830	857	52132
Jones	582	643	743	652	447	531	558	676	711	727	607	513	455	404	418	403	279	328	9677
Keokuk	316	418	366	404	216	315	328	346	376	394	359	372	271	269	275	274	236	263	5798
Kossuth	544	654	645	624	308	426	487	577	616	590	638	508	442	412	416	407	333	391	9018
Lee	1122	1221	1354	1353	973	1069	1130	1371	1492	1481	1172	978	963	893	819	712	632	640	19375
Linn	5770	5766	6058	7321	6714	6339	6354	7332	8107	7330	6045	4502	3660	3314	3086	2855	2128	2223	94904
Louisa	353	386	486	455	303	343	355	462	431	436	372	310	257	220	193	198	168	193	5921
Lucas	248	281	327	296	190	220	270	312	317	362	300	292	248	207	237	248	188	214	4757
Lyon	406	427	519	436	255	282	323	406	402	335	394	362	295	268	279	261	225	251	6126
Madison	438	474	610	529	298	358	452	556	538	552	464	375	292	255	254	260	199	255	7159
Mahaska	703	717	810	818	661	643	664	788	786	770	634	571	536	484	480	454	314	384	11217
Marion	904	1048	1118	1309	1086	849	922	1150	1175	1095	988	778	684	616	604	583	472	492	15873
Marshall	1137	1237	1319	1415	973	1043	1200	1482	1629	1587	1225	1008	916	767	825	702	572	678	19715
Mills	404	476	590	598	327	406	493	634	675	571	474	344	308	224	267	240	187	183	7401
Mitchell	330	363	389	410	217	259	292	332	346	396	390	314	300	269	283	263	223	330	5706

Table 1A. Estimated Age of Females in Iowa's Counties, 1999 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Monona	258	315	395	325	178	244	262	307	309	384	336	299	303	265	273	282	252	279	5266
Monroe	218	272	296	276	177	207	238	258	298	286	249	229	227	192	204	180	141	189	4137
Montgomery	320	363	410	443	228	329	333	400	466	413	355	339	308	268	305	278	282	294	6134
Muscatine	1387	1475	1658	1565	1218	1394	1327	1544	1617	1536	1224	909	777	758	742	661	534	592	20918
O'Brien	420	508	545	486	251	360	425	511	446	477	463	421	403	380	365	373	325	415	7574
Osceola	228	235	256	253	143	167	209	220	232	224	212	211	166	154	173	150	128	180	3541
Page	421	520	608	534	288	397	464	560	587	590	458	487	436	403	415	430	344	425	8367
Palo Alto	280	353	370	351	180	195	270	297	308	311	344	315	274	232	265	274	213	276	5108
Plymouth	847	904	1025	930	552	634	746	917	863	874	726	712	580	469	505	478	393	455	12610
Pocahontas	252	290	298	264	129	205	232	290	285	341	303	242	250	220	263	221	184	241	4510
Polk	12452	11704	11749	13422	14327	14802	13800	15262	16245	14358	11187	8579	7206	6175	5726	5095	3902	4156	190147
Pottawattamie	2922	2978	3116	3298	2596	2899	2871	3195	3421	3272	2819	2437	2031	1789	1633	1394	1048	1086	44805
Poweshiek	506	561	637	886	634	482	537	652	666	715	595	474	409	414	412	374	340	383	9677
Ringgold	115	178	177	179	88	118	133	159	195	186	177	184	144	163	166	161	131	148	2802
Sac	327	393	452	377	196	271	322	383	393	360	364	342	331	311	319	311	235	318	6005
Scott	5586	5690	6071	6162	5331	5429	5740	6413	6912	6127	4911	3635	3013	2863	2515	2210	1760	1617	81985
Shelby	352	438	478	471	227	333	335	426	424	420	404	372	315	304	341	323	249	304	6516
Sioux	1058	1216	1337	1674	1284	741	863	1026	948	1004	848	676	675	625	627	585	453	444	16084
Story	1996	1935	1950	3736	6031	2584	2327	2492	2410	2184	1735	1297	1125	1028	1022	971	776	901	36500
Tama	501	570	682	632	401	451	500	548	624	658	601	527	449	404	425	433	322	406	9134
Taylor	201	235	273	259	127	155	189	227	238	255	220	214	195	180	181	180	174	164	3667
Union	369	404	500	539	300	355	359	448	508	451	380	365	276	273	268	270	260	298	6623
Van Buren	255	257	264	207	175	208	213	259	276	273	292	222	191	189	192	197	151	142	3963
Wapello	1057	976	1176	1322	935	981	1067	1287	1411	1304	1114	1053	958	846	829	804	660	649	18429
Warren	1264	1393	1562	1796	1309	1179	1322	1621	1847	1775	1295	983	650	676	564	581	404	520	20741
Washington	713	704	782	699	512	634	641	741	801	777	622	547	485	481	454	420	409	463	10885
Wayne	191	200	233	195	136	171	166	191	223	229	213	182	208	167	198	179	149	209	3440
Webster	1246	1247	1390	1443	1050	1092	1219	1351	1445	1333	1215	1081	971	872	873	790	645	858	20121
Winnebago	348	391	427	551	258	294	347	420	413	426	330	298	281	261	263	304	272	260	6144
Winneshiek	621	658	696	1164	1089	523	599	619	647	657	599	486	456	392	427	357	322	367	10679
Woodbury	3539	3757	3981	3992	3168	3257	3288	3837	3930	3430	2796	2506	2352	1925	1899	1658	1318	1449	52082
Worth	222	240	271	254	163	202	218	279	266	283	253	196	216	178	160	198	141	185	3925
Wright	424	408	510	436	289	347	384	465	531	460	428	404	395	379	378	336	300	373	7247
State of Iowa	89465	94409	101518	110428	93509	88407	91965	106309	112484	104878	88233	72350	63801	57267	56597	52322	41887	46376	1472205



Table 1B. Estimated Age of Males in Iowa's Counties, 1999.

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Adair	232	254	334	280	174	191	220	263	299	257	246	223	208	154	183	179	125	89	3911
Adams	150	132	140	169	77	101	125	128	158	156	154	126	119	96	98	102	69	66	2166
Allamakee	453	486	549	561	333	370	447	510	510	503	418	356	350	314	282	226	151	123	6942
Appanoose	371	441	519	552	304	351	375	433	483	485	387	302	321	267	279	274	187	117	6448
Audubon	206	224	237	226	131	142	170	233	222	219	225	176	190	166	180	127	111	85	3270
Benton	905	979	1060	986	645	745	844	946	986	958	807	671	547	404	456	402	224	159	12724
Black Hawk	3657	4072	4534	4966	5029	3025	3252	4446	4749	4315	3432	2666	2301	2087	1838	1475	876	588	57308
Boone	807	868	951	930	649	711	842	1067	1106	922	850	700	614	421	420	336	277	192	12663
Bremer	627	749	891	1072	930	544	587	773	948	973	797	546	460	383	384	362	246	179	11451
Buchanan	754	900	949	924	507	539	626	767	847	734	687	481	414	357	355	283	188	117	10429
Buena Vista	642	686	685	837	807	554	583	693	638	546	462	409	451	381	374	327	209	172	9456
Butler	442	555	622	627	331	340	422	570	630	592	430	380	358	332	342	307	202	143	7625
Calhoun	316	370	439	404	281	331	349	465	396	374	352	294	281	242	262	183	144	117	5600
Carroll	784	892	916	801	498	554	687	762	711	681	590	501	460	412	420	335	218	187	10409
Cass	443	499	547	511	262	365	416	492	545	493	475	353	352	278	281	282	207	148	6949
Cedar	526	652	702	652	400	459	580	683	783	684	572	450	396	329	368	287	185	147	8855
Cerro Gordo	1452	1543	1583	1670	1202	1305	1394	1728	1681	1418	1332	1031	1069	946	853	666	418	331	21622
Cherokee	399	469	485	463	244	307	376	477	482	444	358	365	348	294	257	224	170	123	6285
Chickasaw	425	530	564	590	279	315	432	490	493	512	438	336	303	262	255	220	132	113	6689
Clarke	246	292	307	296	187	206	257	294	317	277	269	207	196	146	125	153	110	71	3956
Clay	551	590	751	592	389	433	530	664	650	599	476	396	407	339	322	254	167	137	8247
Clayton	566	692	754	736	412	483	568	694	640	685	547	496	457	364	358	333	220	174	9179
Clinton	1584	1690	1880	1939	1298	1381	1454	1800	1990	1857	1558	1189	1063	927	860	709	432	282	23893
Crawford	514	521	637	772	378	446	507	542	626	628	508	428	381	305	319	254	162	124	8052
Dallas	1316	1545	1648	1479	897	1074	1261	1543	1822	1563	1207	938	742	490	504	402	263	182	18876
Davis	294	294	362	343	207	233	247	290	321	298	284	223	191	131	159	126	112	67	4182
Decatur	244	235	268	448	386	175	203	268	257	286	211	203	183	147	170	147	115	103	4049
Delaware	663	790	803	719	479	505	614	665	650	620	581	471	394	351	313	221	145	121	9105
Des Moines	1219	1440	1578	1609	1105	1131	1185	1567	1791	1685	1272	972	881	815	678	558	353	258	20097
Dickinson	401	481	579	579	316	375	425	626	636	616	492	462	429	413	406	313	169	135	7853
Dubuque	2840	3068	3477	3913	3129	2521	2638	3182	3372	3121	2699	2006	1756	1526	1349	1040	640	448	42725
Emmet	286	366	434	514	283	227	260	366	400	338	307	239	260	233	211	177	129	103	5133
Fayette	682	715	819	937	625	544	608	777	772	721	679	555	513	421	406	347	261	173	10555

Table 18. Estimated Age of Males in Iowa's Counties, 1999 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Floyd	474	547	581	605	384	375	392	554	600	651	544	382	394	321	353	289	175	142	7763
Franklin	318	395	409	373	217	257	315	411	406	396	325	265	284	215	202	216	129	96	5229
Fremont	226	257	297	283	154	172	188	267	309	277	231	204	186	155	171	140	86	71	3674
Greene	291	343	362	345	204	238	259	340	371	329	325	243	276	211	209	222	158	89	4815
Grundy	368	391	473	429	239	268	346	448	479	499	427	311	292	234	279	242	126	82	5933
Guthrie	314	400	421	378	229	274	290	413	428	459	403	336	322	247	246	201	131	105	5597
Hamilton	475	522	595	591	360	444	497	568	646	525	494	390	434	311	344	264	156	114	7730
Hancock	385	489	484	475	238	310	381	453	452	409	377	284	271	223	225	202	144	99	5901
Hardin	483	589	683	889	415	391	521	625	641	595	520	464	425	391	396	351	257	182	8818
Harrison	533	532	642	564	342	392	456	503	556	556	464	406	355	268	268	225	176	140	7378
Henry	598	693	725	823	815	719	687	833	886	808	626	445	380	303	301	272	181	174	10269
Howard	297	325	405	344	208	260	279	330	308	319	295	231	262	193	212	178	129	113	4688
Humboldt	325	358	367	350	209	231	310	369	359	389	267	288	267	232	249	158	149	107	4984
Ida	268	309	310	302	143	184	237	277	284	264	201	184	198	188	170	142	98	86	3845
Iowa	511	526	564	543	380	458	515	589	617	548	493	425	370	288	310	240	135	119	7631
Jackson	659	753	839	830	498	552	581	711	704	750	633	541	449	390	370	326	197	155	9938
Jasper	1023	1182	1377	1444	1121	1204	1237	1428	1583	1432	1134	937	900	663	655	549	339	206	18414
Jefferson	483	563	588	612	393	410	557	939	1049	660	436	348	312	210	214	195	147	107	8223
Johnson	3216	2863	2706	4917	9109	4949	4172	4265	4051	3120	2178	1595	1237	1003	876	678	441	305	51681
Jones	601	642	771	846	722	720	718	838	875	734	649	498	429	334	383	321	188	129	10398
Keokuk	351	427	451	408	237	300	352	395	387	389	339	289	287	224	221	214	153	118	5542
Kossuth	551	686	727	652	328	440	532	624	658	550	582	505	411	341	364	306	192	163	8612
Lee	1179	1312	1507	1394	1035	1163	1277	1538	1635	1483	1202	944	840	691	647	534	324	229	18934
Linn	6075	6090	6595	7417	6291	6140	6203	7333	7966	7039	5712	4426	3406	2868	2462	1912	1223	829	89987
Louisa	403	433	490	496	395	362	417	431	477	456	373	280	253	200	189	157	122	90	6024
Lucas	267	286	322	354	189	212	227	307	322	342	307	244	236	200	181	178	114	86	4374
Lyon	447	510	526	497	242	303	330	416	416	362	301	341	288	242	246	192	139	106	5904
Madison	444	548	571	641	313	320	428	577	589	555	463	345	308	216	206	184	136	102	6946
Mahaska	751	777	854	831	699	628	678	824	850	747	620	472	495	418	395	308	228	162	10737
Marion	1018	1112	1224	1365	1066	857	920	1163	1216	1190	950	765	669	570	553	442	343	233	15656
Marshall	1164	1304	1409	1477	993	1012	1114	1474	1648	1557	1243	943	901	770	709	637	370	342	19067
Mills	461	546	670	634	322	394	467	602	706	602	489	356	310	200	187	170	108	80	7304
Mitchell	335	385	415	428	229	275	304	378	383	388	319	304	287	237	232	222	159	120	5400

Table 1B. Estimated Age of Males in Iowa's Counties, 1999 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Monona	280	354	320	358	170	236	250	353	351	357	342	274	248	221	226	213	145	125	4823
Monroe	235	275	320	287	195	194	234	262	287	305	235	228	181	165	165	141	87	84	3880
Montgomery	339	405	427	425	246	285	323	409	465	407	313	316	275	206	202	224	166	140	5573
Muscatine	1498	1577	1656	1678	1255	1313	1408	1600	1715	1471	1224	863	751	618	614	470	297	269	20277
O'Brien	443	528	578	566	351	340	441	509	487	421	420	371	349	300	323	286	193	141	7047
Osceola	221	241	278	275	161	175	228	231	228	246	184	183	184	137	117	118	86	80	3373
Page	446	502	635	731	616	574	554	730	717	606	523	424	374	349	334	295	203	159	8772
Palo Alto	280	335	417	471	212	221	285	316	319	318	258	278	264	206	199	176	135	119	4809
Plymouth	828	1046	1107	1008	650	598	743	880	928	880	675	626	606	423	421	366	234	190	12209
Pocahontas	293	310	344	300	130	211	256	287	300	317	292	228	233	207	187	155	117	97	4264
Polk	13151	12398	12340	13059	12923	13653	13116	14817	15221	13515	10319	7910	6534	4854	4299	3217	1961	1238	174525
Pottawattamie	3016	3087	3273	3498	2382	2624	2739	3155	3278	3088	2574	2141	1921	1464	1336	987	637	420	41620
Poweshiek	533	620	633	906	714	446	525	637	679	617	546	455	389	346	356	285	185	144	9016
Ringgold	147	185	174	170	93	111	142	153	190	175	163	187	149	128	122	124	78	68	2559
Sac	397	444	468	400	230	273	347	404	401	374	345	320	304	260	249	230	159	151	5756
Scott	5763	5914	6408	6190	5158	4916	5293	6437	6844	6083	4647	3540	2772	2389	2058	1518	923	620	77473
Shelby	412	471	501	465	262	309	367	433	450	433	398	331	328	276	286	243	162	138	6265
Sioux	1115	1252	1344	1547	1342	726	865	1073	1018	930	828	685	593	519	539	397	263	235	15271
Story	2236	2085	2051	4443	8372	2990	2375	2617	2467	2173	1657	1291	998	867	798	675	472	306	38873
Tama	569	598	689	637	408	446	499	599	625	642	620	432	458	342	376	343	187	184	8654
Taylor	184	263	263	249	136	133	185	252	260	230	209	185	186	142	158	139	97	87	3358
Union	355	433	477	534	341	295	350	429	538	436	386	288	267	220	227	184	128	100	5988
Van Buren	255	295	305	309	188	193	207	272	291	274	258	214	196	151	162	158	104	78	3910
Wapello	1036	1125	1262	1434	1020	892	985	1319	1341	1279	1006	931	829	670	682	586	377	255	17029
Warren	1348	1500	1662	1910	1276	1063	1171	1593	1812	1693	1356	950	682	550	498	385	255	169	19873
Washington	722	738	855	757	524	619	668	798	819	745	612	507	444	344	376	325	224	185	10262
Wayne	190	184	233	219	112	143	175	217	213	229	184	183	182	164	167	156	94	96	3141
Webster	1280	1365	1375	1522	1131	1063	1150	1372	1449	1326	1113	981	922	761	635	550	423	293	18711
Winnebago	369	430	410	550	302	293	345	469	451	406	333	275	261	211	233	206	169	114	5827
Winneshiek	629	662	697	1062	1099	545	637	695	683	638	565	480	438	373	382	299	206	148	10238
Woodbury	3842	3867	4182	4171	3207	3266	3265	3952	3894	3311	2652	2229	2060	1580	1448	1120	723	586	49355
Worth	226	257	297	272	170	197	222	277	271	273	274	195	190	146	137	143	86	99	3732
Wright	426	422	484	462	299	313	395	516	493	473	430	343	365	285	334	270	184	151	6645
State of Iowa	93355	99283	106829	115499	97568	85853	90416	108490	113253	102611	83965	66986	59062	48164	45738	37482	24530	18124	1397208

Table 2A. Age of Females in Iowa's Counties, 1990.

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Adair	282	295	302	242	168	256	311	231	223	222	227	206	214	258	266	264	193	205	4365
Adams	151	157	158	145	90	149	172	139	154	146	132	140	131	172	142	120	93	87	2478
Allamakee	489	555	540	411	288	441	508	465	390	356	323	334	359	391	354	334	250	290	7078
Appanoose	458	464	502	453	342	441	483	449	429	364	335	358	384	415	423	358	257	285	7200
Audubon	252	275	256	204	126	207	241	219	212	189	196	207	235	223	233	208	158	176	3817
Benton	787	878	891	679	590	827	890	787	713	612	514	523	565	552	522	466	330	304	11430
Black Hawk	4032	4406	4458	5158	6305	4206	5061	4909	4300	3221	2933	2679	3002	2844	2515	1976	1470	1413	64888
Boone	837	915	879	729	670	918	1022	1032	817	693	610	598	641	652	595	546	431	575	13160
Bremer	684	842	819	945	844	678	787	792	791	666	590	525	486	577	532	426	365	382	11731
Buchanan	820	903	939	701	497	720	791	724	670	525	500	445	492	508	494	404	238	254	10625
Buena Vista	679	726	745	750	730	652	758	716	548	423	418	447	563	549	481	430	297	363	10275
Butler	480	572	611	487	311	447	593	550	478	394	386	403	440	487	441	356	321	309	8066
Calhoun	346	445	406	315	177	303	411	393	319	297	297	304	323	406	382	361	260	284	6029
Carroll	828	889	954	665	512	671	857	746	554	523	464	495	597	577	548	448	333	404	11065
Cass	462	593	537	443	312	471	551	521	464	398	404	397	416	439	466	422	323	301	7920
Cedar	553	689	730	531	400	613	671	701	570	508	406	407	460	417	406	346	248	249	8905
Cerro Gordo	1524	1628	1543	1655	1382	1810	2012	1817	1542	1190	1179	1175	1273	1288	1119	981	728	776	24622
Cherokee	460	519	593	497	262	437	499	532	416	365	368	403	388	373	366	327	239	251	7295
Chickasaw	446	528	528	424	258	411	535	460	389	364	355	276	344	353	309	283	230	214	6707
Clarke	287	320	297	274	189	285	291	343	243	217	226	183	254	201	201	207	141	169	4328
Clay	632	703	685	579	449	605	749	720	571	445	415	443	467	476	402	335	229	301	9206
Clayton	674	774	750	610	434	628	692	652	554	474	469	476	512	486	492	403	312	292	9684
Clinton	1754	1944	1962	1743	1390	1849	2094	1875	1749	1418	1333	1170	1355	1285	1257	958	706	724	26566
Crawford	598	640	662	643	383	531	612	548	531	472	386	393	430	446	407	357	243	297	8579
Dallas	1031	1197	1140	907	705	1137	1306	1213	1127	818	729	625	648	669	604	539	404	427	15226
Davis	278	310	319	283	204	253	300	296	226	222	226	198	210	207	190	212	138	178	4250
Decatur	242	287	275	389	338	245	272	229	224	204	187	192	236	216	248	177	167	181	4309
Delaware	685	860	782	609	427	681	745	592	501	444	434	406	435	423	366	279	260	242	9171
Des Moines	1447	1592	1528	1325	1240	1576	1596	1664	1549	1248	1033	1039	1133	1155	934	823	686	690	22258
Dickinson	420	513	544	399	281	435	517	620	505	410	381	440	494	481	454	370	244	253	7761
Dubuque	2925	3379	3242	3329	3062	3169	3476	3394	2816	2326	2009	1927	2012	1982	1673	1509	1215	1206	44651
Emmet	344	418	448	474	279	333	420	411	340	269	266	284	354	339	294	275	216	210	5974
Fayette	731	876	796	688	542	686	790	742	625	575	543	564	546	639	584	524	384	388	11223

Table 2A. Age of Females in Iowa's Counties, 1990 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Floyd	555	605	682	568	427	520	566	597	535	500	459	409	507	475	515	417	276	333	8946
Franklin	368	423	405	326	240	335	412	386	378	292	291	300	333	354	309	261	220	235	5868
Fremont	245	316	338	281	159	235	279	300	254	224	185	219	242	282	222	230	175	153	4339
Greene	302	370	354	277	203	298	349	368	287	238	259	277	306	311	319	310	211	231	5270
Grundy	380	431	453	352	236	357	441	430	403	328	344	310	345	340	374	304	218	215	6261
Guthrie	302	432	395	326	229	298	362	364	366	272	306	314	368	343	317	269	201	226	5690
Hamilton	526	576	578	502	352	528	602	584	512	433	441	439	442	457	420	319	284	282	8277
Hancock	462	511	502	405	268	437	493	463	383	287	298	309	311	340	317	282	219	210	6497
Hardin	558	680	624	659	409	561	681	653	577	481	476	480	557	582	549	506	367	452	9852
Harrison	464	578	525	515	328	502	558	476	447	404	351	376	382	425	379	358	266	301	7635
Henry	650	678	677	657	561	629	735	698	672	498	418	408	425	435	485	365	313	328	9632
Howard	337	385	390	277	194	320	330	285	273	255	221	256	280	265	271	273	216	214	5042
Humboldt	330	411	392	329	188	310	414	348	321	274	290	305	320	342	322	307	170	174	5547
Ida	302	343	303	245	152	265	309	272	247	201	171	220	258	260	217	204	161	183	4313
Iowa	536	566	520	373	326	539	587	509	438	369	390	366	387	391	378	359	233	295	7562
Jackson	692	743	780	678	515	663	755	696	587	583	472	541	509	492	458	399	316	287	10166
Jasper	1131	1225	1254	1070	908	1243	1353	1320	1198	974	947	905	991	877	779	645	513	472	17805
Jefferson	550	623	520	448	369	549	624	879	790	507	345	352	337	353	347	284	259	217	8353
Johnson	3021	2879	2385	4528	8624	5187	4322	3902	3038	2068	1582	1363	1311	1126	999	813	681	689	48518
Jones	623	703	736	584	460	639	688	668	583	512	439	445	474	474	423	380	246	307	9384
Keokuk	362	468	392	371	232	397	420	370	325	285	293	331	301	345	316	297	236	243	5984
Kossuth	647	767	710	595	352	570	674	623	524	469	519	490	513	528	473	418	326	361	9559
Lee	1250	1384	1400	1232	1057	1355	1436	1441	1270	1109	904	898	1037	1122	917	757	625	565	19759
Linn	5833	5870	5580	6183	6678	7238	7327	6892	6291	4896	4282	3737	3611	3434	2874	2465	1779	1824	86794
Louisa	373	411	471	394	301	403	435	469	371	314	282	266	273	259	209	195	159	173	5758
Lucas	275	311	339	272	207	272	335	322	263	270	224	258	270	248	260	246	178	195	4745
Lyon	453	465	541	400	285	346	410	424	335	237	300	337	299	310	293	251	205	216	6107
Madison	409	454	523	419	266	387	490	485	403	337	309	294	273	317	292	281	194	265	6398
Mahaska	742	758	785	733	697	769	804	797	635	544	473	491	553	607	532	463	310	351	11044
Marion	927	1088	1068	1168	1164	981	1121	1091	930	743	704	651	699	701	612	584	435	416	15083
Marshall	1214	1368	1320	1241	1063	1281	1503	1511	1356	1137	927	895	980	960	916	727	560	612	19571
Mills	390	466	526	485	321	435	554	600	525	361	321	276	311	263	280	234	163	146	6657
Mitchell	348	412	381	360	225	321	372	334	289	277	284	285	312	330	310	264	212	302	5618

Table 2A. Age of Females in Iowa's Counties, 1990 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Monona	293	337	382	291	186	301	330	319	253	275	258	264	331	333	308	295	250	249	5255
Monroe	248	299	292	258	193	258	296	277	257	195	198	210	238	248	231	190	146	177	4211
Montgomery	358	430	426	399	255	411	423	435	390	312	275	318	330	361	371	320	292	281	6387
Muscatine	1413	1554	1593	1378	1245	1632	1639	1549	1390	1123	957	828	872	851	756	629	479	504	20392
O'Brien	503	586	614	463	294	466	581	560	394	368	373	389	478	477	409	367	323	366	8011
Osceola	271	292	261	242	153	218	277	247	190	174	176	202	187	198	196	165	120	171	3740
Page	487	599	648	512	311	509	618	595	497	447	381	453	489	515	470	452	334	380	8697
Palo Alto	336	436	403	350	206	271	377	336	279	246	287	323	327	279	311	289	207	250	5513
Plymouth	875	924	954	843	594	744	879	864	677	589	523	581	577	537	523	456	356	404	11900
Pocahontas	304	365	342	250	151	275	332	318	264	268	256	242	295	287	311	243	191	220	4914
Polk	12080	11564	10452	11098	13897	16135	15381	13868	12301	9341	7638	7018	6893	6588	5533	4627	3399	3434	171247
Pottawattamie	3049	3212	3019	2830	2669	3420	3497	3151	2784	2321	2092	2126	2111	1936	1605	1267	917	907	42913
Poweshiek	572	648	678	858	696	627	700	688	578	536	471	437	469	469	439	369	309	331	9875
Ringgold	127	200	185	163	96	144	176	172	166	132	154	171	156	189	191	160	128	132	2842
Sac	376	461	474	358	220	348	434	409	361	254	298	318	379	402	356	331	241	288	6308
Scott	5745	6008	5772	5289	5430	6289	6786	6310	5581	4289	3652	3161	3122	3109	2461	2008	1541	1334	77887
Shelby	416	509	502	449	254	431	437	464	369	310	327	345	361	376	383	319	238	279	6769
Sioux	1110	1339	1309	1392	1185	904	1083	1032	770	723	619	607	704	683	623	538	406	378	15405
Story	2067	2066	1905	3609	6500	2927	2719	2488	1994	1554	1287	1155	1178	1092	992	869	674	753	35829
Tama	545	636	679	565	435	543	613	577	522	465	457	476	462	474	459	421	300	354	8983
Taylor	217	245	272	248	131	185	238	230	207	175	166	194	205	248	221	203	191	171	3747
Union	404	446	502	502	325	450	452	470	423	332	302	318	308	360	324	301	267	275	6761
Van Buren	268	287	253	193	179	242	273	259	221	189	230	197	194	242	209	194	139	126	3895
Wapello	1172	1080	1209	1203	999	1221	1365	1342	1199	967	840	982	1020	1048	931	836	655	579	18648
Warren	1259	1421	1449	1432	1237	1331	1507	1525	1421	1177	892	809	618	678	508	495	321	408	18488
Washington	720	718	722	589	495	701	763	704	605	525	435	457	488	549	488	413	378	421	10171
Wayne	224	242	248	187	149	224	218	214	195	171	172	184	229	246	247	214	156	213	3733
Webster	1454	1476	1431	1345	1164	1440	1586	1457	1286	1011	958	1043	1096	1085	1009	835	640	765	21081
Winnebago	390	439	441	516	286	368	454	447	354	309	258	276	313	302	299	295	269	237	6253
Winneshiek	705	727	721	1053	1083	647	763	640	567	488	457	445	475	454	450	340	296	332	10643
Woodbury	3572	3945	3833	3564	3302	3739	3978	3792	3246	2389	2107	2190	2449	2380	2123	1709	1318	1355	50991
Worth	241	269	280	239	174	253	279	303	226	212	200	190	239	242	207	228	151	177	4110
Wright	473	485	509	411	300	463	502	486	452	347	343	372	439	482	435	362	282	335	7478
State of Iowa	94449	102037	99430	98018	96977	104358	111710	105567	91765	73891	65820	63746	66948	66554	59763	51231	38950	40739	1431953

Table 2B. Age of Males in Iowa's Counties, 1990.

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Adair	272	297	345	244	193	242	310	288	244	190	198	204	222	203	215	177	121	79	4044
Adams	192	166	158	166	90	158	177	156	154	123	128	134	143	121	109	94	63	56	2388
Allamakee	502	551	542	505	325	433	535	524	409	364	323	327	359	366	287	204	125	96	6777
Appanoose	414	501	539	497	329	441	487	449	408	358	307	260	345	357	306	265	181	99	6543
Audubon	255	270	265	225	155	183	251	256	199	177	205	161	217	212	192	125	97	72	3517
Benton	865	933	923	762	574	799	934	845	700	594	524	521	476	477	429	337	177	129	10999
Black Hawk	4213	4712	4720	4812	5733	3910	4250	4724	4118	3275	2750	2490	2526	2420	1780	1279	726	472	58910
Boone	827	923	897	782	645	854	1021	1037	903	628	606	572	599	543	446	332	254	157	12026
Bremer	694	827	898	958	919	678	761	796	776	696	601	489	465	463	380	323	212	146	11082
Buchanan	796	973	981	798	535	681	787	763	689	524	519	412	415	443	370	265	168	100	10219
Buena Vista	737	806	720	729	828	695	771	746	555	400	365	386	497	450	381	292	189	143	9690
Butler	502	635	644	571	355	436	555	597	535	437	339	351	391	410	333	278	179	117	7665
Calhoun	347	425	469	341	220	334	398	463	327	264	284	267	302	320	293	188	130	107	5479
Carroll	861	1012	911	722	539	697	880	773	602	499	447	451	465	470	408	292	186	143	10358
Cass	500	596	574	489	286	485	563	533	478	385	374	336	391	350	300	267	185	116	7208
Cedar	550	697	712	562	400	558	723	690	624	486	429	384	394	393	356	259	144	115	8476
Cerro Gordo	1650	1776	1694	1566	1327	1707	1834	1816	1462	1080	1068	956	1181	1034	802	580	322	256	22111
Cherokee	470	591	542	453	289	431	530	545	459	363	299	364	412	354	264	200	142	95	6803
Chickasaw	451	589	569	520	287	403	562	487	411	362	347	302	319	309	260	205	112	93	6588
Clarke	277	329	313	261	195	265	340	294	278	194	204	190	199	185	134	142	98	61	3959
Clay	613	703	789	555	406	577	708	694	566	446	371	369	424	385	311	219	133	110	8379
Clayton	658	797	774	668	451	628	752	739	535	519	435	460	488	444	372	314	192	144	9370
Clinton	1831	1954	1970	1788	1424	1786	1954	1886	1724	1419	1245	1105	1167	1112	874	641	366	228	24474
Crawford	581	617	664	720	414	589	651	579	534	472	409	388	410	379	322	228	138	101	8196
Dallas	1079	1327	1258	1024	726	1011	1245	1196	1162	871	718	621	584	548	467	347	210	135	14529
Davis	326	313	349	295	209	281	306	282	265	216	201	193	193	166	175	125	109	58	4062
Decatur	265	280	259	409	364	224	268	286	207	202	169	184	191	195	183	151	103	89	4029
Delaware	730	861	799	637	491	629	773	658	531	441	434	408	387	388	302	183	121	91	8864
Des Moines	1351	1689	1629	1519	1210	1459	1553	1639	1550	1260	1003	916	942	947	680	506	294	209	20356
Dickinson	397	489	567	488	299	439	520	595	501	412	351	389	406	445	363	259	128	100	7148
Dubuque	3092	3402	3548	3480	3257	3136	3355	3213	2803	2253	2050	1787	1820	1642	1229	854	494	337	41752
Emmet	366	470	480	514	353	318	379	422	360	278	267	242	297	279	214	164	108	84	5595
Fayette	760	820	849	803	647	700	793	822	659	535	512	519	537	523	434	333	222	152	10620

Table 28. Age of Males in Iowa's Counties, 1990 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Floyd	564	658	629	573	428	500	546	604	529	504	445	371	428	410	371	277	157	118	8112
Franklin	363	469	441	365	236	343	432	447	357	306	262	256	320	269	221	209	119	81	5496
Fremont	271	294	329	269	165	224	262	289	283	203	186	200	199	218	199	146	87	63	3887
Greene	334	377	360	314	211	304	334	349	312	231	254	223	292	257	207	210	131	75	4775
Grundy	395	430	483	376	238	343	434	446	403	365	326	272	298	286	280	219	111	63	5768
Guthrie	328	415	398	330	228	326	361	391	329	314	283	281	321	293	259	186	118	84	5245
Hamilton	536	581	608	537	393	564	654	583	546	386	388	352	459	380	357	242	129	99	7794
Hancock	451	568	508	431	280	409	510	494	391	328	286	275	290	284	230	190	128	88	6141
Hardin	561	701	720	914	465	514	733	682	553	459	435	442	470	491	408	327	215	152	9242
Harrison	561	565	625	478	345	464	559	492	442	387	344	342	352	352	289	217	156	125	7095
Henry	626	747	688	693	765	806	804	751	716	544	452	366	381	374	316	258	159	148	9594
Howard	337	372	401	303	223	331	367	339	248	240	233	211	278	239	243	181	120	101	4767
Humboldt	376	410	398	320	234	305	416	402	305	301	215	279	300	293	273	153	136	93	5209
Ida	324	355	337	295	163	251	317	304	252	205	172	179	227	210	176	130	87	68	4052
Iowa	514	536	526	465	364	516	618	549	474	360	334	354	357	355	304	226	122	94	7068
Jackson	732	845	846	742	532	681	760	722	594	526	489	483	472	447	356	274	162	121	9784
Jasper	1111	1299	1380	1251	940	1215	1431	1332	1220	979	836	812	924	736	620	462	280	162	16990
Jefferson	512	621	567	540	414	500	663	929	864	460	333	295	318	276	239	195	139	92	7957
Johnson	3136	2928	2477	4230	9006	5423	4598	3861	3089	2050	1498	1311	1164	1023	755	512	326	214	47601
Jones	643	698	769	711	805	902	872	831	706	520	473	420	439	371	364	280	154	102	10060
Keokuk	391	497	449	377	247	385	452	418	327	285	267	262	310	291	229	217	143	93	5640
Kossuth	651	798	793	607	362	592	748	665	562	427	468	483	456	438	380	293	171	138	9032
Lee	1311	1494	1562	1239	1092	1442	1583	1561	1388	1073	931	860	898	832	672	509	291	190	18928
Linn	6097	6254	6135	6108	6224	7099	7340	6851	6108	4693	4037	3656	3252	2987	2134	1508	892	598	81973
Louisa	430	473	473	424	409	431	506	425	403	314	281	254	264	238	187	138	114	70	5834
Lucas	295	326	328	323	201	267	292	312	274	252	240	219	245	247	187	154	95	68	4325
Lyon	494	570	540	437	260	375	432	437	332	267	230	307	290	273	235	174	107	85	5845
Madison	423	526	510	510	287	346	454	511	427	343	306	269	272	283	224	169	131	94	6085
Mahaska	796	844	825	747	743	761	833	821	673	536	453	412	494	509	408	293	196	134	10478
Marion	1047	1167	1155	1218	1121	1048	1091	1157	957	831	696	664	672	678	554	406	271	185	14918
Marshall	1284	1425	1400	1307	1063	1262	1399	1492	1342	1131	928	834	931	961	749	603	323	271	18705
Mills	447	535	609	491	328	454	545	546	546	394	340	291	293	239	186	151	88	62	6545
Mitchell	365	436	416	375	251	341	391	379	314	274	250	261	292	287	237	200	136	105	5310



Table 2B. Age of Males in Iowa's Counties, 1990 (continued).

County	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
Monona	311	403	318	328	173	276	331	384	279	257	253	247	273	275	234	202	133	102	4779
Monroe	267	306	315	264	205	256	293	274	251	215	180	205	192	212	182	132	77	77	3903
Montgomery	372	466	438	387	262	376	419	422	404	299	237	303	292	277	223	223	166	123	5689
Muscatine	1529	1686	1593	1496	1237	1540	1691	1546	1455	1068	957	796	803	689	586	403	238	202	19515
O'Brien	523	642	619	526	399	462	606	564	431	318	344	366	386	375	323	265	173	111	7433
Osceola	264	268	309	244	187	228	312	253	199	177	150	173	207	178	120	111	80	67	3527
Page	512	584	669	620	462	523	578	664	559	448	388	386	397	446	338	284	181	134	8173
Palo Alto	344	410	451	461	244	310	398	349	288	248	225	276	299	265	202	174	117	95	5156
Plymouth	842	1121	1022	911	713	701	897	831	727	587	492	519	585	482	401	321	190	146	11488
Pocahontas	346	376	362	313	150	297	365	325	276	243	245	227	260	277	202	159	102	86	4611
Polk	12780	12184	11002	10623	12308	15139	14644	13406	11354	8790	7043	6379	6139	5166	3875	2619	1512	930	155893
Pottawattamie	3142	3329	3240	3024	2390	3163	3379	3077	2667	2152	1920	1861	1947	1591	1209	811	496	317	39715
Poweshiek	595	723	651	851	777	570	719	673	597	462	438	416	415	411	338	253	153	116	9158
Ringgold	163	218	191	153	99	141	173	166	166	132	130	165	168	154	121	112	71	55	2578
Sac	460	518	500	369	257	368	472	431	352	287	277	295	343	328	268	222	144	125	6016
Scott	6013	6186	6123	5271	5186	5799	6330	6256	5499	4249	3417	3067	2821	2599	1860	1243	700	473	73092
Shelby	473	556	532	445	283	415	491	469	388	317	323	310	361	332	290	225	136	115	6461
Sioux	1194	1359	1342	1291	1227	895	1076	1076	810	663	605	581	598	573	492	334	206	176	14498
Story	2316	2247	1984	4294	9036	3491	2792	2568	1988	1539	1262	1110	1011	927	731	539	355	233	38423
Tama	594	658	686	580	435	546	632	619	515	470	467	385	473	398	372	304	157	145	8436
Taylor	217	287	272	226	137	170	234	249	214	170	154	157	198	187	181	143	89	82	3367
Union	394	496	468	493	342	370	459	443	432	322	290	264	279	293	249	188	121	86	5989
Van Buren	279	319	304	257	197	230	263	272	229	196	190	188	199	184	172	148	93	61	3781
Wapello	1161	1244	1292	1305	1071	1123	1283	1341	1152	936	775	842	888	829	699	556	330	212	17039
Warren	1337	1503	1535	1502	1198	1226	1359	1485	1366	1098	955	796	650	543	408	291	180	113	17545
Washington	729	767	791	631	509	703	774	744	634	489	429	423	426	391	371	289	187	154	9441
Wayne	224	209	250	202	127	188	235	232	179	174	151	182	201	235	200	167	90	88	3334
Webster	1495	1606	1466	1379	1170	1357	1504	1426	1260	997	888	927	1007	972	669	521	366	251	19261
Winnebago	403	485	441	511	315	397	444	485	388	305	249	243	287	253	238	180	151	94	5869
Winneshiek	708	760	727	941	1099	696	828	713	584	466	444	432	465	425	372	252	166	126	10204
Woodbury	3893	4054	4050	3656	3229	3746	3820	3823	3143	2322	1949	1935	2107	1920	1495	1037	623	483	47285
Worth	262	305	308	255	187	255	288	296	235	206	222	183	216	190	155	146	83	89	3881
Wright	482	481	500	426	333	410	541	526	421	348	354	316	390	363	348	264	165	123	6791
State of Iowa	98754	107301	104787	101398	99442	102258	110293	106553	91436	72161	62556	58589	60405	55900	44744	33255	20454	14516	1344802

method. Actually, even the births and deaths are based on estimates, since they normally are reported for calendar years rather than the July through June period covered by the population estimate. Thus, caution is urged in interpreting the estimates. They provide only a preliminary view of change since the 1990 census.

## Counts (1990) and Estimates (1999) of Residents Under the Age of 65 and 65 or Older in Iowa's Counties

Willis Goudy, Iowa State University  
Sandra Charvat Burke, Iowa State University  
Margaret Hanson, Iowa State University  
Liu Qiang, Iowa State University

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As part of the process of estimating the total population of counties between the decennial censuses, the U.S. Bureau of the Census obtains information that allows an estimate of the number of residents 65 years of age or older and those under the age of 65. The estimates for 1 July 1999 were released in 2000. They are included with the 1990 census counts in Table 1. In the state, residents 65 or older increased by 3,182 (or 0.7%) from 1990 to 1999. The gain among residents younger than 65 was 89,400; the rate of increase was 3.8 percent.

Two-thirds (68) of Iowa's 99 counties had fewer residents 65 or older in 1999 than in 1990 (Figure 1) according to bureau estimates. Declines were 100 or more in 43 counties; comparable increases occurred in 18 counties. Decreases of 10 percent or more occurred in Calhoun, Fremont, Montgomery, Taylor, Wayne, and Worth. Gains in this age group of at least 10 percent were estimated for Johnson, Linn, and Warren.

Fifty-four counties had more residents under the age of 65 in 1999 than in 1990. Increases exceeded 1,000 in 21 counties, although only Linn and Polk had gains greater than 10,000. Benton, Dallas, Madison, Mills, Polk, and Warren were estimated to have gains of at least 10 percent. Of the 45 counties with fewer residents under the age of 65 in 1999 than in the 1990 census, only Black Hawk, Cerro Gordo, Cherokee, Clinton, and Webster declined by more than 1,000. A decrease of 10 percent or more occurred only in Adams.

When the two age groups are considered simultaneously, 24 of the counties were estimated to have gains among both those under the age of 65 and those 65 or older while 38 had declines in both. Thirty counties had decreases in the older but increases in the younger age group; the remaining seven noted fewer younger but more older residents in 1999 than in 1990 (Figure 2).

The rates of percentage change differed between the age groups by at least 10 points in 17 counties. In Benton, Dallas, and Mills, both older and younger groups increased, but the gain was at least 10 points higher among those under 65. In Fremont and Wayne, both decreased, but the decline among the younger group was 10 points less negative than that among those 65 or older. In 12 counties, percentage increases occurred among younger residents while declines took place in the older age group and the gaps were greater than 10 percentage points.

Caution is urged in using these population estimates. These figures are subject to error; such errors may be greater in counties with relatively small populations.

**Note:** Figures for the total population are reported in another section of this volume.

Table 1. Estimated Population (1999), Population (1990), and Estimated Change (1990-1999) Among Residents 65 or Older and Younger than 65 in Iowa's Counties.

County	Residents 65 or Older				Residents Younger than 65			
	1 July 1999	1 April 1990	Estimated Change 1990-1999		1 July 1999	1 April 1990	Estimated Change 1990-1999	
			Number	Percent			Number	Percent
Adair	1775	1962	-187	-9.5	6291	6447	-156	-2.4
Adams	995	1062	-67	-6.3	3410	3804	-394	-10.4
Allamakee	2688	2697	-9	-0.3	11380	11158	222	2.0
Appanoose	2673	2943	-270	-9.2	10773	10800	-27	-0.3
Audubon	1601	1693	-92	-5.4	5201	5641	-440	-7.8
Benton	3842	3725	117	3.1	21956	18704	3252	17.4
Black Hawk	16976	16820	156	0.9	102983	106978	-3995	-3.7
Boone	4219	4506	-287	-6.4	22081	20680	1401	6.8
Bremer	3770	3788	-18	-0.5	19670	19025	645	3.4
Buchanan	3065	3240	-175	-5.4	18095	17604	491	2.8
Buena Vista	3482	3569	-87	-2.4	15922	16396	-474	-2.9
Butler	3160	3236	-76	-2.3	12339	12495	-156	-1.2
Calhoun	2446	2729	-283	-10.4	8873	8779	94	1.1
Carroll	3893	3818	75	2.0	17625	17605	20	0.1
Cass	3022	3170	-148	-4.7	11490	11958	-468	-3.9
Cedar	3000	2976	24	0.8	15056	14468	588	4.1
Cerro Gordo	8210	7881	329	4.2	37459	38852	-1393	-3.6
Cherokee	2607	2604	3	0.1	10453	11494	-1041	-9.1
Chickasaw	2328	2382	-54	-2.3	11095	10913	182	1.7
Clarke	1482	1539	-57	-3.7	6791	6748	43	0.6
Clay	2986	2892	94	3.3	14259	14693	-434	-3.0
Clayton	3330	3459	-129	-3.7	15252	15595	-343	-2.2
Clinton	7942	8133	-191	-2.3	41670	42907	-1237	-2.9
Crawford	2822	2923	-101	-3.5	13605	13852	-247	-1.8
Dallas	4553	4340	213	4.9	33657	25415	8242	32.4
Davis	1435	1560	-125	-8.0	7082	6752	330	4.9
Decatur	1564	1706	-142	-8.3	6755	6632	123	1.9
Delaware	2764	2645	119	4.5	15718	15390	328	2.1
Des Moines	6862	6893	-31	-0.4	35093	35721	-628	-1.8
Dickinson	3349	3096	253	8.2	12936	11813	1123	9.5
Dubuque	12940	12095	845	7.0	75172	74308	864	1.2
Emmet	2140	2180	-40	-1.8	8498	9389	-891	-9.5
Fayette	3933	4179	-246	-5.9	17633	17664	-31	-0.2
Floyd	3138	3328	-190	-5.7	13118	13730	-612	-4.5
Franklin	2109	2283	-174	-7.6	8672	9081	-409	-4.5
Fremont	1511	1774	-263	-14.8	6195	6452	-257	-4.0
Greene	2208	2258	-50	-2.2	7812	7787	25	0.3
Grundy	2373	2423	-50	-2.1	9911	9606	305	3.2
Guthrie	2221	2305	-84	-3.6	9370	8630	740	8.6
Hamilton	2867	2956	-89	-3.0	13038	13115	-77	-0.6
Hancock	2158	2282	-124	-5.4	9879	10356	-477	-4.6
Hardin	3914	4032	-118	-2.9	14245	15062	-817	-5.4
Harrison	2652	2842	-190	-6.7	12564	11888	676	5.7
Henry	3029	3184	-155	-4.9	17110	16042	1068	6.7
Howard	1930	2130	-200	-9.4	7644	7679	-35	-0.5
Humboldt	2079	2261	-182	-8.0	8145	8495	-350	-4.1
Ida	1678	1701	-23	-1.4	6252	6664	-412	-6.2
Iowa	2696	2753	-57	-2.1	12971	11877	1094	9.2
Jackson	3398	3297	101	3.1	16759	16653	106	0.6
Jasper	5747	5541	206	3.7	30912	29254	1658	5.7

Table 1. Estimated Population (1999), Population (1990), and Estimated Change (1990-1999) Among Residents 65 or Older and Younger than 65 in Iowa's Counties (continued).

County	Residents 65 or Older				Residents Younger than 65			
	1 July 1999	1 April 1990	Estimated Change 1990-1999		1 July 1999	1 April 1990	Estimated Change 1990-1999	
			Number	Percent			Number	Percent
Jefferson	2187	2397	-210	-8.8	14575	13913	662	4.8
Johnson	8131	7095	1036	14.6	95682	89024	6658	7.5
Jones	3186	3104	82	2.6	16889	16340	549	3.4
Keokuk	2244	2405	-161	-6.7	9096	9219	-123	-1.3
Kossuth	3326	3530	-204	-5.8	14304	15061	-757	-5.0
Lee	6122	6443	-321	-5.0	32187	32244	-57	-0.2
Linn	22894	20455	2439	11.9	161997	148312	13685	9.2
Louisa	1729	1744	-15	-.9	10216	9848	368	3.7
Lucas	1854	1871	-17	-.9	7277	7199	78	1.1
Lyon	2213	2126	87	4.1	9817	9826	-9	-0.1
Madison	2073	2243	-170	-7.6	12032	10240	1792	17.5
Mahaska	3632	3790	-158	-4.2	18322	17742	580	3.3
Marion	4910	4833	77	1.6	26619	25168	1451	5.8
Marshall	6373	6675	-302	-4.5	32409	31601	808	2.6
Mills	1844	1803	41	2.3	12861	11399	1462	12.8
Mitchell	2342	2376	-34	-1.4	8764	8552	212	2.5
Monona	2287	2393	-106	-4.4	7802	7641	161	2.1
Monroe	1552	1672	-120	-7.2	6465	6442	23	0.4
Montgomery	2367	2636	-269	-10.2	9340	9440	-100	-1.1
Muscatine	5553	5315	238	4.5	35642	34592	1050	3.0
O'Brien	3104	3174	-70	-2.2	11517	12270	-753	-6.1
Osceola	1326	1412	-86	-6.1	5588	5855	-267	-4.6
Page	3357	3529	-172	-4.9	13782	13341	441	3.3
Palo Alto	2097	2198	-101	-4.6	7820	8471	-651	-7.7
Plymouth	3937	3838	99	2.6	20882	19550	1332	6.8
Pocahontas	1893	2071	-178	-8.6	6881	7454	-573	-7.7
Polk	40619	37557	3062	8.2	324053	289583	34470	11.9
Pottawattamie	11788	11003	785	7.1	74637	71625	3012	4.2
Poweshiek	3237	3187	50	1.6	15456	15846	-390	-2.5
Ringgold	1288	1319	-31	-2.4	4073	4101	-28	-0.7
Sac	2542	2723	-181	-6.6	9219	9601	-382	-4.0
Scott	18471	17274	1197	6.9	140987	133699	7288	5.5
Shelby	2628	2674	-46	-1.7	10153	10556	-403	-3.8
Sioux	4687	4408	279	6.3	26668	25495	1173	4.6
Story	7808	7160	648	9.1	67565	67092	473	0.7
Tama	3418	3376	42	1.2	14370	14043	327	2.3
Taylor	1504	1715	-211	-12.3	5521	5399	122	2.3
Union	2229	2459	-230	-9.4	10382	10291	91	0.9
Van Buren	1526	1557	-31	-2.0	6347	6119	228	3.7
Wapello	6356	6675	-319	-4.8	29102	29021	81	0.3
Warren	4585	3941	644	16.3	36029	32092	3937	12.3
Washington	3684	3634	50	1.4	17463	15978	1485	9.3
Wayne	1581	1852	-271	-14.6	5000	5215	-215	-4.1
Webster	6702	7093	-391	-5.5	32130	33249	-1119	-3.4
Winnebago	2291	2339	-48	-2.1	9680	9783	-103	-1.1
Winneshiek	3277	3196	81	2.5	17640	17651	-11	-0.1
Woodbury	13706	14429	-723	-5.0	87731	83847	3884	4.6
Worth	1475	1667	-192	-11.5	6182	6324	-142	-2.2
Wright	2993	3151	-158	-5.0	10899	11118	-219	-2.0
State of Iowa	428490	425308	3182	0.7	2440923	2351523	89400	3.8

Figure 1. Estimated change in the number aged 65 or older, 1990–1999.

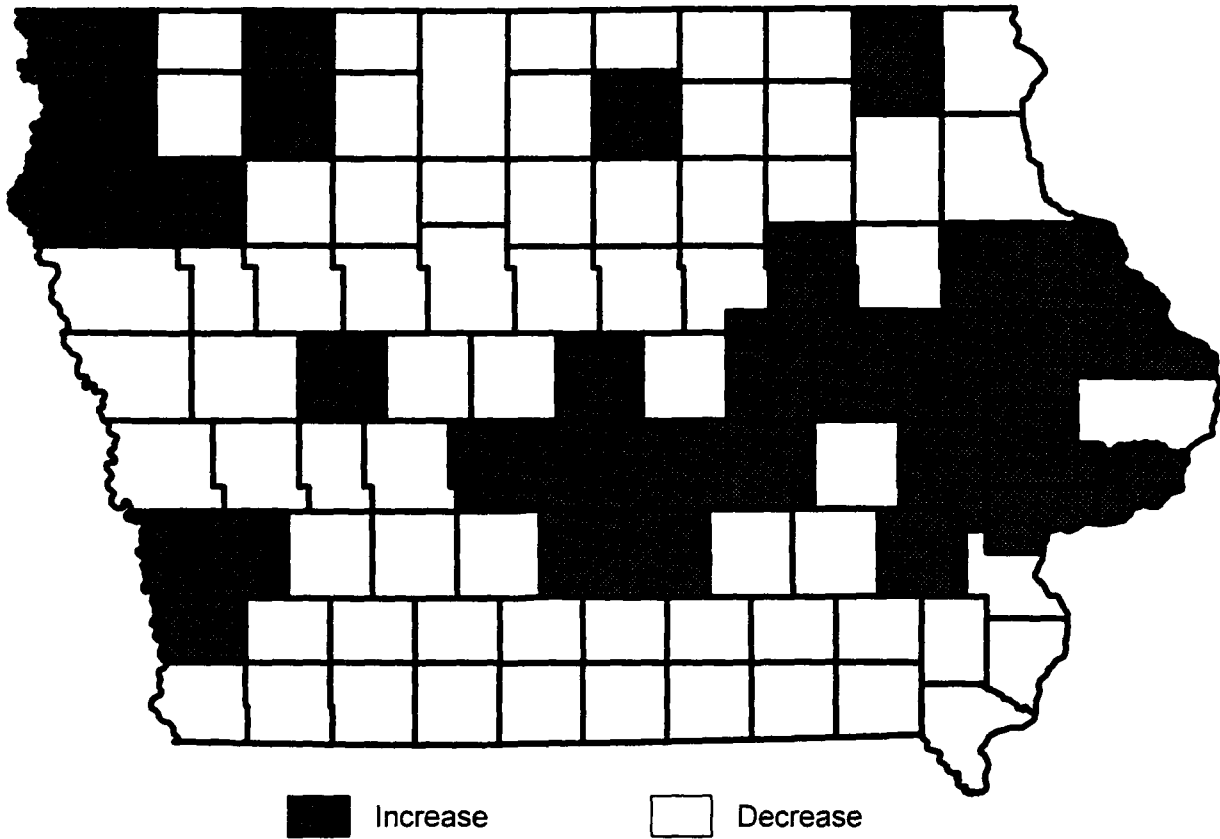
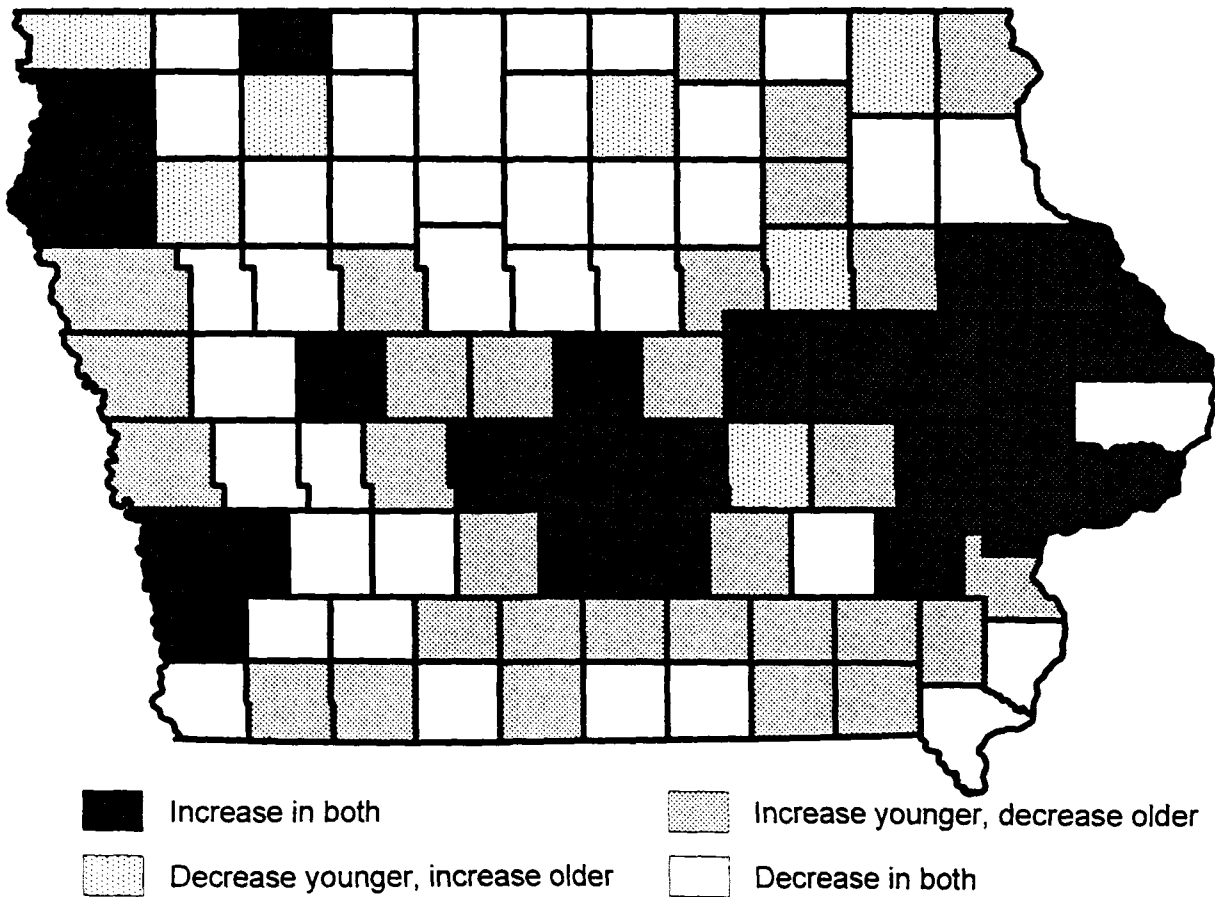


Figure 2. Estimated change in the number aged 65 or older and under 65, 1990–1999.



## Projected Population in Selected Age Categories and Median Age in Iowa's Counties: 2000-2020

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The numbers of Iowans in various age groups are projected to change in coming decades, according to information obtained by the State of Iowa from Woods and Poole Economics, Inc. (1794 Columbia Road, NW; Washington, DC 20009). Economic models drive this set of projections, with employment statistics acting as a key determinant of the figures. Woods and Poole update their projections annually; these were released in 2000 for the 2000-2020 period. For this report, age is divided into three broad categories: 19 or younger, 20-64, and 65 or older. Note that the figures for 2000 are considered projections because census data setting the population for that year for Iowa and its counties will not be available until 2001.

### Potential Changes in the State

Numbers for the state are expected to increase each decade between 1990 and 2020 among those 65 or older (Table 1). Indeed, the gain is predicted to increase across the decades: 6,000 from 1990 to 2000, 33,000 from 2000 to 2010, and 142,000 from 2010 to 2020. Much of the acceleration in growth in this age category will occur because baby-boomers will begin reaching the age of 65 after 2010.

Those 20 through 64 years of age are projected to increase by 107,000 in the 1990s and by 117,000 in the first decade of the 21<sup>st</sup> century but decline by 23,000 from 2010 to 2020. The youngest group—those under the age of 20—is expected to decrease in two of these three decades. From 1990 to 2000, the prediction is that this age group will decrease by 1,500; a decline of 35,000 may take place in the next decade, although a gain of 15,000 is anticipated from 2010 to 2020.

The projection for 2020 suggests that the number of youth will be about 21,000 lower than the count for this group in 1990. Among those in the 20-64 category, growth is anticipated to be about 201,000 between 1990 and 2020. Almost as great a gain could occur among those 65 or older, where the projected increase is 181,000 over that 30-year period.

These numerical changes would result in percentage differences from 1990 to 2020 as well, with the percentage of youth dropping from 29.0 to 25.0, while the percentage of the population 65 or older could increase from 15.3 to 19.4. This will be reflected in a gradual increase in the median age of Iowa residents; the median—that point at which half the residents are older and half are younger—in 1990 was 34.0 (Table 2). It is projected to increase to 37.2 in 2000, 39.7 in 2010, and 40.9 in 2020.

### Potential Changes in Counties

Because change is anticipated to be relatively great among the oldest of the three age groups for the state, it is not surprising that those 65 and older are subject to relatively large changes across counties. Only 11 counties are projected to have declines from 1990 to 2020 in this age category, none of which would decline by as much as 300 (Table 1). Gains in other counties could be substantial; for example, increases of at least 10,000 are predicted for Linn, Polk, and Scott, while another 36 each may gain 1,000 to 9,999 in those 30 years. Gains could exceed 50 percent in 18 counties; in two of these counties—Johnson and Warren—the 1990 numbers of residents 65 or older could double by 2020. Most of the large percentage gains are predicted to occur in urban counties although rural counties will continue to have somewhat greater percentages of older residents throughout the period.

Table 1. Counts (1990) and Projections (2000-2020) of Residents in Selected Age Categories in Iowa's Counties.

County	1990 Census Counts				Woods and Poole 2000 Projections*				Woods and Poole 2010 Projections*				Woods and Poole 2020 Projections*			
	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older
Adair	8409	2279	4149	1981	8030	2080	4240	1710	7860	1720	4370	1770	7740	1700	3860	2180
Adams	4866	1293	2516	1057	4350	1140	2290	910	4280	1080	2330	870	4220	1100	2160	960
Allamakee	13855	4095	7063	2697	13960	3940	7390	2630	13700	3490	7500	2700	13540	3190	6930	3430
Appanoose	13743	3828	6969	2946	13570	3700	7240	2630	13310	3310	7440	2570	13200	3050	6910	3240
Audubon	7334	2002	3636	1696	6730	1740	3390	1590	6410	1480	3350	1580	6130	1530	2940	1660
Benton	22429	6718	11988	3723	25860	7520	14470	3870	27980	7420	16320	4240	30260	7730	16620	5920
Black Hawk	123798	36511	70392	16895	121680	34140	70340	17200	123910	31630	73230	19040	126950	31750	69800	25400
Boone	25186	6789	13866	4531	26300	6890	15090	4320	26490	6360	15690	4430	26850	6250	14920	5680
Bremer	22813	6667	12340	3806	23600	6440	13300	3860	24440	5960	14210	4270	25440	5970	13630	5840
Buchanan	20844	6911	10689	3244	21240	6750	11330	3160	21370	6170	11870	3330	21650	5920	11270	4460
Buena Vista	19965	5892	10498	3575	19450	5490	10470	3480	19240	5010	10770	3470	19160	4850	10270	4030
Butler	15731	4502	7998	3231	15670	4260	8190	3220	15530	3770	8300	3450	15470	3370	7610	4490
Calhoun	11508	3094	5683	2731	11290	2890	5940	2470	10830	2510	5870	2450	10420	2300	5540	2580
Carroll	21423	6842	10772	3809	21880	6650	11270	3960	22670	6250	12070	4350	23630	6150	11780	5690
Cass	15128	4194	7765	3169	14540	3870	7730	2940	14210	3460	7800	2950	13960	3170	7150	3640
Cedar	17444	5024	9424	2933	18030	4960	10010	3060	18240	4500	10320	3430	18550	4090	9820	4640
Cerro Gordo	46733	13036	25811	7886	46130	12180	25720	8240	45670	11090	25950	8630	45520	10830	24180	10510
Cherokee	14098	4125	7362	2611	13150	3610	6950	2590	12880	3220	6880	2780	12620	2920	6150	3550
Chickasaw	13295	4055	6872	2368	13490	3980	7200	2320	13670	3720	7600	2340	13920	3510	7330	3080
Clarke	8287	2358	4390	1539	8430	2300	4580	1550	8700	2070	4900	1740	9040	2140	4600	2300
Clay	17585	5259	9425	2901	17670	4970	9640	3060	18270	4620	10170	3470	18960	4510	9910	4540
Clayton	19054	5705	9898	3451	18650	5350	9970	3340	18250	4720	10160	3370	17990	4440	9400	4150
Clinton	51040	14946	27943	8151	49820	13860	27990	7970	49100	12320	28540	8240	48700	11850	26550	10310
Crawford	16775	5125	8732	2918	16390	4730	8810	2850	15960	4110	8910	2940	15650	3870	8080	3700
Dallas	29755	8963	16442	4350	37940	11150	22160	4630	42930	11590	26030	5320	48240	12540	27710	7990
Davis	8312	2473	4281	1558	8420	2420	4500	1490	8440	2140	4560	1740	8520	2020	4070	2440
Decatur	8338	2406	4222	1710	8170	2130	4450	1590	7940	1630	4690	1620	7740	1630	4140	1970
Delaware	18035	5963	9417	2655	18660	5890	10060	2720	18990	5430	10700	2870	19480	5320	10340	3820
Des Moines	42614	12080	23610	6924	41830	11220	23760	6850	41010	10000	23970	7050	40460	9610	22120	8740
Dickinson	14909	3817	7995	3097	16500	3990	9060	3450	17760	3810	9890	4070	19140	3710	9660	5770
Dubuque	86403	26397	47865	12141	88260	25440	49740	13070	90090	23390	52340	14350	92500	23140	50530	18830
Emmet	11569	3514	5872	2183	10810	3150	5520	2140	10350	2840	5410	2090	10010	2760	5160	2090
Fayette	21843	6323	11337	4183	21630	6020	11700	3910	20840	5190	11760	3890	20180	4790	10590	4800

\*The Woods and Poole Economics county projections were rounded to the nearest 10 in each age category; these rounded numbers were added to get the total, which may differ slightly from those in Table 1 in the previous section. Such differences are created by small rounding errors.



Table 1. Counts (1990) and Projections (2000-2020) of Residents in Selected Age Categories in Iowa's Counties (continued).

County	1990 Census Counts				Woods and Poole 2000 Projections*				Woods and Poole 2010 Projections*				Woods and Poole 2020 Projections*			
	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older
Floyd	17058	4834	8875	3349	16260	4340	8770	3160	15740	3720	8810	3220	15320	3420	7950	3950
Franklin	11364	3160	5926	2278	10810	2950	5820	2040	10470	2730	5750	1990	10190	2560	5230	2400
Fremont	8226	2343	4108	1775	7720	2100	4080	1540	7530	1760	4250	1520	7360	1640	3940	1780
Greene	10045	2688	5095	2262	10000	2630	5160	2210	9590	2430	5010	2150	9310	2350	4880	2090
Grundy	12029	3300	6319	2410	12240	3250	6640	2360	12420	3080	7090	2250	12660	2990	6820	2850
Guthrie	10935	2926	5713	2296	11630	3050	6280	2300	11880	2980	6490	2410	12220	3020	6230	2970
Hamilton	16071	4444	8658	2969	15950	4190	8830	2920	15550	3660	8870	3030	15250	3360	8120	3770
Hancock	12638	3838	6512	2288	12020	3540	6340	2140	11840	3340	6430	2070	11720	3170	6020	2540
Hardin	19094	5417	9628	4049	18370	4900	9550	3920	17830	4240	9580	4000	17420	3920	8660	4840
Harrison	14730	4311	7551	2868	15520	4450	8400	2670	16190	4240	9130	2820	16960	4060	9080	3820
Henry	19226	5416	10629	3181	20240	5430	11710	3100	21300	5170	12860	3270	22490	5210	12910	4380
Howard	9809	2802	4884	2123	9620	2750	4950	1920	9260	2490	4880	1900	8990	2320	4450	2220
Humboldt	10756	2966	5527	2263	10260	2750	5390	2130	9910	2540	5250	2120	9690	2380	4910	2400
Ida	8365	2504	4165	1696	7920	2280	3930	1710	7900	1990	4060	1850	7920	1780	3910	2230
Iowa	14630	4036	7837	2757	15680	4230	8850	2600	16220	4040	9560	2620	16840	3960	9380	3500
Jackson	19950	6058	10580	3312	20050	5750	10930	3380	19850	5080	11210	3560	19780	4780	10410	4600
Jasper	34795	9721	19528	5546	36060	9440	20740	5890	36350	8390	21660	6300	36840	8140	20590	8120
Jefferson	16310	4381	9528	2401	17270	4510	10590	2180	17900	4460	11300	2150	18690	4530	11240	2920
Johnson	96119	25584	63397	7138	105970	27450	70160	8360	121670	30850	80630	10190	138210	36110	87460	14640
Jones	19444	5467	10876	3101	20470	5410	11790	3270	20900	4870	12550	3480	21420	4690	12200	4530
Keokuk	11624	3307	5907	2410	11430	3220	5980	2240	11010	3030	5910	2080	10680	2730	5570	2380
Kossuth	18591	5568	9497	3526	17600	4980	9270	3350	16830	4210	9150	3470	16200	3660	8170	4380
Lee	38687	10872	21335	6480	38390	10290	21970	6130	37710	9120	22320	6270	37280	8700	20680	7900
Linn	168767	48060	100212	20495	186130	50590	112320	23220	202830	50220	125570	27040	220770	54150	128580	38040
Louisa	11592	3449	6401	1742	12030	3530	6780	1720	12440	3480	7170	1800	12960	3460	7330	2170
Lucas	9070	2469	4723	1878	9130	2380	4860	1890	8920	2180	4900	1840	8790	2170	4700	1930
Lyon	11952	3900	5903	2149	12140	3850	6130	2160	12670	3990	6330	2360	13300	4030	6370	2900
Madison	12483	3774	6459	2250	14080	4220	7830	2030	15000	4170	8760	2070	16020	4100	8820	3090
Mahaska	21532	6230	11489	3803	21930	6190	12220	3530	21970	5710	12670	3600	22130	5560	12040	4530
Marion	30001	8838	16321	4842	31660	9050	17670	4940	32880	8580	18970	5330	34340	8660	18540	7140
Marshall	38276	10559	21035	6682	38920	10310	22180	6420	39570	9480	23220	6870	40470	9250	22080	9150
Mills	13202	3949	7441	1812	14610	4340	8450	1820	15160	4200	9080	1880	15830	4240	8980	2620
Mitchell	10928	3093	5452	2383	11060	3080	5620	2360	11260	3120	5650	2490	11520	3080	5510	2940

Table 1. Counts (1990) and Projections (2000-2020) of Residents in Selected Age Categories in Iowa's Counties (continued).

County	1990 Census Counts				Woods and Poole 2000 Projections*				Woods and Poole 2010 Projections*				Woods and Poole 2020 Projections*			
	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older	Total	19 or Younger	20-64	65 or Older
Monona	10034	2663	4990	2381	10110	2600	5160	2340	10030	2410	5300	2320	9970	2390	5030	2550
Monroe	8114	2249	4193	1672	8010	2140	4270	1600	7800	1660	4510	1630	7650	1620	4110	1920
Montgomery	12076	3276	6163	2637	11910	3200	6340	2360	11840	3110	6510	2210	11810	3040	6220	2550
Muscatine	39907	12242	22328	5337	41430	12380	23490	5560	42790	11930	25030	5840	44450	12270	24790	7390
O'Brien	15444	4476	7779	3189	14910	4080	7650	3180	14820	3570	7900	3360	14770	3250	7390	4140
Osceola	7267	2151	3710	1406	6940	1960	3640	1340	6720	1600	3610	1510	6540	1510	3210	1820
Page	16870	4631	8705	3534	17490	4400	9720	3380	18550	3990	10990	3580	19720	3680	11390	4650
Palo Alto	10669	3191	5289	2189	9950	2870	5000	2070	9490	2590	4910	1980	9060	2410	4430	2230
Plymouth	23388	7492	12080	3816	25010	7650	13290	4080	25760	7070	14260	4440	26650	6810	13900	5950
Pocahontas	9525	2658	4789	2078	8690	2380	4410	1900	8170	2190	4050	1920	7700	2080	3710	1900
Polk	327140	91783	197674	37683	368350	100040	227160	41150	409390	104220	257870	47310	453410	116030	270500	66880
Pottawattamie	82628	24845	46727	11056	87050	24900	50010	12140	90980	23850	53640	13490	95440	24480	53090	17870
Poweshiek	19033	5576	10269	3188	18920	5220	10430	3270	19010	4740	10800	3470	19240	4700	10130	4420
Ringgold	5420	1400	2707	1313	5330	1330	2710	1290	5160	1130	2790	1250	5030	1110	2610	1310
Sac	12324	3516	6103	2705	11840	3290	6020	2530	11320	2980	5820	2520	10870	2710	5310	2850
Scott	150973	46407	87244	17328	160280	47270	94370	18650	168150	45640	101530	20980	177250	47400	101000	28840
Shelby	13230	3882	6655	2693	12930	3560	6660	2710	12630	3110	6710	2820	12400	2840	6120	3450
Sioux	29903	10336	15158	4409	31750	10420	16620	4710	33900	10100	18480	5320	36290	10310	18720	7270
Story	74252	20488	46599	7165	75920	20180	47820	7930	78880	20800	49330	8750	82350	22150	48780	11420
Tama	17419	4943	9092	3384	17840	4800	9620	3430	18190	4380	10210	3600	18640	4320	9760	4570
Taylor	7114	1984	3414	1716	7110	1920	3650	1550	6900	1550	3790	1570	6700	1490	3430	1790
Union	12750	3705	6581	2464	12530	3570	6800	2160	12370	3350	7090	1940	12300	3260	6870	2170
Van Buren	7676	2160	3948	1568	7920	2140	4200	1580	8050	1850	4430	1770	8220	1820	4140	2260
Wapello	35696	9666	19346	6675	35270	9180	19800	6290	34230	8050	19960	6220	33420	7600	18230	7590
Warren	36033	11438	20650	3945	41310	12370	24260	4670	46550	12580	28250	5720	52190	13730	29730	8730
Washington	19612	5667	10304	3641	21320	5940	11710	3670	22990	5840	13120	4030	24790	6060	13340	5390
Wayne	7067	1786	3425	1856	6610	1670	3360	1580	6360	1360	3460	1540	6140	1340	3150	1650
Webster	40342	11652	21577	7113	38480	10550	21170	6760	37140	9380	20950	6810	36000	8870	19020	8110
Winnebago	12122	3626	6178	2318	11900	3450	6210	2240	11740	3380	6090	2280	11660	3330	5690	2650
Winneshiek	20847	6342	11292	3213	21020	6100	11680	3240	21350	5740	12170	3440	21810	5850	11630	4340
Woodbury	98276	30567	53266	14443	103250	31300	57920	14030	110720	31020	64270	15430	118970	32220	65960	20790
Worth	7991	2159	4164	1668	7750	2030	4160	1560	7570	1760	4160	1650	7470	1680	3720	2070
Wright	14269	3767	7343	3159	13920	3540	7400	2970	13400	3100	7310	2990	12990	2810	6530	3650
State of Iowa	2776831	806174	1544475	426106	2888280	804660	1651350	432270	3002780	769550	1768170	465070	3137260	784990	1745030	607230

Table 2. Median Age (1990) and Projected Median Age (2000-2020) in Iowa's Counties.

County	Census	Woods and Poole Economics (2000)			County	Census	Woods and Poole Economics (2000)		
	1990	2000	2010	2020		1990	2000	2010	2020
Adair	39.3	42.5	46.3	49.6	Jefferson	37.0	39.1	40.9	42.0
Adams	40.1	42.6	42.1	39.1	Johnson	27.1	28.6	29.4	30.1
Allamakee	36.5	39.8	44.7	49.0	Jones	34.6	38.3	41.4	44.1
Appanoose	37.8	40.9	45.0	48.7	Keokuk	37.2	40.2	42.6	45.7
Audubon	40.3	44.0	45.9	44.1	Kossuth	36.6	40.7	46.3	50.8
Benton	34.7	37.7	40.2	41.7	Lee	35.8	39.1	42.2	44.4
Black Hawk	32.9	36.6	39.6	41.2	Linn	33.1	36.5	38.6	39.5
Boone	36.6	39.5	42.7	44.3	Louisa	34.3	36.8	38.2	39.5
Bremer	35.2	39.1	42.7	44.8	Lucas	38.9	41.7	41.8	41.0
Buchanan	33.4	36.8	40.3	42.6	Lyon	34.8	38.0	41.1	44.0
Buena Vista	33.8	36.3	38.4	40.4	Madison	36.1	38.2	41.4	44.9
Butler	37.9	41.4	46.8	51.6	Mahaska	34.8	37.7	40.2	42.0
Calhoun	39.8	41.4	43.1	44.4	Marion	34.2	37.7	40.5	42.2
Carroll	34.2	37.7	41.4	44.4	Marshall	36.7	39.9	43.3	45.7
Cass	38.3	41.6	46.2	49.8	Mills	35.1	37.7	40.5	41.8
Cedar	36.1	39.7	44.1	48.5	Mitchell	38.2	41.3	42.4	42.6
Cerro Gordo	35.3	39.2	42.1	43.9	Monona	40.5	43.3	44.8	44.2
Cherokee	37.2	41.3	47.0	51.6	Monroe	37.8	41.3	44.4	44.7
Chickasaw	35.7	39.2	43.4	47.2	Montgomery	38.6	40.9	42.7	44.0
Clarke	36.6	39.9	42.6	43.0	Muscatine	33.0	35.7	37.2	38.2
Clay	35.1	38.8	42.7	45.4	O'Brien	36.9	40.8	46.2	50.0
Clayton	35.9	39.4	43.3	45.8	Osceola	35.8	39.7	44.2	46.4
Clinton	35.1	38.8	41.7	43.2	Page	38.2	40.2	43.9	47.8
Crawford	35.3	39.4	43.3	45.8	Palo Alto	37.3	41.0	44.2	45.8
Dallas	34.6	37.2	39.6	40.8	Plymouth	34.1	37.8	41.6	44.7
Davis	36.1	39.5	44.2	47.4	Pocahontas	39.1	41.9	41.2	38.2
Decatur	35.5	38.8	42.6	44.9	Polk	32.3	35.2	36.5	37.4
Delaware	32.7	36.0	39.3	41.4	Pottawattamie	33.5	37.1	39.8	41.2
Des Moines	35.9	39.6	42.4	43.9	Poweshiek	34.4	38.1	41.5	43.6
Dickinson	39.7	43.1	48.9	54.0	Ringgold	42.1	44.8	45.0	41.7
Dubuque	33.1	36.8	39.9	41.9	Sac	38.2	41.3	44.6	47.4
Emmet	36.2	39.5	40.3	40.1	Scott	32.4	35.4	37.3	38.5
Fayette	36.3	39.6	43.4	45.9	Shelby	37.2	41.4	46.6	50.4
Floyd	37.9	41.6	46.1	48.9	Sioux	31.0	33.4	36.3	39.1
Franklin	38.0	41.1	44.5	46.6	Story	25.7	27.6	29.7	30.6
Fremont	38.7	41.6	44.7	45.5	Tama	37.2	41.1	44.7	46.9
Greene	39.4	41.7	42.0	39.6	Taylor	40.0	42.3	45.6	45.6
Grundy	38.8	42.1	45.9	48.9	Union	36.4	39.0	40.3	41.0
Guthrie	39.9	42.6	45.7	46.4	Van Buren	37.8	41.2	45.1	45.7
Hamilton	37.2	40.7	44.8	48.2	Wapello	37.0	40.2	43.5	45.4
Hancock	35.4	39.0	42.6	46.3	Warren	32.8	36.3	38.8	40.1
Hardin	37.8	41.7	46.5	49.8	Washington	35.6	38.6	41.2	42.9
Harrison	36.5	39.6	43.5	47.1	Wayne	42.3	43.8	45.7	45.7
Henry	34.6	37.8	40.5	42.7	Webster	35.5	39.1	42.1	43.8
Howard	37.6	40.5	43.2	43.2	Winnebago	35.9	38.9	40.9	41.8
Humboldt	38.6	41.9	45.3	47.9	Winneshiek	31.8	34.3	36.8	39.0
Ida	36.8	40.6	45.2	46.7	Woodbury	32.9	35.4	37.7	39.2
Iowa	36.5	39.4	42.3	44.8	Worth	38.2	40.8	43.8	44.8
Jackson	35.0	39.1	43.2	46.0	Wright	38.9	42.3	47.4	51.2
Jasper	36.1	40.0	43.4	45.5					
					State of Iowa	34.0	37.2	39.7	40.9

Among residents 20 through 64 years of age, 49 counties can anticipate increases between 1990 and 2020. Gains may range from less than 1,000 in 19 counties to more than 10,000 in Dallas, Johnson, Linn, Polk, Scott, and Woodbury. Of the 50 counties in which declines among those 20-64 may occur, drops could be less than 1,000 in 42; none of the decreases are anticipated to be as great as 3,000. More than half (58) of the counties are expected to change from 1990 to 2020 by fewer than 10 percentage points in either direction among residents 20-64 years of age.

Youth constituted the only age category projected to decline for the state as a whole from 1990 to 2020. That trend is reflected across the counties as well, with 82 anticipated to have fewer residents 19 or younger at the end of the period than at the beginning. Eight of these declines could be greater than 2,000; 16 others are projected to decrease by 1,000 to 1,999 in this age group. Gains in the 17 counties that may have more youth in 2020 than in 1990 are expected to be relatively small in most areas. In only eight counties do projections suggest increases of at least 1,000. The gains among youth in Johnson and Polk could be greater than 10,000. In 26 of Iowa's 99 counties, these changes may be less than 10 percentage points in either direction when 1990 and 2020 are compared.

Changes also are projected for median age between 1990 and 2020. All but three counties may see increases in median age in the 30-year period (Table 2). Although that may not happen in Adams, Pocahontas, or Ringgold, these counties already had relatively high medians in 1990 and the drops are predicted to be relatively small. Among the remaining 96 counties, median ages may increase in 29 of them by less than the 6.9 years predicted for the state. But another 26 could have increases of at least 10 years in median age; among these, Cherokee, Dickinson, and Kossuth could see a median more than 14 years older in 2020 than that reported in 1990.

Median age is predicted to increase between each decade from 1990 to 2020 for the state. That trend may occur in 88 of the counties. In others, variations from this pattern tend to be minor. By 2020, seven counties may have medians of at least 50.0 years; medians in another 13 are projected to be less than 40.0. The remaining 79 of Iowa's 99 counties may have medians ranging from 40.0 to 49.9 years of age in 2020.

**Note:** Caution is urged in examining population projections. It is difficult to predict population even a few years, let alone a few decades, into the future. This is even more critical when subcategories of the population are at issue.

## Estimates of Residents by Race and Hispanic Origin in Iowa's Counties: 1990 and 1999

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The U.S. Bureau of the Census annually updates estimates of the population of states and counties by race and Hispanic origin. The latest estimates, which refer to 1999, were released in August of 2000. The racial categories listed are American Indian, Eskimo, or Aleut; Asian or Pacific Islander; black; and white. The sum of these four groups equals the total population reported in Table 1. The category reported as Hispanic origin constitutes a classification separate and independent of race. Persons of Hispanic origin may be of any race according to procedures used by the census bureau.

In 1999, Iowa's white residents accounted for 96.4 percent of the total population, which was less than a point lower than in 1990 (97.1%). The statewide estimate for whites in 1999 was an increase of 2.6 percent (+70,600) from the figure in 1990. In 1999, more than 100,000 white residents lived in Black Hawk, Linn, Polk, and Scott; when the 10 counties with from 40,000 to 100,000 whites were added to these four, half (51.2%) of all white residents were accounted for in 14 of Iowa's 99 counties.

Blacks, the largest minority group in 1990 (48,417), increased by 19.8 percent (+9,600) to 58,000 during the period (Table 1). Black Hawk, Polk, and Scott were the only counties with at least 5,000 blacks in 1999; they contained nearly two-thirds (64.6%) of the state's total. Nearly a third (32) of Iowa's counties were estimated to have fewer than 10 black residents in 1999. Blacks constituted an estimated 2.0 percent of Iowa's 1999 population, a slight increase from the 1.7 percent reported in 1990.

Iowa's population of Asian and Pacific Islanders totaled 25,715 in 1990 and was estimated to have increased to 37,000 in 1999 (Table 1). Numerical (+11,300) and percentage (+44.1%) changes were larger for this group than for blacks. More than half (52.0%) of Iowa's Asians lived in Johnson, Polk, or Story counties in 1999 and all but Adams and Audubon had at least 15 Asian residents that year. This group was 1.3 percent of Iowa's population in 1999, which reflected an increase from the 0.9 percent listed for 1990.

American Indians, the smallest minority in Iowa, increased 13.5 percent (+1,000) between 1990 and 1999 (Table 1). Estimated at 8,800 in 1999, more than half (54.5%) lived in four counties (Polk, Scott, Tama, Woodbury). While Polk had the highest numbers in all other groups, more American Indians lived in Woodbury than any other county in both 1990 and 1999. Only 0.3 percent of Iowa's residents were American Indians at both time periods.

Residents of Hispanic origin were estimated to number 61,600 in Iowa in 1999. This group has shown the largest increase in both numbers (+28,900) and percent (+88.6%) between 1990 and 1999 of any minority group in the state (Table 1). Half (50.1%) of Hispanic residents were estimated to live in Muscatine, Polk, Scott, or Woodbury counties in 1999. About 2.1 percent of Iowa's residents were in this category that year, while Hispanics accounted for 1.2 percent in 1990.

The latest population estimates suggest that, while Iowa's overall racial and Hispanic composition differs little from that of the 1990 census, some groups have changed substantially. Hispanics in particular have grown rapidly and are estimated to number about the same as blacks, traditionally Iowa's largest minority group.

These figures, while indicating increases, still may underestimate numbers in the minority categories. Readers can compare these estimates with numbers reported for K-12 youth in a section in

Table 1. Estimates of Residents by Race or Hispanic Origin in Iowa's Counties, 1990 and 1999.

County	1999						1990					
	Total	American Indian	Asian or Pacific Islander	Black	White	Hispanic Origin*	Total	American Indian	Asian or Pacific Islander	Black	White	Hispanic Origin*
Adair	8066	4	30	1	8031	62	8409	5	19	1	8384	35
Adams	4405	7	4	3	4391	24	4866	7	3	3	4853	18
Allamakee	14068	24	55	54	13935	88	13855	21	31	5	13798	42
Appanoose	13446	29	45	86	13286	122	13743	27	36	79	13601	72
Audubon	6802	3	6	7	6786	43	7334	3	6	1	7324	22
Benton	25798	40	81	27	25650	194	22429	31	45	20	22333	93
Black Hawk	119959	225	1364	9133	109237	1581	123798	231	1013	8550	114004	912
Boone	26300	21	120	59	26100	182	25186	19	78	62	25027	99
Bremer	23440	16	189	82	23153	138	22813	11	133	70	22599	72
Buchanan	21160	28	63	35	21034	204	20844	24	44	38	20738	112
Buena Vista	19404	16	543	61	18784	265	19965	17	397	56	19495	160
Butler	15499	13	38	4	15444	74	15731	12	26	4	15689	37
Calhoun	11319	12	32	97	11178	77	11508	11	23	30	11444	40
Carroll	21518	27	95	21	21375	129	21423	19	57	8	21339	57
Cass	14512	21	20	9	14462	74	15128	22	16	9	15081	46
Cedar	18056	19	76	20	17941	208	17444	17	49	16	17362	109
Cerro Gordo	45669	41	362	339	44927	1703	46733	45	264	307	46117	994
Cherokee	13060	36	41	19	12964	76	14098	37	32	20	14009	51
Chickasaw	13423	5	29	4	13385	78	13295	4	18	4	13269	40
Clarke	8273	10	28	2	8233	37	8287	8	21	3	8255	19
Clay	17245	38	120	12	17075	87	17585	31	83	8	17463	44
Clayton	18582	20	35	7	18520	108	19054	16	27	7	19004	61
Clinton	49612	138	301	806	48367	515	51040	125	205	732	49978	294
Crawford	16427	33	118	68	16208	163	16775	33	89	59	16594	98
Dallas	38210	60	138	90	37922	413	29755	44	70	63	29578	176
Davis	8517	29	32	1	8455	74	8312	25	21	2	8264	41
Decatur	8319	19	104	40	8156	80	8338	17	73	35	8213	45
Delaware	18482	24	56	24	18378	160	18035	15	32	11	17977	68
Des Moines	41955	72	313	1454	40116	891	42614	70	230	1329	40985	492
Dickinson	16285	26	43	21	16195	108	14909	22	26	16	14845	52
Dubuque	88112	106	645	416	86945	802	86403	85	442	357	85519	437
Emmet	10638	15	33	26	10564	106	11569	13	31	19	11506	63
Fayette	21566	19	72	76	21399	340	21843	16	51	48	21728	195
Floyd	16256	12	62	9	16173	154	17058	13	47	8	16990	92
Franklin	10781	6	25	9	10741	256	11364	8	18	7	11331	152
Fremont	7706	10	19	4	7673	90	8226	9	16	4	8197	53
Greene	10020	10	40	7	9963	56	10045	10	30	5	10000	30
Grundy	12284	8	32	8	12236	63	12029	9	21	7	11992	34
Guthrie	11591	25	32	9	11525	74	10935	19	15	7	10894	35
Hamilton	15905	22	134	13	15736	211	16071	21	90	10	15950	116
Hancock	12037	8	38	1	11990	226	12638	7	29	1	12601	129
Hardin	18159	25	76	99	17959	169	19094	26	56	118	18894	106
Harrison	15216	17	78	10	15111	98	14730	15	51	10	14654	50
Henry	20139	59	304	274	19502	243	19226	44	215	212	18755	127
Howard	9574	8	30	5	9531	46	9809	7	20	5	9777	24
Humboldt	10224	15	34	10	10165	65	10756	15	27	9	10705	37
Ida	7930	5	23	5	7897	45	8365	5	19	1	8340	23
Iowa	15667	17	54	11	15585	83	14630	11	34	7	14578	39
Jackson	20157	22	35	22	20078	169	19950	23	24	18	19885	96
Jasper	36659	86	264	206	36103	361	34795	66	177	65	34487	194

\*Hispanics can be of any race.

Table 1. Estimates of Residents by Race or Hispanic Origin in Iowa's Counties, 1990 and 1999 (continued).

County	1999						1990					
	Total	American Indian	Asian or Pacific Islander	Black	White	Hispanic Origin*	Total	American Indian	Asian or Pacific Islander	Black	White	Hispanic Origin*
Jefferson	16762	28	199	111	16424	237	16310	24	139	93	16054	141
Johnson	103813	218	5328	2530	95737	2823	96119	187	3851	2002	90079	1435
Jones	20075	39	37	323	19676	178	19444	35	23	301	19085	95
Keokuk	11340	19	36	7	11278	36	11624	19	27	6	11572	19
Kossuth	17630	8	68	14	17540	155	18591	8	59	8	18516	94
Lee	38309	68	201	1358	36682	1315	38687	61	137	1128	37361	732
Linn	184891	447	2133	4201	178110	3228	168767	369	1408	3352	163638	1591
Louisa	11945	34	31	77	11803	755	11592	36	19	86	11451	425
Lucas	9131	18	25	5	9083	96	9070	20	18	4	9028	53
Lyon	12030	21	55	9	11945	38	11952	15	35	2	11900	11
Madison	14105	52	30	12	14011	137	12483	37	16	5	12425	67
Mahaska	21954	21	270	47	21616	160	21532	17	180	44	21291	92
Marion	31529	47	417	108	30957	301	30001	43	284	104	29570	162
Marshall	38782	108	434	313	37927	525	38276	106	302	279	37589	292
Mills	14705	39	28	25	14613	153	13202	28	18	23	13133	72
Mitchell	11106	2	34	3	11067	88	10928	1	21	2	10904	45
Monona	10089	30	23	4	10032	56	10034	26	13	5	9990	30
Monroe	8017	16	44	21	7936	32	8114	16	33	19	8046	18
Montgomery	11707	12	18	6	11671	90	12076	12	13	5	12046	52
Muscatine	41195	135	409	319	40332	5156	39907	118	306	221	39262	2900
O'Brien	14621	32	61	10	14518	60	15444	32	52	8	15352	39
Osceola	6914	9	17	3	6885	28	7267	9	16	3	7239	16
Page	17139	72	111	252	16704	355	16870	52	85	84	16649	197
Palo Alto	9917	19	20	9	9869	38	10669	23	18	8	10620	24
Plymouth	24819	18	90	34	24677	112	23388	15	53	49	23271	58
Pocahontas	8774	10	19	4	8741	50	9525	11	17	4	9493	32
Polk	364672	1169	9437	18821	335245	12663	327140	954	6053	14872	305261	6161
Pottawattamie	86425	275	440	575	85135	2839	82628	246	290	468	81624	1514
Poweshiek	18693	26	244	90	18333	104	19033	23	192	88	18730	68
Ringgold	5361	9	26	1	5325	27	5420	10	18	1	5391	16
Sac	11761	12	23	4	11722	73	12324	14	20	4	12286	44
Scott	159458	586	2022	9542	147308	8143	150973	520	1373	8050	141030	4251
Shelby	12781	20	25	5	12731	81	13230	20	20	5	13185	44
Sioux	31355	38	345	38	30934	154	29903	32	211	25	29635	66
Story	75373	113	4495	1343	69422	1453	74252	107	3480	1203	69462	840
Tama	17788	870	93	38	16787	218	17419	814	65	31	16509	128
Taylor	7025	12	29	1	6983	82	7114	8	19	1	7086	46
Union	12611	26	64	12	12509	82	12750	22	51	10	12667	42
Van Buren	7873	9	27	11	7826	51	7676	8	18	10	7640	29
Wapello	35458	104	239	306	34809	394	35696	98	172	271	35155	224
Warren	40614	76	244	124	40170	577	36033	52	146	90	35745	277
Washington	21147	19	89	93	20946	391	19612	16	54	90	19452	196
Wayne	6581	8	18	2	6553	49	7067	8	16	1	7042	29
Webster	38832	122	229	1032	37449	852	40342	118	166	886	39172	490
Winnebago	11971	19	117	39	11796	178	12122	17	82	31	11992	97
Winneshieki	20917	5	270	60	20582	109	20847	5	198	43	20601	61
Woodbury	101437	2152	1845	2239	95201	4910	98276	1895	1291	1901	93189	2712
Worth	7657	2	15	16	7624	157	7991	3	14	15	7959	91
Wright	13892	15	62	10	13805	166	14269	15	43	10	14201	92
State of Iowa	2869413	8760	37047	58013	2765593	61570	2776831	7716	25715	48417	2694983	32643

this volume entitled "Ethnicity of K-12 Students in Iowa's Counties: 1979, 1984, 1989, 1994-1999." Although the comparisons are not exact, they suggest potential problems with the county estimates reported here. For example, Buena Vista and Marshall are reported to have far more K-12 Hispanic students in 1999 than the total (all ages) Hispanics noted in this section. This suggests that rapid changes are not always captured by the bureau in these estimates by race and Hispanic origin. Thus, caution is urged in interpreting them.

**Note:** The 1990 figures are called estimates here although they were based on counts from the census conducted that year. In 1990, a racial category of "other" was available for selection on the census form. For estimation purposes in the years that followed, the bureau reallocated those in the "other" racial category to the four remaining groups (American Indian, Eskimo, Aleut; Asian or Pacific Islander; black, white). In Iowa, most selecting the "other" racial category in 1990 were Hispanics who considered themselves to be white, which the bureau knew from responses to a related question. Thus, about 11,900 of the approximately 12,800 who selected "other" in 1990 were reallocated to white for these estimates. So were about 300 to black, 250 to Asian or Pacific Islander, and 350 to American Indian, Eskimo, or Aleut. Those wanting to see the 1990 figures with the "other" racial category included can review the section on "Race and Hispanic Origin in Iowa's Counties: 1980-1990" in the 1991 edition of this volume.



## Experimental Estimates of Residents of Hispanic Origin in Iowa's Counties: 1990 and 1999

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Since the 1990 census, the U.S. Bureau of the Census has produced annual estimates of the population of Hispanic origin. The most recent estimate suggested that 61,570 Hispanics lived in Iowa in 1999, an increase of 28,927 (+88.6%) since the 1990 count.

The 1999 figures provided by the census bureau may underestimate the Hispanic population in Iowa, however. Evidence for this comes from examining the number of Hispanic youth as reported in school-enrollment figures (see the section in this volume on Ethnicity of K-12 Students in Iowa's Counties: 1979, 1984, 1989, and 1994-1999). For example, Buena Vista County had 589 Hispanic students enrolled in school in 1999 but the estimate from the census bureau suggested that the total Hispanic population was 265 that year (Table 1). Similarly, 856 Hispanic students were counted in Marshall but the total population of Hispanics was estimated by the bureau to be 525. In Clarke, Crawford, Dallas, Emmet, and Sioux counties as well, more Hispanic students were noted than the bureau's estimates of the total Hispanic population. Clearly, the estimates of Hispanics offered by the census bureau were not accounting even for school-age Hispanics let alone their parents, younger siblings, or other adults who would be present in the total population. These comparisons indicate that relatively rapid change in the Hispanic population is not always captured by the U.S. Bureau of the Census in its estimation procedure.

Using the 1990 census counts of the Hispanic population, an average of the 1989 through 1991 K-12 enrollment of Hispanic youth, and the 1999 Hispanic K-12 figures, an experimental estimation procedure was devised to construct another set of estimates of the total Hispanic population for 1999. This experimental set yields a substantially higher statewide total of Hispanics (82,598) that year than did the bureau's formula (Table 1); indeed, the experimental figures suggest that the Hispanic population in Iowa more than doubled (+153.0%) since 1990. Counties that recorded relatively large increases in Hispanic students between 1990 and 1999 also have large gains in total Hispanics in the experimental numbers. Muscatine, Polk, Scott, and Woodbury continue to have large totals in the experimental estimates, accounting for 44.4 percent of all Hispanics in 1999. That percentage is a few points lower than that for the census count or estimate. The difference is caused by rapid gains among Hispanics in counties such as Buena Vista, Dallas, and Marshall that result when the experimental set of estimates is constructed. Indeed, Buena Vista has the fourth highest number of Hispanics according to the experimental estimates, while it is in the 26<sup>th</sup> position according to the census bureau estimates.

Both the estimates from the U.S. Bureau of the Census and from the experimental set should be used with caution. While the experimental set may better reflect some recent localized changes in the Hispanic population, it, too, is at best an estimate.

Table 1. Counts (1990) and Estimates (1999) of the Hispanic Population and K-12 Students in Iowa's Counties.

County	Counts			Estimates		County	Counts			Estimates	
	1990 Census Bureau Count	1990 K-12 Stu <sup>1</sup> Count	1999 K-12 Stu <sup>1</sup> Count	1999 Census Bureau Est	1999 Census Services Exper Est <sup>2</sup>		1990 Census Bureau Count	1990 K-12 Stu <sup>1</sup> Count	1999 K-12 Stu <sup>1</sup> Count	1999 Census Bureau Est	1999 Census Services Exper Est <sup>2</sup>
Adair	35	9	2	62	10	Jefferson	141	8	37	237	315
Adams	18	0	1	24	5	Johnson	1435	194	391	2823	2653
Allamakee	42	12	33	88	156	Jones	95	5	20	178	233
Appanoose	72	3	25	122	251	Keokuk	19	0	10	36	47
Audubon	22	2	1	43	5	Kossuth	94	23	43	155	173
Benton	93	19	12	194	59	Lee	732	166	161	1315	663
Black Hawk	912	123	418	1581	2756	Linn	1591	296	499	3228	2573
Boone	99	9	21	182	204	Louisa	425	192	574	755	1399
Bremer	72	5	15	138	158	Lucas	53	4	10	96	48
Buchanan	112	9	16	204	166	Lyon	11	3	12	38	56
Buena Vista	160	25	589	265	4468	Madison	67	12	12	137	61
Butler	37	11	0	74	0	Mahaska	92	19	33	160	183
Calhoun	40	13	8	77	40	Marion	162	25	44	301	319
Carroll	57	23	21	129	99	Marshall	292	78	856	525	3455
Cass	46	14	15	74	71	Mills	72	8	40	153	346
Cedar	109	23	18	208	100	Mitchell	45	8	7	88	33
Cerro Gordo	994	206	314	1703	1476	Monona	30	4	12	56	56
Cherokee	51	1	11	76	53	Monroe	18	5	13	32	61
Chickasaw	40	4	20	78	93	Montgomery	52	7	10	90	47
Clarke	19	4	49	37	229	Muscatine	2900	947	1329	5156	4148
Clay	44	6	20	87	93	O'Brien	39	6	32	60	149
Clayton	61	8	8	108	38	Osceola	16	0	24	28	112
Clinton	294	61	107	515	499	Page	197	35	59	355	315
Crawford	98	14	232	163	1615	Palo Alto	24	4	13	38	61
Dallas	176	25	461	413	3389	Plymouth	58	7	56	112	264
Davis	41	0	3	74	14	Pocahontas	32	8	9	50	42
Decatur	45	6	20	80	101	Polk	6161	964	2974	12663	17887
Delaware	68	8	19	160	190	Pottawattamie	1514	259	537	2839	3040
Des Moines	492	150	147	891	517	Poweshiek	68	10	37	104	190
Dickinson	52	11	17	108	81	Ringgold	16	0	2	27	10
Dubuque	437	59	119	802	808	Sac	44	4	23	73	107
Emmet	63	30	111	106	260	Scott	4251	986	1310	8143	4738
Fayette	195	31	63	340	444	Shelby	44	9	10	81	49
Floyd	92	16	29	154	148	Sioux	66	16	169	154	712
Franklin	152	67	126	256	387	Story	840	130	174	1453	984
Fremont	53	11	11	90	53	Tama	128	31	178	218	601
Greene	30	3	38	56	177	Taylor	46	0	75	82	351
Grundy	34	5	33	63	154	Union	42	3	22	82	103
Guthrie	35	10	5	74	23	Van Buren	29	0	9	51	42
Hamilton	116	20	33	211	131	Wapello	224	10	130	394	1300
Hancock	129	27	45	226	211	Warren	277	29	55	577	511
Hardin	106	28	109	169	310	Washington	196	33	136	391	983
Harrison	50	3	26	98	260	Wayne	29	2	2	49	9
Henry	127	35	62	243	268	Webster	490	78	164	852	1057
Howard	24	8	6	46	28	Winnebago	97	45	41	178	76
Humboldt	37	1	20	65	93	Winneshieki	61	6	16	109	92
Ida	23	1	3	45	14	Woodbury	2712	541	2197	4910	9931
Iowa	39	20	73	83	341	Worth	91	16	11	157	55
Jackson	96	2	13	169	130	Wright	92	25	143	166	606
Jasper	194	41	33	361	176						
State of Iowa							32643	6483	16302	61570	82598

<sup>1</sup>K-12 student numbers are based on the county in which the school district's administrative office is located.

<sup>2</sup>1990 census counts plus 1989-1991 and 1999 K-12 student numbers were used to create 1999 experimental estimates.

## Estimated Net Migration in Iowa's Counties: 1990-1999

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As part of the process of estimating the population of counties between decennial censuses, the U.S. Bureau of the Census examines migration. When it releases its figures, the bureau includes an estimate of net migration as one of the components of population change. The estimates reported in this section cover the period from 1 April 1990 to 1 July 1999.

According to the census bureau, the State of Iowa had more people entering than leaving from 1 April 1990 to 1 July 1999. The difference between the totals moving in and out was relatively small, however, with a net immigration of about 5,600 (Table 1). This near balance of in- and outmigrants contrasts greatly with the last several decades in this state, when far more left than arrived.

Forty-five counties had more residents entering than leaving from 1 April 1990 to 1 July 1999. Twelve had net immigration exceeding 1,000. Polk's figure of more than 10,300 was far greater than the others; Dallas was the only other county with at least 4,000 more arriving than departing. Nine counties were reported to have at least 1,000 more moving out than in during the 1990s; the estimated net outmigration of 7,800 in Black Hawk was much greater than the others. Seventeen counties had total net migration of less than 100 in either direction.

The U.S. Bureau of the Census divides net migration into domestic and international components. Those migrating within the United States, which is called domestic migration, includes those moving from one state to another. In Iowa, net domestic migration was estimated to be -15,500, which means that more left Iowa from 1 April 1990 to 1 July 1999 than arrived from other states (Table 1). Twelve counties had net domestic outmigration exceeding 1,000, with Black Hawk the highest (-8,400). Eleven counties had at least 1,000 more entering than leaving; the figure in Dallas was more than twice that of any other county. More than a quarter (29) of Iowa's 99 counties had net changes attributed to domestic migration of less than 200 in the period measured by the census bureau.

When individuals moving to and from other countries were examined, the state was estimated to have nearly 21,200 more entering than leaving (Table 1). Net international migration consists of legal immigration to the United States as reported by the Immigration and Naturalization Service, an estimate of net undocumented immigration from abroad, an estimate of emigration from the United States, and net movement between Puerto Rico and the United States.

Net international migration resulted in more in- than outmigrants in all but two Iowa counties (Lyon, Ringgold). Generally, net international migration was small in number, however. In 19 counties, for example, the change was less than 10 from 1 April 1990 to 1 July 1999. In another 25, net immigration from other countries was 10-19. Thus, nearly half (44) of Iowa's counties changed by less than 20 through net international migration. More than a third (8,300 or 39.5%) of Iowa's total net migration from other countries occurred in Polk County. The numbers in Johnson, Linn, Scott, and Woodbury also exceeded 1,000. These five (Johnson, Linn, Polk, Scott, Woodbury) accounted for two-thirds (67.7%) of the net international migration estimated by the U.S. Bureau of the Census.

Without net immigration from other countries, Iowa would not have had total net immigration from 1 April 1990 to 1 July 1999. The net figure for domestic movement was negative, indicating that more left Iowa for other states than entered from them during this period. Caution is urged in drawing conclusions, however; a review suggests that these state and county estimates have fluctuated rather substantially in the 1990s.

Table 1. Estimated Net Migration in Iowa's Counties, 1990-1999.

County	Total Estimated Net Migration	Estimated Net Domestic Migration	Estimated Net International Migration	County	Total Estimated Net Migration	Estimated Net Domestic Migration	Estimated Net International Migration
Adair	65	61	4	Jefferson	368	-1	369
Adams	-321	-324	3	Johnson	89	-1173	1262
Allamakee	243	167	76	Jones	197	175	22
Appanoose	62	49	13	Keokuk	-220	-235	15
Audubon	-331	-337	6	Kossuth	-744	-784	40
Benton	2389	2380	9	Lee	-658	-737	79
Black Hawk	-7793	-8363	570	Linn	3832	2789	1043
Boone	1134	1099	35	Louisa	-62	-273	211
Bremer	560	558	2	Lucas	147	114	33
Buchanan	-380	-427	47	Lyon	-142	-133	-9
Buena Vista	-796	-1099	303	Madison	1608	1605	3
Butler	120	104	16	Mahaska	87	0	87
Calhoun	389	378	11	Marion	1106	1041	65
Carroll	-126	-153	27	Marshall	707	294	413
Cass	-246	-272	26	Mills	1217	1207	10
Cedar	366	336	30	Mitchell	331	322	9
Cerro Gordo	-1738	-1841	103	Monona	315	304	11
Cherokee	-775	-777	2	Monroe	-5	-13	8
Chickasaw	70	47	23	Montgomery	-11	-21	10
Clarke	70	63	7	Muscatine	-993	-1699	706
Clay	-616	-644	28	O'Brien	-774	-785	11
Clayton	-385	-402	17	Osceola	-329	-338	9
Clinton	-2190	-2324	134	Page	838	811	27
Crawford	-626	-727	101	Palo Alto	-377	-384	7
Dallas	6354	6108	246	Plymouth	546	494	52
Davis	42	37	5	Pocahontas	-353	-359	6
Decatur	176	168	8	Polk	10319	1955	8364
Delaware	-249	-261	12	Pottawattamie	175	-180	355
Des Moines	-1541	-1617	76	Poweshiek	-325	-356	31
Dickinson	1641	1601	40	Ringgold	253	254	-1
Dubuque	-1783	-1960	177	Sac	-255	-272	17
Emmet	-745	-799	54	Scott	-1352	-3042	1690
Fayette	-332	-361	29	Shelby	-273	-284	11
Floyd	-655	-710	55	Sioux	-108	-178	70
Franklin	-466	-511	45	Story	-2810	-3572	762
Fremont	-169	-181	12	Tama	373	249	124
Greene	199	181	18	Taylor	186	153	33
Grundy	333	326	7	Union	98	80	18
Guthrie	761	751	10	Van Buren	316	306	10
Hamilton	-307	-356	49	Wapello	-29	-115	86
Hancock	-585	-613	28	Warren	2789	2707	82
Hardin	-532	-553	21	Washington	1069	915	154
Harrison	757	746	11	Wayne	-75	-86	11
Henry	567	474	93	Webster	-1717	-1779	62
Howard	-2	-18	16	Winnebago	-20	-34	14
Humboldt	-322	-338	16	Winneshiiek	-267	-351	84
Ida	-307	-329	22	Woodbury	-3184	-5148	1964
Iowa	791	773	18	Worth	-138	-141	3
Jackson	-61	-72	11	Wright	-91	-105	14
Jasper	1245	1223	22				
				State of Iowa	5609	-15542	21151

## Historical Trends of the Population in Iowa's Counties: 1850-1990

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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 following statehood in 1846.

### 1850 to 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 between the southwest and northeast corners 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. 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 by more than 480,000 (Table 2) from the previous census, a gain of 251 percent (Table 3). Only Lyon and Osceola, two counties in the northwest corner of the state, had no reported population. During the decade of the 1850s, counties in eastern Iowa experienced relatively great growth. Dubuque gained more than 20,000 people; Scott gained nearly that many (Table 2). Because populations in 1850 were small, 12 counties experienced growth rates of more than a thousand percent in the next 10 years. By 1860, 29 counties had populations of more than 10,000, with all counties increasing from 1850 to 1860 with the exception of Pottawattamie.

Growth continued through the decade of the 1860s. The state gained more than 500,000 (+76.9%) 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. By 1870, only five other counties remained under 1,000 in population, with most of these in the northwest. Fifty-two counties were over the 10,000 population mark, with five of these over 30,000. The highest populations were in Dubuque and Scott, each of which had more than 38,000. During the 1860s, counties with the highest growth rates were in the western areas of the state rather than in eastern Iowa 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 increases of at least 10,000 were Cass, Pottawattamie, Polk, and Shelby. The five counties with at least 500 percent growth all were in western Iowa. An additional indication of the shift in population was seen in the losses experienced by five 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 (+17.7%), 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. Of the 16 counties that more than doubled population during the decade, 14 were in the western section of the state.

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 4). It was a time of generalized population growth shared by all the counties across the state. Two-thirds (67) of the counties gained population during each of the five decades and only four (Cedar, Henry, Jefferson, Van Buren) lost during more than one decade.

### 1900 to 1950

The turn of the century marked a significant change for Iowa's population (Figures 1, 2). 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 percent of its population, while Fremont, Keokuk, Lucas, Ringgold, and Union declined by more than 15 percent. 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, +38.5%; Polk, +33.7%; Woodbury, +23.8%), although Monroe was highest (+41.4%). 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 (+8.1%). 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, -12.0%); it was the only county with a decline greater than 10 percent. 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 county with a population exceeding 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 percent since 1920. Even though the state was growing, nearly half (48) of the counties declined. Monroe dropped by 8,457 people, a 36.0 percent 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 percent. Of the 51 counties that grew during the decade, the greatest percentage gains were in Black Hawk (+22.2%), Story (+18.9%), and Jasper (+18.2%). Woodbury joined Polk in having a total population of more than 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 (-8.6%) 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 15.6 percent 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 percent; four of these (Appanoose, Fremont, Lucas, Monroe) exceeded 15 percent. 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

Table 1. Population in Iowa's Counties, 1850-1990.

County	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Adair	8409	9509	9487	10893	12292	13196	13891	14259	14420	16192	14534	11667	3982	984	*
Adams	4866	5731	6322	7468	8753	10156	10437	10521	10998	13601	12292	11888	4614	1533	*
Allamakee	13855	15108	14968	15982	16351	17184	16328	17285	17328	18711	17907	19791	17868	12237	777
Appanoose	13743	15511	15007	16015	19683	24245	24835	30535	28701	25927	18961	16636	16456	11931	3131
Audubon	7334	8559	9595	10919	11579	11790	12264	12520	12671	13626	12412	7448	1212	454	*
Benton	22429	23649	22885	23422	22656	22879	22851	24080	23156	25177	24178	24888	22454	8496	672
Black Hawk	123798	137961	132916	122482	100448	79946	69146	56570	44865	32399	24219	23913	21706	8244	135
Boone	25186	26184	26470	28037	28139	29782	29271	29892	27626	28200	23772	20838	14584	4232	735
Bremer	22813	24820	22737	21108	18884	17932	17046	16728	15843	16305	14630	14081	12528	4915	*
Buchanan	20844	22900	21762	22293	21927	20991	19550	19890	19748	21427	18997	18546	17034	7906	517
Buena Vista	19965	20774	20693	21189	21113	19838	18667	18556	15981	16975	13548	7537	1585	57	*
Butler	15731	17668	16953	17467	17394	17986	17617	17845	17119	17955	15463	14293	9951	3724	*
Calhoun	11508	13542	14292	15923	16925	17584	17605	17783	17090	18569	13107	5595	1602	147	*
Carroll	21423	22951	22912	23431	23065	22770	22326	21549	20117	20319	18828	12351	2451	281	*
Cass	15128	16932	17007	17919	18532	18647	19422	19421	19047	21274	19645	16943	5464	1612	*
Cedar	17444	18635	17655	17791	16910	16884	16760	17560	17765	19371	18253	18936	19731	12949	3941
Cerro Gordo	46733	48458	49223	49894	46053	43845	38476	34675	25011	20672	14864	11461	4722	940	*
Cherokee	14098	16238	17269	18598	19052	19258	18737	17760	16741	16570	15659	8240	1967	58	*
Chickasaw	13295	15437	14969	15034	15228	15227	14637	15431	15375	17037	15019	14534	10180	4336	*
Clarke	8287	8612	7581	8222	9369	10233	10384	10506	10736	12440	11332	11513	8735	5427	79
Clay	17585	19576	18464	18504	18103	17762	16107	15660	12766	13401	9309	4248	1523	52	*
Clayton	19054	21098	20606	21962	22522	24334	24559	25032	25576	27750	26733	28829	27771	20728	3873
Clinton	51040	57122	56749	55060	49664	44722	44377	43371	45394	43832	41199	36763	35357	18938	2822
Crawford	16775	18935	19116	18569	19741	20538	21028	20614	20041	21685	18894	12413	2530	383	*
Dallas	29755	29513	26085	24123	23661	24649	25493	25120	23628	23058	20479	18746	12019	5244	854
Davis	8312	9104	8207	9199	9959	11136	11150	12574	13315	15620	15258	16468	15565	13764	7264
Decatur	8338	9794	9737	10539	12601	14012	14903	16566	16347	18115	15643	15336	12018	8677	965
Delaware	18035	18933	18770	18483	17734	18487	18122	18183	17888	19185	17349	17950	17432	11024	1759
Des Moines	42614	46203	46982	44605	42056	36804	38162	35520	36145	35989	35324	33099	27256	19611	12988
Dickinson	14909	15629	12565	12574	12756	12185	10982	10241	8137	7995	4328	1901	1389	180	*
Dubuque	86403	93745	90609	80048	71337	63768	61214	58262	57450	56403	49848	42996	38969	31164	10841
Emmet	11569	13336	14009	14871	14102	13406	12856	12627	9816	9936	4274	1550	1392	105	*
Fayette	21843	25488	26898	28581	28294	29151	29145	29251	27919	29845	23141	22258	16973	12073	825

\*County not officially organized as of this census.

Table 1. Population in Iowa's Counties, 1850-1990 (continued).

County	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Floyd	17058	19597	19860	21102	21505	20169	19524	18860	17119	17754	15424	14677	10768	3744	*
Franklin	11364	13036	13255	15472	16268	16379	16382	15807	14780	14996	12871	10249	4738	1309	*
Fremont	8226	9401	9282	10282	12323	14645	15533	15447	15623	18546	16842	17652	11174	5074	1244
Greene	10045	12119	12716	14379	15544	16599	16528	16467	16023	17820	15797	12727	4627	1374	*
Grundy	12029	14366	14119	14132	13722	13518	14133	14420	13574	13757	13215	12639	6399	793	*
Guthrie	10935	11983	12243	13607	15197	17210	17324	17596	17374	18729	17380	14394	7061	3058	*
Hamilton	16071	17862	18383	20032	19660	19922	20978	19531	19242	19514	15319	11252	6055	1699	*
Hancock	12638	13833	13506	14604	15077	15402	14802	14723	12731	13752	7621	3453	999	179	*
Hardin	19094	21776	22248	22533	22218	22530	22947	23337	20921	22794	19003	17807	13684	5440	*
Harrison	14730	16348	16240	17600	19560	22767	24897	24488	23162	25597	21356	16649	8931	3621	*
Henry	19226	18890	18114	18187	18708	17994	17660	18298	18640	20022	18895	20986	21463	18701	8707
Howard	9809	11114	11442	12734	13105	13531	13082	13705	12920	14512	11182	10837	6282	3168	*
Humboldt	10756	12246	12519	13156	13117	13459	13202	12951	12182	12667	9836	5341	2596	332	*
Ida	8365	8908	9283	10269	10697	11047	11933	11689	11296	12327	10705	4382	226	43	*
Iowa	14630	15429	15419	16396	15835	17016	17332	18600	18409	19544	18270	19221	16644	8029	822
Jackson	19950	22503	20839	20754	18622	19181	18481	19931	21258	23615	22771	23771	22619	18493	7210
Jasper	34795	36425	35425	35282	32305	31496	32936	27855	27034	26976	24943	25963	22116	9883	1280
Jefferson	16310	16316	15774	15818	15696	15762	16241	16440	15951	17437	15184	17469	17839	15038	9904
Johnson	96119	81717	72127	53663	45756	33191	30276	26462	25914	24817	23082	25429	24898	17573	4472
Jones	19444	20401	19868	20693	19401	19950	19206	18607	19050	21954	20233	21052	19731	13306	3007
Keokuk	11624	12921	13943	15492	16797	18406	19148	20983	21160	24979	23862	21258	19434	13271	4822
Kossuth	18591	21891	22937	25314	26241	26630	25452	25082	21971	22720	13120	6178	3351	416	*
Lee	38687	43106	42996	44207	43102	41074	41268	39676	36702	39719	37715	34859	37210	29232	18861
Linn	168767	169775	163213	136899	104274	89142	82336	74004	60720	55392	45303	37237	31080	18947	5444
Louisa	11592	12055	10682	10290	11101	11384	11575	12179	12855	13516	11873	13142	12877	10370	4939
Lucas	9070	10313	10163	10923	12069	14571	15114	15686	13462	16126	14563	14530	10388	5766	471
Lyon	11952	12896	13340	14468	14697	15374	15293	15431	14624	13165	8680	1968	221	*	*
Madison	12483	12597	11558	12295	13131	14525	14331	15020	15621	17710	15977	17224	13884	7339	1179
Mahaska	21532	22867	22177	23602	24672	26485	25804	26270	29860	34273	28805	25202	22508	14816	5989
Marion	30001	29669	26352	25886	25930	27019	25727	24957	22995	24159	23058	25111	24436	16813	5482
Marshall	38276	41652	41076	37984	35611	35406	33727	32630	30279	29991	25842	23752	17576	6015	338
Mills	13202	13406	11832	13050	14064	15064	15866	15422	15811	16764	14548	14137	8718	4481	*
Mitchell	10928	12329	13108	14043	13945	14121	14065	13921	13435	14916	13299	14363	9582	3409	*



Table 1. Population in Iowa's Counties, 1850-1990 (continued).

County	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Monona	10034	11692	12069	13916	16303	18238	18213	17125	16633	17980	14515	9055	3654	832	*
Monroe	8114	9209	9357	10463	11814	14553	15010	23467	25429	17985	13666	13719	12724	8612	2884
Montgomery	12076	13413	12781	14467	15685	15697	16752	17048	16604	17803	15848	15895	5934	1256	*
Muscatine	39907	40436	37181	33840	32148	31296	29385	29042	29505	28242	24504	23170	21688	16444	5731
O'Brien	15444	16972	17522	18840	18970	19293	18409	19051	17262	16985	13060	4155	715	8	*
Osceola	7267	8371	8555	10064	10181	10607	10182	10223	8956	8725	5574	2219	*	*	*
Page	16870	19063	18537	21023	23921	24887	25904	24137	24002	24187	21341	19667	9975	4419	551
Palo Alto	10669	12721	13289	14736	15891	16170	15398	15486	13845	14354	9318	4131	1336	132	*
Plymouth	23388	24743	24322	23906	23252	23502	24159	23584	23129	22209	19568	8566	2199	148	*
Pocahontas	9525	11369	12793	14234	15496	16266	15687	15602	14808	15339	9553	3713	1446	103	*
Polk	327140	303170	286130	266315	226010	195835	172837	154029	110438	82624	65410	42395	27857	11625	4513
Pottawattamie	82628	86561	86991	83102	69682	66756	69888	61550	55832	54336	47430	39850	16893	4968	7828
Poweshiek	19033	19306	18803	19300	19344	18758	18727	19910	19589	19414	18394	18936	15581	5668	615
Ringgold	5420	6112	6373	7910	9528	11137	11966	12919	12904	15325	13556	12085	5691	2923	*
Sac	12324	14118	15573	17007	17518	17639	17641	17500	16555	17639	14522	8774	1411	246	*
Scott	150973	160022	142687	119067	100698	84748	77332	73952	60000	51558	43164	41266	38599	25959	5986
Shelby	13230	15043	15528	15825	15942	16720	17131	16065	16552	17932	17611	12696	2540	818	*
Sioux	29903	30813	27996	26375	26381	27209	26806	26458	25248	23337	18370	5426	576	10	*
Story	74252	72326	62783	49327	44294	33434	31141	26185	24083	23159	18127	16906	11651	4051	*
Tama	17419	19533	20147	21413	21688	22428	21987	21861	22156	24585	22052	21585	16131	5285	8
Taylor	7114	8353	8790	10288	12420	14258	14859	15514	16312	18784	16384	15635	6989	3590	204
Union	12750	13858	13557	13712	15651	16280	17435	17268	16616	19928	16900	14980	5986	2012	*
Van Buren	7676	8626	8643	9778	11007	12053	12603	14060	15020	17354	16253	17043	17672	17081	12270
Wapello	35696	40241	42149	46126	47397	44280	40480	37937	37743	35426	30426	25285	22346	14518	8471
Warren	36033	34878	27432	20829	17758	17695	17700	18047	18194	20376	18269	19578	17980	10281	961
Washington	19612	20141	18967	19406	19557	20055	19822	20421	19925	20718	18468	20374	18952	14235	4957
Wayne	7067	8199	8405	9800	11737	13308	13787	15378	16184	17491	15670	16127	11287	6409	340
Webster	40342	45953	48391	47810	44241	41521	40425	37611	34629	31757	21582	15951	10484	2504	*
Winnebago	12122	13010	12990	13099	13450	13972	13143	13489	11914	12725	7325	4917	1562	168	*
Winneshiek	20847	21876	21758	21651	21639	22263	21630	22091	21729	23731	22528	23938	23570	13942	546
Woodbury	98276	100884	103052	107849	103917	103627	101669	92171	67616	54610	55632	14996	6172	1119	*
Worth	7991	9075	8984	10259	11068	11449	11164	11630	9950	10887	9247	7953	2892	756	*
Wright	14269	16319	17294	19447	19652	20038	20216	20348	17951	18227	12057	5062	2392	653	*
State of Iowa	2776831	2913808	2825368	2757537	2621073	2538268	2470939	2404021	2224771	2231853	1912297	1624615	1194020	674913	192214
United States		226542199		179323175		131669275		105710620		75994575		50155783		31443321	
	248718301		203302031		151325798		122775046		91972266		62947714		39818449		23191876

Table 2. Population Change in Iowa's Counties, 1850-1990.

County	1980- 1990	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	-1100	22	-1406	-1399	-904	-695	-368	-161	-1772	1658	2867	7685	2998	984*
Adams	-865	-591	-1146	-1285	-1403	-281	-84	-477	-2603	1309	404	7274	3081	1533*
Allamakee	-1253	140	-1014	-369	-833	856	-957	-43	-1383	804	-1884	1923	5631	11460
Appanoose	-1768	504	-1008	-3668	-4562	-590	-5700	1834	2774	6966	2325	180	4525	8800
Audubon	-1225	-1036	-1324	-660	-211	-474	-256	-151	-955	1214	4964	6236	758	454*
Benton	-1220	764	-537	766	-223	28	-1229	924	-2021	999	-710	2434	13958	7824
Black Hawk	-14163	5045	10434	22034	20502	10800	12576	11705	12466	8180	306	2207	13462	8109
Boone	-998	-286	-1567	-102	-1643	511	-621	2266	-574	4428	2934	6254	10352	3497
Bremer	-2007	2083	1629	2224	952	886	318	885	-462	1675	549	1553	7613	4915*
Buchanan	-2056	1138	-531	366	936	1441	-340	142	-1679	2430	451	1512	9128	7389
Buena Vista	-809	81	-496	76	1275	1171	111	2575	-994	3427	6011	5952	1528	57*
Butler	-1937	715	-514	73	-592	369	-228	726	-836	2492	1170	4342	6227	3724*
Calhoun	-2034	-750	-1631	-1002	-659	-21	-178	693	-1479	5462	7512	3993	1455	147*
Carroll	-1528	39	-519	366	295	444	777	1432	-202	1491	6477	9900	2170	281*
Cass	-1804	-75	-912	-613	-115	-775	1	374	-2227	1629	2702	11479	3852	1612*
Cedar	-1191	980	-136	881	26	124	-800	-205	-1606	1118	-683	-795	6782	9008
Cerro Gordo	-1725	-765	-671	3841	2208	5369	3801	9664	4339	5808	3403	6739	3782	940*
Cherokee	-2140	-1031	-1329	-454	-206	521	977	1019	171	911	7419	6273	1909	58*
Chickasaw	-2142	468	-65	-194	1	590	-794	56	-1662	2018	485	4354	5844	4336*
Clarke	-325	1031	-641	-1147	-864	-151	-122	-230	-1704	1108	-181	2778	3308	5348
Clay	-1991	1112	-40	401	341	1655	447	2894	-635	4092	5061	2725	1471	52*
Clayton	-2044	492	-1356	-560	-1812	-225	-473	-544	-2174	1017	-2096	1058	7043	16855
Clinton	-6082	373	1689	5396	4942	345	1006	-2023	1562	2633	4436	1406	16419	16116
Crawford	-2160	-181	547	-1172	-797	-490	414	573	-1644	2791	6481	9883	2147	383*
Dallas	242	3428	1962	462	-988	-844	373	1492	570	2579	1733	6727	6775	4390
Davis	-792	897	-992	-760	-1177	-14	-1424	-741	-2305	362	-1210	903	1801	6500
Decatur	-1456	57	-802	-2062	-1411	-891	-1663	219	-1768	2472	307	3318	3341	7712
Delaware	-898	163	287	749	-753	365	-61	295	-1297	1836	-601	518	6408	9265
Des Moines	-3589	-779	2377	2549	5252	-1358	2642	-625	156	665	2225	5843	7645	6623
Dickinson	-720	3064	-9	-182	571	1203	741	2104	142	3667	2427	512	1209	180*
Dubuque	-7342	3136	10561	8711	7569	2554	2952	812	1047	6555	6852	4027	7805	20323
Emmet	-1767	-673	-862	769	696	550	229	2811	-120	5662	2724	158	1287	105*
Fayette	-3645	-1410	-1683	287	-857	6	-106	1332	-1926	6704	883	5285	4900	11248

\*County not officially organized at the beginning of the period.

Table 2. Population Change in Iowa's Counties, 1850-1990 (continued).

County	1980- 1990	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	-2539	-263	-1242	-403	1336	645	664	1741	-635	2330	747	3909	7024	3744*
Franklin	-1672	-219	-2217	-796	-111	-3	575	1027	-216	2125	2622	5511	3429	1309*
Fremont	-1175	119	-1000	-2041	-2322	-888	86	-176	-2923	1704	-810	6478	6100	3830
Greene	-2074	-597	-1663	-1165	-1055	71	61	444	-1797	2023	3070	8100	3253	1374*
Grundy	-2337	247	-13	410	204	-615	-287	846	-183	542	576	6240	5606	793*
Guthrie	-1048	-260	-1364	-1590	-2013	-114	-272	222	-1355	1349	2986	7333	4003	3058*
Hamilton	-1791	-521	-1649	372	-262	-1056	1447	289	-272	4195	4067	5197	4356	1699*
Hancock	-1195	327	-1098	-473	-325	600	79	1992	-1021	6131	4168	2454	820	179*
Hardin	-2682	-472	-285	315	-312	-417	-390	2416	-1873	3791	1196	4123	8244	5440*
Harrison	-1618	108	-1360	-1960	-3207	-2130	409	1326	-2435	4241	4707	7718	5310	3621*
Henry	336	776	-73	-521	714	334	-638	-342	-1382	1127	-2091	-477	2762	9994
Howard	-1305	-328	-1292	-371	-426	449	-623	785	-1592	3330	345	4555	3114	3168*
Humboldt	-1490	-273	-637	39	-342	257	251	769	-485	2831	4495	2745	2264	332*
Ida	-543	-375	-986	-428	-350	-886	244	393	-1031	1622	6323	4156	183	43*
Iowa	-799	10	-977	561	-1181	-316	-1268	191	-1135	1274	-951	2577	8615	7207
Jackson	-2553	1664	85	2132	-559	700	-1450	-1327	-2357	844	-1000	1152	4126	11283
Jasper	-1630	1000	143	2977	809	-1440	5081	821	58	2033	-1020	3847	12233	8603
Jefferson	-6	542	-44	122	-66	-479	-199	489	-1486	2253	-2285	-370	2801	5134
Johnson	14402	9590	18464	7907	12565	2915	3814	548	1097	1735	-2347	531	7325	13101
Jones	-957	533	-825	1292	-549	744	599	-443	-2904	1721	-819	1321	6425	10299
Keokuk	-1297	-1022	-1549	-1305	-1609	-742	-1835	-177	-3819	1117	2604	1824	6163	8449
Kossuth	-3300	-1046	-2377	-927	-389	1178	370	3111	-749	9600	6942	2827	2935	416*
Lee	-4419	110	-1211	1105	2028	-194	1592	2974	-3017	2004	2856	-2351	7978	10371
Linn	-1008	6562	26314	32625	15132	6806	8332	13284	5328	10089	8066	6157	12133	13503
Louisa	-463	1373	392	-811	-283	-191	-604	-676	-661	1643	-1269	265	2507	5431
Lucas	-1243	150	-760	-1146	-2502	-543	-572	2224	-2664	1563	33	4142	4622	5295
Lyon	-944	-444	-1128	-229	-677	81	-138	807	1459	4485	6712	1747	221*	*
Madison	-114	1039	-737	-836	-1394	194	-689	-601	-2089	1733	-1247	3340	6545	6160
Mahaska	-1335	690	-1425	-1070	-1813	681	-466	-3590	-4413	5468	3603	2694	7692	8827
Marion	332	3317	466	-44	-1089	1292	770	1962	-1164	1101	-2053	675	7623	11331
Marshall	-3376	576	3092	2373	205	1679	1097	2351	288	4149	2090	6176	11561	5677
Mills	-204	1574	-1218	-1014	-1000	-802	444	-389	-953	2216	411	5419	4237	4481*
Mitchell	-1401	-779	-935	98	-176	56	144	486	-1481	1617	-1064	4781	6173	3409*

Table 2. Population Change in Iowa's Counties, 1850-1990 (continued).

County	1980- 1990	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	-1658	-377	-1847	-2387	-1935	25	1088	492	-1347	3465	5460	5401	2822	832*
Monroe	-1095	-148	-1106	-1351	-2739	-457	-8457	-1962	7444	4319	-53	995	4112	5728
Montgomery	-1337	632	-1686	-1218	-12	-1055	-296	444	-1199	1955	-47	9961	4678	1256*
Muscatine	-529	3255	3341	1692	852	1911	343	-463	1263	3738	1334	1482	5244	10713
O'Brien	-1528	-550	-1318	-130	-323	884	-642	1789	277	3925	8905	3440	707	8*
Osceola	-1104	-184	-1509	-117	-426	425	-41	1267	231	3151	3355	2219*	*	*
Page	-2193	526	-2486	-2898	-966	-1017	1767	135	-185	2846	1674	9692	5556	3868
Palo Alto	-2052	-568	-1447	-1155	-279	772	-88	1641	-509	5036	5187	2795	1204	132*
Plymouth	-1355	421	416	654	-250	-657	575	455	920	2641	11002	6367	2051	148*
Pocahontas	-1844	-1424	-1441	-1262	-770	579	85	794	-531	5786	5840	2267	1343	103*
Polk	23970	17040	19815	40305	30175	22998	18808	43591	27814	17214	23015	14538	16232	7112
Pottawattamie	-3933	-430	3889	13420	2926	-3132	8338	5718	1496	6906	7580	22957	11925	-2860
Poweshiek	-273	503	-497	-44	586	31	-1183	321	175	1020	-542	3355	9913	5053
Ringgold	-692	-261	-1537	-1618	-1609	-829	-953	15	-2421	1769	1471	6394	2768	2923*
Sac	-1794	-1455	-1434	-511	-121	-2	141	945	-1084	3117	5748	7363	1165	246*
Scott	-9049	17335	23620	18369	15950	7416	3380	13952	8442	8394	1898	2667	12640	19973
Shelby	-1813	-485	-297	-117	-778	-411	1066	-487	-1380	321	4915	10156	1722	818*
Sioux	-910	2817	1621	-6	-828	403	348	1210	1911	4967	12944	4850	566	10*
Story	1926	9543	13456	5033	10860	2293	4956	2102	924	5032	1221	5255	7600	4051*
Tama	-2114	-614	-1266	-275	-740	441	126	-295	-2429	2533	467	5454	10846	5277
Taylor	-1239	-437	-1498	-2132	-1838	-601	-655	-798	-2472	2400	749	8646	3399	3386
Union	-1108	301	-155	-1939	-629	-1155	167	652	-3312	3028	1920	8994	3974	2012*
Van Buren	-950	-17	-1135	-1229	-1046	-550	-1457	-960	-2334	1101	-790	-629	591	4811
Wapello	-4545	-1908	-3977	-1271	3117	3800	2543	194	2317	5000	5141	2939	7828	6047
Warren	1155	7446	6603	3071	63	-5	-347	-147	-2182	2107	-1309	1598	7699	9320
Washington	-529	1174	-439	-151	-498	233	-599	496	-793	2250	-1906	1422	4717	9278
Wayne	-1132	-206	-1395	-1937	-1571	-479	-1591	-806	-1307	1821	-457	4840	4878	6069
Webster	-5611	-2438	581	3569	2720	1096	2814	2982	2872	10175	5631	5467	7980	2504*
Winnebago	-888	20	-109	-351	-522	829	-346	1575	-811	5400	2408	3355	1394	168*
Winneshiek	-1029	118	107	12	-624	633	-461	362	-2002	1203	-1410	368	9628	13396
Woodbury	-2608	-2168	-4797	3932	290	1958	9498	24555	13006	-1022	40636	8824	5053	1119*
Worth	-1084	91	-1275	-809	-381	285	-466	1680	-937	1640	1294	5061	2136	756*
Wright	-2050	-975	-2153	-205	-386	-178	-132	2397	-276	6170	6995	2670	1739	653*
State of Iowa	-136977	88440	67831	136464	82805	67329	66918	179250	-7082	319556	287682	430595	519107	482699
United States	22176102	23240168	23978856	27997387	19656523	8894229	17064426	13738354	15977691	13046861	12791931	10337334	8375128	8251445

Table 3. Percent Population Change in Iowa's Counties, 1850-1990.

County	1980- 1990	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	-11.6	0.2	-12.9	-11.4	-6.9	-5.0	-2.6	-1.1	-10.9	11.4	24.6	193.0	304.7	*
Adams	-15.1	-9.3	-15.3	-14.7	-13.8	-2.7	-0.8	-4.3	-19.1	10.6	3.4	157.7	201.0	*
Allamakee	-8.3	0.9	-6.3	-2.3	-4.8	5.2	-5.5	-0.2	-7.4	4.5	-9.5	10.8	46.0	1474.9
Appanoose	-11.4	3.4	-6.3	-18.6	-18.8	-2.4	-18.7	6.4	10.7	36.7	14.0	1.1	37.9	281.1
Audubon	-14.3	-10.8	-12.1	-5.7	-1.8	-3.9	-2.0	-1.2	-7.0	9.8	66.6	514.5	167.0	*
Benton	-5.2	3.3	-2.3	3.4	-1.0	0.1	-5.1	4.0	-8.0	4.1	-2.9	10.8	164.3	1164.3
Black Hawk	-10.3	3.8	8.5	21.9	25.6	15.6	22.2	26.1	38.5	33.8	1.3	10.2	163.3	6006.7
Boone	-3.8	-1.1	-5.6	-0.4	-5.5	1.7	-2.1	8.2	-2.0	18.6	14.1	42.9	244.6	475.8
Bremer	-8.1	9.2	7.7	11.8	5.3	5.2	1.9	5.6	-2.8	11.4	3.9	12.4	154.9	*
Buchanan	-9.0	5.2	-2.4	1.7	4.5	7.4	-1.7	0.7	-7.8	12.8	2.4	8.9	115.5	1429.2
Buena Vista	-3.9	0.4	-2.3	0.4	6.4	6.3	0.6	16.1	-5.9	25.3	79.8	375.5	2680.7	*
Butler	-11.0	4.2	-2.9	0.4	-3.3	2.1	-1.3	4.2	-4.7	16.1	8.2	43.6	167.2	*
Calhoun	-15.0	-5.2	-10.2	-5.9	-3.7	-0.1	-1.0	4.1	-8.0	41.7	134.3	249.3	989.8	*
Carroll	-6.7	0.2	-2.2	1.6	1.3	2.0	3.6	7.1	-1.0	7.9	52.4	403.9	772.2	*
Cass	-10.7	-0.4	-5.1	-3.3	-0.6	-4.0	0.0	2.0	-10.5	8.3	15.9	210.1	239.0	*
Cedar	-6.4	5.6	-0.8	5.2	0.2	0.7	-4.6	-1.2	-8.3	6.1	-3.6	-4.0	52.4	228.6
Cerro Gordo	-3.6	-1.6	-1.3	8.3	5.0	14.0	11.0	38.6	21.0	39.1	29.7	142.7	402.3	*
Cherokee	-13.2	-6.0	-7.1	-2.4	-1.1	2.8	5.5	6.1	1.0	5.8	90.0	318.9	3291.4	*
Chickasaw	-13.9	3.1	-0.4	-1.3	0.0	4.0	-5.1	0.4	-9.8	13.4	3.3	42.8	134.8	*
Clarke	-3.8	13.6	-7.8	-12.2	-8.4	-1.5	-1.2	-2.1	-13.7	9.8	-1.6	31.8	61.0	6769.6
Clay	-10.2	6.0	-0.2	2.2	1.9	10.3	2.9	22.7	-4.7	44.0	119.1	178.9	2828.8	*
Clayton	-9.7	2.4	-6.2	-2.5	-7.4	-0.9	-1.9	-2.1	-7.8	3.8	-7.3	3.8	34.0	435.2
Clinton	-10.6	0.7	3.1	10.9	11.1	0.8	2.3	-4.5	3.6	6.4	12.1	4.0	86.7	571.1
Crawford	-11.4	-0.9	2.9	-5.9	-3.9	-2.3	2.0	2.9	-7.6	14.8	52.2	390.6	560.6	*
Dallas	0.8	13.1	8.1	2.0	-4.0	-3.3	1.5	6.3	2.5	12.6	9.2	56.0	129.2	514.1
Davis	-8.7	10.9	-10.8	-7.6	-10.6	-0.1	-11.3	-5.6	-14.8	2.4	-7.3	5.8	13.1	89.5
Decatur	-14.9	0.6	-7.6	-16.4	-10.1	-6.0	-10.0	1.3	-9.8	15.8	2.0	27.6	38.5	799.2
Delaware	-4.7	0.9	1.6	4.2	-4.1	2.0	-0.3	1.6	-6.8	10.6	-3.3	3.0	58.1	526.7
Des Moines	-7.8	-1.7	5.3	6.1	14.3	-3.6	7.4	-1.7	0.4	1.9	6.7	21.4	39.0	51.0
Dickinson	-4.6	24.4	-0.1	-1.4	4.7	11.0	7.2	25.9	1.8	84.7	127.7	36.9	671.7	*
Dubuque	-7.8	3.5	13.2	12.2	11.9	4.2	5.1	1.4	1.9	13.1	15.9	10.3	25.0	187.5
Emmet	-13.2	-4.8	-5.8	5.5	5.2	4.3	1.8	28.6	-1.2	132.5	175.7	11.4	1225.7	*
Fayette	-14.3	-5.2	-5.9	1.0	-2.9	0.0	-0.4	4.8	-6.5	29.0	4.0	31.1	40.6	1363.4

\*County not officially organized at the beginning of the period.

Table 3. Percent Population Change in Iowa's Counties, 1850-1990 (continued).

County	1980- 1990	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	-13.0	-1.3	-5.9	-1.9	6.6	3.3	3.5	10.2	-3.6	15.1	5.1	36.3	187.6	*
Franklin	-12.8	-1.7	-14.3	-4.9	-0.7	-0.0	3.6	6.9	-1.4	16.5	25.6	116.3	262.0	*
Fremont	-12.5	1.3	-9.7	-16.6	-15.9	-5.7	0.6	-1.1	-15.8	10.1	-4.6	58.0	120.2	307.9
Greene	-17.1	-4.7	-11.6	-7.5	-6.4	0.4	0.4	2.8	-10.1	12.8	24.1	175.1	236.8	*
Grundy	-16.3	1.7	-0.1	3.0	1.5	-4.4	-2.0	6.2	-1.3	4.1	4.6	97.5	706.9	*
Guthrie	-8.7	-2.1	-10.0	-10.5	-11.7	-0.7	-1.5	1.3	-7.2	7.8	20.7	103.9	130.9	*
Hamilton	-10.0	-2.8	-8.2	1.9	-1.3	-5.0	7.4	1.5	-1.4	27.4	36.1	85.8	256.4	*
Hancock	-8.6	2.4	-7.5	-3.1	-2.1	4.1	0.5	15.6	-7.4	80.4	120.7	245.6	458.1	*
Hardin	-12.3	-2.1	-1.3	1.4	-1.4	-1.8	-1.7	11.5	-8.2	19.9	6.7	30.1	151.5	*
Harrison	-9.9	0.7	-7.7	-10.0	-14.1	-8.6	1.7	5.7	-9.5	19.9	28.3	86.4	146.6	*
Henry	1.8	4.3	-0.4	-2.8	4.0	1.9	-3.5	-1.8	-6.9	6.0	-10.0	-2.2	14.8	114.8
Howard	-11.7	-2.9	-10.1	-2.8	-3.1	3.4	-4.5	6.1	-11.0	29.8	3.2	72.5	98.3	*
Humboldt	-12.2	-2.2	-4.8	0.3	-2.5	1.9	1.9	6.3	-3.8	28.8	84.2	105.7	681.9	*
Ida	-6.1	-4.0	-9.6	-4.0	-3.2	-7.4	2.1	3.5	-8.4	15.2	144.3	1838.9	425.6	*
Iowa	-5.2	0.1	-6.0	3.5	-6.9	-1.8	-6.8	1.0	-5.8	7.0	-4.9	15.5	107.3	876.8
Jackson	-11.3	8.0	0.4	11.4	-2.9	3.8	-7.3	-6.2	-10.0	3.7	-4.2	5.1	22.3	156.5
Jasper	-4.5	2.8	0.4	9.2	2.6	-4.4	18.2	3.0	0.2	8.2	-3.9	17.4	123.8	672.1
Jefferson	-0.0	3.4	-0.3	0.8	-0.4	-2.9	-1.2	3.1	-8.5	14.8	-13.1	-2.1	18.6	51.8
Johnson	17.6	13.3	34.4	17.3	37.9	9.6	14.4	2.1	4.4	7.5	-9.2	2.1	41.7	293.0
Jones	-4.7	2.7	-4.0	6.7	-2.8	3.9	3.2	-2.3	-13.2	8.5	-3.9	6.7	48.3	342.5
Keokuk	-10.0	-7.3	-10.0	-7.8	-8.7	-3.9	-8.7	-0.8	-15.3	4.7	12.2	9.4	46.4	175.2
Kossuth	-15.1	-4.6	-9.4	-3.5	-1.5	4.6	1.5	14.2	-3.3	73.2	112.4	84.4	705.5	*
Lee	-10.3	0.3	-2.7	2.6	4.9	-0.5	4.0	8.1	-7.6	5.3	8.2	-6.3	27.3	55.0
Linn	-0.6	4.0	19.2	31.3	17.0	8.3	11.3	21.9	9.6	22.3	21.7	19.8	64.0	248.0
Louisa	-3.8	12.9	3.8	-7.3	-2.5	-1.7	-5.0	-5.3	-4.9	13.8	-9.7	2.1	24.2	110.0
Lucas	-12.1	1.5	-7.0	-9.5	-17.2	-3.6	-3.6	16.5	-16.5	10.7	0.2	39.9	80.2	1124.2
Lyon	-7.3	-3.3	-7.8	-1.6	-4.4	0.5	-0.9	5.5	11.1	51.7	341.1	790.5	*	*
Madison	-0.9	9.0	-6.0	-6.4	-9.6	1.4	-4.6	-3.8	-11.8	10.8	-7.2	24.1	89.2	522.5
Mahaska	-5.8	3.1	-6.0	-4.3	-6.8	2.6	-1.8	-12.0	-12.9	19.0	14.3	12.0	51.9	147.4
Marion	1.1	12.6	1.8	-0.2	-4.0	5.0	3.1	8.5	-4.8	4.8	-8.2	2.8	45.3	206.7
Marshall	-8.1	1.4	8.1	6.7	0.6	5.0	3.4	7.8	1.0	16.1	8.8	35.1	192.2	1679.6
Mills	-1.5	13.3	-9.3	-7.2	-6.6	-5.1	2.9	-2.5	-5.7	15.2	2.9	62.2	94.6	*
Mitchell	-11.4	-5.9	-6.7	0.7	-1.2	0.4	1.0	3.6	-9.9	12.2	-7.4	49.9	181.1	*

Table 3. Percent Population Change in Iowa's Counties, 1850-1990 (continued).

County	1980- 1990	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	-14.2	-3.1	-13.3	-14.6	-10.6	0.1	6.4	3.0	-7.5	23.9	60.3	147.8	339.2	*
Monroe	-11.9	-1.6	-10.6	-11.4	-18.8	-3.0	-36.0	-7.7	41.4	31.6	-0.4	7.8	47.7	198.6
Montgomery	-10.0	4.9	-11.7	-7.8	-0.1	-6.3	-1.7	2.7	-6.7	12.3	-0.3	167.9	372.5	*
Muscatine	-1.3	8.8	9.9	5.3	2.7	6.5	1.2	-1.6	4.5	15.3	5.8	6.8	31.9	186.9
O'Brien	-9.0	-3.1	-7.0	-0.7	-1.7	4.8	-3.4	10.4	1.6	30.1	214.3	481.1	8837.5	*
Osceola	-13.2	-2.2	-15.0	-1.1	-4.0	4.2	-0.4	14.1	2.6	56.5	151.2	*	*	*
Page	-11.5	2.8	-11.8	-12.1	-3.9	-3.9	7.3	0.6	-0.8	13.3	8.5	97.2	125.7	702.0
Palo Alto	-16.1	-4.3	-9.8	-7.3	-1.7	5.0	-0.6	11.9	-3.5	54.0	125.6	209.2	912.1	*
Plymouth	-5.5	1.7	1.7	2.8	-1.1	-2.7	2.4	2.0	4.1	13.5	128.4	289.5	1385.8	*
Pocahontas	-16.2	-11.1	-10.1	-8.1	-4.7	3.7	0.5	5.4	-3.5	60.6	157.3	156.8	1303.9	*
Polk	7.9	6.0	7.4	17.8	15.4	13.3	12.2	39.5	33.7	26.3	54.3	52.2	139.6	157.6
Pottawattamie	-4.5	-0.5	4.7	19.3	4.4	-4.5	13.5	10.2	2.8	14.6	19.0	135.9	240.0	-36.5
Poweshiek	-1.4	2.7	-2.6	-0.2	3.1	0.2	-5.9	1.6	0.9	5.5	-2.9	21.5	174.9	821.6
Ringgold	-11.3	-4.1	-19.4	-17.0	-14.4	-6.9	-7.4	0.1	-15.8	13.0	12.2	112.4	94.7	*
Sac	-12.7	-9.3	-8.4	-2.9	-0.7	-0.0	0.8	5.7	-6.1	21.5	65.5	521.8	473.6	*
Scott	-5.7	12.1	19.8	18.2	18.8	9.6	4.6	23.3	16.4	19.4	4.6	6.9	48.7	333.7
Shelby	-12.1	-3.1	-1.9	-0.7	-4.7	-2.4	6.6	-2.9	-7.7	1.8	38.7	399.8	210.5	*
Sioux	-3.0	10.1	6.1	-0.0	-3.0	1.5	1.3	4.8	8.2	27.0	238.6	842.0	5660.0	*
Story	2.7	15.2	27.3	11.4	32.5	7.4	18.9	8.7	4.0	27.8	7.2	45.1	187.6	*
Tama	-10.8	-3.0	-5.9	-1.3	-3.3	2.0	0.6	-1.3	-9.9	11.5	2.2	33.8	205.2	65962.5
Taylor	-14.8	-5.0	-14.6	-17.2	-12.9	-4.0	-4.2	-4.9	-13.2	14.6	4.8	123.7	94.7	1659.8
Union	-8.0	2.2	-1.1	-12.4	-3.9	-6.6	1.0	3.9	-16.6	17.9	12.8	150.3	197.5	*
Van Buren	-11.0	-0.2	-11.6	-11.2	-8.7	-4.4	-10.4	-6.4	-13.4	6.8	-4.6	-3.6	3.5	39.2
Wapello	-11.3	-4.5	-8.6	-2.7	7.0	9.4	6.7	0.5	6.5	16.4	20.3	13.2	53.9	71.4
Warren	3.3	27.1	31.7	17.3	0.4	-0.0	-1.9	-0.8	-10.7	11.5	-6.7	8.9	74.9	969.8
Washington	-2.6	6.2	-2.3	-0.8	-2.5	1.2	-2.9	2.5	-3.8	12.2	-9.4	7.5	33.1	187.2
Wayne	-13.8	-2.5	-14.2	-16.5	-11.8	-3.5	-10.3	-5.0	-7.5	11.6	-2.8	42.9	76.1	1785.0
Webster	-12.2	-5.0	1.2	8.1	6.6	2.7	7.5	8.6	9.0	47.1	35.3	52.1	318.7	*
Winnebago	-6.8	0.2	-0.8	-2.6	-3.7	6.3	-2.6	13.2	-6.4	73.7	49.0	214.8	829.8	*
Winneshiek	-4.7	0.5	0.5	0.1	-2.8	2.9	-2.1	1.7	-8.4	5.3	-5.9	1.6	69.1	2453.5
Woodbury	-2.6	-2.1	-4.4	3.8	0.3	1.9	10.3	36.3	23.8	-1.8	271.0	143.0	451.6	*
Worth	-11.9	1.0	-12.4	-7.3	-3.3	2.6	-4.0	16.9	-8.6	17.7	16.3	175.0	282.5	*
Wright	-12.6	-5.6	-11.1	-1.0	-1.9	-0.9	-0.6	13.4	-1.5	51.2	138.2	111.6	266.3	*
State of Iowa	-4.7	3.1	2.5	5.2	3.3	2.7	2.8	8.1	-0.3	16.7	17.7	36.1	76.9	251.1
United States	9.8	11.4	13.4	18.5	14.5	7.2	16.1	14.9	21.0	20.7	25.5	26.0	26.6	35.6

Table 4. Population Change (1850-1900, 1900-1950, 1950-1990), Decades of Population Increase, and Year Census Count Highest in Iowa's Counties.

County	Population Change					Number of Decades of Population Increase			Year Census Count Highest	
	1850-1900		1900-1950		1950-1990		1850-1900	1900-1950		1950-1990
	Number	Number	Percent	Number	Percent	Number	Percent	Number		Percent
Adair	16192	-3900	-24.1	-3883	-31.6	5	0	1	1900	
Adams	13601	-4848	-35.6	-3887	-44.4	5	0	0	1900	
Allamakee	17934	-2360	-12.6	-2496	-15.3	4	1	1	1880	
Appanoose	22796	-6244	-24.1	-5940	-30.2	5	2	1	1920	
Audubon	13626	-2047	-15.0	-4245	-36.7	5	0	0	1900	
Benton	24505	-2521	-10.0	-227	-1.0	4	2	2	1900	
Black Hawk	32264	68049	210.0	23350	23.2	5	5	3	1980	
Boone	27465	-61	-0.2	-2953	-10.5	5	2	0	1920	
Bremer	16305	2579	15.8	3929	20.8	5	4	3	1980	
Buchanan	20910	500	2.3	-1083	-4.9	5	3	2	1980	
Buena Vista	16975	4138	24.4	-1148	-5.4	5	4	2	1960	
Butler	17955	-561	-3.1	-1663	-9.6	5	2	2	1940	
Calhoun	18569	-1644	-8.8	-5417	-32.0	5	1	0	1900	
Carroll	20319	2746	13.5	-1642	-7.1	5	4	2	1960	
Cass	21274	-2742	-12.9	-3404	-18.4	5	2	0	1900	
Cedar	15430	-2461	-12.7	534	3.2	3	2	2	1870	
Cerro Gordo	20672	25381	122.8	680	1.5	5	5	1	1960	
Cherokee	16570	2482	15.9	-4954	-26.0	5	4	0	1940	
Chickasaw	17037	-1809	-10.6	-1933	-12.7	5	3	1	1900	
Clarke	12361	-3071	-24.7	-1082	-11.6	4	0	1	1900	
Clay	13401	4702	35.1	-518	-2.9	5	4	2	1980	
Clayton	23877	-5228	-18.8	-3468	-15.4	4	0	1	1880	
Clinton	41010	5832	13.3	1376	2.8	5	4	3	1980	
Crawford	21685	-1944	-9.0	-2966	-15.0	5	2	1	1900	
Dallas	22204	603	2.6	6094	25.8	5	3	4	1990	
Davis	8356	-5661	-36.2	-1647	-16.5	4	0	1	1880	
Decatur	17150	-5514	-30.4	-4263	-33.8	5	1	1	1900	
Delaware	17426	-1451	-7.6	301	1.7	4	2	3	1900	
Des Moines	23001	6067	16.9	558	1.3	5	3	2	1970	
Dickinson	7995	4761	59.6	2153	16.9	5	5	1	1980	
Dubuque	45562	14934	26.5	15066	21.1	5	5	3	1980	
Emmet	9936	4166	41.9	-2533	-18.0	5	4	1	1960	
Fayette	29020	-1551	-5.2	-6451	-22.8	5	2	1	1900	
Floyd	17754	3751	21.1	-4447	-20.7	5	4	0	1950	
Franklin	14996	1272	8.5	-4904	-30.2	5	2	0	1930	
Fremont	17302	-6223	-33.6	-4097	-33.2	4	1	1	1900	
Greene	17820	-2276	-12.8	-5499	-35.4	5	3	0	1900	
Grundy	13757	-35	-0.2	-1693	-12.3	5	2	2	1920	
Guthrie	18729	-3532	-18.9	-4262	-28.0	5	1	0	1900	
Hamilton	19514	146	0.8	-3589	-18.3	5	2	1	1930	
Hancock	13752	1325	9.6	-2439	-16.2	5	3	1	1940	
Hardin	22794	-576	-2.5	-3124	-14.1	5	1	1	1920	
Harrison	25597	-6037	-23.6	-4830	-24.7	5	2	1	1900	
Henry	11315	-1314	-6.6	518	2.8	3	2	2	1870	
Howard	14512	-1407	-9.7	-3296	-25.2	5	2	0	1900	
Humboldt	12667	450	3.6	-2361	-18.0	5	3	1	1940	
Ida	12327	-1630	-13.2	-2332	-21.8	5	2	0	1900	
Iowa	18722	-3709	-19.0	-1205	-7.6	4	1	2	1900	
Jackson	16405	-4993	-21.1	1328	7.1	4	1	3	1880	
Jasper	25696	5329	19.8	2490	7.7	4	4	3	1980	



Table 4. Population Change (1850-1900, 1900-1950, 1950-1990), Decades of Population Increase, and Year Census Count Highest in Iowa's Counties (continued).

County	Population Change					Number of Decades of Population Increase			Year Census Count Highest	
	1850-1900		1900-1950		1950-1990		1850-1900	1900-1950		1950-1990
	Number	Number	Percent	Number	Percent	Number	Percent	Number		Percent
Jefferson	7533	-1741	-10.0	614	3.9	3	1	2	1870	
Johnson	20345	20939	84.4	50363	110.1	4	5	4	1990	
Jones	18947	-2553	-11.6	43	0.2	4	2	2	1900	
Keokuk	20157	-8182	-32.8	-5173	-30.8	5	0	0	1900	
Kossuth	22720	3521	15.5	-7650	-29.2	5	3	0	1940	
Lee	20858	3383	8.5	-4415	-10.2	4	3	2	1960	
Linn	49948	48882	88.2	64493	61.8	5	5	3	1980	
Louisa	8577	-2415	-17.9	491	4.4	4	0	2	1900	
Lucas	15655	-4057	-25.2	-2999	-24.8	5	1	1	1900	
Lyon	13165	1532	11.6	-2745	-18.7	4	3	0	1920	
Madison	16531	-4579	-25.9	-648	-4.9	4	1	1	1900	
Mahaska	28284	-9601	-28.0	-3140	-12.7	5	1	1	1900	
Marion	18677	1771	7.3	4071	15.7	4	3	3	1990	
Marshall	29653	5620	18.7	2665	7.5	5	5	3	1980	
Mills	16764	-2700	-16.1	-862	-6.1	5	1	1	1900	
Mitchell	14916	-971	-6.5	-3017	-21.6	4	3	1	1900	
Monona	17980	-1677	-9.3	-6269	-38.4	5	3	0	1940	
Monroe	15101	-6171	-34.3	-3700	-31.3	4	1	0	1910	
Montgomery	17803	-2118	-11.9	-3609	-23.0	4	1	1	1900	
Muscatine	22511	3906	13.8	7759	24.1	5	4	3	1980	
O'Brien	16985	1985	11.7	-3526	-18.6	5	3	0	1940	
Osceola	8725	1456	16.7	-2914	-28.6	3	3	0	1940	
Page	23636	-266	-1.1	-7051	-29.5	5	2	1	1930	
Palo Alto	14354	1537	10.7	-5222	-32.9	5	2	0	1940	
Plymouth	22209	1043	4.7	136	0.6	5	3	3	1980	
Pocahontas	15339	157	1.0	-5971	-38.5	5	3	0	1940	
Polk	78111	143386	173.5	101130	44.8	5	5	4	1990	
Pottawattamie	46508	15346	28.2	12946	18.6	4	4	2	1970	
Poweshiek	18799	-70	-0.4	-311	-1.6	4	4	1	1920	
Ringgold	15325	-5797	-37.8	-4108	-43.1	5	1	0	1900	
Sac	17639	-121	-0.7	-5194	-29.6	5	2	0	1930	
Scott	45572	49140	95.3	50275	49.9	5	5	3	1980	
Shelby	17932	-1990	-11.1	-2712	-17.0	5	1	0	1900	
Sioux	23337	3044	13.0	3522	13.4	5	4	2	1980	
Story	23159	21135	91.3	29958	67.6	5	5	4	1990	
Tama	24577	-2897	-11.8	-4269	-19.7	5	2	0	1900	
Taylor	18580	-6364	-33.9	-5306	-42.7	5	0	0	1900	
Union	19928	-4277	-21.5	-2901	-18.5	5	2	1	1900	
Van Buren	5084	-6347	-36.6	-3331	-30.3	3	0	0	1870	
Wapello	26955	11971	33.8	-11701	-24.7	5	5	0	1950	
Warren	19415	-2618	-12.8	18275	102.9	4	1	4	1990	
Washington	15761	-1161	-5.6	55	0.3	4	2	1	1900	
Wayne	17151	-5754	-32.9	-4670	-39.8	4	0	0	1900	
Webster	31757	12484	39.3	-3899	-8.8	5	5	2	1970	
Winnebago	12725	725	5.7	-1328	-9.9	5	2	1	1940	
Winneshiek	23185	-2092	-8.8	-792	-3.7	4	2	3	1880	
Woodbury	54610	49307	90.3	-5641	-5.4	4	5	1	1960	
Worth	10887	181	1.7	-3077	-27.8	5	2	1	1920	
Wright	18227	1425	7.8	-5383	-27.4	5	1	0	1920	
State of Iowa	2039639	389220	17.4	155758	5.9	5	4	3	1980	
United States	97392503	75331223	99.1	97392503	64.4	5	5	4	1990	

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 percent. All of these nine contained substantial cities. Johnson and Story led with increases greater than 30 percent 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's growth was considerably slower in the first half of the twentieth century than it had been in the last half of the 1800s. Fewer than 400,000 residents were added from 1900 to 1950, which was an increase of 17.4 percent. Fifty-five counties had fewer residents in 1950 than they counted in 1900 (Table 4). Drops of at least 5,000 occurred in 13, topped by declines greater than 8,000 in Keokuk and Mahaska. Most of the counties with relatively large decreases were located in the southern section of the state. Of the 44 counties gaining population in the first half of this century, 16 added at least 5,000. Polk's increase of more than 143,000 doubled the next greatest increase (Black Hawk, +68,000). Three others gained nearly 50,000 in 50 years (Linn, +48,900; Scott, +49,100; Woodbury, +49,300). Thirteen counties (Black Hawk, Cerro Gordo, Dickinson, Dubuque, Johnson, Linn, Marshall, Polk, Scott, Story, Wapello, Webster, Woodbury) increased their counts each decade from 1900 to 1950; these tended to be Iowa's most urban counties. In contrast, 11 counties (Adair, Adams, Audubon, Clarke, Clayton, Davis, Keokuk, Louisa, Taylor, Van Buren, Wayne) declined each decade from the beginning of this century to 1950.

### 1950 to 1990

Iowa experienced an upsurge in population in the 1950s, when it increased by more than 5 percent 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 percent and eight of these also had more than 10 percent growth the previous decade as well. Still, 58 counties declined, 16 losing more than 10 percent. Eight counties (Adams, Appanoose, Decatur, Fremont, Monona, Ringgold, Taylor, Wayne) were down at least 14 percent and all of them had lost at least 10 percent 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 percent. This time 74 counties experienced population declines, more than in any previous decade. Twenty-two had losses of at least 10 percent. 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 percent occurred in Johnson (+34.4%), Story (+27.3%), and Warren (+31.7%).

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 percent. 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 24.4 percent in Dickinson and 27.1 percent 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 2.9 million.

Population trends turned quite negative in the 1980s, when the number of Iowans dropped by 137,000 (-4.7%). Seven counties (Dallas, Henry, Johnson, Marion, Polk, Story, Warren) gained population from 1980 to 1990 (Figures 3, 4). The increases of 24,000 in Polk and 14,400 in Johnson were the only ones topping 2,000; these two counties also had the only gains above 5 percent (Polk, +7.9%; Johnson, +17.6%). Declines were greater than 5,000 in five counties (Black Hawk, -14,200; Clinton, -6,100; Dubuque, -7,300; Scott, -9,000; Webster, -5,600) and between 1,000 and 4,999 in 65. Forty-eight

counties had decreases of at least 10 percent in the 1980s (Figure 5). Seven of these declines were 15 percent or greater (Adams, -15.1%; Calhoun, -15.0%; Greene, -17.1%; Grundy, -16.3%; Kossuth, -15.1%; Palo Alto, -16.1%; Pocahontas, -16.2%).

Growth in population for the state continued to slow in the second half of this century. About 156,000 more people lived in Iowa in 1990 than in 1950, which was an increase of 5.9 percent (Table 4). But much of the gain that occurred in the 1960s and 1970s was negated by decline in the 1980s. Fifteen counties lost at least 5,000 residents in the last 40 years, with the greatest loss in Wapello (-11,700); another 49 counties were down by 1,000-4,999. Yet the state's population grew because some counties had large increases. Eight gained 1,000-4,999 residents and 11 added at least 5,000 residents. Four (Johnson, Linn, Polk, Scott) jumped by at least 50,000, with Polk topping the list with 101,000 more residents in 1990 than in 1950.

Only five counties (Dallas, Johnson, Polk, Story, Warren) grew in each of the four decades between 1950 and 1990; 30 decreased in each. Indeed, declines were noted in Adams, Audubon, Keokuk, Taylor, Van Buren, and Wayne between every census since 1900; 28 others reported growth in only one or two of the last nine decades. On the other hand, Johnson, Polk, and Story gained population every 10 years since 1900; another 11 (Black Hawk, Bremer, Clinton, Dallas, Dubuque, Jasper, Linn, Marshall, Muscatine, Scott, Webster) increased in seven or eight of the decades since the turn of the century. Some radical changes in population trends are evident when the first and second parts of this century are compared. Warren, for example, gained population in only one decade from 1900 to 1950, but it increased in each one from 1950 to 1990. Wapello, on the other hand, grew between each census conducted from 1900 through 1950 but has declined in each one since. Cerro Gordo, Dickinson, and Woodbury each gained throughout the first half of the century, but they had increases in only one decade since 1950. Cherokee and Floyd reported higher populations at the end of all decades except one from 1900 to 1950, but neither grew between any of the censuses from 1950 to 1990.

### Concluding Comments

Growth between 1850 and 1900 resulted in only three Iowa counties with populations under 10,000 at the turn of the century. But the 90 years since then are characterized by two diverse trends for counties. Some declined; in 1990, 18 had fewer than 10,000 residents. Nine counties reported less than half the residents in 1990 than they had counted in 1900. Others grew; six counties had populations greater than 50,000 in 1900, although only one (Polk) was above 60,000; 10 exceeded 50,000 in 1990, but only one was in the 50,000-60,000 range. Among those that increased over this century, two more than doubled their populations when 1900 and 1990 were compared, and five more than tripled their totals. These contrary trends temper the general growth reported for the state. Such differences should be expected to continue through future censuses.

**Figure 1. Population in Iowa, 1850-1990.**

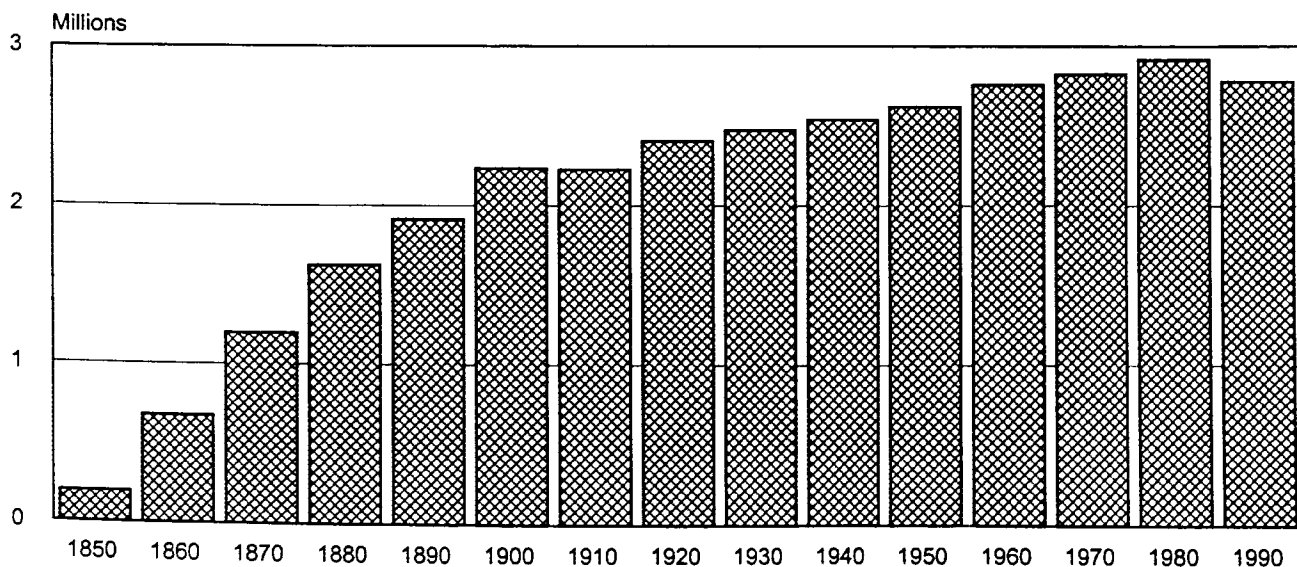


Figure 2. Historical population peaks, 1850–1990.

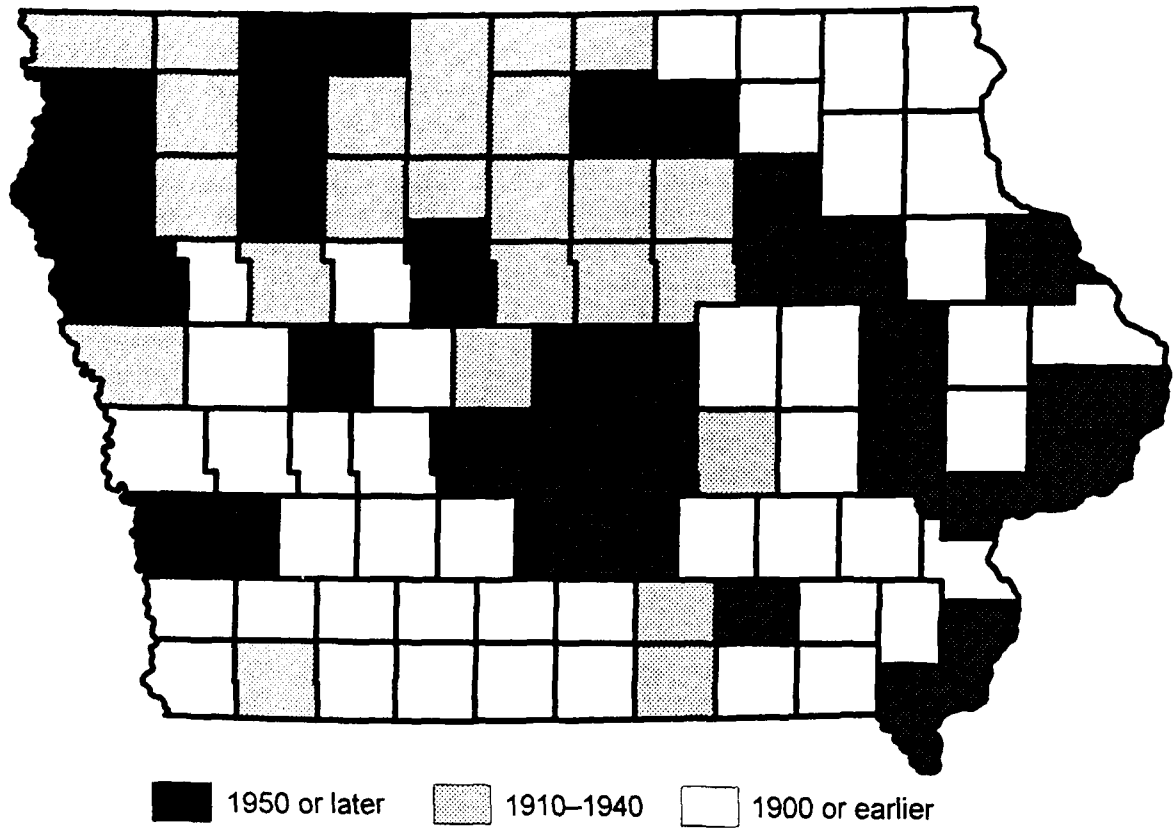


Figure 3. Population change, 1980–1990.

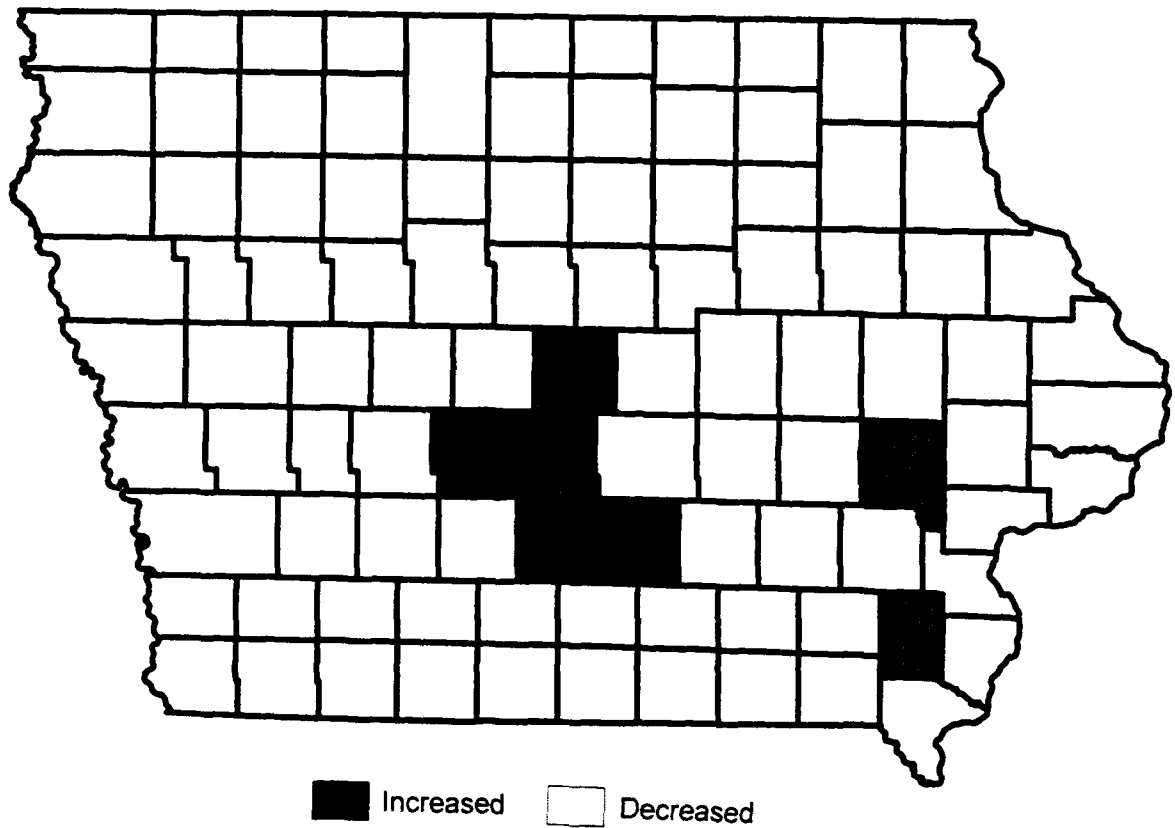


Figure 4. Percent increase, 1980–1990.

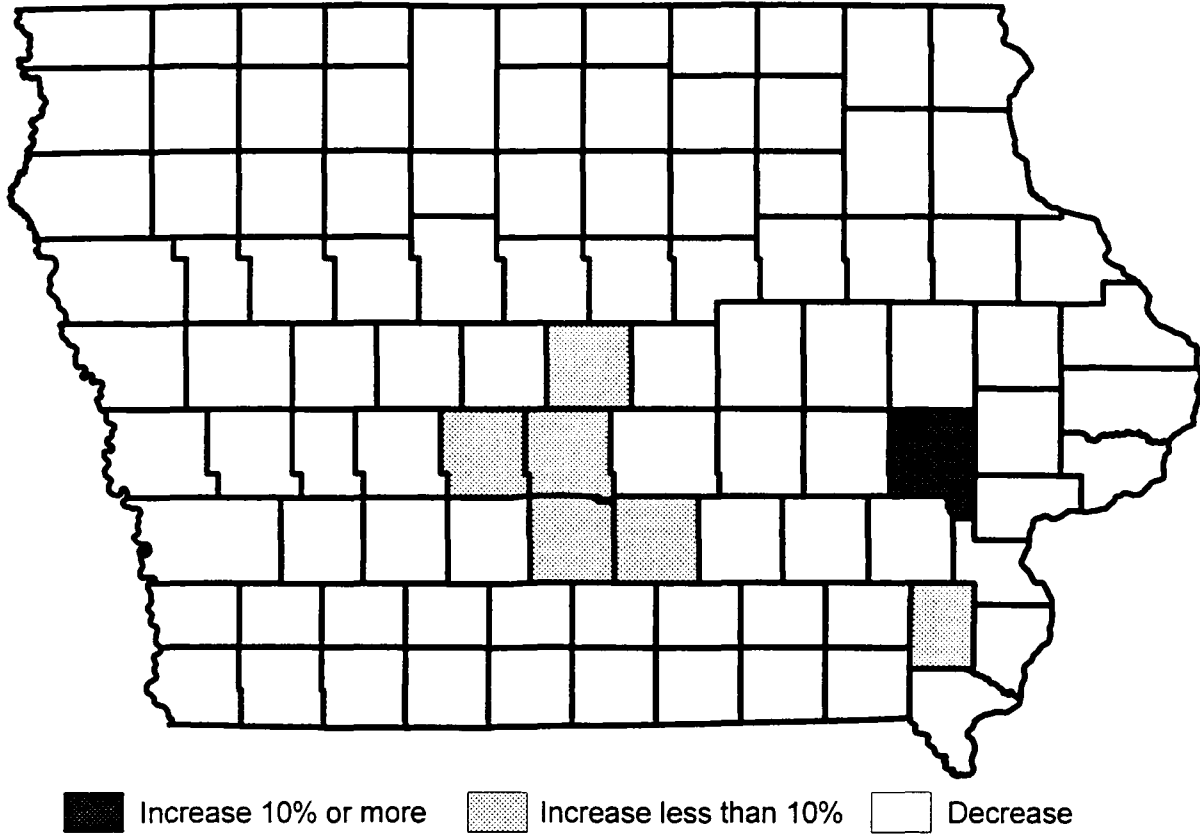
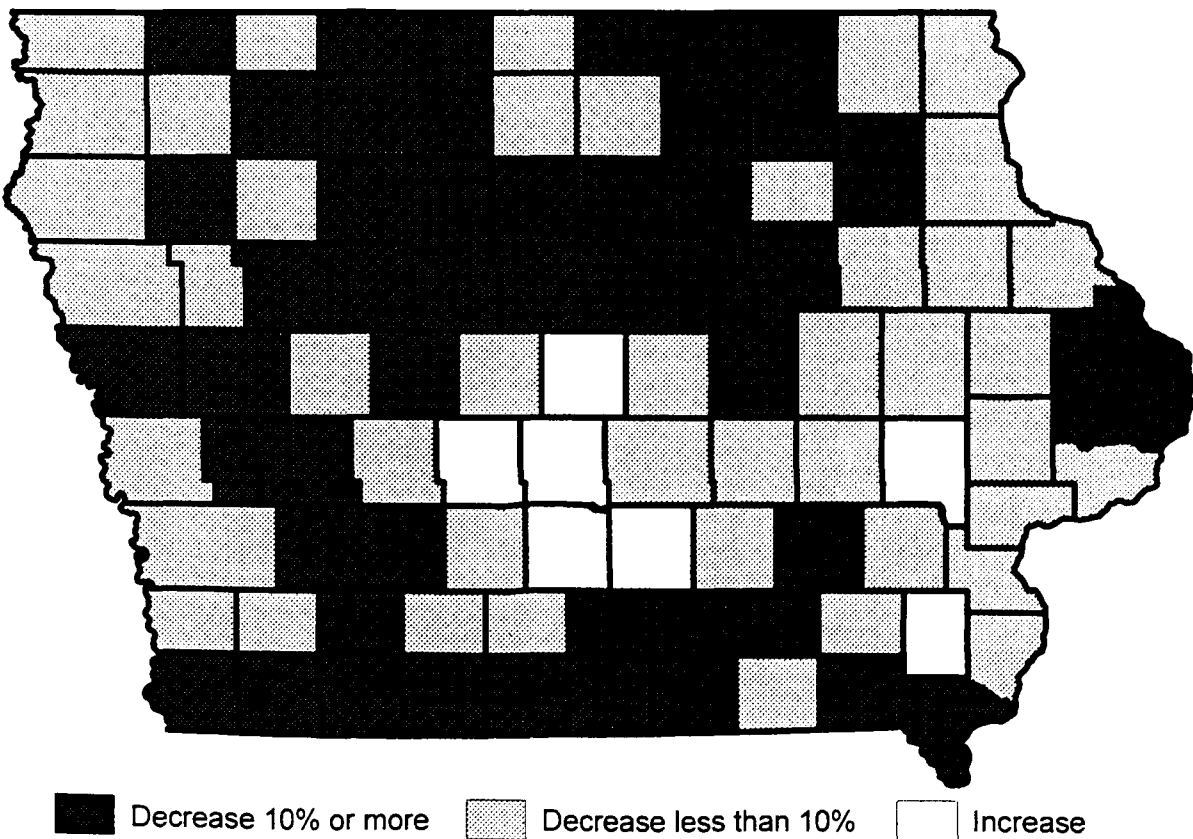
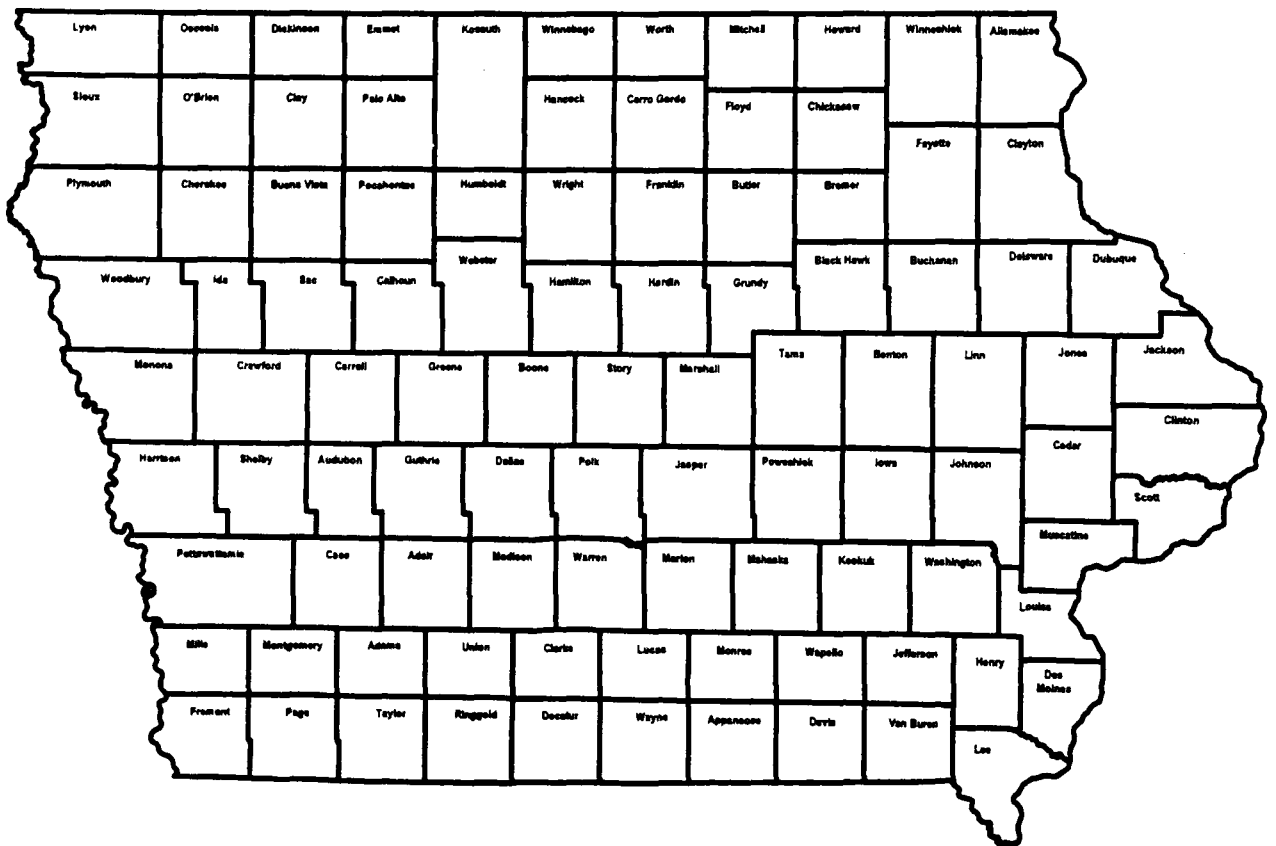


Figure 5. Percent decrease, 1980–1990.





## Births, Deaths, and Natural Change in Iowa's Counties: 1939-1999

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The Iowa Department of Public Health records vital statistics for Iowa and its counties. Data for 1999 were released for births and deaths in the summer of 2000. 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 recorded 37,549 births in 1999, an increase of 287 from 1998 and the highest number since 1993 (Table 1, Figure 1). In the 1990s, births increased from 1995 to 1996 and from 1997 to 1999. Nearly 1,400 fewer births occurred in 1999 than 10 years earlier. When 1999 and 1979 were compared, the difference was more than 9,200. The greatest decline (-2,434) between adjacent years in the 1989-1999 period occurred from 1985 to 1986; the gain of 621 between 1997 and 1998 was the highest over the same period.

Comparison of the most recent years indicates that 45 counties had fewer births in 1999 than in 1998, 52 had more births in the more recent year, and two had the same number both years. Increases in the number of births ranged from less than 10 in 14 counties to at least 20 in 18 others, with the greatest increase occurring in Linn, the only one gaining more than 100. Declines from 1998 to 1999 ranged from less than 10 in 19 counties to 20 or more in 12 others, although decreases exceeded 50 only in Benton, Delaware, and Scott.

Seventy-two counties had fewer births in 1999 than in 1989, indicating that most areas of Iowa reflected the state's trend. Only Linn, Polk, and Woodbury had at least 100 more births in 1999 than 10 years earlier. Cerro Gordo, Scott, and Webster each had at least 100 fewer births in 1999 than in 1989. Only Dallas, Johnson, Linn, Madison, and Polk had more births in 1999 than in 1979.

### Deaths

The number of deaths in Iowa has fluctuated much less than the number of births (Figure 1). The 28,339 deaths in 1999 outnumbered the 27,147 counted in 1989 by nearly 1,200 (Table 2). Indeed, the 1999 total was greater than that in any other year since 1974. The change between adjacent years was greatest for 1992-1993; there were 1,371 more deaths in 1993 than in 1992. From 1989 through 1999, changes from one year to the next exceeded 1,000 only in the 1992-1993 comparison and decreased about as frequently as they increased from one year to the next.

Fifty counties had more deaths in 1999 than the previous year. The increase was less than 10 in 15 counties and at least 50 only in Linn. Forty-seven counties had fewer deaths in 1999 than in 1998; 14 had less than 10 fewer deaths in the more recent year, with Cerro Gordo, Hardin, Polk, and Woodbury each declining by at least 50 deaths between 1998 and 1999.

### 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 every year since records began to be kept in 1915. But births outnumbered deaths by a smaller margin

Table 1. Births in Iowa's Counties, 1939-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Adair	71	76	68	61	80	93	74	105	87	102	109	114	172	126	131	157	197	218	261	233	228
Adams	47	50	33	48	36	64	51	41	64	60	70	73	83	77	77	94	147	183	178	163	191
Allamakee	186	172	165	173	157	158	176	199	174	177	214	219	224	186	217	300	418	419	408	251	281
Appanoose	158	153	141	168	147	152	164	174	170	166	166	197	256	197	199	227	278	321	308	393	437
Audubon	68	72	82	63	75	88	72	70	76	91	83	135	125	111	111	192	215	273	249	212	215
Benton	265	325	281	264	298	292	308	304	336	318	292	328	367	293	370	456	499	542	510	395	420
Black Hawk	1594	1638	1586	1601	1509	1605	1774	1651	1732	1699	1687	2093	2369	2004	2457	2790	3332	2829	2622	1606	1375
Boone	318	295	289	299	309	313	274	289	312	329	309	333	382	280	377	413	501	524	539	446	410
Bremer	236	210	219	234	249	243	272	259	237	242	256	306	384	273	386	389	523	461	428	307	352
Buchanan	298	309	284	286	283	314	277	327	302	302	336	381	421	341	407	431	514	514	535	374	346
Buena Vista	254	236	259	228	219	243	238	274	265	287	253	290	302	250	286	345	435	540	525	314	330
Butler	159	162	160	148	166	163	169	159	162	184	180	242	269	241	264	309	337	364	419	283	298
Calhoun	103	114	97	115	114	106	90	120	111	130	124	140	193	161	186	259	311	391	395	337	328
Carroll	252	246	238	260	283	269	258	271	278	320	292	384	422	314	417	588	680	658	641	484	470
Cass	155	144	160	152	152	150	178	169	205	192	192	255	274	245	251	308	397	393	397	352	295
Cedar	181	185	198	195	204	193	203	197	217	221	224	253	285	200	225	271	358	368	406	279	240
Cerro Gordo	551	525	525	600	591	587	592	600	621	686	657	679	697	626	731	908	1095	1205	1104	742	833
Cherokee	134	131	142	115	134	157	141	158	153	200	177	207	251	216	280	328	382	426	461	304	292
Chickasaw	138	126	157	123	152	169	179	166	166	199	182	224	273	266	250	327	345	336	381	270	284
Clarke	107	99	83	87	102	82	81	105	105	106	121	104	122	97	102	116	180	152	176	145	192
Clay	195	179	197	188	206	219	190	235	258	239	260	260	342	258	279	312	405	451	430	361	315
Clayton	193	207	195	176	206	207	242	228	254	242	262	282	330	320	313	401	516	451	520	386	451
Clinton	629	677	629	602	657	645	680	680	685	685	674	788	936	815	959	1125	1266	1147	1114	845	697
Crawford	205	193	211	232	178	176	208	196	205	228	204	256	306	297	288	381	418	423	475	366	294
Dallas	504	527	482	501	477	440	425	422	426	409	445	454	444	363	444	470	494	496	504	396	392
Davis	102	102	119	128	94	127	118	107	127	128	116	128	162	105	112	127	161	185	192	161	202
Decatur	90	92	98	97	97	113	88	88	94	91	99	112	130	104	109	126	188	241	244	236	254
Delaware	196	247	208	233	213	268	262	261	271	285	264	311	363	269	346	430	489	452	465	343	375
Des Moines	520	514	549	565	523	524	558	568	580	568	582	650	757	617	790	961	960	980	953	759	535
Dickinson	172	176	169	148	137	148	127	152	163	160	158	195	238	189	172	203	240	276	281	183	222
Dubuque	1154	1152	1143	1197	1188	1176	1252	1168	1231	1260	1184	1362	1617	1428	1768	2217	2335	2111	1919	1233	1139
Emmet	124	126	118	134	108	109	141	135	155	134	121	160	231	194	239	280	349	396	420	266	291
Fayette	230	235	260	249	271	302	255	278	295	289	279	357	359	372	408	508	661	650	635	489	462



Table 1. Births in Iowa's Counties, 1939-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Floyd	192	196	209	194	203	186	200	204	221	219	220	241	299	262	307	445	484	431	502	412	324
Franklin	120	112	130	126	116	133	120	126	130	124	132	193	187	140	162	229	321	378	374	306	300
Fremont	98	89	94	60	85	79	90	103	107	100	98	117	148	124	136	146	179	199	279	223	252
Greene	125	110	110	120	112	108	129	123	124	108	104	172	199	147	180	258	304	331	393	256	314
Grundy	104	136	128	124	98	111	141	113	136	146	138	170	225	172	191	251	295	290	292	226	198
Guthrie	140	122	127	130	121	126	105	155	138	122	111	156	158	162	145	216	250	279	305	303	307
Hamilton	206	218	210	182	193	203	193	206	220	209	213	254	280	243	270	262	469	455	481	345	357
Hancock	127	135	127	121	122	125	125	142	157	164	167	212	242	191	182	275	337	365	379	301	307
Hardin	235	206	189	216	244	218	204	192	209	213	214	283	299	266	312	368	431	451	518	373	389
Harrison	179	166	179	173	174	175	179	200	201	187	191	217	220	217	229	298	384	384	461	380	386
Henry	246	250	241	203	276	239	252	256	237	265	224	264	266	255	265	306	342	417	406	283	241
Howard	117	112	124	92	118	96	112	126	114	135	126	161	177	151	157	210	279	295	306	223	263
Humboldt	130	107	128	111	107	118	110	100	104	112	136	186	201	152	159	252	306	343	326	223	225
Ida	80	90	99	99	73	86	93	94	100	107	150	148	153	128	136	128	198	238	247	187	157
Iowa	178	174	156	227	192	212	213	196	208	213	236	216	261	201	235	296	374	353	351	272	306
Jackson	238	236	242	236	261	241	258	258	286	252	255	325	392	309	363	518	579	510	408	277	359
Jasper	457	420	436	426	416	439	423	455	471	432	461	462	527	500	520	637	792	822	747	588	499
Jefferson	158	172	161	171	153	172	177	185	186	192	202	224	212	197	238	307	305	316	307	259	236
Johnson	1332	1275	1274	1272	1258	1288	1337	1359	1358	1406	1297	1306	1228	1066	1378	1500	1616	1258	1293	660	591
Jones	196	183	213	224	196	253	235	243	255	251	236	262	317	290	319	383	444	464	477	312	353
Keokuk	125	142	127	134	145	129	143	147	176	150	152	185	181	170	190	264	294	360	372	280	283
Kossuth	162	173	174	163	174	196	219	199	226	251	240	295	396	318	353	520	634	664	705	498	551
Lee	466	449	446	477	479	435	526	540	494	496	492	582	690	578	697	834	917	1021	999	790	598
Linn	2745	2635	2584	2540	2597	2550	2551	2644	2632	2641	2507	2499	2652	2448	3293	3624	3548	2797	2371	1656	1362
Louisa	164	173	190	161	174	161	184	143	148	163	149	161	209	163	152	203	183	201	226	172	199
Lucas	97	115	95	123	100	129	117	100	111	116	93	132	137	121	124	147	188	206	194	217	239
Lyon	154	149	137	150	136	165	162	180	156	178	167	194	231	176	230	241	354	397	348	258	286
Madison	188	164	169	152	159	160	162	155	158	158	167	154	173	154	154	208	236	226	256	226	244
Mahaska	301	285	258	260	291	272	277	264	300	285	316	325	327	297	334	358	464	502	515	454	405
Marion	432	403	333	378	363	419	391	412	364	374	398	403	458	364	393	468	536	527	515	417	445
Marshall	573	511	472	553	516	523	523	471	458	502	488	588	625	560	697	781	870	841	815	592	634
Mills	156	194	159	177	158	183	159	151	170	136	168	192	219	169	159	188	211	225	291	213	249
Mitchell	133	123	133	130	129	142	154	126	148	131	127	149	189	166	183	294	360	365	349	240	206

Table 1. Births in Iowa's Counties, 1939-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Monona	115	99	109	98	126	124	106	145	133	114	113	140	163	144	180	210	269	337	355	314	341
Monroe	100	77	95	97	89	87	119	98	111	116	96	122	137	127	132	175	210	200	219	240	230
Montgomery	146	152	112	160	161	160	141	165	138	158	150	179	221	190	163	215	310	309	366	253	238
Muscatine	619	614	570	591	629	626	642	656	676	665	682	635	730	643	677	723	860	732	698	584	523
O'Brien	180	160	192	190	200	174	191	199	176	184	195	235	277	238	249	322	418	475	475	325	319
Osceola	73	76	80	79	90	70	81	86	107	94	100	105	131	117	135	189	232	269	251	191	176
Page	196	190	171	191	174	181	164	166	179	200	220	204	285	242	233	302	364	432	493	374	378
Palo Alto	104	107	122	98	95	107	109	112	111	95	140	162	196	184	190	257	346	401	430	339	336
Plymouth	289	306	328	312	316	311	307	317	296	346	310	409	448	346	381	460	545	584	596	423	397
Pocahontas	82	71	77	68	66	84	88	99	104	124	110	150	154	132	193	258	329	345	393	289	326
Polk	5954	5898	5685	5782	5455	5458	5460	5560	5494	5367	5545	4909	4880	4281	5476	5571	6713	5905	5306	3514	3267
Pottawattamie	1216	1160	1185	1102	1142	1156	1193	1261	1299	1361	1281	1379	1455	1374	1516	1904	2059	1798	1685	1184	1035
Poweshiek	176	195	192	194	215	211	205	215	237	226	226	220	277	254	314	350	442	409	428	324	322
Ringgold	69	47	65	43	55	30	38	57	53	44	53	84	86	70	60	87	141	162	168	179	169
Sac	128	112	130	159	136	126	139	140	125	145	153	182	203	191	222	258	359	405	410	346	276
Scott	2264	2339	2175	2303	2251	2243	2408	2483	2409	2430	2376	2647	2856	2438	2851	3042	2961	2789	2487	1714	1338
Shelby	141	142	140	115	156	146	163	154	156	182	163	237	208	184	246	331	417	387	419	335	306
Sioux	397	400	413	376	410	380	437	433	439	434	432	519	579	476	454	577	689	733	701	531	544
Story	885	860	846	904	856	844	785	878	900	927	874	1039	1074	851	1104	1140	1319	1102	1216	680	520
Tama	240	222	248	230	236	236	225	226	213	215	218	260	299	269	301	330	459	478	462	387	388
Taylor	66	66	79	75	76	78	70	75	63	92	79	102	135	115	95	134	159	207	233	190	231
Union	140	156	136	163	154	119	152	149	143	148	166	165	215	193	196	244	272	285	321	232	268
Van Buren	85	107	79	86	76	104	108	91	98	89	93	111	133	98	102	157	197	206	216	162	181
Wapello	404	391	416	459	403	428	465	422	481	490	484	534	555	501	628	737	988	1216	1095	938	813
Warren	483	504	513	481	481	449	499	516	550	479	499	489	554	452	498	486	510	385	416	289	300
Washington	306	284	254	327	308	279	273	269	277	307	301	307	345	247	313	379	440	429	458	372	360
Wayne	75	56	57	64	80	78	71	74	74	83	77	94	139	99	107	117	171	191	215	218	196
Webster	498	513	520	496	498	525	534	566	563	597	605	631	724	623	762	1001	1188	1177	1127	800	761
Winnebago	121	127	135	144	134	135	121	141	138	148	165	170	213	190	194	206	264	301	338	222	277
Winneshiak	186	208	200	212	240	242	229	255	252	259	269	321	330	259	289	427	510	503	491	373	419
Woodbury	1627	1664	1691	1699	1700	1651	1651	1665	1623	1631	1496	1601	1850	1651	1876	2162	2609	2934	2645	2068	1694
Worth	76	90	75	85	89	91	94	91	99	99	107	115	123	86	119	139	184	234	245	169	172
Wright	165	149	152	172	139	157	156	171	188	214	191	203	224	222	185	289	429	462	504	368	373
State of Iowa	37549	37262	36641	37130	36790	37057	37805	38459	38925	39330	38916	42360	46763	40179	47235	55343	64473	63069	61765	45263	42985

Table 2. Deaths in Iowa's Counties, 1939-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Adair	133	96	117	135	111	127	122	107	111	104	101	115	112	107	124	130	125	125	122	120	129
Adams	64	68	56	55	75	66	61	56	63	57	70	79	69	70	80	95	90	88	98	83	105
Allamakee	157	191	155	165	167	167	171	179	165	198	189	167	155	196	178	187	199	170	193	161	176
Appanoose	185	157	186	194	190	189	200	173	197	179	175	183	208	227	245	254	245	280	252	257	252
Audubon	80	90	64	100	98	109	107	118	98	88	84	74	95	90	131	114	85	90	113	93	88
Benton	214	214	229	207	210	201	207	207	222	197	235	213	242	245	243	268	260	237	247	242	208
Black Hawk	1164	1159	1157	1143	1113	1239	1194	1130	1123	1142	1066	998	1108	1071	1046	1096	1016	866	870	803	724
Boone	309	326	300	301	307	304	307	266	278	289	279	267	301	311	291	350	281	287	309	294	347
Bremer	228	243	204	211	235	235	266	216	214	229	211	205	227	233	206	179	191	173	161	190	201
Buchanan	211	223	221	197	230	204	231	202	180	185	199	211	206	194	220	224	257	215	201	190	221
Buena Vista	230	224	212	215	210	215	217	196	200	210	253	214	241	216	255	228	211	220	166	202	205
Butler	181	188	192	177	201	202	195	202	176	169	197	183	178	201	211	179	206	173	166	169	181
Calhoun	163	152	178	153	181	141	169	185	171	148	202	174	166	189	191	187	191	170	174	141	176
Carroll	269	253	242	243	219	229	229	233	217	214	202	237	219	243	238	241	252	193	188	192	229
Cass	220	193	197	202	213	175	180	184	213	206	225	217	190	225	213	197	206	182	178	197	184
Cedar	165	184	199	172	177	175	157	155	148	176	166	175	170	177	190	161	200	151	177	175	186
Cerro Gordo	515	569	492	527	539	489	504	490	457	481	463	518	461	517	559	544	496	427	415	385	398
Cherokee	177	169	164	192	141	158	158	163	166	171	170	168	160	190	173	190	186	169	163	176	169
Chickasaw	146	127	135	137	161	168	156	124	159	142	132	157	157	139	181	155	145	149	141	155	169
Clarke	102	105	80	102	106	91	106	103	113	93	109	102	103	89	110	110	114	101	124	102	114
Clay	185	201	168	165	213	165	182	172	185	158	182	180	192	183	195	208	176	155	174	148	157
Clayton	242	255	187	220	226	219	214	220	239	201	227	239	246	232	269	252	234	243	242	269	278
Clinton	574	531	575	565	545	531	548	518	540	559	556	546	544	582	579	572	570	524	585	532	572
Crawford	181	163	178	181	152	172	179	171	155	170	160	190	187	196	238	190	207	182	188	173	189
Dallas	341	299	317	301	300	295	274	273	278	287	274	265	303	276	308	325	296	276	258	274	258
Davis	82	113	79	103	119	91	107	87	103	100	99	86	98	111	117	92	123	120	114	126	114
Decatur	104	99	132	102	89	113	118	128	134	106	105	91	110	117	154	112	129	144	159	148	158
Delaware	155	140	152	158	171	149	173	181	144	171	165	184	206	179	215	208	172	168	187	193	159
Des Moines	468	429	445	454	468	412	428	399	474	456	493	442	411	483	509	477	467	496	491	437	429
Dickinson	166	193	173	181	179	184	172	149	163	160	161	169	144	186	154	141	131	104	131	86	111
Dubuque	889	870	791	820	846	871	854	810	841	840	853	822	775	841	802	781	777	696	770	762	772
Emmet	119	133	143	142	129	133	146	147	130	134	156	151	137	154	153	140	142	118	119	123	92
Fayette	257	270	259	259	232	255	255	242	266	257	266	277	255	282	278	283	302	288	296	312	318

Table 2. Deaths in Iowa's Counties, 1939-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Floyd	220	206	200	215	211	198	220	216	214	203	219	182	198	206	214	226	238	193	203	201	222
Franklin	137	137	135	135	142	138	145	117	130	120	136	151	154	173	173	152	151	122	152	169	129
Fremont	105	124	113	122	131	129	115	127	105	104	122	131	153	136	126	124	135	138	148	138	153
Greene	142	148	131	153	138	104	116	141	143	142	123	155	140	177	165	156	198	166	170	154	140
Grundy	133	144	135	141	134	122	127	89	134	117	130	112	154	123	153	139	132	139	112	116	96
Guthrie	132	150	118	146	147	139	145	136	133	142	147	153	160	181	158	169	167	165	175	167	162
Hamilton	176	154	193	183	186	154	171	183	186	177	194	171	192	183	233	205	225	167	166	187	192
Hancock	133	117	128	130	153	124	135	132	115	130	111	133	146	152	142	159	120	133	125	119	116
Hardin	244	294	247	241	225	244	243	267	239	237	231	246	246	289	282	295	242	229	236	244	230
Harrison	219	209	173	227	189	180	230	200	202	198	177	188	178	188	229	218	213	205	190	214	203
Henry	214	183	196	188	200	197	233	200	215	169	209	197	207	205	232	201	229	211	213	183	218
Howard	136	146	139	123	133	132	125	122	118	124	107	146	137	130	156	146	147	133	117	137	131
Humboldt	126	112	116	130	130	115	141	140	130	135	99	133	112	143	119	131	158	143	118	114	125
Ida	115	111	85	101	125	109	117	104	117	115	86	101	94	137	120	120	107	93	100	76	101
Iowa	183	173	156	183	176	164	172	163	155	174	152	162	133	191	170	169	171	189	169	177	163
Jackson	226	211	232	256	221	221	228	202	241	209	247	220	207	214	230	199	194	219	225	231	227
Jasper	371	340	340	344	361	381	365	356	374	298	329	335	327	353	372	352	312	307	295	294	318
Jefferson	131	162	157	159	142	137	166	160	173	153	145	171	157	194	172	176	180	151	196	168	170
Johnson	520	486	476	492	480	475	455	436	451	429	461	444	412	382	381	371	379	301	329	302	376
Jones	178	188	163	184	168	170	177	167	202	192	174	174	195	194	218	203	215	192	198	209	184
Keokuk	125	121	151	145	134	138	137	124	138	165	151	169	193	186	163	217	191	181	183	202	202
Kossuth	207	214	209	195	222	194	223	196	207	197	189	197	248	235	237	245	208	206	237	192	210
Lee	452	419	426	435	460	470	463	444	453	398	423	387	406	467	520	542	494	451	490	517	499
Linn	1463	1392	1337	1333	1358	1361	1356	1230	1274	1237	1288	1181	1183	1381	1368	1343	1215	1023	1014	949	944
Louisa	100	111	101	110	122	137	147	113	100	121	103	104	110	125	130	121	107	88	100	136	118
Lucas	124	130	118	111	112	118	107	122	122	129	139	119	142	169	159	155	151	166	153	138	171
Lyon	133	116	118	124	133	123	136	116	137	115	128	120	135	131	133	139	128	120	101	103	118
Madison	152	182	173	138	159	145	143	164	150	156	144	143	128	165	154	156	144	158	130	181	172
Mahaska	223	205	204	234	224	240	223	220	224	250	243	261	245	263	276	311	289	288	282	259	274
Marion	311	355	314	330	327	315	308	326	303	329	315	308	275	283	256	276	289	259	258	269	290
Marshall	505	498	511	522	529	514	497	456	506	485	500	417	411	366	450	428	423	353	382	374	389
Mills	146	123	139	134	116	123	149	110	129	129	147	128	105	123	142	128	128	121	126	133	147
Mitchell	135	148	151	146	139	136	157	153	135	148	150	161	171	160	143	162	156	118	160	130	136

Table 2. Deaths in Iowa's Counties, 1939-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Monona	154	160	155	161	156	160	158	162	147	156	143	172	150	154	165	160	160	133	158	142	165
Monroe	93	95	99	99	111	115	96	118	109	105	137	109	132	116	137	152	146	126	145	138	182
Montgomery	156	177	177	197	190	145	183	156	176	181	186	195	178	185	154	217	201	179	161	165	196
Muscatine	387	377	358	329	368	414	380	375	391	357	377	389	376	381	400	363	418	375	373	360	395
O'Brien	176	188	181	198	194	204	184	192	205	190	182	198	206	223	203	202	220	188	205	156	192
Osceola	81	89	79	91	93	90	72	77	88	66	78	88	89	90	91	71	86	74	60	55	73
Page	254	229	253	212	256	215	211	224	236	230	214	234	265	247	274	244	241	210	221	213	230
Palo Alto	146	147	140	146	131	141	153	124	144	140	139	135	149	165	136	189	148	118	129	123	171
Plymouth	249	241	248	241	243	213	224	244	225	235	220	245	232	230	222	216	203	200	196	173	230
Pocahontas	103	109	129	120	108	135	119	127	132	121	132	145	149	146	134	168	135	162	141	130	123
Polk	2741	2856	2704	2738	2684	2605	2617	2466	2614	2539	2571	2427	2374	2512	2595	2623	2477	2238	2097	1888	1941
Pottawattamie	818	853	805	759	757	790	769	731	754	746	731	800	671	763	849	839	834	702	700	647	633
Poweshiek	226	247	204	213	198	201	184	204	170	196	195	209	179	213	217	209	211	211	229	216	177
Ringgold	80	72	91	74	71	88	83	77	74	84	65	70	84	105	89	83	106	94	104	116	104
Sac	173	174	170	167	162	167	176	155	144	178	177	168	166	200	191	189	163	141	164	152	140
Scott	1349	1302	1269	1182	1302	1259	1307	1224	1171	1105	1218	1214	1196	1312	1228	1223	1084	958	972	928	890
Shelby	158	151	189	143	170	169	147	146	153	151	161	139	162	176	158	160	169	109	142	114	165
Sioux	232	244	270	237	229	244	242	218	218	228	238	235	221	269	291	263	252	229	187	205	203
Story	451	450	452	418	425	389	420	412	453	415	405	357	394	400	452	390	381	325	329	326	309
Tama	211	200	195	223	219	229	222	170	216	226	209	210	237	265	242	248	224	236	240	235	232
Taylor	96	102	108	106	87	99	95	94	115	105	133	106	126	122	134	145	139	150	154	159	135
Union	160	154	152	166	169	159	163	160	165	167	156	166	143	189	193	190	200	167	188	184	214
Van Buren	102	109	96	99	99	102	106	97	108	87	118	83	117	142	139	145	156	157	148	139	138
Wapello	456	441	444	447	452	428	463	418	488	473	459	513	463	486	517	487	479	465	498	470	545
Warren	304	323	296	339	264	316	285	233	282	283	272	261	214	232	239	224	208	167	183	176	202
Washington	223	220	231	249	213	245	236	206	243	215	217	226	230	256	228	240	249	211	190	205	196
Wayne	100	121	127	109	107	119	101	112	102	92	96	111	117	123	135	140	134	131	154	158	158
Webster	490	454	492	492	490	489	483	482	489	451	459	468	460	521	532	493	517	418	404	376	423
Winnebago	169	147	135	151	128	137	150	158	151	138	125	151	140	164	142	160	120	117	118	132	111
Winneshiek	184	181	178	182	188	178	175	159	176	219	183	207	172	208	203	233	221	189	239	224	262
Woodbury	919	984	962	935	1021	985	982	974	918	939	956	950	917	1060	1102	1156	1200	1021	1100	1018	1026
Worth	113	108	98	97	120	102	96	94	96	115	86	103	95	106	110	107	104	101	101	83	93
Wright	192	179	218	191	177	198	210	173	175	178	165	189	182	212	211	224	213	192	185	169	196
State of Iowa	28339	28320	27669	27800	27962	27651	27951	26580	27306	26815	27147	26972	26816	28730	29345	29157	28317	25602	26040	25068	25845

Table 3. Natural Change in Iowa's Counties, 1939-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Adair	-62	-20	-49	-74	-31	-34	-48	-2	-24	-2	8	-1	60	19	7	27	72	93	139	113	99
Adams	-17	-18	-23	-7	-39	-2	-10	-15	1	3	0	-6	14	7	-3	-1	57	95	80	80	86
Allamakee	29	-19	10	8	-10	-9	5	20	9	-21	25	52	69	-10	39	113	219	249	215	90	105
Appanoose	-27	-4	-45	-26	-43	-37	-36	1	-27	-13	-9	14	48	-30	-46	-27	33	41	56	136	185
Audubon	-12	-18	18	-37	-23	-21	-35	-48	-22	3	-1	61	30	21	-20	78	130	183	136	119	127
Benton	51	111	52	57	88	91	101	97	114	121	57	115	125	48	127	188	239	305	263	153	212
Black Hawk	430	479	429	458	396	366	580	521	609	557	621	1095	1261	933	1411	1694	2316	1963	1752	803	651
Boone	9	-31	-11	-2	2	9	-33	23	34	40	30	66	81	-31	86	63	220	237	230	152	63
Bremer	8	-33	15	23	14	8	6	43	23	13	45	101	157	40	180	210	332	288	267	117	151
Buchanan	87	86	63	89	53	110	46	125	122	117	137	170	215	147	187	207	257	299	334	184	125
Buena Vista	24	12	47	13	9	28	21	78	65	77	0	76	61	34	31	117	224	320	359	112	125
Butler	-22	-26	-32	-29	-35	-39	-26	-43	-14	15	-17	59	91	40	53	130	131	191	253	114	117
Calhoun	-60	-38	-81	-38	-67	-35	-79	-65	-60	-18	-78	-34	27	-28	-5	72	120	221	221	196	152
Carroll	-17	-7	-4	17	64	40	29	38	61	106	90	147	203	71	179	347	428	465	453	292	241
Cass	-65	-49	-37	-50	-61	-25	-2	-15	-8	-14	-33	38	84	20	38	111	191	211	219	155	111
Cedar	16	1	-1	23	27	18	46	42	69	45	58	78	115	23	35	110	158	217	229	104	54
Cerro Gordo	36	-44	33	73	52	98	88	110	164	205	194	161	236	109	172	364	599	778	689	357	435
Cherokee	-43	-38	-22	-77	-7	-1	-17	-5	-13	29	7	39	91	26	107	138	196	257	298	128	123
Chickasaw	-8	-1	22	-14	-9	1	23	42	7	57	50	67	116	127	69	172	200	187	240	115	115
Clarke	5	-6	3	-15	-4	-9	-25	2	-8	13	12	2	19	8	-8	6	66	51	52	43	78
Clay	10	-22	29	23	-7	54	8	63	73	81	78	80	150	75	84	104	229	296	256	213	158
Clayton	-49	-48	8	-44	-20	-12	28	8	15	41	35	43	84	88	44	149	282	208	278	117	173
Clinton	55	146	54	37	112	114	132	162	145	126	118	242	392	233	380	553	696	623	529	313	125
Crawford	24	30	33	51	26	4	29	25	50	58	44	66	119	101	50	191	211	241	287	193	105
Dallas	163	228	165	200	177	145	151	149	148	122	171	189	141	87	136	145	198	220	246	122	134
Davis	20	-11	40	25	-25	36	11	20	24	28	17	42	64	-6	-5	35	38	65	78	35	88
Decatur	-14	-7	-34	-5	8	0	-30	-40	-40	-15	-6	21	20	-13	-45	14	59	97	85	88	96
Delaware	41	107	56	75	42	119	89	80	127	114	99	127	157	90	131	222	317	284	278	150	216
Des Moines	52	85	104	111	55	112	130	169	106	112	89	208	346	134	281	484	493	484	462	322	106
Dickinson	6	-17	-4	-33	-42	-36	-45	3	0	0	-3	26	94	3	18	62	109	172	150	97	111
Dubuque	265	282	352	377	342	305	398	358	390	420	331	540	842	587	966	1436	1558	1415	1149	471	367
Emmet	5	-7	-25	-8	-21	-24	-5	-12	25	0	-35	9	94	40	86	140	207	278	301	143	199
Fayette	-27	-35	1	-10	39	47	0	36	29	32	13	80	104	90	130	225	359	362	339	177	144

Table 3. Natural Change in Iowa's Counties, 1939-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Floyd	-28	-10	9	-21	-8	-12	-20	-12	7	16	1	59	101	56	93	219	246	238	299	211	102
Franklin	-17	-25	-5	-9	-26	-5	-25	9	0	4	-4	42	33	-33	-11	77	170	256	222	137	171
Fremont	-7	-35	-19	-62	-46	-50	-25	-24	2	-4	-24	-14	-5	-12	10	22	44	61	131	85	99
Greene	-17	-38	-21	-33	-26	4	13	-18	-19	-34	-19	17	59	-30	15	102	106	165	223	102	174
Grundy	-29	-8	-7	-17	-36	-11	14	24	2	29	8	58	71	49	38	112	163	151	180	110	102
Guthrie	8	-28	9	-16	-26	-13	-40	19	5	-20	-36	3	-2	-19	-13	47	83	114	130	136	145
Hamilton	30	64	17	-1	7	49	22	23	34	32	19	83	88	60	37	57	244	288	315	158	165
Hancock	-6	18	-1	-9	-31	1	-10	10	42	34	56	79	96	39	40	116	217	232	254	182	191
Hardin	-9	-88	-58	-25	19	-26	-39	-75	-30	-24	-17	37	53	-23	30	73	189	222	282	129	159
Harrison	-40	-43	6	-54	-15	-5	-51	0	-1	-11	14	29	42	29	0	80	171	179	271	166	183
Henry	32	67	45	15	76	42	19	56	22	96	15	67	59	50	33	105	113	206	193	100	23
Howard	-19	-34	-15	-31	-15	-36	-13	4	-4	11	19	15	40	21	1	64	132	162	189	86	132
Humboldt	4	-5	12	-19	-23	3	-31	-40	-26	-23	37	53	89	9	40	121	148	200	208	109	100
Ida	-35	-21	14	-2	-52	-23	-24	-10	-17	-8	64	47	59	-9	16	8	91	145	147	111	56
Iowa	-5	1	0	44	16	48	41	33	53	39	84	54	128	10	65	127	203	164	182	95	143
Jackson	12	25	10	-20	40	20	30	56	45	43	8	105	185	95	133	319	385	291	183	46	132
Jasper	86	80	96	82	55	58	58	99	97	134	132	127	200	147	148	285	480	515	452	294	181
Jefferson	27	10	4	12	11	35	11	25	13	39	57	53	55	3	66	131	125	165	111	91	66
Johnson	812	789	798	780	778	813	882	923	907	977	836	862	816	684	997	1129	1237	957	964	358	215
Jones	18	-5	50	40	28	83	58	76	53	59	62	88	122	96	101	180	229	272	279	103	169
Keokuk	0	21	-24	-11	11	-9	6	23	38	-15	1	16	-12	-16	27	47	103	179	189	78	81
Kossuth	-45	-41	-35	-32	-48	2	-4	3	19	54	51	98	148	83	116	275	426	458	468	306	341
Lee	14	30	20	42	19	-35	63	96	41	98	69	195	284	111	177	292	423	570	509	273	99
Linn	1282	1243	1247	1207	1239	1189	1195	1414	1358	1404	1219	1318	1469	1067	1925	2281	2333	1774	1357	707	418
Louisa	64	62	89	51	52	24	37	30	48	42	46	57	99	38	22	82	76	113	126	36	81
Lucas	-27	-15	-23	12	-12	11	10	-22	-11	-13	-46	13	-5	-48	-35	-8	37	40	41	79	68
Lyon	21	33	19	26	3	42	26	64	19	63	39	74	96	45	97	102	226	277	247	155	168
Madison	36	-18	-4	14	0	15	19	-9	8	2	23	11	45	-11	0	52	92	68	126	45	72
Mahaska	78	80	54	26	67	32	54	44	76	35	73	64	82	34	58	47	175	214	233	195	131
Marion	121	48	19	48	36	104	83	86	61	45	83	95	183	81	137	192	247	268	257	148	155
Marshall	68	13	-39	31	-13	9	26	15	-48	17	-12	171	214	194	247	353	447	488	433	218	245
Mills	10	71	20	43	42	60	10	41	41	7	21	64	114	46	17	60	83	104	165	80	102
Mitchell	-2	-25	-18	-16	-10	6	-3	-27	13	-17	-23	-12	18	6	40	132	204	247	189	110	70

Table 3. Natural Change in Iowa's Counties, 1939-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974	1969	1964	1959	1954	1949	1944	1939
Monona	-39	-61	-46	-63	-30	-36	-52	-17	-14	-42	-30	-32	13	-10	15	50	109	204	197	172	176
Monroe	7	-18	-4	-2	-22	-28	23	-20	2	11	-41	13	5	11	-5	23	64	74	74	102	48
Montgomery	-10	-25	-65	-37	-29	15	-42	9	-38	-23	-36	-16	43	5	9	-2	109	130	205	88	42
Muscatine	232	237	212	262	261	212	262	281	285	308	305	246	354	262	277	360	442	357	325	224	128
O'Brien	4	-28	11	-8	6	-30	7	7	-29	-6	13	37	71	15	46	120	198	287	270	169	127
Osceola	-8	-13	1	-12	-3	-20	9	9	19	28	22	17	42	27	44	118	146	195	191	136	103
Page	-58	-39	-82	-21	-82	-34	-47	-58	-57	-30	6	-30	20	-5	-41	58	123	222	272	161	148
Palo Alto	-42	-40	-18	-48	-36	-34	-44	-12	-33	-45	1	27	47	19	54	68	198	283	301	216	165
Plymouth	40	65	80	71	73	98	83	73	71	111	90	164	216	116	159	244	342	384	400	250	167
Pocahontas	-21	-38	-52	-52	-42	-51	-31	-28	-28	3	-22	5	5	-14	59	90	194	183	252	159	203
Polk	3213	3042	2981	3044	2771	2853	2843	3094	2880	2828	2974	2482	2506	1769	2881	2948	4236	3667	3209	1626	1326
Pottawattamie	398	307	380	343	385	366	424	530	545	615	550	579	784	611	667	1065	1225	1096	985	537	402
Poweshiek	-50	-52	-12	-19	17	10	21	11	67	30	31	11	98	41	97	141	231	198	199	108	145
Ringgold	-11	-25	-26	-31	-16	-58	-45	-20	-21	-40	-12	14	2	-35	-29	4	35	68	64	63	65
Sac	-45	-62	-40	-8	-26	-41	-37	-15	-19	-33	-24	14	37	-9	31	69	196	264	246	194	136
Scott	915	1037	906	1121	949	984	1101	1259	1238	1325	1158	1433	1660	1126	1623	1819	1877	1831	1515	786	448
Shelby	-17	-9	-49	-28	-14	-23	16	8	3	31	2	98	46	8	88	171	248	278	277	221	141
Sioux	165	156	143	139	181	136	195	215	221	206	194	284	358	207	163	314	437	504	514	326	341
Story	434	410	394	486	431	455	365	466	447	512	469	682	680	451	652	750	938	777	887	354	211
Tama	29	22	53	7	17	7	3	56	-3	-11	9	50	62	4	59	82	235	242	222	152	156
Taylor	-30	-36	-29	-31	-11	-21	-25	-19	-52	-13	-54	-4	9	-7	-39	-11	20	57	79	31	96
Union	-20	2	-16	-3	-15	-40	-11	-11	-22	-19	10	-1	72	4	3	54	72	118	133	48	54
Van Buren	-17	-2	-17	-13	-23	2	2	-6	-10	2	-25	28	16	-44	-37	12	41	49	68	23	43
Wapello	-52	-50	-28	12	-49	0	2	4	-7	17	25	21	92	15	111	250	509	751	597	468	268
Warren	179	181	217	142	217	133	214	283	268	196	227	228	340	220	259	262	302	218	233	113	98
Washington	83	64	23	78	95	34	37	63	34	92	84	81	115	-9	85	139	191	218	268	167	164
Wayne	-25	-65	-70	-45	-27	-41	-30	-38	-28	-9	-19	-17	22	-24	-28	-23	37	60	61	60	38
Webster	8	59	28	4	8	36	51	84	74	146	146	163	264	102	230	508	671	759	723	424	338
Winnebago	-48	-20	0	-7	6	-2	-29	-17	-13	10	40	19	73	26	52	46	144	184	220	90	166
Winneshiek	2	27	22	30	52	64	54	96	76	40	86	114	158	51	86	194	289	314	252	149	157
Woodbury	708	680	729	764	679	666	669	691	705	692	540	651	933	591	774	1006	1409	1913	1545	1050	668
Worth	-37	-18	-23	-12	-31	-11	-2	-3	3	-16	21	12	28	-20	9	32	80	133	144	86	79
Wright	-27	-30	-66	-19	-38	-41	-54	-2	13	36	26	14	42	10	-26	65	216	270	319	199	177
State of Iowa	9210	8942	8972	9330	8828	9406	9854	11879	11619	12515	11769	15388	19947	11449	17890	26186	36156	37467	35725	20195	17140



each year from 1980 through 1988. This trend was reversed from 1988 to 1990 and changed little from 1990 through 1992. In 1993, a substantial decline occurred; there were 9,854 more births than deaths that year, compared with 11,879 in 1992. This narrowing of the difference between total numbers of births and deaths continued through 1995, when 8,828 more were born than died. This reversed slightly in 1996, when there were 9,330 more births than deaths. The gap between numbers of births and deaths decreased again in 1997 (8,972) and 1998 (8,942) but increased slightly in 1999 (9,210). Since 1915, only the years 1973 and 1993-1999 had fewer than 10,000 more births than deaths.

Fifty-three counties reported natural increases (more births than deaths) in 1999. These ranged from less than 50 in 30 counties to more than 100 in 14 others. Two counties (Linn, Polk) had at least 1,000 more births than deaths in 1999. Three others (Johnson, Scott, Woodbury) had natural increases of at least 500 that year.

Forty-five of Iowa's 99 counties had natural decreases (more deaths than births) in 1999; this was a decrease from the 57 reported in 1998 (Figure 2). Deaths in 1999 outnumbered births by at least 50 in Adair, Calhoun, Cass, Page, Poweshiek, and Wapello. Nearly two-thirds (65) of the counties had natural decrease in at least one of the years from 1995 through 1999.

Nearly a third (31) of the counties recorded more births than deaths every year from 1979 through 1999. The decline in the magnitude of natural increase was great in some counties, however. In Webster, for example, there were 264 more births than deaths in 1979 but only 8 more in 1999; in Black Hawk, births outnumbered deaths by 1,261 in 1979 and 430 in 1999. Several counties had natural increases in 1979 but natural decreases in 1999; in Adair, Cass, Poweshiek, and Wapello, births outnumbered deaths by at least 50 in 1979 but there were at least 50 more deaths than births in 1999. While two-thirds (67) of the counties had at least one year with natural decrease, only Wayne had more deaths than births every year except one. Twenty-eight others had natural decreases occurring in at least 11 of the 21 years examined. Sixteen counties reported more deaths than births in at least 14 of the 21 years—or 2 of every 3 years from 1979 through 1999.

### **Concluding Comments**

Births for four of the years usually thought of as part of the baby boom (1949, 1954, 1959, 1964) are included in Table 1. Comparisons with years in the late 1990s reveal that births were substantially greater during the baby boom in most counties as would be expected. In many, births now are a third to half the numbers of the 1950s. Dallas, Polk, and Warren are among the few that have held even in births when the late 1990s and baby boom years are compared.

While the number of deaths in Iowa has changed relatively little through the 1980s and 1990s, births declined substantially. In the late 1970s and early 1980s, the state and nearly all counties had more births than deaths. Beginning in 1994, however, at least 4 of every 10 counties experienced 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).

Figure 1. Births and deaths in Iowa, 1915–1999.

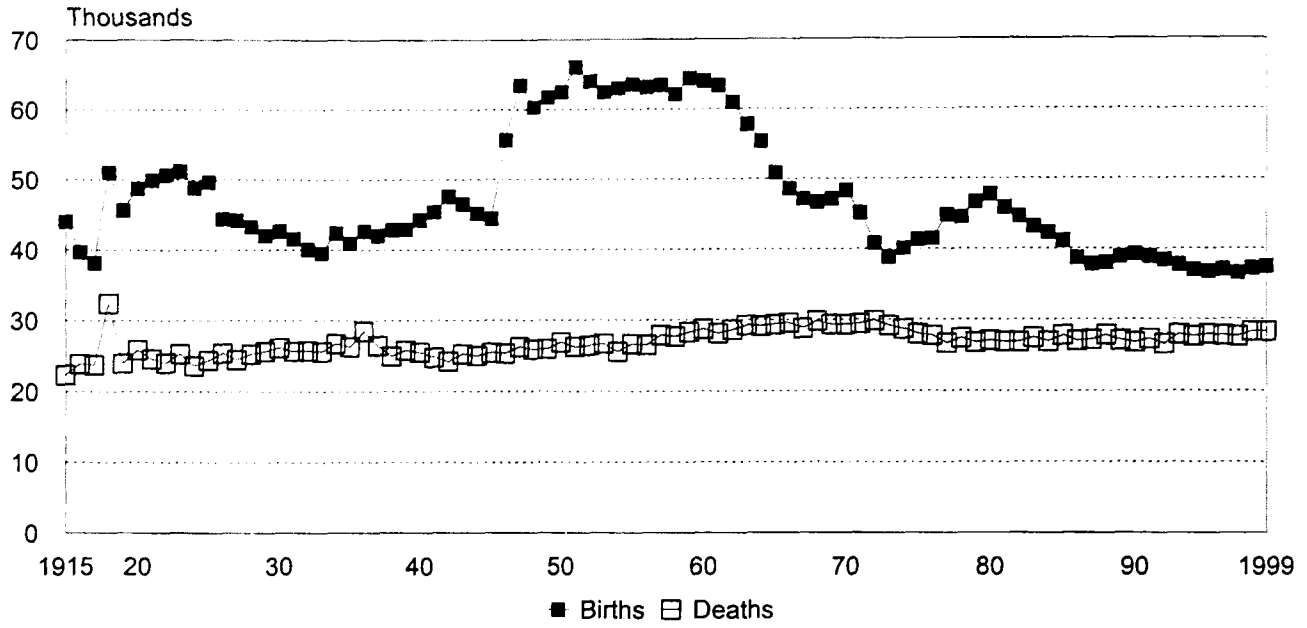
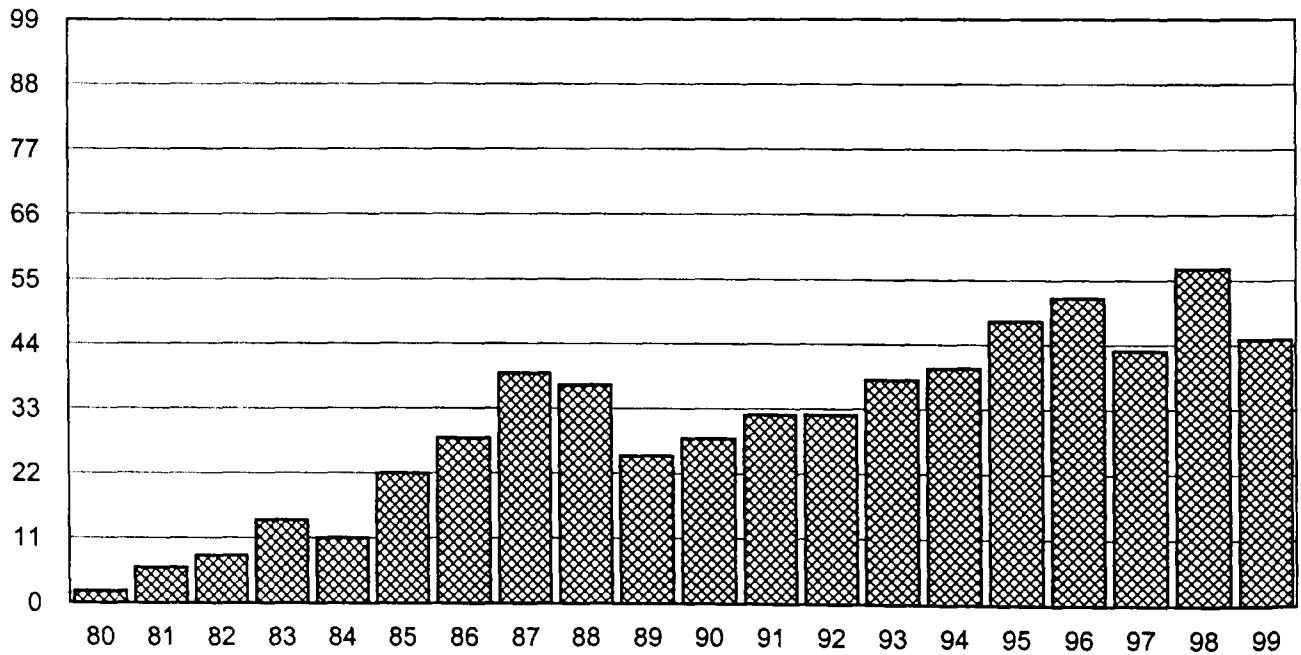


Figure 2. Number of counties with natural decrease in Iowa, 1980–1999.



## Natural Change Across Six Decades in Iowa's Counties: 1940-1999

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Natural change refers to the difference between the number of births and deaths in an area over a particular period. If more births occur, the result of subtracting deaths from births is called natural increase. For Iowa in each decade from the 1940s through the 1990s, births exceeded deaths and thus the state experienced natural increase (Table 1). When deaths outnumber births, then natural decrease is said to have taken place. Although natural decrease didn't occur in any counties in the 1940s or 1950s, growing numbers of counties had natural decreases in each decade that followed; natural decrease is indicated by a negative sign in Table 1. 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. Thus, birth and death data yield information on how a population is changing naturally rather than through migration in a particular state or county.

In the 1940s, births exceeded deaths by about 260,000 in Iowa. That number increased to 366,000 in the middle of the baby boom (the 1950s). Since then, although natural increase was evident each decade, it declined substantially to less than 101,000 in the 1990s.

That decline for the state as a whole foreshadowed changes within counties as well. The 1960s was the first decade in which any county reported natural decrease; seven counties had more deaths than births from 1960 through 1969. The range on natural decrease was relatively small, however; Clark had only three more deaths than births that decade while Taylor had 278, which was the highest figure. Natural increases were much more substantial, with eight counties having at least 10,000 more births than deaths in that decade. Another 48 counties had natural increases ranging from 1,000 to 9,999. Of course, the baby boom was still occurring during the first years of the 1960s.

In the 1960s, 92 counties had natural increases; this dropped to nearly the same number of counties in the 1970s (86) and the 1980s (85). The 1990s constituted an entirely different decade, however, because only 54 counties had natural increases, a decline of more than 30 from the 1970s and 1980s. Thus, although a majority (54) of counties reported natural increases in the 1990s, nearly as many (45) had natural declines.

One 1960s trend continued in the 1970s, 1980, and 1990s; the range among counties with natural increases was much greater than that for natural decreases. In the 1970s and 1980s as in the 1960s, for example, no county with natural decrease had as many as 300 more deaths than births. In the 1990s, 10 of the 45 counties with natural decreases had deaths exceeding births by more than 300, with two greater than 500 (Calhoun and Page). Ranges for natural increases were much greater than for natural decreases each decade. However, fewer counties had as high a level of natural increase as noted in the 1960s. For example, at least 1,000 more births than deaths occurring in 56 counties in the 1960s; this declined to 29 in the 1970s, 26 in the 1980s, and 15 in the 1990s.

Of course, the greatest change occurs when the 1950s, which include more years of the baby boom than any other, are compared with the 1990s. In the 1950s, eight counties had at least 10,000 more births than deaths while in the 1990s this figure was reached in only three counties. Perhaps even more telling, births exceeded deaths by at least 1,000 in 84 counties in the 1950s but in only 15 in the 1990s.

**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).

Table 1. Natural Change in Iowa's Counties by Decade, 1940-1999.

County	1990- 1999	1980- 1989	1970- 1979	1960- 1969	1950- 1959	1940- 1949	County	1990- 1999	1980- 1989	1970- 1979	1960- 1969	1950- 1959	1940- 1949
Adair	-346	76	144	256	1058	1171	Jefferson	187	482	449	1098	1516	1205
Adams	-127	30	-59	60	809	914	Johnson	8459	8655	7471	10597	10195	5066
Allamakee	22	443	402	1173	2153	1477	Jones	460	782	939	1726	2727	1891
Appanoose	-257	32	-142	-167	563	1127	Keokuk	40	58	-80	372	1349	1324
Audubon	-195	140	57	578	1589	1355	Kossuth	-127	909	1063	2537	4428	4087
Benton	883	913	701	1671	2794	2107	Lee	388	1432	1326	2707	4964	3653
Black Hawk	4825	9126	10557	17806	20946	12208	Linn	12778	12568	13334	21961	18871	9584
Boone	40	545	242	816	2296	1845	Louisa	499	500	512	530	892	823
Bremer	120	970	1212	2065	2629	1689	Lucas	-90	-14	-142	-117	473	676
Buchanan	898	1784	1528	2363	3013	2078	Lyon	316	775	877	1318	2529	1956
Buena Vista	374	643	612	1182	2916	2024	Madison	63	137	230	251	937	1028
Butler	-251	389	692	1076	2030	1805	Mahaska	546	821	469	788	2273	1706
Calhoun	-541	-216	-105	607	1899	1887	Marion	651	1232	956	1552	2529	2073
Carroll	327	1454	1034	2885	4375	3202	Marshall	79	1334	2237	3324	4427	3484
Cass	-326	55	53	879	1904	1790	Mills	345	474	687	557	1099	1107
Cedar	286	658	560	1056	1854	1375	Mitchell	-99	57	188	1021	2082	1444
Cerro Gordo	815	2087	1673	3722	7145	4921	Monona	-400	-171	-58	408	1769	2095
Cherokee	-194	362	602	1372	2547	2012	Monroe	-51	-74	-38	63	710	834
Chickasaw	120	648	849	1526	2044	1676	Montgomery	-245	-17	94	67	1425	1169
Clarke	-44	185	22	-3	529	771	Muscatine	2552	3037	2798	3163	3811	2502
Clay	312	1042	1013	1334	2827	2231	O'Brien	-66	393	401	1341	2804	2224
Clayton	-73	588	783	1282	2575	1902	Osceola	10	188	291	883	1863	1470
Clinton	1083	2235	3021	5063	6468	4087	Page	-508	-177	66	352	1674	2090
Crawford	330	884	1059	1593	2540	2274	Palo Alto	-352	248	311	1076	2639	2197
Dallas	1648	1553	1193	1385	2239	1794	Plymouth	765	1457	1447	2210	3726	2939
Davis	168	297	226	179	701	760	Pocahontas	-340	-26	91	914	2272	1997
Decatur	-177	-16	-76	-149	643	1052	Polk	29549	25804	21460	31371	37412	22317
Delaware	850	1466	1224	2195	3027	2077	Pottawattamie	4293	5834	6517	10522	11687	6719
Des Moines	1036	1668	1930	4052	5056	3694	Poweshiek	23	347	535	1210	2244	1674
Dickinson	-168	272	412	624	1662	1285	Ringgold	-293	-52	-123	-104	493	723
Dubuque	3489	5294	7279	12901	13563	7122	Sac	-326	72	165	826	2439	2129
Emmet	-72	306	694	1153	2426	1887	Scott	10835	13962	13850	17211	16969	9921
Fayette	112	543	829	2133	3501	2630	Shelby	-82	417	550	1473	2639	2120
Floyd	-79	265	704	1649	2652	2159	Sioux	1757	2832	2557	2862	4865	4073
Franklin	-99	252	84	775	1897	1716	Story	4400	5977	5398	7567	8270	5424
Fremont	-270	-84	-59	155	688	1024	Tama	180	430	369	1057	2335	1883
Greene	-189	52	22	717	1664	1607	Taylor	-267	-179	-287	-278	519	776
Grundy	-39	289	510	995	1704	1318	Union	-155	82	172	240	935	855
Guthrie	-102	-267	20	330	1067	1439	Van Buren	-82	-4	-136	105	588	437
Hamilton	277	481	508	1164	2468	2301	Wapello	-151	264	395	2416	6019	4819
Hancock	48	598	588	1023	2291	1993	Warren	2030	2525	2952	2760	2393	1482
Hardin	-355	322	253	866	2279	1902	Washington	603	780	644	1225	2268	1939
Harrison	-214	202	313	627	1846	1792	Wayne	-378	-265	-298	-275	404	529
Henry	470	595	578	634	1601	1298	Webster	498	1695	2011	4814	7435	5012
Howard	-152	166	119	654	1540	1332	Winnebago	-120	313	447	691	1650	1482
Humboldt	-148	442	374	882	1861	1596	Winneshek	463	974	819	1849	2928	2013
Ida	-178	303	60	347	1349	1126	Woodbury	6983	6574	7342	10369	17007	12041
Iowa	270	456	401	1103	1903	1360	Worth	-150	104	44	287	1056	999
Jackson	261	961	1272	2394	2881	1378	Wright	-228	97	113	879	2614	2275
Jasper	845	1287	1718	2681	4956	3181							
State of Iowa								100555	146419	149101	251440	366121	261017

## Births and Deaths in Incorporated Places and Unincorporated Areas in Iowa's Counties: 1992-1999

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In addition to reporting births and deaths for counties, the Iowa Department of Public Health lists them for incorporated places within counties and for the area outside the boundaries of such places. This section includes information for the years 1992 through 1999. Births are counted by the place of residence of the mother, which may not necessarily be the place in which the birth occurs. Similarly, deaths are reported by the place of residence of the deceased individual, although the death may have happened elsewhere.

Births and deaths are provided for each county as a whole, incorporated places within the county, and what is called the balance of the county in Table 1. Incorporated places are those officially recognized as such by the State of Iowa. The balance of the county includes two groups of residents—those living on farms and those living in unincorporated areas but not on farms; data are available only for the balance as a whole, however.

In 1999, births exceeded deaths (natural increase) in 53 of Iowa's 99 counties. Within each county, natural decrease (more deaths than births) was far more likely to occur in incorporated places than in the balance of a county's population. For example, only seven counties (Appanoose, Buena Vista, Cerro Gordo, Page, Taylor, Worth, Wright) had more deaths than births among the balance of the population, and these natural decreases never were as much as 15 that year. That's caused, at least in part, by a somewhat younger population living in areas defining the balance of the county, suggesting the possibility of more births. In addition, some farm residents or those living in unincorporated areas move to incorporated places late in life, which decreases potential deaths among residents living in the balance of the county.

Great variety occurs among incorporated places when births and deaths are compared. In some places, births outnumber deaths; in many others, there are more deaths than births. For some of these places, this is due in large part to the presence of facilities caring for older residents. It is evident that relatively great differences occur from one year to the next, especially in some of Iowa's smaller incorporated places.

Caution is urged in examining the figures for incorporated places. Several straddle the boundaries of two or more counties. When that occurs, the name of the place is followed by (part) in the table, which indicates that additional births and deaths for that place may be reported under one or more other counties.

**Note:** Comments on births and deaths across Iowa's 99 counties were included in the section of this volume entitled "Births, Deaths, and Natural Change in Iowa's Counties: 1939-1999". See an annual publication called VITAL STATISTICS OF IOWA for more detailed data on births and deaths for counties and for relatively large incorporated places (Iowa Department of Public Health, Lucas State Office Building, Des Moines, IA 50319).

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999.

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Adair County	71	76	68	61	80	93	74	105	133	96	117	135	111	127	122	107
Adair (part)	10	6	8	10	12	9	11	3	6	7	6	10	11	12	10	10
Bridgewater	0	2	4	0	1	3	1	2	2	1	4	4	8	6	6	2
Casey (part)	0	0	1	0	1	0	0	0	0	0	1	1	0	1	0	1
Fontanelle	5	11	5	7	5	6	9	8	32	20	17	25	18	22	21	12
Greenfield	17	20	24	18	19	21	13	32	49	33	38	50	32	38	36	39
Orient	5	6	4	4	3	10	2	8	5	6	8	3	2	4	8	7
Stuart (part)	2	4	0	2	1	4	3	6	17	18	22	20	17	18	17	15
Balance of Adair County	32	27	22	20	38	40	35	46	22	11	21	22	23	26	24	21
Adams County	47	50	33	48	36	64	51	41	64	68	56	55	75	66	61	56
Carbon	0	0	0	0	0	0	0	0	1	1	0	1	0	1	2	0
Corning	21	26	18	23	19	30	21	11	37	45	34	32	51	36	43	34
Lenox (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nodaway	3	2	1	4	1	1	1	1	4	2	0	1	3	2	0	1
Prescott	1	4	3	1	0	7	5	0	7	3	3	3	3	5	3	0
Balance of Adams County	22	18	11	20	16	26	24	29	15	17	19	18	18	22	13	21
Allamakee County	186	172	165	173	157	158	176	199	157	191	155	165	167	167	171	179
Harpers Ferry	3	3	4	5	8	7	10	6	3	5	1	3	5	3	1	4
Lansing	13	14	13	22	25	17	16	26	16	24	31	25	21	22	29	27
New Albin	13	13	11	9	13	9	11	14	2	5	6	7	8	6	9	5
Postville (part)	46	31	28	28	12	18	24	16	32	35	22	27	25	27	32	26
Waterville	3	2	0	4	3	5	3	7	0	0	4	2	4	1	4	0
Waukon	51	48	46	54	55	57	62	62	75	93	65	75	71	71	67	74
Balance of Allamakee County	57	61	63	51	41	45	50	68	29	29	26	26	33	37	29	43
Appanoose County	158	153	141	168	147	152	164	174	185	157	186	194	190	189	200	173
Centerville	85	52	68	84	73	72	78	87	91	84	97	106	103	102	112	83
Cincinnati	5	3	3	7	6	3	5	10	4	2	5	5	4	4	4	3
Exline	2	2	2	0	1	1	3	2	1	3	2	3	1	1	1	2
Moravia	3	9	7	9	5	6	4	5	11	8	13	6	9	8	10	5
Moulton	9	10	7	6	11	9	7	6	8	11	10	11	15	15	12	9
Mystic	5	6	6	6	2	8	12	8	1	7	6	5	8	8	4	5
Numa	0	1	1	0	1	2	2	0	3	1	0	1	4	0	2	2
Plano	0	1	0	1	0	0	1	1	1	0	2	2	0	1	1	0
Rathbun	0	0	0	0	0	0	0	0	1	0	0	1	1	2	0	1
Udell	0	1	0	0	0	2	1	0	0	0	1	0	0	0	0	0
Unionville	0	3	0	1	1	1	0	3	3	0	3	0	2	0	1	1
Balance of Appanoose County	49	65	47	54	47	48	51	52	61	41	47	54	43	48	53	62
Audubon County	68	72	82	63	75	88	72	70	80	90	64	100	98	109	107	118
Audubon	21	26	33	19	24	24	34	22	40	43	25	56	50	61	61	52
Brayton	1	3	1	1	2	2	0	2	1	0	3	0	2	2	3	4
Exira	6	8	5	9	7	11	8	3	22	30	20	27	28	27	15	37
Gray	3	1	1	1	2	1	0	1	1	1	1	0	0	1	2	1
Kimballton	0	3	2	4	1	5	4	3	7	3	2	6	6	5	9	7
Balance of Audubon County	37	31	40	29	39	45	26	39	9	13	13	11	12	13	17	17
Benton County	265	325	281	264	298	292	308	304	214	214	229	207	210	201	207	207
Atkins	20	11	14	17	12	15	16	9	3	8	4	3	2	3	1	6
Belle Plaine	26	33	30	31	31	36	32	40	34	36	47	48	43	35	39	37
Blairstown	4	10	4	6	11	14	15	7	7	4	12	2	7	8	7	8
Garrison	7	7	5	4	8	4	5	7	2	1	3	2	3	1	5	3
Keystone	5	12	3	2	6	7	5	3	15	18	16	23	17	21	13	20
Luzerne	0	8	0	2	2	5	1	1	0	3	0	0	1	0	1	1
Mount Auburn	0	1	2	3	1	2	0	4	0	1	3	5	5	3	1	1
Newhall	8	6	14	7	15	8	13	11	11	6	10	9	7	4	6	9
Norway	8	8	5	9	15	12	8	10	6	0	6	3	2	5	4	4
Shellsburg	14	12	15	15	13	14	15	16	9	6	5	8	7	4	7	7
Urbana	17	12	15	13	8	8	9	11	6	5	7	4	2	2	4	3
Van Horne	7	12	5	6	8	9	9	7	4	4	6	2	4	2	7	7
Vinton	64	81	70	54	75	59	71	64	75	88	72	72	76	70	69	71
Walford (part)	13	19	18	11	8	11	11	5	1	2	1	1	2	2	4	0
Balance of Benton County	72	93	81	84	85	88	98	109	41	32	37	25	32	41	39	30
Black Hawk County	1594	1638	1586	1601	1509	1605	1774	1651	1164	1159	1157	1143	1113	1239	1194	1130
Cedar Falls	301	319	333	290	309	300	353	340	304	293	295	292	264	303	280	269
Dunkerton	13	16	13	15	10	17	9	14	5	9	6	5	7	5	6	8
Elk Run Heights	5	8	9	11	11	9	12	13	3	7	7	5	12	6	4	4
Evansdale	45	51	45	77	58	66	63	51	50	37	40	36	43	31	36	40
Gilbertville	10	9	10	11	5	11	9	9	6	3	3	7	11	0	7	4
Hudson	16	21	20	27	17	23	20	22	11	11	16	14	8	16	10	9
Janesville (part)	1	1	1	0	3	3	6	0	0	0	2	0	0	2	1	0
La Porte City	32	28	31	35	27	35	29	24	26	24	29	37	32	29	26	31
Raymond	5	3	3	5	4	4	7	6	3	5	0	1	1	2	1	5
Waterloo	1063	1092	1041	1030	978	1031	1126	1046	694	727	710	675	683	798	771	719
Balance of Black Hawk County	103	90	80	100	87	106	140	126	62	43	49	71	52	47	52	41

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Boone County	318	295	289	299	309	313	274	289	309	326	300	301	307	304	307	266
Beaver	0	1	0	0	2	1	0	0	0	1	1	1	0	1	0	1
Berkley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boone	180	179	174	166	171	168	141	144	177	185	169	178	185	164	177	159
Boxholm	1	3	0	0	0	1	1	0	3	3	3	1	2	2	4	2
Fraser	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Luther	1	0	0	3	3	4	1	2	1	1	0	0	0	0	3	0
Madrid	38	36	35	30	29	37	31	39	53	61	59	57	46	57	51	47
Ogden	33	21	22	22	24	26	26	21	39	36	28	28	27	42	39	30
Pilot Mound	1	1	0	3	2	1	1	1	2	1	2	7	3	5	1	0
Sheidahl (part)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
Balance of Boone County	64	54	58	75	78	74	73	82	34	38	38	29	44	33	31	27
Bremer County	236	210	219	234	249	243	272	259	228	243	204	211	235	235	266	216
Denver	20	14	12	16	19	16	19	16	22	25	16	27	28	20	19	20
Frederika	2	5	3	0	3	2	1	3	4	2	2	1	1	3	2	0
Janesville (part)	10	5	10	7	8	10	9	6	8	6	5	7	4	7	8	3
Plainfield	8	7	2	5	3	9	5	3	4	7	5	6	5	7	4	6
Readlyn	9	10	7	8	9	17	12	9	7	10	3	6	10	6	9	6
Sumner	20	21	28	16	23	17	24	26	40	48	29	28	40	50	45	47
Tripoli	23	15	14	9	15	15	17	19	19	18	22	15	16	19	13	19
Waverly	86	71	75	96	96	77	98	92	83	91	89	82	97	89	116	78
Balance of Bremer County	58	62	68	77	73	80	87	85	41	36	33	39	34	34	50	37
Buchanan County	298	309	284	286	283	314	277	327	211	223	221	197	230	204	231	202
Aurora	2	3	2	2	2	2	1	1	6	3	3	2	6	6	5	3
Brandon	7	6	4	5	6	7	3	7	2	2	2	3	5	3	1	5
Fairbank (part)	9	12	11	12	15	9	10	18	7	10	3	9	9	6	6	8
Hazleton	16	15	15	11	12	19	13	18	12	11	9	12	9	5	10	15
Independence	82	76	67	73	81	86	77	90	95	100	93	81	88	81	100	67
Jesup	30	35	42	25	25	32	22	29	14	15	25	20	21	26	23	19
Lamont	12	9	8	7	5	9	3	6	7	4	7	8	13	11	14	8
Quasqueton	6	5	8	10	11	9	5	9	5	11	1	9	9	11	6	3
Rowley	5	6	1	3	1	4	3	6	3	5	3	5	3	4	1	3
Stanley (part)	2	1	2	2	3	1	0	2	1	0	1	0	2	0	3	0
Winthrop	10	9	11	8	10	11	12	8	12	11	17	8	11	10	11	13
Balance of Buchanan County	117	132	113	128	112	125	128	133	47	51	57	40	54	41	51	58
Buena Vista County	254	236	259	228	219	243	238	274	230	224	212	215	210	215	217	196
Albert City	14	8	9	7	7	12	8	12	15	26	13	9	14	8	13	12
Alta	30	25	26	17	18	23	22	29	22	9	13	13	13	13	14	17
Lakeside	3	2	1	5	4	6	6	7	3	6	3	1	2	5	2	4
Linn Grove	3	1	2	2	1	0	1	2	5	4	3	2	1	2	4	2
Marathon	4	3	1	1	4	1	3	3	6	5	8	10	2	7	7	2
Newell	12	14	14	5	9	9	10	14	21	16	16	19	17	18	9	11
Rembrandt	0	1	3	4	1	2	2	5	1	2	3	2	4	8	5	1
Sioux Rapids	10	6	11	10	7	10	7	7	17	17	12	21	21	15	25	20
Storm Lake	142	129	151	137	123	126	119	127	101	105	110	110	109	105	107	91
Truesdale	1	2	0	0	1	2	1	0	0	0	1	1	1	1	2	1
Balance of Buena Vista County	35	45	41	40	44	52	59	68	39	34	30	27	26	33	29	35
Butler County	159	162	160	148	166	163	169	159	181	188	192	177	201	202	195	202
Allison	5	5	11	7	10	7	7	10	20	21	14	24	24	24	23	21
Aplington	9	10	10	12	13	7	14	13	23	25	26	25	19	25	23	22
Aredale	2	1	2	1	0	0	3	0	1	3	1	1	4	2	2	1
Bristow	2	3	5	3	3	4	5	3	3	2	4	3	3	1	2	3
Clarksville	25	17	24	15	15	19	24	13	20	28	25	21	21	27	29	20
Dumont	1	12	7	8	6	9	7	9	13	14	19	12	12	11	18	19
Greene	5	10	11	13	12	6	9	9	24	26	24	16	29	19	21	20
New Hartford	9	6	5	6	10	14	12	8	6	4	5	6	3	5	6	7
Parkersburg	17	30	20	19	21	16	21	18	13	17	18	19	20	30	21	16
Shell Rock	21	13	13	9	12	14	13	10	26	20	25	17	29	19	18	24
Balance of Butler County	63	55	52	55	64	67	54	66	32	28	31	33	37	39	32	49
Calhoun County	103	114	97	115	114	106	90	120	163	152	178	153	181	141	169	185
Farnhamville (part)	5	8	4	7	2	3	5	2	9	10	2	8	3	3	2	5
Jolley	0	1	0	0	0	1	1	0	0	2	1	0	0	2	1	1
Knierim	1	3	0	1	0	0	3	1	0	1	1	0	0	0	0	1
Lake City	16	19	11	15	17	10	17	21	31	37	63	42	53	34	48	54
Lohrville	9	1	5	5	4	8	1	5	14	10	10	6	10	6	10	11
Lytton (part)	0	0	0	0	1	0	0	0	0	1	2	2	0	1	2	1
Manson	17	21	19	23	22	16	11	11	32	21	29	31	34	32	33	31
Pomeroy	6	9	11	4	8	5	4	5	12	18	18	20	13	15	20	18
Rinard	0	1	2	1	0	2	1	0	0	1	3	0	1	0	2	0
Rockwell City	18	20	16	16	20	26	13	17	39	33	32	30	37	28	30	31
Somers	1	1	3	4	4	1	4	3	0	1	1	1	1	0	2	1
Yetter	0	0	0	1	1	0	1	1	0	0	1	0	0	0	0	0
Balance of Calhoun County	30	30	26	38	35	34	29	54	26	17	15	13	29	20	19	31

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
<b>Carroll County</b>	252	246	238	260	283	269	258	271	269	253	242	243	219	229	229	233
Arcadia	6	8	3	11	7	4	4	7	5	3	8	5	3	3	7	3
Breda	3	8	2	4	6	9	3	8	4	5	7	6	11	9	1	7
Carroll	124	115	109	118	129	140	125	126	144	151	131	118	110	119	109	128
Coon Rapids	17	12	12	17	14	10	8	13	27	24	23	27	17	20	25	27
Dedham	2	8	8	4	2	3	1	2	2	3	1	6	5	3	2	1
Glidden	11	14	10	14	9	7	14	6	11	13	9	11	9	7	13	14
Halbur	3	6	6	4	3	4	5	4	1	1	2	1	3	0	1	3
Lanesboro	2	0	1	3	4	2	2	0	2	2	3	0	3	2	1	0
Lidderdale	0	1	6	2	2	3	1	4	2	0	1	0	2	1	2	2
Manning	11	14	11	18	16	13	14	13	38	20	30	34	24	29	23	25
Ralston (part)	1	2	1	1	1	1	3	1	2	0	0	0	2	0	0	1
Templeton	8	7	4	2	2	6	5	2	1	4	3	4	2	1	2	3
Willey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance of Carroll County	64	51	65	62	88	67	73	85	30	27	24	31	28	35	43	19
<b>Cass County</b>	155	144	160	152	152	150	178	169	220	193	197	202	213	175	180	184
Anita	13	8	5	7	12	5	9	8	29	14	19	25	17	34	22	15
Atlantic	83	75	81	78	90	85	89	78	122	111	108	107	116	83	86	102
Cumberland	2	3	4	2	2	2	1	3	5	1	4	6	3	3	2	5
Griswold	15	10	12	8	10	9	13	11	29	29	25	18	27	24	29	22
Lewis	7	3	3	2	2	3	4	4	5	5	7	2	4	4	1	4
Marne	0	1	2	2	1	4	3	5	2	1	0	0	4	2	1	1
Massena	6	3	3	5	3	4	4	3	2	3	6	6	7	4	5	5
Wiota	3	1	2	0	2	1	3	0	2	1	0	3	1	3	1	1
Balance of Cass County	26	40	48	48	30	37	52	57	24	28	28	35	34	18	33	29
<b>Cedar County</b>	181	185	198	195	204	193	203	197	165	184	199	172	177	175	157	155
Bennett	2	6	7	4	2	10	10	8	0	7	5	3	0	4	4	2
Clarence	18	12	8	12	12	14	11	12	18	19	23	15	28	18	20	16
Durant (part)	10	10	8	15	21	15	13	13	8	14	7	12	16	16	13	8
Lowden	7	10	6	9	7	7	9	12	12	8	9	12	7	8	7	11
Mechanicsville	10	16	13	13	17	13	9	16	22	27	26	23	19	21	18	21
Stanwood	7	4	5	8	7	14	8	11	7	4	11	5	3	6	5	3
Tipton	34	32	43	38	43	36	35	26	47	41	41	41	34	44	32	36
West Branch	22	19	31	30	27	15	18	21	23	29	35	24	29	27	18	23
Wilton (part)	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
Balance of Cedar County	71	76	77	66	67	68	89	77	28	35	42	37	41	31	40	35
<b>Cerro Gordo County</b>	551	525	525	600	591	587	592	600	515	569	492	527	539	489	504	490
Clear Lake	95	87	103	114	131	109	100	113	100	91	82	83	97	89	89	91
Dougherty	0	1	0	1	0	0	3	1	1	2	3	3	1	1	3	2
Mason City	374	355	339	419	376	384	376	398	344	398	333	354	356	336	336	338
Meservey	3	2	1	3	1	1	3	0	3	2	1	8	7	4	9	7
Plymouth	6	6	5	5	1	3	8	2	1	2	2	4	11	2	4	5
Rock Falls	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Rockwell	13	10	16	7	18	16	13	10	15	22	16	20	17	18	22	11
Swaledale	4	1	5	1	1	1	4	5	1	3	1	5	1	1	0	2
Thornton	3	5	4	5	3	10	6	7	2	5	16	8	6	6	2	3
Ventura	10	2	6	7	8	6	5	4	4	5	6	8	8	6	11	6
Balance of Cerro Gordo County	41	56	45	37	52	57	74	60	44	39	32	34	35	26	28	25
<b>Cherokee County</b>	134	131	142	115	134	157	141	158	177	169	164	192	141	158	158	163
Aurelia	13	11	12	13	6	14	6	6	22	24	22	28	16	21	25	16
Cherokee	60	44	56	43	52	62	66	73	94	78	95	95	77	88	85	105
Cleghorn	5	2	5	1	2	3	2	1	3	3	4	0	0	0	2	1
Larrabee	0	2	1	1	2	1	1	0	2	2	2	3	2	1	1	2
Marcus	11	10	7	11	11	18	17	12	24	27	19	27	11	13	14	11
Meriden	1	3	1	3	2	2	0	1	2	1	3	0	0	2	1	0
Quimby	2	9	6	3	6	10	6	9	4	2	2	7	4	2	5	3
Washta	5	2	4	5	4	1	5	5	2	3	1	3	3	4	0	2
Balance of Cherokee County	37	48	50	35	49	46	38	51	24	29	16	29	28	27	25	23
<b>Chickasaw County</b>	138	126	157	123	152	169	179	166	146	127	135	137	161	168	156	124
Alta Vista	4	4	2	2	4	6	5	5	5	3	1	9	3	8	7	3
Bassett	0	0	1	1	0	0	3	0	0	1	1	0	0	1	0	0
Fredericksburg	11	8	11	5	10	15	5	12	15	18	13	18	19	17	16	10
Ionia	6	2	2	3	4	5	6	4	5	2	2	2	6	2	4	5
Lawler	3	4	5	2	5	6	3	5	4	3	3	6	13	8	4	4
Nashua	23	16	23	18	16	20	25	23	20	19	17	15	17	22	16	13
New Hampton	37	29	56	40	42	50	49	45	66	52	62	53	66	67	74	50
North Washington	0	0	0	0	1	0	0	0	1	0	0	2	1	1	2	0
Balance of Chickasaw County	54	63	57	52	70	67	83	72	30	29	36	32	36	42	33	39



Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Clarke County	107	99	83	87	102	82	81	105	102	105	80	102	106	91	106	103
Murray	5	5	8	9	7	4	10	11	7	15	2	11	8	8	7	7
Osceola	69	63	54	51	60	45	41	50	78	71	62	67	75	59	76	70
Woodburn	9	4	1	5	0	3	3	2	4	1	1	4	5	5	1	0
Balance of Clarke County	24	27	20	22	35	30	27	42	13	18	15	20	18	19	22	26
Clay County	195	179	197	188	206	219	190	235	185	201	168	165	213	165	182	172
Dickens	2	2	4	4	4	3	4	4	2	2	0	1	3	0	1	1
Everly	7	5	5	10	3	6	8	6	10	14	5	9	3	8	4	10
Fostoria	2	2	3	0	3	4	2	4	0	4	5	1	4	2	2	1
Gillett Grove	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Greenville	1	2	1	2	0	1	0	2	0	2	2	2	1	0	1	1
Peterson	8	1	2	4	2	4	3	3	8	9	9	6	7	9	7	5
Rossie	0	1	0	1	1	0	2	0	0	1	0	3	0	0	1	0
Royal	5	2	6	2	7	10	2	9	5	4	9	4	7	4	4	7
Spencer	128	138	133	133	149	145	134	148	128	130	121	124	146	116	135	114
Webb	5	2	3	2	1	2	2	1	3	2	3	2	3	2	2	2
Balance of Clay County	37	24	40	30	36	44	33	58	29	33	14	13	39	24	25	31
Clayton County	193	207	195	176	206	207	242	228	242	255	187	220	226	219	214	220
Clayton	0	0	0	0	0	0	0	0	1	0	2	0	1	0	1	2
Edgewood (part)	2	0	5	5	7	5	3	4	6	4	5	3	4	2	5	5
Elkader	11	18	11	13	10	10	15	25	21	22	21	30	38	29	30	28
Elkport	0	0	1	1	4	0	0	1	0	0	0	0	0	0	0	0
Farmersburg	9	4	6	7	4	4	1	3	2	2	3	5	2	5	4	1
Garber	1	1	2	2	4	0	0	0	0	0	0	0	0	0	0	2
Garnavillo	6	9	8	10	6	10	10	4	14	11	13	11	11	12	13	14
Guttenberg	17	30	19	22	28	22	28	22	56	42	31	49	36	52	46	53
Littleport	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	3
Luana	4	6	3	2	5	4	3	8	2	3	3	1	2	1	3	5
Marquette	5	5	5	6	7	2	7	9	3	8	2	1	6	4	7	5
McGregor	9	11	12	12	14	16	21	18	22	24	7	12	18	12	15	11
Millville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monona	18	17	20	19	16	19	24	18	21	26	26	23	24	16	18	18
North Buena Vista	2	0	2	1	1	2	1	0	1	2	2	0	0	0	2	0
Osterdock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Postville (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Olaf	1	4	3	1	2	2	0	0	5	3	1	3	4	2	0	1
Strawberry Point	21	17	11	16	15	12	17	9	37	43	30	30	30	27	22	30
Volga	3	1	4	2	7	3	2	4	3	4	1	0	4	1	4	3
Balance of Clayton County	83	84	83	57	76	96	110	102	48	61	40	52	46	56	43	39
Clinton County	629	677	629	602	657	645	680	680	574	531	575	565	545	531	548	518
Andover	1	1	1	0	1	2	1	0	0	1	4	0	1	0	0	1
Calamus	2	1	1	6	2	7	5	5	3	1	3	5	8	3	5	6
Camanche	44	47	33	37	45	44	32	44	52	25	30	34	30	32	39	28
Charlotte	6	10	7	5	6	8	6	6	1	1	1	2	6	7	5	4
Clinton	360	403	376	365	401	377	431	429	380	332	377	383	344	349	344	320
Delmar	5	3	6	4	7	6	6	6	5	9	3	5	2	3	6	6
De Witt	25	51	35	50	57	57	52	57	57	65	68	57	54	51	53	49
Goose Lake	4	4	4	3	3	6	1	1	2	2	1	2	2	3	2	4
Grand Mound	1	9	3	10	9	10	10	3	4	6	6	2	6	8	7	12
Lost Nation	5	4	7	6	7	2	6	3	8	9	8	5	3	8	10	5
Low Moor	8	3	5	2	2	3	4	4	2	1	1	1	3	5	4	3
Toronto	0	2	0	1	1	1	2	2	1	0	0	1	2	2	2	3
Welton	2	7	2	4	2	0	2	2	3	1	1	1	0	1	0	1
Wheatland	6	5	5	6	5	9	10	13	16	24	21	12	19	16	12	21
Balance of Clinton County	160	127	144	103	109	113	112	105	40	54	51	55	65	43	59	55
Crawford County	205	193	211	232	178	176	208	196	181	163	178	181	152	172	179	171
Arion	5	1	2	5	2	2	1	0	1	0	0	2	2	0	2	0
Aspinwall	0	1	0	1	0	1	0	0	2	1	0	1	0	0	2	1
Buck Grove	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charter Oak	6	3	4	10	6	5	13	11	7	10	8	5	7	9	6	7
Deloit	1	3	3	3	3	5	1	6	4	2	3	4	2	0	3	5
Denison	100	85	97	99	79	70	90	86	103	90	90	93	77	88	90	83
Dow City	5	4	5	7	7	8	3	3	5	3	8	3	6	11	5	6
Kiron	4	2	5	5	3	7	4	1	3	4	5	4	2	1	3	3
Manilla	13	12	15	10	5	6	9	8	18	21	18	18	29	17	25	17
Ricketts	1	1	2	2	2	0	1	0	0	1	2	2	0	2	1	3
Schleswig	10	11	15	8	7	6	5	5	15	4	6	7	4	8	6	17
Vail	6	12	5	8	5	3	9	8	0	3	8	3	3	7	4	6
Westside	2	4	3	6	9	6	5	4	3	2	3	3	1	2	3	1
Balance of Crawford County	52	54	55	68	50	57	67	64	20	22	27	36	19	27	29	22

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Dallas County	504	527	482	501	477	440	425	422	341	299	317	301	300	295	274	273
Adele	58	41	46	47	44	40	47	38	43	35	39	33	34	36	33	36
Bouton	2	2	2	3	3	0	2	2	0	2	1	0	0	3	1	1
Clive (part)	4	7	8	16	7	9	3	0	2	0	0	0	1	0	0	0
Dallas Center	17	27	14	19	20	32	19	25	18	22	26	19	17	15	15	19
Dawson	5	2	3	1	5	3	3	3	3	0	4	3	2	0	1	0
De Soto	16	17	25	23	15	16	11	20	4	1	6	5	8	4	6	3
Dexter	13	15	9	15	8	8	11	9	6	1	8	8	10	6	3	5
Granger	15	11	6	2	13	13	11	9	27	19	20	28	16	18	16	17
Grimes (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Linden	2	4	2	4	5	0	3	4	1	3	4	5	2	3	4	4
Minburn	6	5	5	8	4	5	8	8	3	6	3	2	2	6	3	3
Perry	114	124	136	124	114	99	108	86	129	104	95	106	107	120	104	91
Redfield	4	15	8	18	12	13	10	17	8	9	7	4	6	15	5	9
Urbandale (part)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Van Meter	12	11	12	15	8	10	19	13	2	6	2	5	9	4	5	3
Waukee	100	86	68	59	73	58	53	43	19	21	17	19	16	10	18	19
West Des Moines (part)	1	11	1	7	8	21	6	0	4	1	1	1	1	1	0	0
Woodward	16	21	13	15	14	22	18	15	18	18	26	21	31	19	15	19
Balance of Dallas County	119	128	124	125	124	91	93	130	53	51	58	42	38	35	45	44
Davis County	102	102	119	128	94	127	118	107	82	113	79	103	119	91	107	87
Bloomfield	26	27	24	26	23	27	26	30	44	65	48	58	60	39	59	46
Drakesville	7	0	2	2	2	2	1	2	3	2	2	1	4	2	6	3
Floris	2	1	1	6	2	1	1	0	0	3	0	1	1	2	1	1
Pulaski	1	2	3	4	2	1	3	2	1	3	0	0	2	3	3	2
Balance of Davis County	66	72	89	90	65	96	87	73	34	40	29	43	52	45	38	35
Decatur County	90	92	98	97	97	113	88	88	104	99	132	102	89	113	118	128
Davis City	4	7	6	8	7	10	7	2	1	3	2	4	2	5	4	5
Decatur City	2	3	2	2	1	2	0	4	7	3	1	4	4	0	8	2
Garden Grove	5	1	1	3	2	1	2	5	3	6	4	1	2	3	4	3
Grand River	5	5	4	2	1	7	0	1	1	1	1	1	3	5	1	2
Lamoni	15	15	22	15	14	16	12	13	18	24	38	24	13	24	29	27
Leon	28	21	23	20	29	33	22	29	49	37	57	41	40	50	48	57
Le Roy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleasanton	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	1
Van Wert	5	4	9	2	5	5	6	2	1	4	3	3	3	1	2	2
Weldon	0	2	4	3	4	2	5	3	1	1	2	0	2	1	3	2
Balance of Decatur County	26	34	27	42	34	37	34	29	21	20	24	24	19	24	18	27
Delaware County	196	247	208	233	213	268	262	261	155	140	152	158	171	149	173	181
Colesburg	3	5	4	4	5	5	3	6	3	4	3	2	3	11	5	1
Delaware	0	2	1	4	2	6	7	1	3	2	5	4	5	7	6	0
Delhi	2	7	3	3	5	0	0	4	0	0	0	0	0	2	0	5
Dundee	2	4	3	2	1	2	1	3	0	1	1	2	2	3	0	1
Dyersville (part)	1	2	0	1	1	0	2	1	0	0	0	0	0	0	0	0
Earlville	13	7	9	12	8	10	12	8	8	8	3	7	8	6	1	9
Edgewood (part)	11	13	9	9	12	7	4	6	22	15	15	19	18	7	22	15
Greeley	2	7	4	5	3	3	4	4	1	4	4	3	4	6	3	2
Hopkinton	3	9	5	8	12	8	9	9	6	7	14	14	7	7	9	10
Manchester	60	78	58	57	61	81	74	72	59	65	68	67	80	63	86	90
Masonville	1	1	4	1	1	0	1	0	1	0	1	2	1	0	2	3
Oneida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Ryan	4	11	8	12	6	7	6	6	2	4	1	0	3	3	3	3
Balance of Delaware County	94	101	100	115	96	139	139	141	50	30	37	38	40	34	35	42
Des Moines County	520	514	549	565	523	524	558	568	468	429	445	454	468	412	428	399
Burlington	365	367	391	403	361	362	400	376	338	304	321	321	338	311	319	279
Danville	15	13	11	20	14	14	2	11	17	20	11	19	12	14	16	13
Mediapolis	22	26	20	16	18	19	21	26	41	31	25	28	33	23	21	20
Middletown	4	7	6	8	11	8	10	9	2	0	1	1	3	4	2	0
West Burlington	53	29	39	40	33	27	33	43	27	23	35	35	34	26	23	22
Balance of Des Moines County	61	72	82	78	86	94	92	103	43	51	52	50	48	34	47	65
Dickinson County	172	176	169	148	137	148	127	152	166	193	173	181	179	184	172	149
Arnolds Park	13	11	15	8	12	8	7	14	10	17	13	15	13	8	11	4
Lake Park	9	7	15	11	12	15	8	13	22	18	20	27	21	16	15	19
Milford	34	30	32	34	26	25	29	29	27	42	33	34	38	31	32	22
Okobojo	3	9	9	6	7	5	4	7	12	10	8	10	8	5	8	10
Orleans	0	0	0	0	0	0	1	0	2	0	1	4	0	0	0	0
Spirit Lake	68	65	52	44	47	49	41	48	61	63	58	59	65	62	57	53
Superior	2	1	3	2	4	2	2	2	1	3	3	4	0	4	3	3
Terril	7	8	5	5	3	2	1	2	6	4	0	4	3	1	4	5
Wahpeton	0	2	0	0	1	2	3	0	3	2	2	0	0	2	0	0
West Okobojo	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0
Balance of Dickinson County	36	43	38	38	25	40	31	37	22	33	34	24	31	54	42	33

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Dubuque County	1154	1152	1143	1197	1188	1176	1252	1168	889	870	791	820	846	871	854	810
Asbury	0	0	0	0	1	0	4	3	3	1	0	2	5	4	4	3
Balltown	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0
Bankston	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bernard	1	2	1	5	4	1	2	1	2	0	3	0	3	1	0	1
Cascade (part)	34	22	16	28	32	24	28	17	27	20	18	22	26	26	20	17
Centralia	1	0	0	0	0	1	0	1	0	1	0	0	1	0	0	1
Dubuque	731	799	780	803	776	797	867	809	716	705	635	642	661	663	677	643
Durango	1	2	3	2	1	2	0	1	1	2	1	0	0	1	0	1
Dyersville (part)	58	49	55	59	63	54	56	60	32	38	32	44	44	46	39	39
Epworth	17	13	18	15	17	21	22	22	8	5	8	3	6	9	4	6
Farley	30	20	24	20	19	23	19	17	13	8	13	13	9	10	7	10
Graf	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Holy Cross	9	0	5	9	14	5	6	2	4	5	4	2	1	4	2	3
Luxemburg	1	3	4	1	2	3	2	4	3	4	1	0	1	3	5	1
New Vienna	4	6	4	4	7	2	6	3	3	5	3	3	5	8	4	4
Peosta	26	12	11	10	10	9	6	7	1	3	2	0	2	2	1	0
Rickardsville	0	1	1	0	1	2	0	1	0	0	0	1	0	1	0	1
Sageville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sherrill	3	2	4	3	6	8	2	3	3	1	5	1	1	1	1	2
Worthington	7	2	3	6	6	3	3	7	6	4	2	1	4	5	10	3
Zwingle (part)	0	2	1	0	0	0	1	0	1	0	0	0	2	2	0	0
Balance of Dubuque County	231	217	213	232	228	221	228	210	64	68	64	86	75	83	80	75
Emmet County	124	126	118	134	108	109	141	135	119	133	143	142	129	133	146	147
Armstrong	7	16	6	12	12	4	9	13	9	26	18	19	12	19	19	26
Dolliver	1	1	1	0	1	0	1	1	1	0	1	2	2	0	3	0
Estherville	91	83	84	83	62	75	92	84	85	93	96	89	92	91	91	96
Gruver	0	2	3	1	1	2	3	1	0	1	0	0	0	1	2	1
Ringsted	3	3	1	6	1	4	5	4	7	2	7	4	6	5	8	6
Wallingford	1	3	4	4	4	2	6	4	4	0	2	3	0	1	0	2
Balance of Emmet County	21	18	19	28	27	22	25	28	13	11	19	25	17	16	23	16
Fayette County	230	235	260	249	271	302	255	278	257	270	259	259	232	255	255	242
Arlington	7	5	5	2	11	7	5	11	8	6	9	10	9	7	8	5
Clermont	6	5	11	8	7	7	5	5	8	12	7	6	8	5	3	6
Elgin	9	3	6	7	8	2	5	9	11	7	11	6	4	10	7	9
Fairbank (part)	4	1	1	1	3	3	5	5	1	3	0	1	4	0	1	1
Fayette	16	14	18	18	20	10	14	16	20	9	17	24	15	23	17	20
Hawkeye	5	4	6	4	4	4	7	6	4	6	3	4	4	4	3	8
Maynard	5	9	3	4	4	7	4	3	9	5	9	10	3	10	2	7
Oelwein	71	79	77	96	82	105	75	78	99	118	108	115	96	108	105	81
Randalia	2	0	0	1	2	1	1	4	1	0	2	0	1	0	2	1
St. Lucas	2	1	0	0	4	3	1	3	3	2	4	4	1	4	7	3
Stanley (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wadena	4	2	3	0	7	6	1	0	5	5	3	2	2	2	5	7
Waucoma	3	3	5	4	3	2	5	2	4	6	6	5	5	5	5	3
Westgate	3	3	1	2	3	0	0	2	1	0	1	0	0	1	0	1
West Union	27	37	29	28	28	33	36	36	48	42	37	37	43	42	34	29
Balance of Fayette County	66	69	95	74	85	112	91	98	35	49	42	35	37	34	56	61
Floyd County	192	196	209	194	203	186	200	204	220	206	200	215	211	198	220	216
Charles City	84	90	100	95	101	87	98	92	133	129	125	135	136	120	131	120
Colwell	1	1	1	1	0	2	2	1	0	0	0	1	0	0	0	2
Floyd	5	1	3	7	6	4	4	4	1	0	4	6	4	5	6	5
Marble Rock	5	9	6	4	5	3	9	3	7	11	5	1	2	10	7	7
Nora Springs	25	23	21	17	19	18	11	19	36	21	24	25	24	18	26	22
Rockford	8	9	7	16	12	8	16	12	12	10	8	11	8	8	8	13
Rudd	4	8	5	4	7	5	8	3	4	3	9	4	2	10	8	7
Balance of Floyd County	60	55	66	50	53	59	52	70	27	32	25	32	35	27	34	40
Franklin County	120	112	130	126	116	133	120	126	137	137	135	135	142	138	145	117
Ackley (part)	0	1	0	0	1	1	2	1	0	0	0	0	0	1	1	1
Alexander	0	3	4	2	0	3	1	1	3	2	3	1	2	1	0	2
Coulter	2	3	4	3	2	2	3	1	1	0	6	0	6	0	3	3
Dows (part)	0	0	1	1	0	1	1	0	2	2	1	1	1	0	3	2
Geneva	1	0	0	5	4	3	2	2	2	6	4	1	1	2	1	3
Hampton	63	53	67	57	57	57	52	52	81	79	66	74	93	82	66	58
Hansell	1	0	0	0	0	2	0	0	1	3	0	0	1	2	2	0
Latimer	6	5	7	8	4	5	4	8	8	10	7	10	2	4	11	1
Popejoy	1	0	0	0	1	1	1	0	2	0	2	0	0	0	1	0
Sheffield	20	18	14	17	12	19	8	12	19	14	24	21	17	23	20	16
Balance of Franklin County	26	29	33	33	35	39	46	49	18	21	22	27	19	23	37	31

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Fremont County	98	89	94	60	85	79	90	103	105	124	113	122	131	129	115	127
Farragut	5	3	4	4	5	3	8	7	7	5	5	10	6	7	7	5
Hamburg	16	18	12	14	13	15	17	25	14	22	22	18	34	22	31	26
Imogene	2	0	2	1	0	0	2	1	0	3	1	1	3	2	2	1
Randolph	5	1	2	2	4	0	2	2	4	2	3	4	3	3	1	4
Riverton	4	4	5	1	5	3	6	4	5	4	5	6	4	7	3	4
Shenandoah (part)	0	0	1	1	0	0	0	0	0	0	0	1	0	1	0	0
Sidney	20	16	13	12	11	23	14	15	28	33	24	36	21	36	26	27
Tabor (part)	10	9	12	6	11	10	5	9	20	25	26	22	23	10	13	26
Thurman	7	4	5	1	6	2	4	3	5	5	4	1	5	7	6	4
Balance of Fremont County	29	34	38	18	30	23	32	37	22	25	23	23	32	34	26	30
Greene County	125	110	110	120	112	108	129	123	142	148	131	153	138	104	116	141
Churdan	6	3	2	5	5	6	4	4	7	8	9	13	10	5	3	13
Dana	1	0	3	0	1	1	0	1	0	1	0	0	1	2	0	0
Grand Junction	16	12	11	8	8	16	12	10	6	10	13	10	6	8	4	10
Jefferson	56	40	45	57	45	43	57	54	95	93	75	92	84	63	81	81
Paton	5	2	2	2	6	4	8	2	6	3	8	2	7	4	2	4
Ralston (part)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Ripley	5	8	6	5	5	2	3	4	2	2	4	6	1	1	1	5
Scranton	9	7	7	7	6	5	6	7	7	10	8	15	12	6	7	10
Balance of Greene County	27	38	34	36	36	30	39	41	19	21	14	15	17	15	18	18
Grundy County	104	136	128	124	98	111	141	113	133	144	135	141	134	122	127	89
Beaman	6	1	1	2	1	2	2	0	2	1	3	3	1	1	0	2
Conrad	12	10	13	13	8	14	12	17	18	15	19	12	16	18	17	18
Dike	7	14	9	14	10	13	11	8	5	7	6	10	8	7	9	5
Grundy Center	18	25	25	29	14	23	23	17	47	46	43	55	36	33	42	25
Holland	5	2	3	5	6	3	7	4	3	6	0	0	4	3	7	0
Morrison	1	0	0	1	0	1	2	1	1	0	0	0	0	3	1	1
Reinbeck	14	23	19	17	12	10	18	21	25	32	33	27	21	21	19	16
Stout	1	1	3	2	1	2	2	1	2	0	0	1	2	0	2	0
Wellsburg	11	6	6	8	3	3	7	3	11	13	14	11	14	9	10	7
Balance of Grundy County	29	54	49	33	43	40	57	41	19	24	17	22	32	27	20	15
Guthrie County	140	122	127	130	121	126	105	155	132	150	118	146	147	139	145	136
Adair (part)	0	0	0	1	0	0	0	0	12	8	7	11	9	9	10	6
Bagley	4	5	5	3	5	4	0	11	3	2	5	3	5	3	8	2
Bayard	5	5	6	3	6	7	11	8	12	19	14	18	12	10	18	13
Casey (part)	5	5	6	6	3	6	4	8	3	8	2	5	10	5	12	4
Coon Rapids (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Guthrie Center	24	21	20	26	13	25	14	23	32	33	27	30	39	33	25	35
Jamaica	5	4	4	3	4	2	4	5	3	3	5	2	2	4	3	1
Menlo	5	3	4	3	8	1	1	6	2	5	1	4	6	5	6	2
Panora	15	18	18	16	15	18	9	17	33	28	26	30	23	35	24	29
Stuart (part)	27	22	21	11	21	13	17	14	6	15	7	5	8	6	8	12
Yale	3	8	4	1	3	9	3	2	2	1	5	1	7	4	4	2
Balance of Guthrie County	47	31	39	57	43	41	42	61	24	28	19	37	26	25	27	30
Hamilton County	206	218	210	182	193	203	193	206	176	154	193	183	186	154	171	183
Blairsburg	3	3	2	5	4	5	3	4	0	1	3	2	5	2	1	3
Ellsworth	15	8	11	6	5	6	4	6	7	6	3	2	4	5	3	9
Jewell Junction	16	17	15	13	13	17	16	13	9	7	5	12	11	11	9	12
Kamrar	3	1	3	1	3	2	3	2	1	2	2	4	2	4	2	1
Randall	5	1	3	5	3	2	2	2	0	1	2	1	2	1	3	1
Stanhope	8	10	3	2	5	4	4	5	4	4	4	6	5	3	2	4
Stratford (part)	8	14	10	7	9	11	4	8	17	14	20	25	17	13	25	14
Webster City	109	115	112	93	99	101	100	101	121	102	122	111	107	91	99	111
Williams	4	7	4	13	3	5	6	4	2	4	3	5	4	5	8	3
Balance of Hamilton County	35	42	47	37	49	50	51	61	15	13	29	15	29	19	19	25
Hancock County	127	135	127	121	122	125	125	142	133	117	128	130	153	124	135	132
Britt	24	32	26	14	16	21	30	19	36	35	31	40	36	31	40	34
Corwith	3	3	5	5	4	1	5	2	9	4	4	5	2	5	4	6
Crystal Lake	3	5	3	4	4	3	3	7	2	5	2	6	2	6	4	9
Forest City (part)	3	1	3	1	1	2	0	0	1	1	1	2	0	1	0	1
Garner	38	29	35	40	36	26	25	31	46	34	33	30	40	36	36	29
Goodell	0	0	2	0	0	0	0	3	2	0	1	0	2	1	0	1
Kanawha	8	10	10	9	8	8	5	7	19	9	15	21	28	18	20	17
Klemme	10	8	7	7	6	7	6	12	4	7	5	5	12	3	8	9
Woden	2	5	0	4	2	2	2	1	1	1	4	0	1	7	5	5
Balance of Hancock County	36	42	36	37	45	55	49	60	13	21	32	21	30	16	18	21

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Hardin County	235	206	189	216	244	218	204	192	244	294	247	241	225	244	243	267
Ackley (part)	28	19	18	16	16	24	16	15	33	43	44	25	36	38	30	47
Alden	11	6	12	9	19	12	13	19	3	10	3	4	10	7	6	12
Buckeye	1	2	4	0	0	0	0	1	3	0	2	2	1	1	1	0
Eldora	39	37	28	29	35	35	35	28	42	51	50	60	38	61	56	55
Hubbard	8	7	8	7	11	14	6	7	26	24	9	5	7	5	12	6
Iowa Falls	55	51	55	67	78	53	59	47	94	105	82	95	83	78	81	95
New Providence	4	3	3	4	3	6	1	3	1	1	4	0	2	3	4	3
Owasa	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Radcliffe	11	8	6	11	5	5	5	3	4	8	9	5	4	5	12	3
Steamboat Rock	5	2	4	4	6	5	2	2	1	5	4	6	7	5	2	4
Union	4	6	5	6	3	9	9	3	1	2	3	3	7	4	6	9
Whitten	0	0	2	2	4	1	1	2	0	1	0	1	1	1	4	2
Balance of Hardin County	69	65	44	61	64	54	57	62	36	44	37	34	29	36	29	31
Harrison County	179	166	179	173	174	175	179	200	219	209	173	227	189	180	230	200
Dunlap	10	14	14	6	6	13	13	11	20	35	20	35	24	20	27	27
Little Sioux	4	2	4	3	3	3	4	3	5	3	2	3	6	6	1	2
Logan	16	18	16	22	16	12	18	15	36	28	29	34	39	27	38	33
Magnolia	1	1	0	3	2	0	2	2	2	2	1	1	2	1	2	1
Missouri Valley	48	41	48	40	42	36	40	50	73	51	47	51	39	44	70	45
Modale	5	8	3	6	2	6	2	5	4	5	1	7	4	3	4	2
Mondamin	4	7	10	5	4	5	2	4	3	7	7	3	2	5	3	4
Persia	9	5	2	8	5	4	4	1	4	1	3	6	0	1	3	5
Pisgah	2	0	3	2	4	5	5	5	3	1	5	4	6	4	6	6
Woodbine	23	16	20	17	17	18	19	23	35	29	16	37	29	28	33	45
Balance of Harrison County	57	54	59	61	73	73	70	81	34	47	42	46	38	41	43	30
Henry County	246	250	241	203	276	239	252	256	214	183	196	188	200	197	233	200
Coppock (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hillsboro	1	2	3	7	3	4	1	2	1	3	0	3	2	1	3	0
Mount Pleasant	111	114	98	98	114	125	103	112	90	81	92	86	90	92	101	96
Mount Union	6	2	0	6	2	4	7	2	0	0	2	0	1	2	1	1
New London	26	29	35	19	33	25	38	24	30	20	28	24	29	23	33	26
Olds	3	6	1	5	2	4	3	6	3	4	3	3	2	2	1	1
Rome	0	2	1	1	1	0	1	0	0	0	0	1	1	0	0	1
Salem	9	4	5	5	7	2	11	7	4	7	7	6	4	8	7	3
Wayland	7	7	8	7	10	8	10	8	20	15	17	18	12	18	16	12
Westwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winfield	17	17	21	5	20	8	14	17	25	18	10	15	23	22	26	25
Balance of Henry County	66	67	69	50	84	59	64	78	41	35	37	32	36	29	45	35
Howard County	117	112	124	92	118	96	112	126	136	146	139	123	133	132	125	122
Chester	1	1	1	2	0	1	0	0	3	4	0	4	3	3	0	1
Cresco	55	48	57	42	46	42	56	45	79	62	72	62	60	71	55	67
Elma	3	5	8	5	7	2	7	10	12	21	8	11	20	15	17	9
Lime Springs	10	5	4	3	9	3	4	8	11	13	11	8	8	12	4	6
Protivin	1	3	1	1	2	2	3	4	7	5	8	9	6	8	8	7
Riceville (part)	4	1	0	2	4	3	6	4	1	4	9	3	5	1	1	6
Balance of Howard County	43	49	53	37	50	43	36	55	23	37	31	26	31	22	40	26
Humboldt County	130	107	128	111	107	118	110	100	126	112	116	130	130	115	141	140
Bode	5	3	8	4	2	8	2	6	6	2	6	5	6	5	7	5
Bradgate	1	0	1	0	1	1	0	1	2	2	3	0	1	0	1	3
Dakota City	10	13	13	12	3	10	13	8	4	5	7	10	10	9	4	7
Gilmore City (part)	6	1	5	7	2	2	6	3	2	4	5	6	1	4	2	1
Hardy	1	1	0	2	0	0	1	0	0	1	1	1	1	1	2	0
Humboldt	54	38	48	45	51	50	40	33	81	76	62	82	79	69	96	75
Livermore	3	2	4	4	2	7	4	2	4	7	5	6	7	9	5	11
Lu Verne (part)	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0
Ottosen	2	1	1	0	1	0	1	0	0	1	1	0	1	2	1	0
Pioneer	0	0	1	0	1	1	0	0	0	1	1	1	0	0	0	0
Renwick	3	2	2	2	1	4	8	4	7	1	5	4	6	3	5	4
Rutland	1	2	2	0	2	0	0	0	1	0	2	0	1	1	3	0
Thor	2	2	2	1	4	2	3	3	3	0	2	2	1	2	0	5
Balance of Humboldt County	42	42	41	34	37	33	32	40	15	12	16	13	15	9	14	29
Ida County	80	90	99	99	73	86	93	94	115	111	85	101	125	109	117	104
Arthur	3	3	4	1	1	4	4	4	4	6	5	5	5	3	6	6
Battle Creek	5	4	3	7	9	4	11	9	14	16	12	19	8	16	18	18
Galva	3	6	7	1	3	2	3	3	6	2	5	6	8	3	6	7
Holstein	17	22	19	23	12	12	13	14	17	30	16	23	40	28	25	17
Ida Grove	24	27	34	31	26	32	24	28	48	38	32	39	49	43	45	40
Balance of Ida County	28	28	32	36	22	32	38	36	26	19	15	9	15	16	17	16

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Iowa County	178	174	156	227	192	212	213	196	183	173	156	183	176	164	172	163
Ladora	3	5	1	6	5	5	7	4	7	3	0	4	5	5	3	2
Marengo	34	29	27	46	36	35	28	34	42	48	36	47	44	38	39	35
Millersburg	3	2	1	2	5	1	5	1	1	3	0	4	2	4	1	1
North English (part)	10	14	11	19	12	15	12	9	20	23	19	26	18	16	23	33
Parnell	2	3	6	2	0	3	6	6	1	1	4	3	1	1	2	1
Victor (part)	7	11	16	12	11	9	7	5	8	8	5	12	6	8	9	9
Williamsburg	30	34	31	42	29	39	31	28	30	29	25	27	24	25	35	32
Balance of Iowa County	89	76	63	98	94	105	117	109	74	58	67	60	76	67	60	50
Jackson County	238	236	242	236	261	241	258	258	226	211	232	256	221	221	228	202
Andrew	6	7	2	4	3	3	4	3	2	3	3	3	3	7	0	2
Baldwin	3	0	2	2	3	1	1	2	0	0	2	2	3	1	0	2
Bellevue	30	22	33	34	26	25	28	39	44	35	32	44	29	34	42	23
La Motte	6	7	1	6	6	0	4	3	3	2	2	2	2	1	0	0
Maquoketa	69	74	71	66	88	88	81	83	104	96	117	98	103	102	118	92
Miles	6	3	3	12	7	5	10	5	1	1	3	5	10	4	4	7
Monmouth	0	2	1	1	2	2	5	2	1	3	1	0	5	3	3	1
Preston	13	11	17	17	9	11	15	8	11	12	11	17	14	11	14	14
Sabula	8	5	5	7	13	10	6	10	9	5	9	12	13	9	10	8
St. Donatus	1	1	4	2	2	4	1	1	1	0	0	3	0	0	0	0
Spragueville	0	2	2	0	2	0	0	0	1	0	0	0	0	0	0	3
Springbrook	1	1	3	1	7	3	8	2	1	2	4	3	0	2	2	5
Zwingle (part)	0	0	1	0	1	0	0	1	2	0	0	0	0	0	0	0
Balance of Jackson County	95	101	97	84	92	89	95	99	46	52	48	67	39	47	35	45
Jasper County	457	420	436	426	416	439	423	455	371	340	340	344	361	381	365	356
Baxter	15	13	11	8	10	12	15	23	25	16	26	12	24	22	17	18
Colfax	32	32	30	30	37	35	32	31	18	16	22	20	22	26	24	24
Kellogg	10	2	9	6	9	9	5	8	5	4	5	7	10	8	6	7
Lambs Grove	0	2	0	0	0	1	2	0	1	0	0	0	0	1	1	0
Lynnville	3	2	1	6	5	5	4	3	4	3	3	4	3	3	1	6
Mingo	4	6	6	7	7	4	2	3	3	4	2	3	5	1	1	2
Monroe	24	19	26	21	24	15	29	18	11	19	15	12	12	19	17	17
Newton	222	208	217	217	189	207	193	197	206	185	174	189	180	202	186	183
Oakland Acres	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prairie City	16	19	17	15	21	13	18	15	27	21	19	26	28	32	28	28
Reasnor	3	2	2	2	2	3	4	3	6	2	2	2	6	2	2	0
Sully	11	11	9	11	4	9	9	10	4	4	7	7	8	8	4	6
Valeria	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Balance of Jasper County	117	104	108	102	108	126	110	144	61	66	65	62	63	57	78	65
Jefferson County	158	172	161	171	153	172	177	185	131	162	157	159	142	137	166	160
Batavia	5	3	6	7	8	3	7	16	4	8	4	6	0	1	7	3
Coppock (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fairfield	98	114	98	96	83	101	96	83	87	93	90	83	82	75	93	96
Libertyville	6	2	5	3	4	5	3	7	1	1	4	8	2	3	4	3
Lockridge	8	3	6	8	2	5	4	2	0	2	3	2	3	1	1	0
Packwood	4	1	1	1	2	4	6	3	2	1	5	3	1	3	1	1
Pleasant Plain	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Balance of Jefferson County	37	48	45	56	54	54	61	74	37	57	51	57	54	54	60	55
Johnson County	1332	1275	1274	1272	1258	1288	1337	1359	520	486	476	492	480	475	455	436
Coralville	267	244	223	245	254	225	233	242	65	63	53	59	59	53	53	42
Hills	4	10	9	13	13	13	7	9	12	12	7	6	10	11	9	10
Iowa City	642	631	654	627	626	681	713	717	268	251	270	280	277	248	252	249
Lone Tree	15	14	18	22	22	18	12	13	22	22	20	23	12	20	20	11
North Liberty	123	115	106	107	77	65	67	62	22	18	12	11	13	10	12	12
Oxford	4	8	20	15	11	8	13	14	4	4	3	5	3	10	5	6
Shueyville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solon	21	30	17	25	22	27	18	20	37	23	27	30	18	26	27	37
Swisher	17	8	23	14	18	9	11	10	3	8	3	4	5	7	4	4
Tiffin	22	14	7	6	5	5	2	6	3	4	3	2	1	4	1	0
University Heights	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
Balance of Johnson County	217	201	197	198	210	236	261	266	84	81	78	71	82	86	72	65
Jones County	196	183	213	224	196	253	235	243	178	188	163	184	168	170	177	167
Anamosa	53	50	59	51	55	60	66	60	44	57	44	44	46	48	43	41
Cascade (part)	0	1	0	2	1	3	1	1	3	4	0	2	0	5	0	1
Center Junction	2	0	3	1	1	0	1	1	3	1	1	3	0	4	1	2
Martelle	1	4	4	3	5	1	4	4	3	2	1	1	5	0	1	5
Monticello	46	44	42	62	39	56	46	41	53	58	48	63	50	49	66	56
Morley	0	4	0	3	3	1	0	0	0	1	2	1	2	2	0	0
Olin	8	7	10	8	8	8	11	4	13	5	10	9	6	9	5	4
Onslow	5	4	2	2	1	4	1	0	0	3	4	3	0	3	2	2
Oxford Junction	8	6	8	6	5	10	6	4	5	6	7	7	5	9	5	7
Wyoming	5	3	4	5	9	7	5	6	13	3	8	4	12	5	6	6
Balance of Jones County	68	60	81	81	69	103	94	122	41	48	38	47	42	36	48	43

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Keokuk County	125	142	127	134	145	129	143	147	125	121	151	145	134	138	137	124
Delta	2	6	3	4	3	3	6	7	4	3	8	5	1	1	1	7
Gibson	1	1	0	1	0	0	1	2	1	0	2	1	1	2	2	1
Harper	3	2	2	5	1	2	1	1	0	0	0	2	2	2	1	1
Hayesville	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1
Hedrick	12	8	9	10	11	6	13	11	3	8	9	5	7	9	6	6
Keota	7	14	12	13	11	14	11	9	29	22	22	16	18	18	15	5
Keswick	4	8	1	2	5	2	2	5	1	1	4	2	4	1	2	2
Kinross	0	0	2	2	0	0	1	3	0	1	0	1	2	0	1	0
Martinsburg	1	3	2	1	3	1	2	1	0	0	1	3	1	4	2	1
North English (part)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Ollie	1	4	1	1	1	4	2	2	1	3	2	4	3	2	5	5
Richland	8	6	7	7	8	6	7	11	9	10	11	6	9	4	11	10
Sigourney	29	28	23	18	25	24	22	25	45	38	49	53	47	56	46	44
South English	4	4	4	1	3	0	2	0	1	0	5	3	3	2	4	3
Thornburg	3	0	3	0	1	1	1	1	0	0	1	4	3	0	1	0
Webster	0	3	2	2	2	0	1	1	1	1	0	4	1	0	0	2
What Cheer	11	6	5	6	10	5	4	14	5	7	8	7	10	7	4	6
Balance of Keokuk County	39	49	51	60	61	60	67	54	25	27	29	29	22	30	34	30
Kossuth County	162	173	174	163	174	196	219	199	207	214	209	195	222	194	223	196
Algona	71	53	66	54	59	55	77	66	96	87	68	61	93	68	84	76
Bancroft	11	9	5	9	11	10	9	11	13	24	20	7	17	14	11	13
Burt	3	7	6	5	6	6	8	4	7	9	10	9	9	7	10	6
Fenton	1	3	0	3	4	3	5	5	3	2	1	7	6	2	7	7
Lakota	7	2	5	1	5	2	3	4	3	5	6	5	4	8	7	4
Ledyard	1	3	0	1	1	1	1	0	5	1	4	4	2	2	6	5
Lone Rock	1	2	4	2	0	0	4	2	5	2	1	4	4	1	7	0
Lu Verne (part)	2	4	3	6	3	4	3	1	2	4	2	5	1	6	10	5
Swea City	4	10	10	7	9	6	4	8	12	9	17	12	10	11	11	8
Titonka	2	10	6	3	9	9	5	5	12	22	19	22	16	15	15	19
Wesley	7	3	4	7	1	10	8	8	0	3	7	10	6	5	6	5
West Bend (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Whittemore	3	3	9	4	8	8	8	8	7	8	8	9	8	6	7	10
Balance of Kossuth County	49	64	56	61	58	82	84	77	42	38	46	40	46	49	42	38
Lee County	466	449	446	477	479	435	526	540	452	419	426	435	460	470	463	444
Donnellson	12	9	9	5	19	15	15	12	22	18	18	26	20	17	20	26
Fort Madison	165	148	153	141	134	124	139	151	137	133	132	148	157	154	133	133
Franklin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Houghton	2	2	1	0	2	2	3	1	0	0	0	0	2	0	1	0
Keokuk	175	154	152	170	190	167	209	212	181	155	160	163	169	191	177	174
Montrose	11	11	12	12	7	11	16	17	21	24	21	24	25	14	22	20
St. Paul	2	0	2	1	2	0	1	0	0	2	0	0	0	0	1	1
West Point	8	16	15	15	7	20	14	12	22	23	18	18	21	23	23	8
Balance of Lee County	91	109	102	133	118	96	129	135	69	64	77	56	66	71	86	82
Linn County	2745	2635	2584	2540	2597	2550	2551	2644	1463	1392	1337	1333	1358	1361	1356	1230
Alburnett	6	8	14	2	10	11	5	10	3	4	4	3	4	3	3	4
Bertram	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0
Cedar Rapids	1811	1774	1675	1747	1768	1799	1761	1824	1045	962	926	920	974	980	971	874
Center Point	49	27	31	34	35	17	2	32	7	5	5	7	4	10	0	17
Central City	16	24	27	17	16	30	43	14	18	18	18	25	17	13	16	16
Coggon	10	14	9	9	7	12	9	12	4	6	7	2	7	12	7	5
Ely	19	14	18	9	12	8	5	11	4	3	5	4	5	1	3	4
Fairfax	12	9	11	19	11	6	15	11	9	5	2	5	9	4	6	6
Hiawatha	113	86	112	93	89	92	84	89	43	42	32	27	28	23	20	19
Lisbon	24	25	30	25	25	20	18	26	9	14	11	11	17	10	12	8
Marion	400	389	356	318	345	313	325	341	177	194	189	206	178	181	166	145
Mount Vernon	33	42	36	23	35	33	23	40	33	33	20	25	27	26	35	30
Palo	5	7	10	16	5	14	12	9	6	5	8	7	8	3	4	8
Prairieburg	3	0	6	4	1	0	1	1	2	3	0	2	0	1	3	1
Robins	15	21	28	21	20	17	17	17	3	5	3	3	2	5	2	8
Springville	16	17	20	16	9	19	16	13	9	16	10	12	11	8	11	9
Walford (part)	1	0	0	0	3	12	13	13	6	4	6	4	3	5	7	4
Walker	13	13	13	9	16	0	0	0	0	0	0	0	0	0	0	0
Balance of Linn County	199	165	188	178	190	147	202	181	84	73	90	70	64	76	89	72
Louisa County	164	173	190	161	174	161	184	143	100	111	101	110	122	137	147	113
Columbus City	2	4	8	5	0	9	32	2	4	18	17	2	4	5	18	3
Columbus Junction	37	45	44	38	48	38	17	23	24	5	5	26	23	24	10	19
Cotter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fredonia	1	0	0	1	0	0	2	1	0	0	0	0	0	0	0	0
Grandview	15	9	10	5	6	9	9	4	3	3	6	4	4	4	5	5
Letts	3	2	4	6	4	5	7	5	3	2	4	6	4	7	7	1
Morning Sun	16	11	11	8	16	7	7	11	14	17	19	16	14	22	16	16
Oakville	9	4	14	7	8	13	11	4	3	3	2	3	9	4	6	4
Wapello	34	30	35	37	37	26	43	36	25	28	22	19	31	31	41	33
Balance of Louisa County	47	68	64	54	55	54	56	57	24	35	26	34	33	40	44	32

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Lucas County	97	115	95	123	100	129	117	100	124	130	118	111	112	118	107	122
Chariton	43	65	56	69	54	76	74	59	83	105	91	80	77	85	73	87
Derby	2	1	2	1	3	2	2	4	2	0	1	2	2	0	1	2
Lucas	6	4	2	3	2	4	2	3	4	0	5	2	1	0	6	0
Russell	5	8	5	11	6	11	7	4	6	8	4	9	5	6	4	9
Williamson	0	0	1	5	4	0	1	0	1	2	0	0	2	1	3	4
Balance of Lucas County	41	37	29	34	31	36	31	30	28	15	17	18	25	26	20	20
Lyon County	154	149	137	150	136	165	162	180	133	116	118	124	133	123	136	116
Alvord	2	1	1	2	3	5	4	2	1	2	2	4	2	1	0	1
Doon	9	11	9	13	9	10	11	9	4	3	5	2	3	3	3	4
George	11	9	6	6	5	9	13	13	22	22	31	28	26	26	27	24
Inwood	14	15	13	14	9	14	16	11	19	16	17	14	12	14	19	12
Larchwood	10	10	6	12	12	13	7	11	8	4	2	5	9	4	3	12
Lester	3	2	6	2	6	3	8	3	1	0	1	1	2	1	3	2
Little Rock	3	7	5	4	4	2	10	6	3	6	6	3	4	7	4	4
Rock Rapids	25	32	24	24	25	36	25	35	56	46	36	45	51	47	52	40
Balance of Lyon County	77	62	67	73	63	73	68	90	19	17	18	22	24	20	25	17
Madison County	188	164	169	152	159	160	162	155	152	182	173	138	159	145	143	164
Bevington (part)	1	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0
Earlham	31	20	14	18	16	13	12	14	19	15	24	11	20	17	12	15
East Peru	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macksburg	3	2	1	2	1	1	3	0	2	1	2	0	0	1	0	0
Patterson	0	1	1	2	1	5	2	2	1	1	2	3	1	0	0	2
St. Charles	16	14	11	10	9	18	15	11	4	6	4	2	6	9	9	4
Truro	8	10	4	4	6	7	6	8	2	2	5	6	4	2	5	6
Winterset	66	64	65	63	81	57	63	62	95	116	93	86	94	85	79	102
Balance of Madison County	63	53	71	53	45	59	61	57	29	41	43	30	34	31	37	35
Mahaska County	301	285	258	260	291	272	277	264	223	205	204	234	224	240	223	220
Barnes City (part)	3	1	2	3	4	3	2	2	2	2	2	2	5	2	0	2
Beacon	7	4	4	3	1	3	2	3	6	2	1	6	3	2	3	0
Eddyville (part)	1	3	1	2	3	3	4	5	1	4	4	3	2	6	4	3
Fremont	16	9	9	10	9	8	16	12	5	10	5	13	9	12	6	8
Keomah Village	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leighton	4	2	2	2	4	2	3	1	1	1	1	1	3	3	2	1
New Sharon	15	17	17	17	13	16	19	15	26	28	28	22	24	20	32	26
Oskaloosa	160	160	153	144	159	154	138	132	137	123	125	140	135	147	136	140
Rose Hill	2	2	0	3	5	2	3	3	3	0	0	6	2	2	2	0
University Park	12	8	7	6	9	8	5	6	3	0	2	1	1	1	2	2
Balance of Mahaska County	81	79	63	70	84	73	85	85	39	35	36	40	40	45	36	38
Marion County	432	403	333	378	363	419	391	412	311	355	314	330	327	315	308	326
Bussey	4	9	6	11	7	9	6	3	1	6	7	5	8	4	4	6
Hamilton	7	2	2	0	2	2	0	0	2	2	0	4	2	2	1	2
Harvey	1	1	5	10	1	5	4	3	0	3	0	2	1	2	4	2
Knoxville	106	118	82	124	115	103	107	117	133	127	127	150	134	131	122	135
Marysville	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	1
Melcher-Dallas	18	10	9	12	16	18	18	18	13	14	9	16	13	20	17	12
Pella	126	109	106	96	99	121	117	132	95	111	98	90	108	87	89	90
Pleasantville	30	26	20	26	12	20	19	22	19	25	20	18	20	19	25	25
Swan	2	3	0	1	3	2	1	2	0	0	1	0	1	2	0	0
Balance of Marion County	138	125	102	98	108	139	119	114	47	67	52	45	40	48	46	53
Marshall County	573	511	472	553	516	523	523	471	505	498	511	522	529	514	497	456
Albion	8	9	11	7	11	10	8	8	2	1	4	5	5	3	5	4
Clemons	3	2	2	2	2	4	3	5	0	3	2	1	0	0	1	1
Ferguson	2	1	0	0	3	3	0	3	2	1	4	3	0	0	0	2
Gilman	8	8	7	5	5	10	8	7	4	3	9	6	5	10	4	5
Haverhill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laurel	1	6	4	7	7	4	2	0	3	3	4	3	3	3	4	3
Le Grand	8	9	12	8	10	10	7	13	4	7	6	6	8	5	5	7
Liscomb	2	1	6	2	5	5	4	7	2	3	1	3	2	4	5	1
Marshalltown	420	354	346	393	364	363	358	316	409	397	395	396	402	383	376	339
Melbourne	16	13	5	18	8	10	11	4	7	4	5	5	4	10	7	6
Rhodes	4	6	1	3	6	8	1	2	5	4	4	0	2	6	6	6
St. Anthony	4	2	3	1	0	0	2	0	0	0	0	0	0	1	3	1
State Center	14	14	15	16	12	21	24	21	24	26	29	19	34	24	24	25
Balance of Marshall County	83	86	60	91	83	75	95	85	43	46	48	75	64	65	57	56



Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Mills County	156	194	159	177	158	183	159	151	146	123	139	134	116	123	149	110
Emerson	3	8	3	5	5	8	4	10	8	5	2	8	4	5	9	5
Glenwood	81	94	71	86	63	79	59	61	69	52	81	62	61	61	74	61
Hastings	5	8	4	3	3	3	2	1	1	0	3	3	1	2	2	2
Henderson	0	2	0	2	2	1	2	1	2	3	2	2	2	2	2	3
Malvern	10	18	12	15	9	15	13	9	20	24	17	20	13	18	18	15
Pacific Junction	6	8	5	7	8	2	9	6	3	7	8	4	5	3	7	6
Silver City	3	3	1	3	3	3	7	1	1	3	2	3	2	4	0	1
Tabor (part)	0	2	0	0	0	3	4	0	1	1	0	0	0	0	0	0
Balance of Mills County	48	51	63	56	65	69	59	62	41	28	24	32	28	28	37	17
Mitchell County	133	123	133	130	129	142	154	126	135	148	151	146	139	136	157	153
Carpenter	3	1	1	3	2	2	2	0	2	2	3	1	2	1	0	0
McIntire	1	5	1	3	3	4	2	4	0	0	3	0	0	1	0	2
Mitchell	0	0	2	0	1	1	0	0	0	1	2	0	0	0	0	0
Orchard	1	1	1	0	1	1	2	1	0	0	1	0	1	0	1	0
Osage	40	39	47	32	38	33	49	37	50	57	70	59	54	63	62	58
Riceville (part)	8	2	8	9	4	2	7	3	17	30	13	12	25	16	22	12
St. Ansgar	10	9	10	5	9	15	13	2	38	42	39	46	30	35	39	25
Stacyville	5	4	2	5	3	0	0	7	1	0	2	1	0	3	1	24
Balance of Mitchell County	65	62	61	73	68	84	79	72	27	16	18	27	27	17	32	32
Monona County	115	99	109	98	126	124	106	145	154	160	155	161	156	160	158	162
Blencoe	6	1	4	1	1	2	1	0	6	0	5	1	3	4	1	4
Castana	2	3	2	2	5	4	1	5	6	1	1	4	2	3	2	1
Mapleton	16	12	16	14	18	10	12	16	24	32	30	25	31	30	27	20
Moorhead	4	2	3	2	6	1	3	4	1	2	3	5	4	8	8	2
Onawa	39	40	35	26	36	34	26	33	50	57	58	57	61	58	51	56
Rodney	2	2	1	3	2	1	3	2	2	1	0	0	0	1	3	4
Soldier	4	6	2	1	2	4	3	4	6	0	1	3	3	2	1	5
Turin	1	0	0	1	1	1	0	1	1	1	3	0	0	1	1	0
Ute	3	3	4	1	4	3	0	8	10	13	11	4	6	8	5	8
Whiting	6	4	8	16	9	12	5	12	21	24	23	26	25	21	30	29
Balance of Monona County	32	26	34	31	42	52	52	60	27	29	20	36	21	24	29	33
Monroe County	100	77	95	97	89	87	119	98	93	95	99	99	111	115	96	118
Albia	48	36	55	53	47	46	57	50	63	66	63	71	80	80	66	83
Eddyville (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lovilia	12	9	5	5	5	8	10	11	1	7	7	6	9	8	6	11
Melrose	2	0	2	1	1	1	1	1	0	0	2	2	2	1	1	3
Balance of Monroe County	38	32	33	38	36	32	51	36	29	22	27	20	20	26	23	21
Montgomery County	146	152	112	160	161	160	141	165	156	177	177	197	190	145	183	156
Coburg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Elliott	7	6	3	3	7	4	5	6	4	7	1	3	8	4	4	4
Grant	1	1	2	0	1	0	1	1	1	2	2	3	1	3	1	2
Red Oak	88	95	65	100	98	96	83	100	89	113	106	106	109	95	104	91
Stanton	7	6	5	6	10	6	1	8	12	14	12	30	16	8	18	14
Villisca	22	16	17	15	15	16	20	16	30	26	34	29	40	19	35	28
Balance of Montgomery County	21	28	20	36	30	38	31	34	20	15	22	26	16	16	21	17
Muscatine County	619	614	570	591	629	626	642	656	387	377	358	329	368	414	380	375
Atalissa	4	10	5	5	6	5	3	3	5	1	0	2	4	7	3	5
Conesville	8	7	15	11	14	8	7	9	3	3	1	2	1	2	3	1
Durant (part)	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
Fruitland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscatine	369	360	322	373	395	405	393	398	227	221	237	205	237	283	252	235
Nichols	7	6	12	7	10	4	6	2	1	2	4	1	1	2	3	3
Stockton	5	2	4	4	6	1	6	4	1	0	1	5	1	2	1	2
Walcott (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Liberty	60	61	51	50	54	54	54	64	39	31	35	28	42	29	43	25
Wilton (part)	35	41	23	39	30	33	37	50	23	23	15	20	27	19	13	26
Balance of Muscatine County	131	127	138	102	114	115	135	125	88	96	65	66	55	70	62	78
O'Brien County	180	160	192	190	200	174	191	199	176	188	181	198	194	204	184	192
Archer	0	5	1	1	1	1	1	0	3	0	1	3	1	1	1	4
Calumet	2	3	2	2	3	5	1	3	1	1	1	1	3	3	2	6
Hartley	19	16	19	21	22	13	16	25	27	32	31	25	30	31	25	33
Moneta	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Paullina	14	8	8	12	10	8	12	10	18	20	26	20	19	25	20	25
Primghar	6	6	11	14	9	11	9	12	19	23	17	20	18	19	14	7
Sanborn	11	18	14	13	16	17	16	19	25	23	29	35	31	24	18	21
Sheldon (part)	80	59	75	71	72	65	71	57	51	55	52	60	61	53	63	62
Sutherland	8	12	14	7	8	7	13	13	16	18	9	15	13	17	18	19
Balance of O'Brien County	40	33	48	49	59	47	52	60	15	16	15	19	18	31	23	14

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Osceola County	73	76	80	79	90	70	81	86	81	89	79	91	93	90	72	77
Ashton	6	6	7	8	10	3	7	11	2	6	8	4	10	6	5	3
Harris	2	2	3	2	2	3	6	2	0	3	2	5	1	2	1	4
Melvin	1	2	1	1	3	2	2	0	4	3	3	5	8	6	3	0
Ocheyedan	7	7	8	4	10	8	8	7	4	5	2	4	9	6	5	9
Sibley	37	28	36	36	30	23	29	32	53	63	48	58	54	58	42	43
Balance of Osceola County	20	31	25	28	35	31	29	34	18	9	16	15	11	12	16	18
Page County	196	190	171	191	174	181	164	166	254	229	253	212	256	215	211	224
Blanchard	1	3	0	0	0	1	0	0	2	1	1	1	1	1	1	1
Braddyville	3	3	3	2	2	2	4	1	2	2	6	6	3	6	2	2
Clarinda	70	62	58	53	57	52	50	53	94	89	100	77	96	77	83	82
Coin	4	3	3	6	2	2	3	3	2	2	5	2	3	4	2	3
College Springs	1	4	3	3	3	1	2	0	2	2	0	1	1	2	4	1
Essex	16	13	8	20	11	7	6	9	12	6	7	3	6	8	8	10
Hepburn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northboro	1	2	1	1	1	0	1	0	0	0	0	1	2	0	1	0
Shambaugh	3	1	2	3	1	4	4	2	3	0	1	1	5	2	1	1
Shenandoah (part)	65	73	56	69	61	74	64	57	93	102	102	89	113	94	87	92
Yorktown	1	0	0	0	2	3	1	2	0	0	1	1	1	0	0	1
Balance of Page County	31	26	37	34	34	35	29	39	44	25	30	30	25	21	22	31
Palo Alto County	104	107	122	98	95	107	109	112	146	147	140	146	131	141	153	124
Ayrshire	2	2	5	2	3	1	3	4	4	1	5	3	4	4	2	8
Curlew	2	0	2	0	1	1	1	1	2	0	1	0	1	3	0	0
Cylinder	1	1	2	3	0	1	0	0	2	2	1	3	2	3	2	0
Emmetsburg	43	33	45	32	38	31	33	31	76	67	54	73	52	60	77	41
Graettinger	8	14	14	12	6	9	8	11	8	9	16	12	21	16	9	12
Mallard	2	1	9	1	2	1	3	2	5	5	1	4	4	4	7	3
Rodman	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Ruthven	11	12	5	2	7	6	10	10	16	14	14	10	14	14	17	21
West Bend (part)	8	6	6	13	11	6	7	9	13	23	19	17	14	15	16	21
Balance of Palo Alto County	27	38	34	33	27	51	44	44	20	26	28	24	19	22	22	16
Plymouth County	289	306	328	312	316	311	307	317	249	241	248	241	243	213	224	244
Akron	19	25	15	16	12	15	14	20	36	25	30	30	39	24	35	27
Brunsville	1	0	0	2	1	1	3	5	1	1	0	1	2	0	1	2
Craig	1	1	1	2	0	0	1	0	1	3	2	1	0	1	1	1
Hinton	8	11	12	8	6	3	9	6	4	6	6	3	8	4	2	3
Kingsley	18	13	23	9	15	12	8	17	19	29	24	20	15	20	24	22
Le Mars	119	131	139	127	138	120	124	131	101	99	119	118	93	93	102	
Merrill	11	10	10	18	8	18	12	10	7	3	2	5	7	3	5	4
Oyens	1	6	1	0	2	1	2	1	0	0	2	4	2	1	1	0
Remsen	23	20	23	21	20	28	25	23	37	31	29	24	25	24	32	37
Struble	2	0	1	3	1	0	3	0	0	0	1	0	1	1	0	1
Westfield	3	1	4	2	2	4	2	1	0	1	3	3	3	3	0	4
Balance of Plymouth County	83	88	99	104	111	109	104	103	43	43	30	32	48	39	30	41
Pocahontas County	82	71	77	68	66	84	88	99	103	109	129	120	108	135	119	127
Fonda	6	12	5	1	3	6	8	11	17	12	20	20	15	14	17	16
Gilmore City (part)	1	1	0	0	1	6	4	2	5	1	2	0	1	3	4	2
Havelock	2	3	1	3	1	4	0	1	1	4	2	4	2	2	2	5
Laurens	10	12	19	17	16	13	20	21	21	22	24	26	24	30	23	23
Palmer	1	4	2	2	0	3	4	1	3	2	1	2	3	5	6	4
Plover	2	0	1	2	1	0	2	1	0	1	1	2	0	0	1	0
Pocahontas	19	18	16	16	15	21	19	11	37	37	41	41	44	45	34	47
Rolfe	10	3	4	4	5	6	3	6	9	8	11	13	10	14	14	14
Varina	3	2	1	0	1	3	1	0	0	1	1	1	0	1	3	2
Balance of Pocahontas County	28	16	28	23	23	22	27	45	10	21	26	11	9	21	15	14
Polk County	5954	5898	5685	5782	5455	5458	5460	5560	2741	2856	2704	2738	2684	2605	2617	2466
Alleman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Altoona	159	166	145	115	122	118	125	109	53	56	55	57	76	69	52	41
Ankeny	458	432	383	381	390	369	356	326	118	116	94	102	85	86	70	81
Bondurant	24	37	30	26	22	37	27	32	3	13	11	8	7	3	7	8
Carlisle (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clive	179	190	145	151	80	106	93	101	42	33	21	18	18	14	21	17
Des Moines	3407	3391	3404	3529	3477	3449	3528	3712	1792	1894	1834	1892	1906	1827	1864	1778
Elkhart	4	7	5	2	11	8	10	10	5	2	1	5	5	3	3	2
Grimes	115	104	95	91	83	88	92	64	14	18	14	12	20	11	15	12
Johnston	108	76	86	67	51	61	55	56	61	83	65	80	57	60	54	50
Mitchellville	18	27	29	13	18	23	19	18	22	26	34	24	20	20	22	14
Pleasant Hill	79	64	87	76	52	56	34	38	26	33	20	28	20	27	20	19
Polk City	37	31	35	32	47	38	35	38	19	26	25	22	17	18	20	12
Runnells	5	11	8	11	13	5	12	8	7	11	6	2	9	3	7	5
Sheldahl (part)	0	0	0	1	1	1	3	0	0	1	2	2	1	2	2	3
Urbandale	377	384	351	341	259	308	302	311	182	134	140	134	133	125	109	99
West Des Moines (part)	712	687	569	601	585	548	503	477	265	260	241	247	206	217	235	198
Windsor Heights	32	33	51	69	20	16	22	10	24	29	23	34	30	36	22	22
Balance of Polk County	240	258	262	276	224	227	244	250	108	121	118	71	74	84	94	105

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Pottawattamie County	1216	1160	1185	1102	1142	1156	1193	1261	818	853	805	759	757	790	769	731
Avoca	22	24	18	22	22	10	12	18	27	16	22	30	21	25	22	17
Carson	13	7	9	9	7	1	0	6	4	0	0	0	0	0	1	8
Carter Lake	44	39	47	42	46	61	53	56	25	34	37	30	32	31	28	23
Council Bluffs	916	861	873	845	857	857	898	928	606	626	571	552	568	586	561	534
Crescent	9	7	9	12	7	7	10	11	3	1	9	4	0	1	3	5
Hancock	2	2	1	2	1	3	3	2	5	5	1	2	1	1	3	4
Macedonia	5	4	2	1	1	2	2	1	4	3	5	3	4	5	8	4
McClelland	5	1	3	2	2	2	0	6	4	4	0	3	0	0	1	1
Minden	6	12	7	3	8	4	6	5	3	7	7	3	2	8	3	5
Neola	20	14	16	8	10	9	11	11	4	8	9	3	7	6	4	3
Oakland	13	25	13	20	7	17	9	20	25	28	26	24	22	20	30	25
Shelby (part)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Treynor	7	9	7	7	14	11	11	7	2	3	8	10	8	11	5	3
Underwood	7	13	11	8	10	6	9	8	7	9	4	2	6	1	2	7
Walnut	13	8	8	4	3	7	4	4	7	8	10	8	6	10	8	16
Balance of Pottawattamie County	134	134	161	117	147	159	165	178	92	101	95	85	80	85	90	75
Poweshiek County	176	195	192	194	215	211	205	215	226	247	204	213	198	201	184	204
Barnes City (part)	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Brooklyn	19	18	17	13	14	16	13	20	30	34	22	19	19	18	21	22
Deep River	3	5	4	4	3	2	3	2	1	4	2	4	2	3	3	5
Grinnell	82	92	96	87	101	104	95	90	126	130	109	120	114	100	93	105
Guernsey	1	2	0	1	1	1	0	3	0	4	3	0	0	3	1	1
Hartwick	1	1	2	1	2	1	1	1	1	1	1	1	1	0	1	0
Malcom	4	6	7	6	7	6	3	7	5	2	0	3	4	0	1	3
Montezuma	21	18	12	25	18	23	12	18	18	32	24	26	19	33	20	19
Searsboro	1	1	0	1	1	1	3	0	2	1	2	1	3	0	2	2
Victor (part)	2	1	0	0	2	0	2	3	1	0	1	2	1	1	2	1
Balance of Poweshiek County	42	51	54	56	66	57	73	71	42	39	38	37	35	43	40	46
Ringgold County	69	47	65	43	55	30	38	57	80	72	91	74	71	88	83	77
Beaconsfield	0	0	2	0	0	0	0	0	0	0	1	1	0	0	1	1
Benton	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Clearfield (part)	0	0	0	0	0	0	1	0	1	1	1	0	0	1	0	0
Delphos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diagonal	3	3	2	3	3	2	3	3	2	0	1	3	5	7	6	3
Ellston	0	0	0	1	0	0	0	0	1	1	2	1	0	1	0	0
Kellerton	6	1	2	5	8	4	3	7	5	6	2	1	2	5	2	3
Maloy	0	0	1	0	0	0	0	0	0	0	1	1	1	1	0	0
Mount Ayr	18	17	25	9	15	9	10	18	45	48	57	43	40	48	56	47
Redding	2	0	0	0	3	0	0	2	1	2	1	1	2	1	2	1
Shannon City (part)	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Tingley	0	1	4	3	2	0	2	1	0	3	4	1	6	5	5	7
Balance of Ringgold County	38	25	29	22	23	15	19	26	25	11	20	22	15	18	11	15
Sac County	128	112	130	159	136	126	139	140	173	174	170	167	162	167	176	155
Auburn	5	1	8	5	2	5	6	5	7	7	7	1	3	6	5	4
Early	10	8	6	10	2	11	11	12	9	8	7	18	12	10	14	12
Lake View	12	8	13	13	11	7	13	11	20	31	26	27	11	36	25	22
Lytton	2	5	4	3	6	2	1	4	3	6	10	2	3	0	2	2
Nemaha	2	2	1	2	0	2	0	2	1	1	1	7	2	1	2	1
Odebolt	11	10	6	17	18	12	9	14	27	24	25	26	23	17	26	19
Sac City	19	17	25	26	28	26	27	20	51	47	42	43	51	31	43	47
Schaller	12	9	8	15	9	12	7	9	7	7	10	5	11	8	11	8
Wall Lake	12	13	12	7	16	9	15	10	18	14	19	18	15	29	23	18
Balance of Sac County	43	39	47	61	44	40	50	53	30	29	23	20	31	29	25	22
Scott County	2264	2339	2175	2303	2251	2243	2408	2483	1349	1302	1269	1182	1302	1259	1307	1224
Bettendorf	66	225	130	361	371	360	377	373	225	209	218	168	204	204	220	179
Blue Grass	2	10	14	20	27	24	24	23	14	9	10	11	19	15	8	18
Buffalo	1	9	5	16	8	13	24	14	9	17	12	8	8	10	12	3
Davenport	1636	1634	1519	1604	1522	1578	1634	1711	964	915	886	838	933	900	919	887
Dixon	1	4	3	3	6	6	3	0	0	1	2	2	1	2	2	3
Donahue	0	2	3	4	4	7	4	7	2	2	2	3	4	2	0	6
Durant (part)	0	0	0	0	0	1	3	1	0	1	0	1	2	1	3	1
Eldridge	13	36	32	54	81	69	73	87	17	14	13	16	21	18	27	14
Le Claire	4	20	25	32	28	40	31	43	15	26	23	31	19	21	28	19
Long Grove	1	9	4	8	6	3	8	12	4	3	3	3	5	6	3	4
Maysville	0	0	0	0	1	0	2	1	0	0	0	0	0	0	1	0
McCausland	0	1	4	1	4	1	4	5	2	1	2	2	3	2	1	2
New Liberty	0	2	3	3	5	3	0	1	1	0	0	1	1	1	1	1
Panorama Park	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Princeton	0	8	6	10	10	8	13	12	2	3	8	7	9	8	8	3
Riverdale	0	0	1	0	3	2	1	2	3	2	3	1	1	3	3	2
Walcott (part)	3	11	2	15	22	16	24	24	6	5	4	9	16	14	8	14
Balance of Scott County	537	368	424	172	153	112	183	167	84	94	83	81	55	52	63	68

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Shelby County	141	142	140	115	156	146	163	154	158	151	189	143	170	169	147	146
Defiance	2	5	5	3	1	4	2	6	1	1	4	1	4	5	1	1
Earling	2	8	3	4	4	7	10	2	19	20	16	16	6	22	20	10
Elk Horn	6	4	3	3	6	7	3	3	33	31	47	34	39	35	22	31
Harlan	61	52	60	41	64	62	70	55	62	60	82	56	82	68	63	66
Irwin	3	2	3	0	4	3	3	7	5	3	5	4	4	2	4	9
Kirkman	0	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0
Panama	1	2	1	4	5	2	5	5	3	5	5	1	7	6	5	0
Portsmouth	1	8	2	3	1	4	2	1	3	1	1	1	1	1	2	0
Shelby (part)	9	5	10	10	9	7	6	8	3	5	5	6	4	7	8	6
Tennant	0	0	0	0	2	1	0	1	1	0	1	0	0	1	0	0
Westphalia	3	1	3	2	2	1	2	1	1	0	3	1	0	1	0	0
Balance of Shelby County	53	54	50	45	57	47	60	64	27	24	20	23	23	21	22	23
Sioux County	397	400	413	376	410	380	437	433	232	244	270	237	229	244	242	218
Alton	13	11	13	18	10	15	20	14	7	7	12	11	6	16	11	4
Boyden	7	8	7	5	8	6	8	17	6	6	5	4	8	5	6	3
Chatsworth	0	2	1	0	2	2	3	3	1	2	1	0	0	2	1	2
Granville	2	5	1	5	5	2	5	4	4	5	5	4	3	6	3	7
Hawarden	25	29	28	22	25	31	25	38	29	33	32	34	37	34	40	39
Hospers	7	13	13	6	16	3	8	9	6	6	14	12	6	5	14	5
Hull	40	38	30	44	30	28	31	28	27	23	27	20	18	23	29	16
Ireton	11	11	7	6	9	8	10	7	1	4	4	5	6	3	3	4
Matlock	2	2	2	1	1	2	3	2	0	2	3	0	0	1	1	0
Maurice	1	3	1	3	4	2	4	4	2	1	0	0	3	2	1	1
Orange City	56	61	66	48	60	61	63	59	35	46	54	53	42	40	38	41
Rock Valley	43	34	35	33	35	40	38	31	32	38	36	36	42	37	37	34
Sheldon (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sioux Center	85	61	72	57	62	61	64	69	43	39	40	41	41	42	42	36
Balance of Sioux County	105	122	137	128	143	119	155	148	39	32	37	17	17	28	16	26
Story County	885	860	846	904	856	844	785	878	451	450	452	418	425	389	420	412
Ames	502	492	501	520	513	514	469	492	196	211	191	165	180	167	175	171
Cambridge	19	14	18	18	7	7	14	14	4	3	7	7	7	2	9	4
Collins	12	7	10	7	9	0	0	1	0	0	0	1	0	0	0	2
Colo	14	9	5	13	8	16	6	13	11	15	12	8	7	8	13	10
Gilbert	16	15	16	12	10	13	13	13	5	2	2	3	6	1	4	3
Huxley	37	39	41	39	30	33	27	41	10	12	20	22	14	9	13	13
Kelley	4	5	6	6	3	7	4	9	2	1	1	0	2	1	2	2
Maxwell	19	14	10	17	9	5	14	17	8	5	8	11	7	7	12	7
McCallsburg	6	3	2	6	3	2	1	6	1	3	2	3	0	3	3	2
Nevada	89	84	66	90	82	77	75	82	59	77	65	58	56	63	49	65
Roland	20	15	21	24	17	14	20	14	4	6	7	12	12	8	6	6
Sheldahl (part)	1	2	4	2	5	2	3	3	1	1	2	0	0	0	0	1
Slater	22	21	17	18	15	24	14	18	14	6	9	14	13	8	13	9
Story City	35	42	31	30	41	30	28	36	77	46	70	63	66	53	57	56
Zearing	10	4	15	12	7	7	4	8	19	17	14	15	7	22	19	15
Balance of Story County	79	94	83	90	97	93	93	111	40	45	42	36	48	37	45	46
Tama County	240	222	248	230	236	236	225	226	211	200	195	223	219	229	222	170
Chelsea	7	6	3	10	5	7	7	8	3	2	5	1	0	1	6	2
Clutier	5	2	3	6	5	3	1	1	6	0	4	3	1	2	6	7
Dysart	17	18	14	14	12	12	17	5	24	20	25	25	33	26	20	21
Elberon	4	5	7	6	7	4	2	3	1	2	1	0	1	2	2	0
Garwin	5	4	5	2	6	3	5	7	13	7	2	7	7	7	13	5
Gladbrook	4	9	9	8	9	15	19	14	23	17	15	27	12	15	25	10
Lincoln	1	3	3	1	1	4	1	6	1	2	1	4	1	1	4	4
Montour	6	7	2	5	2	11	1	8	3	0	1	3	5	1	5	2
Tama	63	38	60	53	51	57	45	52	35	37	28	42	36	31	41	30
Toledo	30	31	38	34	43	28	29	31	35	26	24	27	40	40	37	39
Traer	14	16	19	13	19	25	11	18	24	38	36	24	35	35	28	23
Vining	3	2	2	0	1	1	2	1	2	1	0	1	0	0	0	0
Balance of Tama County	81	81	83	78	75	66	85	72	41	48	53	59	48	68	35	27
Taylor County	66	66	79	75	76	78	70	75	96	102	108	106	87	99	95	94
Athelstan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bedford	17	22	20	16	19	13	16	13	21	36	34	30	21	27	33	35
Blockton	3	1	5	5	2	3	4	5	1	2	4	3	5	1	2	1
Clearfield (part)	5	5	1	3	3	6	2	2	8	14	20	16	10	9	11	8
Conway	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Gravity	3	3	2	2	1	4	2	2	2	2	1	1	3	3	0	1
Lenox (part)	19	14	14	15	13	22	12	15	25	29	28	30	19	29	31	26
New Market	4	4	7	11	6	2	10	7	11	6	7	10	7	7	6	8
Sharpsburg	0	0	0	2	1	0	0	1	3	2	0	1	0	3	0	1
Balance of Taylor County	15	17	28	21	31	28	24	30	25	11	14	15	22	20	12	14

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Union County	140	156	136	163	154	119	152	149	160	154	152	166	169	159	163	160
Afton	10	15	10	8	12	11	15	17	24	23	15	20	15	26	17	26
Arispe	1	1	0	0	0	0	2	0	0	1	0	1	1	1	2	0
Creston	87	102	91	114	110	76	102	86	107	109	115	115	112	104	115	99
Cromwell	1	2	1	0	0	0	1	0	1	2	1	2	1	0	0	2
Kent	0	2	0	0	0	1	1	1	0	1	1	4	0	1	2	1
Lorimor	10	6	3	3	2	3	4	7	5	3	3	1	8	3	1	5
Shannon City (part)	1	4	0	2	3	0	1	0	1	3	0	4	1	0	1	0
Thayer	1	2	0	2	1	2	3	0	2	0	1	1	1	1	0	1
Balance of Union County	29	22	31	34	26	26	23	38	20	12	16	18	30	23	25	26
Van Buren County	85	107	79	86	76	104	108	91	102	109	96	99	99	102	106	97
Birmingham	6	5	5	4	1	5	5	2	6	5	4	3	2	6	6	5
Bonaparte	5	4	5	4	3	6	7	5	8	1	5	6	12	4	2	12
Cantril	1	3	2	1	3	4	5	4	2	4	3	1	2	6	15	2
Farmington	4	12	6	7	9	6	3	11	9	11	15	14	11	19	16	9
Keosauqua	4	10	8	8	5	10	10	13	33	34	23	29	22	24	32	31
Milton	9	8	7	8	3	9	8	6	5	7	6	7	4	3	8	7
Mount Sterling	0	1	0	3	0	4	0	0	0	0	1	1	0	0	0	1
Stockport	8	2	2	2	2	2	3	4	1	6	4	1	7	1	2	3
Balance of Van Buren County	48	62	44	49	50	58	67	46	38	41	35	37	39	39	25	27
Wapello County	404	391	416	459	403	428	465	422	456	441	444	447	452	428	463	418
Agency	2	7	9	6	6	6	4	7	9	10	5	10	10	8	4	6
Blakesburg	7	5	1	3	4	4	1	4	3	7	5	5	11	1	4	8
Chillicothe	0	1	0	1	0	1	0	1	1	1	1	0	0	2	1	1
Eddyville (part)	16	16	11	12	14	8	11	16	8	2	4	6	9	8	11	7
Eldon	11	17	17	11	13	18	17	14	15	18	12	15	23	10	18	14
Kirkville	3	3	3	3	1	2	2	2	1	3	1	2	2	0	2	0
Ottumwa	310	278	299	337	292	312	333	304	369	349	375	352	349	335	359	330
Balance of Wapello County	55	64	76	86	73	77	97	74	50	51	41	57	48	64	64	52
Warren County	483	504	513	481	481	449	499	516	304	323	296	339	264	316	285	233
Ackworth	1	2	2	3	1	2	2	0	1	1	4	0	1	2	1	1
Bevington (part)	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Carlisle (part)	59	47	64	48	54	48	61	47	35	41	39	35	38	42	29	26
Cumming	4	4	2	3	3	2	1	3	4	1	3	3	2	1	0	0
Hartford	7	9	9	5	9	10	14	6	5	2	5	2	4	5	4	2
Indianola	162	174	163	160	146	144	151	158	135	131	141	154	126	130	132	98
Lacona	6	7	6	3	7	7	7	4	7	5	3	5	3	2	5	1
Martensdale	2	13	6	7	6	6	3	8	0	4	2	2	1	4	3	3
Milo	13	10	16	18	17	15	15	15	3	8	9	7	1	3	7	4
New Virginia	7	8	8	4	12	6	10	7	7	10	2	8	4	11	8	6
Norwalk	103	104	123	94	103	91	85	106	52	60	47	65	43	61	39	43
St. Marys	0	0	1	0	1	4	2	1	1	4	0	1	1	0	1	0
Sandyville	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Spring Hill	0	1	0	0	1	1	0	0	1	0	1	0	0	0	0	1
Balance of Warren County	119	125	113	136	121	112	148	161	53	55	40	56	39	55	56	48
Washington County	306	284	254	327	308	279	273	269	223	220	231	249	213	245	236	206
Ainsworth	12	13	4	14	7	9	13	10	8	2	4	4	2	7	4	4
Brighton	6	8	10	12	11	17	11	11	13	5	17	13	7	10	13	3
Coppock (part)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Crawfordsville	6	6	4	9	6	11	1	7	1	3	0	4	3	2	2	1
Kalona	27	28	32	31	27	32	31	32	32	28	24	37	32	42	30	31
Riverside	20	11	14	18	13	20	13	11	6	7	6	12	3	4	7	9
Washington	99	88	83	108	83	85	88	81	105	124	117	120	110	110	119	86
Wellman	14	14	14	14	13	7	17	9	25	27	31	27	19	29	28	31
West Chester	0	2	1	0	3	1	2	2	1	2	1	0	1	2	4	1
Balance of Washington County	122	114	92	121	145	97	97	106	32	22	31	31	36	39	29	40
Wayne County	75	56	57	64	80	78	71	74	100	121	127	109	107	119	101	112
Allerton	8	4	6	5	11	6	10	7	8	3	13	10	7	8	6	10
Clio	0	0	0	0	0	0	0	1	0	1	1	2	1	1	2	0
Corydon	10	5	16	28	18	21	13	13	32	51	51	43	36	45	42	38
Humeston	6	3	3	4	2	6	8	6	8	13	7	8	14	14	4	7
Lineville	4	4	4	3	3	2	1	2	5	5	6	5	5	2	5	4
Millerton	2	0	0	1	2	0	1	0	0	1	0	2	1	1	3	0
Promise City	1	1	1	1	1	3	1	2	4	1	2	4	0	1	0	2
Seymour	8	10	4	5	11	7	9	12	15	17	23	16	18	19	21	20
Balance of Wayne County	36	29	23	17	32	33	28	31	28	29	24	19	25	28	18	31

Table 1. Births and Deaths in Incorporated Places and the Balance of the County in Iowa's Counties, 1992-1999 (cont.).

County/Place/Balance	Births								Deaths							
	1999	1998	1997	1996	1995	1994	1993	1992	1999	1998	1997	1996	1995	1994	1993	1992
Webster County	498	513	520	496	498	525	534	566	490	454	492	492	490	489	483	482
Badger	16	8	16	5	9	10	5	10	1	7	7	2	2	6	6	1
Barnum	6	3	2	1	5	1	4	3	0	1	0	4	1	1	2	2
Callender	7	5	4	8	3	2	4	7	5	7	3	1	5	0	4	1
Clare	3	2	5	3	2	2	2	2	6	0	2	0	2	1	2	1
Dayton	11	7	14	9	12	18	11	13	26	8	18	17	15	18	8	21
Duncombe	7	12	4	5	5	9	5	5	3	4	2	4	3	3	5	3
Farnhamville (part)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fort Dodge	348	379	370	355	350	353	392	397	357	334	377	375	374	369	380	365
Gowrie	9	5	5	12	6	12	11	10	29	21	14	20	21	28	22	25
Harcourt	5	5	3	0	3	2	4	3	6	2	4	3	4	1	2	1
Lehigh	7	5	3	6	4	4	3	4	4	6	6	4	5	7	3	1
Moorland	6	2	3	2	3	1	2	3	3	1	5	3	1	0	3	1
Otho	9	6	13	6	12	9	5	15	5	6	5	3	3	5	5	6
Stratford (part)	0	0	0	0	1	0	1	0	0	0	0	0	3	0	0	1
Vincent	3	2	3	4	2	1	2	1	4	1	1	1	6	3	1	0
Balance of Webster County	61	72	75	80	81	101	83	93	41	56	48	55	45	47	40	53
Winnebago County	121	127	135	144	134	135	121	141	169	147	135	151	128	137	150	158
Buffalo Center	8	9	9	11	10	6	5	7	28	25	27	29	26	25	27	23
Forest City (part)	49	49	54	53	55	52	37	63	54	40	44	50	40	40	45	38
Lake Mills	20	22	17	28	18	20	33	25	43	38	22	39	29	36	36	46
Leland	4	0	5	5	4	5	5	3	5	2	1	1	2	3	3	7
Rake	5	4	1	4	0	2	0	2	7	8	4	5	2	1	4	6
Scarville	1	1	1	1	3	1	0	1	1	1	2	1	2	1	0	0
Thompson	9	4	8	12	8	5	6	5	10	6	6	4	5	5	2	7
Balance of Winnebago County	25	38	40	30	36	44	35	35	21	27	29	22	22	26	33	31
Winneshiek County	186	208	200	212	240	242	229	255	184	181	178	182	188	178	175	159
Calmar	10	17	13	9	10	13	10	12	14	11	19	16	11	6	18	13
Castalia	5	3	0	3	1	2	1	5	3	1	2	3	1	2	3	4
Decorah	57	68	73	74	76	63	84	74	84	94	77	83	95	96	73	70
Fort Atkinson	10	3	2	4	3	9	8	10	9	3	6	5	4	3	3	8
Jackson Junction	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Ossian	8	19	13	12	8	12	13	11	10	10	11	17	17	11	14	10
Ridgeway	5	9	3	3	7	8	9	8	3	6	3	2	6	3	2	2
Spillville	5	6	4	4	5	6	4	6	5	6	4	6	9	6	6	5
Balance of Winneshiek County	86	83	92	103	130	129	100	129	56	50	56	50	44	51	56	47
Woodbury County	1627	1664	1691	1699	1700	1651	1651	1665	919	984	962	935	1021	985	982	974
Anthon	5	11	4	6	6	10	2	5	15	14	7	15	12	21	10	14
Bronson	4	4	4	4	2	9	5	3	1	1	2	5	3	0	4	4
Correctionville	12	13	9	8	15	11	12	17	10	23	20	15	16	15	23	13
Cushing	2	2	1	5	4	1	3	1	4	3	8	3	3	5	4	8
Danbury	3	5	6	6	8	6	5	3	9	8	7	8	10	8	2	4
Hornick	4	2	5	3	2	1	0	3	3	5	3	3	2	1	3	3
Lawton	13	10	6	7	8	11	8	8	5	6	7	4	6	1	4	5
Moville	16	27	25	21	15	16	13	20	12	16	7	16	15	18	16	18
Oto	3	1	0	3	8	2	3	1	1	3	3	4	3	1	2	2
Pierson	9	6	9	2	1	3	5	1	0	10	5	4	3	1	6	3
Salix	6	7	2	5	5	9	5	7	3	6	2	1	7	3	3	5
Sergeant Bluff	58	54	32	32	39	28	29	41	21	16	17	23	27	35	25	23
Sioux City	1400	1422	1485	1480	1475	1426	1459	1436	787	821	809	773	847	813	820	812
Sloan	12	11	13	16	15	10	9	6	5	6	4	10	11	7	8	5
Smithland	4	1	2	4	5	5	5	10	6	2	4	3	4	3	1	5
Balance of Woodbury County	76	88	88	97	92	103	88	103	37	44	57	48	52	53	51	50
Worth County	76	90	75	85	89	91	94	91	113	108	98	97	120	102	96	94
Fertile	8	3	1	4	5	4	7	5	2	6	4	1	6	5	3	0
Grafton	1	5	3	1	6	2	2	5	3	3	2	3	3	1	3	2
Hanlontown	2	9	3	6	3	8	5	4	0	4	1	2	3	3	2	5
Joice	5	4	3	6	4	1	4	1	2	3	1	3	6	2	0	3
Kensett	1	0	3	4	3	4	0	6	5	8	6	5	6	2	3	4
Manly	20	22	15	21	16	19	16	17	25	17	28	23	26	38	29	20
Northwood	17	25	17	21	21	17	22	17	48	42	40	37	41	36	34	41
Balance of Worth County	22	22	30	22	31	36	38	36	28	25	16	23	29	15	22	19
Wright County	165	149	152	172	139	157	156	171	192	179	218	191	177	198	210	173
Belmond	39	24	23	27	31	31	32	31	40	42	44	38	46	41	43	29
Clarion	37	36	38	38	40	28	23	35	51	48	52	51	46	69	49	39
Dows (part)	5	5	7	2	3	5	7	6	9	12	22	13	10	12	12	21
Eagle Grove	52	40	44	50	35	46	45	43	53	48	60	52	45	45	66	52
Galt	0	0	0	1	0	0	0	0	0	0	1	0	1	0	2	0
Goldfield	8	4	6	8	3	7	6	5	6	7	7	9	3	6	13	3
Rowan	4	4	4	2	3	2	1	2	3	1	2	6	2	4	4	5
Woolstock	1	2	2	5	0	2	0	1	6	2	4	0	4	2	1	0
Balance of Wright County	19	34	28	39	24	36	42	48	24	19	26	22	20	19	20	24

## **Estimated Birth and Death Rates in Iowa's Counties: 1974, 1979, 1984, and 1989-1999**

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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 total 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. These are called crude rates because they are not adjusted by age (for deaths) or by the number of women of child-bearing years (for births). Caution is urged in examining the 1974, 1979, 1984, 1989, and 1991-1999 rates; they are based on population estimates provided by the U.S. Bureau of the Census while the census count was used for 1990.

### **Iowa and National Birth and Death Rates**

The birth rate for Iowa dropped somewhat from 1974 to 1999, although there were some years with increases (Figure 1). There were about three more births per 1,000 residents in 1979 (16.0) than in 1994-1999 (12.8 to 13.1). The death rate in Iowa has not changed as much; it ranged from a high of 10.0 in 1974 to a low of 9.2 in 1979. The 1999 figure was 9.9 deaths per 1,000 residents, a rate quite similar to most years in the last decade. Although Iowa's death rate is somewhat higher than that for the nation (1999, 8.7), the pattern of change has been similar. The direction of change for birth rates in Iowa and the United States was in marked contrast from 1980 to 1992, however. Iowa's birth rate declined during much of the 1980s, while it remained relatively stable in the nation; more recently, however, the country's birth rate began to decline. In 1979, Iowa's birth rate of 16.0 was nearly a half point above that of the nation (15.6); in 1999, however, Iowa's figure of 13.1 was substantially below that of the United States (14.5), although the gap has narrowed the last few years. Iowa's birth rate dropped by 0.9 points since 1989, while it declined by 1.9 points for the nation.

### **County Data on Birth and Death Rates**

In 1999, 17 counties had birth rates above the state figure of 13.1 (Table 1). Polk had a rate at least 3 points above that for Iowa. Another six counties (Linn, Marshall, Muscatine, Scott, Washington, Woodbury) had rates more than a point above the state average. Of the 80 counties with birth rates below that of the state, 36 fell more than 2 points under the state level. Eleven counties had fewer than 10 births for every 1,000 residents in 1999, with Grundy the lowest at 8.5.

Death rates in 1999 varied from less than 7.0 (Johnson, Story) to more than 15.0 (Adair, Cass, Monona, Wayne) in Iowa's counties (Table 2). Seventy-six counties had death rates above the state figure of 9.9 per 1,000 residents. Although only seven counties had death rates 2 or more points below the state average of 9.9, 43 counties reported rates 2 or more points greater than that for the state. Sixteen counties had rates at least 4 points higher than did the state.

A fifth (21) of Iowa's 99 counties had higher birth rates in 1999 than in 1989; among these 21, the gain was 2 points or greater in Greene, Marshall, and Ringgold. Among the 78 counties with birth rates that were lower in 1999 than in 1989, 21 dropped by less than a full point. Adair, Delaware, Ida, and Iowa, however, reported birth rates in 1999 that were at least 4 points below those for 1989. Only Polk had a higher birth rate in 1999 than in 1979; 29 counties had declines of at least 5 points, with those for Adair, Delaware, and Kossuth exceeding 8 points.

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa's Counties, 1974, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Adair	8.8	9.4	8.3	7.4	9.7	11.2	8.8	12.5	10.4	12.1	12.9	12.5	18.1	13.5
Adams	10.7	11.4	7.5	10.8	8.0	14.0	11.1	8.8	13.5	12.3	14.0	13.5	14.3	12.8
Allamakee	13.2	12.2	11.8	12.3	11.1	11.3	12.6	14.2	12.5	12.8	15.2	14.8	14.5	12.4
Appanoose	11.8	11.3	10.4	12.3	10.8	11.2	11.9	12.6	12.4	12.1	12.0	13.5	16.5	13.4
Audubon	10.0	10.6	12.0	9.2	10.9	12.7	10.3	9.8	10.5	12.4	11.2	16.2	14.0	12.5
Benton	10.3	12.8	11.2	10.7	12.2	12.2	13.1	13.3	14.9	14.2	13.0	14.4	15.5	12.9
Black Hawk	13.3	13.5	13.1	13.1	12.3	13.0	14.3	13.3	13.9	13.7	13.7	15.6	17.4	15.1
Boone	12.1	11.3	11.0	11.6	12.1	12.4	10.9	11.4	12.3	13.1	12.3	13.0	14.5	10.6
Bremer	10.1	9.0	9.4	10.0	10.7	10.5	11.7	11.2	10.3	10.6	11.3	12.6	15.8	11.5
Buchanan	14.1	14.6	13.4	13.5	13.4	14.8	13.1	15.6	14.4	14.5	16.1	17.1	18.1	15.4
Buena Vista	13.1	12.2	13.2	11.5	11.0	12.1	11.8	13.7	13.3	14.4	12.6	13.9	14.7	12.0
Butler	10.3	10.4	10.2	9.4	10.5	10.4	10.8	10.1	10.2	11.7	11.4	14.1	15.1	13.9
Calhoun	9.1	10.0	8.5	10.0	9.9	9.1	7.8	10.4	9.6	11.3	10.7	11.0	14.3	11.7
Carroll	11.7	11.4	11.0	12.0	13.1	12.5	11.9	12.6	13.0	14.9	13.6	17.0	18.4	13.6
Cass	10.7	9.8	10.9	10.2	10.2	9.9	11.8	11.3	13.6	12.7	12.6	15.1	15.9	14.3
Cedar	10.0	10.3	11.0	11.0	11.6	11.0	11.6	11.2	12.4	12.7	12.9	13.7	15.2	11.2
Cerro Gordo	12.1	11.4	11.3	12.9	12.7	12.6	12.7	12.8	13.2	14.7	14.0	14.1	14.4	12.6
Cherokee	10.3	9.9	10.6	8.6	9.8	11.3	10.1	11.3	10.9	14.2	12.5	13.2	15.3	12.8
Chickasaw	10.3	9.4	11.7	9.2	11.3	12.6	13.5	12.5	12.5	15.0	13.6	15.0	17.6	17.9
Clarke	12.9	11.9	10.1	10.5	12.5	10.1	9.7	12.6	12.7	12.8	14.5	12.2	14.4	12.4
Clay	11.3	10.2	11.2	10.7	11.8	12.4	10.8	13.2	14.6	13.6	14.9	13.7	17.4	13.9
Clayton	10.4	11.1	10.4	9.4	11.0	11.0	12.8	12.2	13.5	12.7	13.6	13.8	15.3	15.2
Clinton	12.7	13.6	12.6	12.0	12.9	12.6	13.3	13.3	13.4	13.4	13.2	14.5	16.1	14.2
Crawford	12.5	11.7	12.8	14.1	10.8	10.7	12.6	11.8	12.3	13.6	12.0	13.7	15.9	15.9
Dallas	13.2	14.3	13.5	14.5	14.3	13.6	13.4	13.6	14.0	13.7	15.2	15.6	15.3	13.3
Davis	12.0	12.1	14.1	15.2	11.1	15.1	14.1	12.9	15.3	15.4	14.0	14.3	17.6	12.4
Decatur	10.8	11.2	12.0	11.8	11.7	13.9	10.9	10.8	11.5	10.9	11.7	12.3	13.3	10.7
Delaware	10.6	13.3	11.3	12.7	11.6	14.6	14.3	14.3	14.9	15.8	14.6	16.6	19.4	14.4
Des Moines	12.4	12.2	13.0	13.3	12.3	12.2	13.0	13.3	13.6	13.3	13.7	14.7	16.5	13.5
Dickinson	10.6	10.9	10.5	9.4	8.8	9.6	8.3	10.0	10.7	10.7	10.6	12.8	15.2	13.8
Dubuque	13.1	13.1	13.0	13.5	13.4	13.3	14.2	13.4	14.2	14.6	13.7	15.2	17.3	15.2
Emmet	11.7	11.6	10.8	12.1	9.7	9.6	12.4	11.6	13.4	11.6	10.5	12.5	17.1	14.2
Fayette	10.7	10.8	11.9	11.3	12.3	13.8	11.6	12.7	13.4	13.2	12.8	14.8	14.2	14.2
Floyd	11.8	12.0	12.7	11.7	12.2	11.1	11.9	12.0	13.1	12.8	12.7	12.8	15.3	13.2
Franklin	11.1	10.3	11.9	11.4	10.5	12.1	10.7	11.3	11.5	10.9	11.6	15.4	14.3	10.9
Fremont	12.7	11.5	12.0	7.6	10.6	9.7	11.1	12.6	13.1	12.2	11.9	13.0	15.3	12.9
Greene	12.5	10.9	10.9	11.9	11.2	10.7	12.7	12.2	12.3	10.8	10.2	15.0	16.2	11.9
Grundy	8.5	11.1	10.4	10.1	8.0	9.2	11.7	9.4	11.4	12.1	11.4	12.6	15.6	12.3
Guthrie	12.1	10.6	11.1	11.4	10.7	11.2	9.4	13.9	12.4	11.2	10.2	13.5	13.3	13.2
Hamilton	13.0	13.6	13.1	11.3	11.9	12.7	12.0	12.8	13.7	13.0	13.1	14.8	15.6	13.4
Hancock	10.6	11.2	10.6	10.0	10.1	10.4	10.3	11.5	12.6	13.0	13.0	15.7	17.5	14.3
Hardin	12.9	11.2	10.2	11.6	13.0	11.7	11.0	10.2	11.0	11.2	11.1	13.3	13.6	11.9
Harrison	11.8	10.8	11.7	11.4	11.5	11.8	12.1	13.6	13.7	12.7	12.9	13.9	13.3	13.1
Henry	12.2	12.5	12.2	10.2	13.9	12.1	12.9	13.1	12.2	13.8	11.8	14.2	14.1	13.9
Howard	12.2	11.6	12.8	9.4	12.1	9.8	11.3	12.7	11.6	13.8	12.7	14.8	15.9	13.4
Humboldt	12.7	10.4	12.4	10.7	10.3	11.3	10.5	9.5	9.7	10.4	12.6	15.7	16.3	12.3
Ida	10.1	11.4	12.4	12.2	8.9	10.3	11.2	11.3	12.1	12.8	17.9	16.8	17.0	13.9
Iowa	11.4	11.2	10.1	14.8	12.7	14.2	14.3	13.3	14.1	14.6	16.1	14.3	16.6	12.7
Jackson	11.8	11.7	12.1	11.7	13.0	11.9	12.8	12.8	14.4	12.6	12.6	14.9	17.5	14.5
Jasper	12.5	11.5	12.2	12.0	11.8	12.5	12.1	13.1	13.6	12.4	13.3	13.2	14.3	13.7



Table 1. Estimated Birth Rates Per 1,000 Population in Iowa's Counties, 1974, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Jefferson	9.4	10.1	9.4	10.1	9.1	10.2	10.6	11.2	11.4	11.8	12.3	13.7	13.0	13.5
Johnson	12.8	12.4	12.5	12.5	12.4	12.8	13.5	13.9	14.0	14.6	13.7	15.0	15.1	14.0
Jones	9.8	9.1	10.5	11.0	9.6	12.7	11.8	12.3	13.0	12.9	12.2	13.2	15.5	14.9
Keokuk	11.0	12.4	11.0	11.6	12.5	11.2	12.3	12.7	15.1	12.9	13.0	14.8	13.8	12.5
Kossuth	9.2	9.8	9.7	9.1	9.6	10.8	12.1	10.9	12.4	13.5	12.7	14.2	18.1	14.3
Lee	12.2	11.7	11.5	12.3	12.3	11.2	13.5	13.8	12.7	12.8	12.7	14.0	15.9	13.5
Linn	14.8	14.4	14.2	14.1	14.5	14.4	14.6	15.3	15.4	15.6	14.9	15.1	15.8	14.8
Louisa	13.7	14.5	16.0	13.5	14.7	13.7	15.7	12.5	12.7	14.1	12.9	13.4	17.3	14.6
Lucas	10.6	12.6	10.4	13.6	11.1	14.3	12.9	11.1	12.2	12.8	10.1	13.1	13.2	11.7
Lyon	12.8	12.4	11.4	12.6	11.5	13.9	13.5	15.0	13.1	14.9	14.0	15.4	18.0	13.3
Madison	13.3	11.8	12.3	11.2	11.8	12.3	12.6	12.1	12.6	12.7	13.5	12.6	13.4	12.6
Mahaska	13.7	13.0	11.8	11.9	13.3	12.5	12.8	12.3	14.0	13.2	14.8	14.7	14.2	13.2
Marion	13.7	12.9	10.7	12.2	11.7	13.7	12.9	13.6	12.1	12.5	13.3	13.6	15.7	13.5
Marshall	14.8	13.2	12.2	14.3	13.3	13.7	13.8	12.5	12.0	13.1	12.7	14.3	15.0	13.3
Mills	10.6	13.4	11.1	12.7	11.4	13.5	11.9	11.3	12.8	10.3	12.7	14.4	16.1	13.4
Mitchell	12.0	11.1	12.0	11.7	11.6	12.8	14.0	11.6	13.6	12.0	11.5	12.9	15.2	13.2
Monona	11.4	9.8	10.8	9.7	12.5	12.3	10.5	14.4	13.3	11.4	11.1	12.5	13.4	12.0
Monroe	12.5	9.6	11.8	12.0	10.9	10.7	14.6	12.0	13.6	14.3	11.9	14.0	14.3	13.7
Montgomery	12.5	12.8	9.5	13.5	13.5	13.4	11.7	13.9	11.5	13.1	12.4	13.6	16.5	14.5
Muscatine	15.0	15.0	13.9	14.4	15.3	15.3	15.7	16.1	16.7	16.7	17.2	15.5	18.0	16.5
O'Brien	12.3	10.7	12.8	12.7	13.1	11.3	12.4	12.9	11.4	11.9	12.6	14.1	16.3	13.6
Osceola	10.6	10.9	11.3	11.2	12.8	9.8	11.3	11.9	14.7	12.9	13.8	13.0	15.4	13.6
Page	11.4	11.0	9.9	11.0	10.4	10.8	9.9	10.0	10.6	11.9	13.1	11.2	14.7	12.7
Palo Alto	10.5	10.6	12.1	9.7	9.4	10.3	10.5	10.7	10.5	8.9	13.0	13.3	15.2	13.8
Plymouth	11.6	12.4	13.3	12.6	13.0	12.8	12.8	13.4	12.6	14.8	13.2	17.0	17.9	14.4
Pocahontas	9.3	8.1	8.7	7.6	7.2	9.2	9.6	10.6	11.1	13.0	11.3	13.8	13.2	11.0
Polk	16.3	16.4	16.0	16.3	15.6	15.7	15.9	16.4	16.5	16.4	17.2	16.0	16.1	14.2
Pottawattamie	14.1	13.5	13.9	13.0	13.6	13.9	14.3	15.1	15.7	16.5	15.5	16.1	16.8	15.8
Poweshiek	9.4	10.4	10.1	10.2	11.4	11.1	10.9	11.4	12.5	11.9	11.9	11.7	14.5	13.2
Ringgold	12.9	8.8	12.1	8.0	10.3	5.6	7.1	10.6	9.8	8.1	9.7	14.1	14.1	11.3
Sac	10.9	9.4	10.9	13.3	11.3	10.4	11.5	11.5	10.3	11.8	12.4	13.7	14.2	12.7
Scott	14.2	14.8	13.8	14.6	14.4	14.4	15.5	16.0	15.7	16.1	15.8	16.9	17.9	16.3
Shelby	11.0	11.0	10.7	8.8	12.0	11.1	12.4	11.6	11.8	13.8	12.3	16.1	14.1	12.1
Sioux	12.7	12.7	13.2	12.1	13.1	12.2	14.2	14.2	14.6	14.5	14.5	17.0	18.9	16.5
Story	11.7	11.5	11.3	12.1	11.5	11.4	10.5	11.8	12.2	12.5	11.9	14.2	15.0	12.6
Tama	13.5	12.5	14.0	13.0	13.3	13.3	12.8	13.0	12.3	12.3	12.5	13.7	15.0	13.3
Taylor	9.4	9.2	11.1	10.5	10.6	11.0	9.9	10.6	8.9	12.9	11.0	12.6	16.3	13.7
Union	11.1	12.5	10.9	12.9	12.4	9.6	12.1	11.9	11.3	11.6	13.1	12.2	15.2	14.2
Van Buren	10.8	13.6	10.1	11.1	9.8	13.4	13.9	11.8	12.7	11.6	12.1	13.4	15.6	11.5
Wapello	11.4	11.0	11.7	12.9	11.3	11.9	12.9	11.8	13.5	13.7	13.6	13.8	13.6	12.3
Warren	11.9	12.5	12.9	12.2	12.4	11.7	13.2	13.9	15.0	13.3	14.0	14.1	16.2	14.7
Washington	14.5	13.6	12.2	15.8	15.0	13.8	13.5	13.3	13.9	15.7	15.4	15.5	17.0	12.7
Wayne	11.4	8.4	8.4	9.4	11.7	11.3	10.2	10.6	10.5	11.7	10.9	12.0	17.2	11.8
Webster	12.8	13.2	13.4	12.7	12.7	13.3	13.4	14.1	14.0	14.8	14.9	14.5	15.8	13.3
Winnebago	10.1	10.6	11.2	12.0	11.2	11.3	10.2	11.8	11.5	12.2	13.6	13.5	15.8	13.9
Winneshiek	8.9	9.9	9.6	10.1	11.5	11.5	10.9	12.2	12.0	12.4	12.8	14.8	14.9	11.9
Woodbury	16.0	16.4	16.6	16.6	16.7	16.3	16.4	16.7	16.4	16.6	15.3	16.1	18.1	15.8
Worth	9.9	11.6	9.7	10.8	11.4	11.6	11.8	11.5	12.6	12.4	13.2	13.0	13.2	9.8
Wright	11.9	10.6	10.8	12.0	9.7	11.0	11.0	12.0	13.3	15.0	13.3	12.8	13.7	13.3
State of Iowa	13.1	13.0	12.8	13.0	13.0	13.1	13.4	13.7	13.9	14.2	14.0	14.8	16.0	14.0

Table 2. Estimated Death Rates Per 1,000 Population in Iowa's Counties, 1974, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Adair	16.5	11.8	14.4	16.4	13.5	15.3	14.5	12.8	13.2	12.4	12.0	12.6	11.8	11.5
Adams	14.5	15.5	12.7	12.4	16.6	14.5	13.3	12.0	13.3	11.7	14.0	14.6	11.9	11.7
Allamakee	11.2	13.6	11.1	11.7	11.8	12.0	12.2	12.8	11.9	14.3	13.4	11.3	10.1	13.1
Appanoose	13.8	11.6	13.8	14.3	14.0	13.9	14.5	12.5	14.3	13.0	12.7	12.5	13.4	15.4
Audubon	11.8	13.2	9.4	14.6	14.2	15.7	15.3	16.6	13.5	12.0	11.3	8.9	10.7	10.1
Benton	8.3	8.4	9.2	8.4	8.6	8.4	8.8	9.1	9.8	8.8	10.5	9.3	10.2	10.7
Black Hawk	9.7	9.6	9.5	9.3	9.1	10.0	9.6	9.1	9.0	9.2	8.6	7.5	8.1	8.1
Boone	11.7	12.5	11.5	11.6	12.0	12.0	12.2	10.5	11.0	11.5	11.1	10.4	11.4	11.7
Bremer	9.7	10.4	8.8	9.1	10.1	10.2	11.5	9.4	9.3	10.0	9.3	8.5	9.3	9.8
Buchanan	10.0	10.5	10.4	9.3	10.9	9.6	10.9	9.6	8.6	8.9	9.5	9.5	8.9	8.8
Buena Vista	11.9	11.5	10.8	10.8	10.5	10.7	10.7	9.8	10.0	10.5	12.6	10.2	11.7	10.3
Butler	11.7	12.0	12.2	11.3	12.8	12.9	12.4	12.8	11.1	10.7	12.4	10.7	10.0	11.6
Calhoun	14.4	13.4	15.5	13.3	15.7	12.1	14.7	16.1	14.9	12.9	17.4	13.6	12.3	13.7
Carroll	12.5	11.7	11.2	11.3	10.1	10.7	10.6	10.9	10.1	10.0	9.4	10.5	9.6	10.5
Cass	15.2	13.2	13.4	13.6	14.3	11.6	12.0	12.3	14.2	13.6	14.8	12.9	11.0	13.2
Cedar	9.1	10.2	11.1	9.7	10.0	10.0	9.0	8.8	8.5	10.1	9.6	9.5	9.0	9.9
Cerro Gordo	11.3	12.3	10.6	11.4	11.6	10.5	10.8	10.5	9.7	10.3	9.9	10.8	9.5	10.4
Cherokee	13.6	12.8	12.3	14.3	10.4	11.4	11.4	11.7	11.8	12.1	12.0	10.7	9.8	11.2
Chickasaw	10.9	9.5	10.1	10.2	12.0	12.6	11.7	9.3	12.0	10.7	9.8	10.5	10.1	9.3
Clarke	12.3	12.6	9.7	12.4	13.0	11.2	12.7	12.3	13.7	11.2	13.1	12.0	12.1	11.4
Clay	10.7	11.5	9.5	9.4	12.2	9.3	10.3	9.7	10.5	9.0	10.4	9.5	9.8	9.9
Clayton	13.0	13.6	10.0	11.7	12.1	11.7	11.4	11.7	12.7	10.5	11.8	11.7	11.4	11.0
Clinton	11.6	10.6	11.5	11.2	10.7	10.4	10.7	10.1	10.6	11.0	10.9	10.0	9.3	10.1
Crawford	11.0	9.9	10.8	11.0	9.2	10.4	10.8	10.3	9.3	10.1	9.4	10.1	9.7	10.5
Dallas	8.9	8.1	8.9	8.7	9.0	9.1	8.6	8.8	9.1	9.6	9.3	9.1	10.4	10.1
Davis	9.6	13.4	9.3	12.3	14.0	10.8	12.8	10.5	12.4	12.0	11.9	9.6	10.7	13.1
Decatur	12.5	12.0	16.2	12.4	10.8	13.9	14.7	15.7	16.5	12.7	12.4	10.0	11.2	12.1
Delaware	8.4	7.6	8.2	8.6	9.3	8.1	9.5	9.9	7.9	9.5	9.1	9.8	11.0	9.6
Des Moines	11.2	10.2	10.6	10.7	11.0	9.6	10.0	9.3	11.1	10.7	11.6	10.0	9.0	10.5
Dickinson	10.2	11.9	10.8	11.5	11.5	11.9	11.2	9.8	10.7	10.7	10.8	11.1	9.2	13.6
Dubuque	10.1	9.9	9.0	9.3	9.6	9.9	9.7	9.3	9.7	9.7	9.8	9.2	8.3	9.0
Emmet	11.2	12.3	13.0	12.9	11.6	11.8	12.8	12.7	11.2	11.6	13.5	11.8	10.1	11.2
Fayette	11.9	12.4	11.8	11.8	10.6	11.6	11.6	11.0	12.1	11.8	12.2	11.5	10.1	10.8
Floyd	13.5	12.6	12.1	13.0	12.7	11.8	13.1	12.8	12.7	11.9	12.6	9.7	10.1	10.4
Franklin	12.7	12.6	12.4	12.3	12.9	12.5	12.9	10.5	11.5	10.6	11.9	12.1	11.8	13.4
Fremont	13.6	16.0	14.5	15.4	16.3	15.8	14.1	15.5	12.9	12.6	14.8	14.5	15.8	14.2
Greene	14.2	14.7	13.0	15.2	13.8	10.3	11.4	14.0	14.2	14.1	12.1	13.5	11.4	14.3
Grundy	10.8	11.8	11.0	11.5	11.0	10.1	10.5	7.4	11.2	9.7	10.7	8.3	10.7	8.8
Guthrie	11.4	13.0	10.3	12.8	13.0	12.4	13.0	12.2	12.0	13.0	13.5	13.2	13.4	14.7
Hamilton	11.1	9.6	12.0	11.4	11.5	9.6	10.7	11.3	11.6	11.0	11.9	9.9	10.7	10.1
Hancock	11.0	9.7	10.7	10.7	12.6	10.3	11.1	10.7	9.2	10.3	8.6	9.8	10.6	11.3
Hardin	13.4	16.0	13.4	12.9	12.0	13.1	13.1	14.2	12.6	12.4	12.0	11.5	11.2	13.0
Harrison	14.4	13.6	11.3	14.9	12.5	12.1	15.5	13.6	13.8	13.4	11.9	12.0	10.7	11.3
Henry	10.6	9.1	9.9	9.5	10.1	10.0	11.9	10.2	11.1	8.8	11.0	10.6	11.0	11.2
Howard	14.2	15.1	14.3	12.6	13.6	13.5	12.6	12.3	12.0	12.6	10.8	13.4	12.3	11.5
Humboldt	12.3	10.8	11.2	12.5	12.5	11.0	13.5	13.3	12.2	12.6	9.2	11.2	9.1	11.5
Ida	14.5	14.0	10.6	12.5	15.2	13.1	14.1	12.6	14.1	13.7	10.2	11.5	10.4	14.9
Iowa	11.7	11.2	10.1	11.9	11.6	11.0	11.6	11.0	10.5	11.9	10.4	10.7	8.5	12.1
Jackson	11.2	10.5	11.6	12.7	11.0	10.9	11.3	10.1	12.1	10.5	12.2	10.1	9.2	10.0
Jasper	10.1	9.3	9.5	9.7	10.3	10.8	10.4	10.2	10.8	8.6	9.5	9.6	8.9	9.7

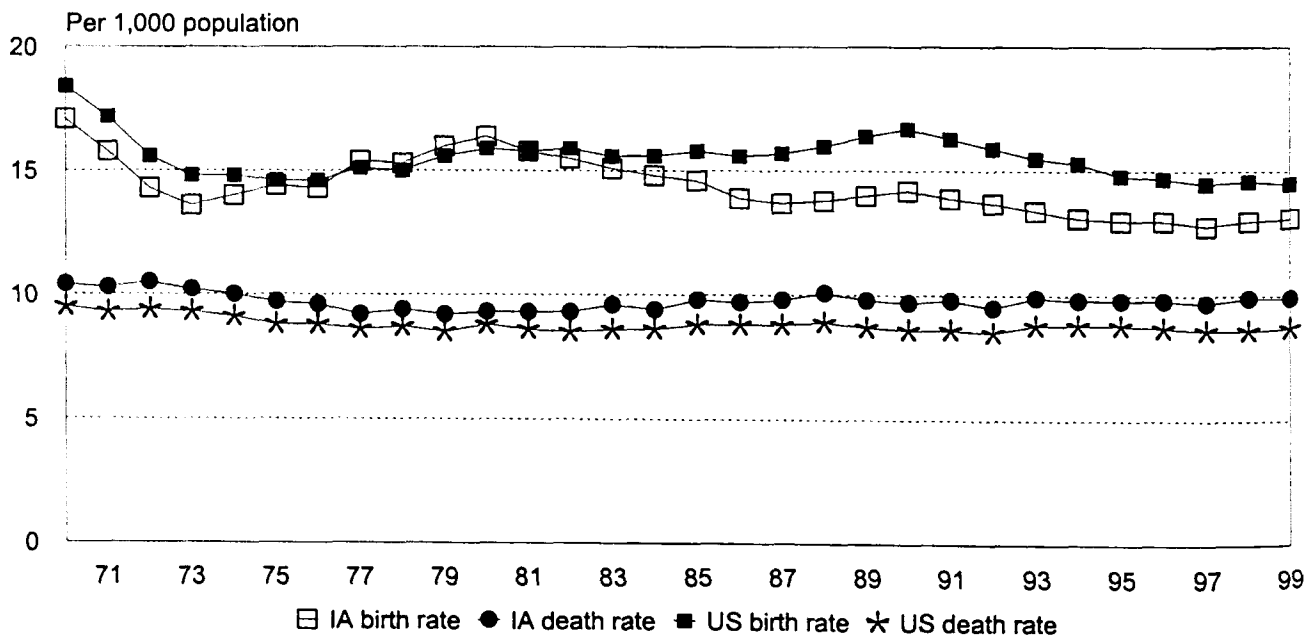
Table 2. Estimated Death Rates Per 1,000 Population in Iowa's Counties, 1974, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Jefferson	7.8	9.5	9.2	9.4	8.5	8.2	9.9	9.7	10.6	9.4	8.9	10.4	9.6	13.3
Johnson	5.0	4.7	4.7	4.9	4.7	4.7	4.6	4.5	4.7	4.5	4.9	5.1	5.1	5.0
Jones	8.9	9.3	8.0	9.1	8.3	8.5	8.9	8.5	10.3	9.9	9.0	8.7	9.6	9.9
Keokuk	11.0	10.6	13.1	12.6	11.5	12.0	11.8	10.7	11.9	14.2	13.0	13.5	14.7	13.7
Kossuth	11.7	12.1	11.7	10.9	12.3	10.7	12.3	10.8	11.3	10.6	10.0	9.5	11.3	10.5
Lee	11.8	10.9	11.0	11.2	11.8	12.1	11.9	11.4	11.6	10.3	10.9	9.3	9.4	10.9
Linn	7.9	7.6	7.4	7.4	7.6	7.7	7.7	7.1	7.5	7.3	7.7	7.1	7.0	8.3
Louisa	8.4	9.3	8.5	9.2	10.3	11.7	12.5	9.9	8.6	10.4	8.9	8.7	9.1	11.2
Lucas	13.6	14.3	13.0	12.3	12.4	13.1	11.8	13.5	13.4	14.2	15.1	11.8	13.7	16.4
Lyon	11.1	9.6	9.9	10.4	11.2	10.3	11.4	9.7	11.5	9.6	10.8	9.5	10.5	9.9
Madison	10.8	13.1	12.6	10.1	11.8	11.1	11.1	12.8	11.9	12.5	11.6	11.7	9.9	13.5
Mahaska	10.2	9.4	9.4	10.8	10.3	11.0	10.3	10.2	10.4	11.6	11.4	11.8	10.7	11.7
Marion	9.9	11.3	10.1	10.6	10.6	10.3	10.1	10.8	10.1	11.0	10.5	10.4	9.4	10.5
Marshall	13.0	12.9	13.2	13.5	13.7	13.4	13.1	12.1	13.3	12.7	13.1	10.2	9.9	8.7
Mills	9.9	8.5	9.7	9.6	8.4	9.1	11.2	8.2	9.7	9.8	11.1	9.6	7.7	9.8
Mitchell	12.2	13.4	13.6	13.2	12.6	12.3	14.3	14.1	12.4	13.5	13.6	13.9	13.8	12.7
Monona	15.3	15.9	15.3	16.0	15.5	15.8	15.7	16.1	14.7	15.5	14.1	15.3	12.3	12.8
Monroe	11.6	11.8	12.2	12.2	13.6	14.1	11.8	14.4	13.4	12.9	16.9	12.5	13.8	12.5
Montgomery	13.3	14.9	14.9	16.6	15.9	12.1	15.2	13.1	14.7	15.0	15.4	14.8	13.3	14.1
Muscatine	9.4	9.2	8.8	8.0	8.9	10.1	9.3	9.2	9.7	8.9	9.5	9.5	9.3	9.8
O'Brien	12.0	12.6	12.1	13.2	12.7	13.3	12.0	12.4	13.3	12.3	11.7	11.9	12.1	12.7
Osceola	11.7	12.8	11.2	12.9	13.2	12.6	10.0	10.7	12.1	9.1	10.7	10.9	10.5	10.5
Page	14.8	13.3	14.6	12.3	15.3	12.8	12.7	13.4	14.0	13.6	12.7	12.9	13.7	12.9
Palo Alto	14.7	14.6	13.9	14.4	12.9	13.5	14.7	11.8	13.6	13.1	12.9	11.1	11.6	12.4
Plymouth	10.0	9.8	10.0	9.7	10.0	8.8	9.4	10.3	9.6	10.0	9.4	10.2	9.3	9.5
Pocahontas	11.7	12.4	14.6	13.4	11.9	14.8	13.0	13.7	14.1	12.7	13.6	13.4	12.7	12.2
Polk	7.5	7.9	7.6	7.7	7.7	7.5	7.6	7.3	7.9	7.8	8.0	7.9	7.9	8.4
Pottawattamie	9.5	9.9	9.4	9.0	9.0	9.5	9.2	8.8	9.1	9.0	8.8	9.3	7.8	8.8
Poweshiek	12.1	13.2	10.8	11.2	10.5	10.6	9.8	10.8	9.0	10.3	10.2	11.1	9.4	11.1
Ringgold	14.9	13.4	17.0	13.8	13.3	16.5	15.5	14.3	13.7	15.5	12.0	11.7	13.8	16.9
Sac	14.7	14.6	14.3	13.9	13.5	13.8	14.6	12.7	11.8	14.4	14.3	12.7	11.6	13.3
Scott	8.5	8.2	8.0	7.5	8.3	8.1	8.4	7.9	7.6	7.3	8.1	7.8	7.5	8.8
Shelby	12.4	11.7	14.5	10.9	13.0	12.9	11.2	11.0	11.5	11.4	12.1	9.5	10.9	11.6
Sioux	7.4	7.8	8.6	7.6	7.3	7.8	7.8	7.2	7.2	7.6	8.0	7.7	7.2	9.3
Story	6.0	6.0	6.0	5.6	5.7	5.2	5.6	5.6	6.1	5.6	5.5	4.9	5.5	5.9
Tama	11.9	11.3	11.0	12.6	12.3	12.9	12.6	9.8	12.4	13.0	12.0	11.1	11.9	13.1
Taylor	13.7	14.3	15.2	14.8	12.2	13.9	13.4	13.3	16.3	14.8	18.5	13.1	15.2	14.5
Union	12.7	12.3	12.2	13.2	13.6	12.8	13.0	12.8	13.0	13.1	12.3	12.3	10.1	13.9
Van Buren	13.0	13.9	12.3	12.8	12.7	13.2	13.7	12.6	14.0	11.3	15.4	10.0	13.8	16.7
Wapello	12.9	12.5	12.5	12.5	12.7	11.9	12.8	11.6	13.7	13.3	12.9	13.2	11.4	11.9
Warren	7.5	8.0	7.4	8.6	6.8	8.2	7.5	6.3	7.7	7.9	7.6	7.5	6.2	7.6
Washington	10.5	10.5	11.1	12.0	10.4	12.1	11.6	10.2	12.2	11.0	11.1	11.4	11.3	13.1
Wayne	15.2	18.1	18.7	16.0	15.6	17.3	14.5	16.1	14.5	13.0	13.6	14.2	14.4	14.6
Webster	12.6	11.6	12.7	12.6	12.5	12.4	12.1	12.0	12.2	11.2	11.3	10.8	10.0	11.1
Winnebago	14.1	12.3	11.2	12.6	10.7	11.5	12.7	13.3	12.6	11.4	10.3	12.0	10.4	12.0
Winneshiek	8.8	8.6	8.5	8.7	9.0	8.5	8.3	7.6	8.4	10.5	8.7	9.5	7.7	9.5
Woodbury	9.1	9.7	9.4	9.1	10.0	9.7	9.7	9.8	9.3	9.6	9.8	9.5	9.0	10.2
Worth	14.8	13.9	12.6	12.3	15.3	13.0	12.1	11.9	12.2	14.4	10.6	11.7	10.2	12.0
Wright	13.8	12.8	15.4	13.4	12.3	13.9	14.8	12.1	12.4	12.5	11.5	12.0	11.1	12.7
State of Iowa	9.9	9.9	9.7	9.8	9.8	9.8	9.9	9.5	9.8	9.7	9.8	9.4	9.2	10.0

For the most part, death rates changed far less than did birth rates. Fifty-six counties had higher death rates in 1999 than in 1989. But in only eight counties were the rates at least 3 points higher at the end of the period than at the beginning. Among the 41 counties where the death rates were lower in 1999 than in 1989, only three dropped by at least 3 points. Relatively small changes also occurred when 1979 and 1999 death rates were compared.

**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 all years except 1990 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, 1999," MONTHLY VITAL STATISTICS REPORT, 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).

Figure 1. Iowa and U.S. birth and death rates, 1970–1999.



## Fertility (1940-1990) and Estimated Fertility (1999) Rates in Iowa's Counties

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Fertility is a measure that examines births in relation to the number of women of child-bearing age. Unlike crude birth rates, fertility takes into account differences in the age and sex structure of a population. Fertility rates are calculated by dividing the number of births by the number of females age 15 to 44 and then multiplying the result by 1,000. The resulting rates are interpreted as the number of births in a particular year per 1,000 women age 15 to 44.

Iowa's fertility rates varied significantly in the decades between 1940 and 1990 (Table 1). The 1940 rate of 77.2 births per 1,000 women age 15-44 represented the aftermath of the Great Depression, when economic conditions had resulted in far fewer births. After the end of World War II, births rose in the "baby-boom" years of the 1950s and 1960s. The fertility rate for the state jumped to 114.8 in 1950 and increased to 124.5 in 1960, more than 60 percent higher than what it had been in 1940. This was followed by rapidly declining fertility in the late 1960s that yielded a rate of 87.3 births per 1,000 women age 15-44 in 1970. By 1980, the fertility rate had dropped to 73.7, a figure below that of 1940. It continued to decrease to 1990 (64.6) and the rate was estimated to be 62.3 in 1999.

Iowa's counties generally followed the state trends. The highest fertility rate recorded during the years reported in Table 1 occurred in 1960 for 62 counties and in 1950 for the other 37. The rate was lower in 1990 than any other census year in 85 counties. Even lower numbers were estimated in 1999 than in 1990 for 68 counties, indicating that the downward trend in fertility rates had not stopped, although the drop was relatively small in many counties in the most recent decade.

The magnitude of the decline in fertility across these decades is further illustrated by examining the highest and lowest rates across counties. In 1960, Dubuque had the highest fertility rate (154.8) and Decatur (81.1) the lowest. By 1990, only two counties (Davis, Wright) had fertility rates as high as the lowest figure recorded in 1960. And four counties recorded fertility rates below 50.0 in 1990. By 1999, estimated fertility rates were below 50.0 in eight counties and above 80.0 in none, although Ringgold was close at 79.1. In 47 counties, fertility rates in 1999 were less than half of those reported at the peak in 1950 or 1960; in a few of these counties, the drop was to about a third of the high point. Thus, far fewer births were occurring to women aged 15 to 44 in years at the end of the last century than in those at the middle of that period.

**Note:** Caution is urged in examining the fertility rates. In counties with relatively large numbers of females age 15-44 living in group quarters (for example, college residence halls, prisons), the rates usually will be lower than in counties without such facilities.

Table 1. Fertility Rates ([births/women 15-44] x 1,000) for 1940-1990 (census) and 1999 (estimate) in Iowa's Counties.

County	1999	1990	1980	1970	1960	1950	1940	County	1999	1990	1980	1970	1960	1950	1940
Adair	54.0	71.3	99.5	84.7	117.1	124.1	87.5	Jefferson	42.7	52.5	59.5	85.0	121.6	104.4	73.2
Adams	64.3	70.7	88.7	78.5	96.8	97.9	88.6	Johnson	43.8	47.5	50.2	74.9	127.9	115.8	66.9
Allamakee	76.7	70.7	88.0	98.9	142.6	136.5	78.5	Jones	54.8	69.3	81.2	98.2	128.9	130.2	85.2
Appanoose	63.6	63.9	81.1	78.9	99.5	91.9	83.5	Keokuk	63.0	70.9	95.2	86.2	118.0	132.3	77.3
Audubon	64.2	75.3	97.3	68.3	118.3	128.5	79.0	Kossuth	53.3	75.2	93.0	89.7	148.7	130.6	93.8
Benton	52.8	70.9	85.5	77.0	123.7	112.7	82.9	Lee	63.1	63.7	77.3	90.4	113.7	109.6	78.0
Black Hawk	58.2	56.7	69.3	81.1	134.5	115.0	76.3	Linn	65.1	65.0	67.7	89.5	128.3	111.8	68.9
Boone	60.5	63.4	71.0	75.5	95.0	100.5	66.4	Louisa	69.8	68.7	67.6	78.9	93.5	111.0	80.4
Bremer	48.9	50.0	74.1	74.1	120.0	109.5	84.8	Lucas	60.4	69.4	85.9	86.9	107.9	98.2	80.2
Buchanan	73.9	73.6	93.9	98.2	139.9	135.0	82.7	Lyon	73.2	80.9	98.0	97.2	139.1	124.2	80.3
Buena Vista	64.7	69.1	75.6	77.9	112.1	119.0	76.2	Madison	68.8	64.5	81.8	91.5	112.9	101.5	88.0
Butler	59.1	64.2	84.4	90.1	116.6	112.7	75.3	Mahaska	69.0	64.3	84.8	84.0	106.1	108.4	62.7
Calhoun	57.3	67.8	80.4	79.0	116.9	117.9	82.3	Marion	66.6	57.9	68.5	74.5	113.3	108.7	82.4
Carroll	65.6	79.9	96.2	97.5	143.7	133.8	86.9	Marshall	74.0	63.1	72.7	88.8	121.7	106.3	82.0
Cass	61.0	69.5	73.7	87.0	129.7	114.1	78.1	Mills	49.8	46.6	78.6	74.3	107.0	90.1	61.2
Cedar	52.6	63.4	67.5	81.8	103.4	109.4	67.6	Mitchell	71.7	68.9	86.0	92.2	133.0	130.1	78.2
Cerro Gordo	58.8	67.1	67.2	81.0	121.2	111.7	78.1	Monona	70.8	67.9	86.1	81.1	123.8	116.2	88.4
Cherokee	58.4	75.7	74.8	84.8	124.7	124.6	68.5	Monroe	68.8	75.4	75.7	76.8	110.9	117.7	91.1
Chickasaw	57.3	80.3	82.7	91.1	141.2	139.7	99.3	Montgomery	66.4	68.3	80.9	94.0	105.8	112.9	78.9
Clarke	68.8	65.2	74.2	84.8	91.6	112.3	95.5	Muscatine	71.4	75.3	79.2	98.2	137.6	116.0	81.2
Clay	57.4	65.1	80.0	82.4	112.3	123.1	82.9	O'Brien	72.6	66.7	86.2	85.7	130.4	130.5	74.6
Clayton	57.8	67.8	85.1	94.1	128.1	121.1	83.0	Osceola	59.6	70.8	87.5	98.8	132.3	124.6	81.0
Clinton	63.3	64.0	74.2	94.7	122.3	107.1	74.2	Page	69.3	65.7	74.5	82.5	99.4	93.3	71.5
Crawford	68.0	70.2	83.9	104.3	122.8	124.6	76.3	Palo Alto	65.0	52.2	87.7	80.7	149.5	130.5	112.2
Dallas	62.4	64.0	71.5	93.1	116.5	110.9	71.3	Plymouth	62.3	75.2	84.3	92.7	134.1	132.0	85.6
Davis	65.3	81.9	85.9	81.6	108.8	105.4	67.3	Pocahontas	58.4	78.0	77.1	80.9	129.6	134.9	89.9
Decatur	53.2	53.6	60.5	64.6	81.1	106.1	99.2	Polk	67.8	64.9	67.4	89.2	120.6	105.9	65.8
Delaware	56.4	80.2	103.3	103.3	140.0	131.3	91.2	Pottawattamie	66.5	74.2	74.8	91.2	134.8	119.9	66.5
Des Moines	61.9	63.5	76.9	90.0	120.0	105.8	65.7	Poweshiek	45.6	54.5	57.8	74.0	118.2	106.9	86.2
Dickinson	59.9	58.0	73.6	90.6	132.2	121.0	78.3	Ringgold	79.1	48.0	78.5	86.6	101.1	107.9	78.1
Dubuque	62.1	65.5	73.3	100.7	154.8	126.3	81.3	Sac	65.9	68.1	92.0	85.2	133.6	123.4	85.0
Emmet	62.8	59.4	83.3	82.6	132.5	123.8	93.9	Scott	62.9	68.1	76.4	97.8	130.1	109.8	72.7
Fayette	59.0	71.0	80.8	85.9	127.3	117.7	82.1	Shelby	63.6	75.7	88.6	85.9	146.6	121.7	80.3
Floyd	65.9	68.2	65.8	91.5	116.4	126.1	76.5	Sioux	60.7	68.2	92.0	83.3	131.2	135.8	91.5
Franklin	63.0	59.7	77.3	81.6	99.4	100.2	83.0	Story	45.2	45.8	51.6	72.0	124.5	110.9	70.5
Fremont	71.0	66.3	75.5	71.0	94.8	101.7	78.6	Tama	76.0	66.1	77.7	86.1	113.8	128.0	75.2
Greene	74.1	60.6	80.4	93.8	124.9	138.1	85.4	Taylor	55.2	74.3	91.4	82.7	92.6	92.6	80.9
Grundy	47.9	65.8	80.4	81.2	120.3	109.6	71.9	Union	55.8	56.4	76.0	88.9	112.8	107.3	64.4
Guthrie	69.4	62.7	84.1	80.0	113.1	108.6	92.6	Van Buren	63.5	65.1	76.8	71.6	118.3	104.2	80.2
Hamilton	70.7	67.9	72.3	88.9	106.0	109.6	87.5	Wapello	57.7	66.9	72.3	83.3	112.6	105.7	76.1
Hancock	56.9	67.0	93.8	88.4	116.9	125.5	92.2	Warren	53.2	56.7	65.1	95.8	131.9	109.2	85.9
Hardin	74.1	60.2	80.9	78.6	110.9	119.5	79.0	Washington	76.0	79.6	80.0	92.3	118.7	121.4	91.4
Harrison	62.6	66.2	80.1	96.4	132.1	122.9	77.4	Wayne	69.3	69.9	87.5	73.4	93.7	97.7	75.9
Henry	62.3	67.1	73.8	81.5	100.2	109.4	75.9	Webster	65.5	72.1	76.1	83.3	139.1	123.7	80.1
Howard	74.1	80.4	92.7	85.8	135.1	127.6	78.8	Winnebago	53.0	61.0	76.1	77.1	116.7	116.7	96.0
Humboldt	74.6	58.6	81.0	76.4	135.1	115.6	87.1	Winneshiek	40.1	54.5	65.4	76.7	125.5	119.6	85.7
Ida	59.0	71.8	94.4	69.5	102.8	108.6	76.3	Woodbury	75.8	75.4	80.0	92.9	129.9	117.1	68.2
Iowa	62.0	76.8	74.5	92.2	120.1	125.1	76.6	Worth	55.0	67.2	73.2	85.6	102.3	114.6	74.4
Jackson	64.4	64.7	80.5	100.8	148.2	130.9	95.2	Wright	67.3	81.9	79.5	81.2	120.9	123.7	85.0
Jasper	66.3	60.9	69.3	85.2	116.0	100.9	78.7								
								State of Iowa	62.3	64.6	73.7	87.3	124.5	114.8	77.2

## **Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties: 1980, 1984, 1989, 1994, 1998, and 1999**

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In 1999, there were 37,549 births to Iowans (Table 1). 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. Births in Iowa's counties in 1999 ranged from as few as 47 in Adams to as many as 5,954 in Polk. Polk had the highest number of births each year in the years reported in the tables in this section, while either Adams or Ringgold had the lowest. For more information on births in general, see the section in this volume titled "Births, Deaths, and Natural Change in Iowa's Counties: 1939-1999."

### **Out-of-Wedlock Births**

Even though births declined in Iowa between 1989 and 1999, the number of births out of wedlock increased (Table 1). The total of 10,328 out-of-wedlock births in 1999 was an increase of 36.8 percent from the 7,552 in 1989 and 134.9 percent from the 4,397 figure in 1979. From 1998 to 1999, out-of-wedlock births increased by 179 and total births by 287.

In each year reported in Table 1, Polk County had the highest number of out-of-wedlock births; Scott was second highest. The six out-of-wedlock births in Adams were the lowest of any county in 1999. Out-of-wedlock births occurred disproportionately in large, urban counties. In 1989, the five counties (Black Hawk, Linn, Polk, Scott, Woodbury) with the highest number of out-of-wedlock births together accounted for more than two-fifths (45.8%) of such births. In 1999, the same five counties recorded 42.1 percent of the out-of-wedlock births.

Other than 1993 to 1994 and 1996 to 1997, the number of out-of-wedlock births increased each year in the 1989-1999 period for Iowa. Ninety-three counties had more out-of-wedlock births in 1999 than in 1989 (Table 1). The increases ranged from 1 to 341. For 63 of the 93 counties that gained, the increase was less than 25. Linn, Polk, Pottawattamie, Scott, and Woodbury increased by more than 100. No county had as many as 10 fewer out-of-wedlock births in 1999 as in 1989.

Because the number of births in Iowa generally was going down at the same time as the number of out-of-wedlock births was going up, the percentage of all births that were out of wedlock rose from 11.3 percent in the years from 1980 through 1984 to 26.5 percent in the 1995-1999 period (Table 3, Figure 1). In 1995-1999, the percentage of out-of-wedlock births in the counties ranged from less than 15 in Davis, Lyon, Sioux, and Story to at least 33 (or 1 of every 3 births) in Black Hawk, Clinton, Des Moines, Lee, Pottawattamie, Scott, Webster, and Woodbury (Figure 2).

### **Births to Teens**

Births to Iowa teens, which include mothers 19 and younger, numbered 3,991 in 1999 (Table 2). Teen births in 1999, while 26 fewer than the number recorded in 1989, were 51 more than in 1998. For counties, births to teens in 1999 ranged from fewer than 10 in 14 counties to more than 300 in Polk and Scott. Fifty-six counties had fewer than 20 births to teens.

More than half (51) of Iowa's 99 counties had fewer teen births in 1999 than in 1989 (Table 2); of the remaining 48 counties, six had the same numbers both years while 42 counties increased. Marshall

Table 1. Births and Out-of-Wedlock Births in Iowa's Counties, 1980, 1984, 1989, 1994, and 1998-1999.

County	1999		1998		1994		1989		1984		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
Adair	71	16	76	17	93	9	109	11	114	4	166	5
Adams	47	6	50	16	64	13	70	13	73	7	94	5
Allamakee	186	41	172	45	158	32	214	35	219	21	252	21
Appanoose	158	48	153	52	152	52	166	51	197	21	241	28
Audubon	68	11	72	14	88	16	83	7	135	8	151	12
Benton	265	56	325	56	292	64	292	49	328	23	414	41
Black Hawk	1594	585	1638	591	1605	580	1687	491	2093	428	2382	374
Boone	318	63	295	72	313	61	309	47	333	30	395	29
Bremer	236	40	210	47	243	37	256	24	306	18	417	14
Buchanan	298	61	309	66	314	69	336	52	381	45	447	26
Buena Vista	254	85	236	70	243	66	253	25	290	22	322	15
Butler	159	43	162	25	163	26	180	26	242	12	284	8
Calhoun	103	17	114	36	106	21	124	22	140	4	204	16
Carroll	252	59	246	49	269	51	292	32	384	18	436	27
Cass	155	51	144	35	150	36	192	33	255	22	241	17
Cedar	181	34	185	27	193	38	224	38	253	28	260	15
Cerro Gordo	551	171	525	160	587	159	657	144	679	84	728	63
Cherokee	134	41	131	43	157	31	177	19	207	23	238	27
Chickasaw	138	38	126	35	169	29	182	26	224	16	258	14
Clarke	107	37	99	24	82	27	121	22	104	10	126	12
Clay	195	57	179	43	219	55	260	39	260	30	347	29
Clayton	193	41	207	44	207	39	262	35	282	17	343	18
Clinton	629	227	677	237	645	207	674	140	788	99	920	90
Crawford	205	67	193	44	176	39	204	34	256	25	321	18
Dallas	504	115	527	110	440	71	445	74	454	43	466	40
Davis	102	10	102	8	127	11	116	18	128	11	149	8
Decatur	90	28	92	32	113	20	99	16	112	7	129	9
Delaware	196	31	247	52	268	41	264	28	311	12	401	23
Des Moines	520	193	514	188	524	150	582	172	650	105	767	106
Dickinson	172	46	176	43	148	27	158	19	195	10	229	14
Dubuque	1154	281	1152	266	1176	266	1184	215	1362	170	1584	112
Emmet	124	34	126	44	109	22	121	20	160	15	227	15
Fayette	230	62	235	60	302	65	279	43	357	32	405	30
Floyd	192	60	196	34	186	39	220	47	241	35	259	12
Franklin	120	32	112	32	133	33	132	14	193	14	195	10
Fremont	98	34	89	23	79	24	98	19	117	12	131	12
Greene	125	30	110	29	108	29	104	21	172	15	182	14
Grundy	104	23	136	15	111	17	138	13	170	11	227	6
Guthrie	140	26	122	24	126	21	111	25	156	6	179	19
Hamilton	206	59	218	60	203	38	213	33	254	23	257	19
Hancock	127	28	135	35	125	20	167	19	212	11	252	15
Hardin	235	61	206	55	218	43	214	33	283	24	348	23
Harrison	179	42	166	39	175	36	191	40	217	24	254	29
Henry	246	56	250	76	239	56	224	46	264	19	303	27
Howard	117	28	112	27	96	20	126	15	161	14	184	6
Humboldt	130	38	107	18	118	16	136	10	186	15	188	8
Ida	80	15	90	13	86	15	150	12	148	11	148	5
Iowa	178	40	174	27	212	30	236	21	216	12	229	8
Jackson	238	70	236	64	241	71	255	43	325	27	370	32
Jasper	457	112	420	96	439	89	461	61	462	44	530	30



Table 1. Births and Out-of-Wedlock Births in Iowa's Counties, 1980, 1984, 1989, 1994, and 1998-1999 (continued).

County	1999		1998		1994		1989		1984		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
Jefferson	158	43	172	38	172	33	202	31	224	19	217	16
Johnson	1332	233	1275	218	1288	162	1297	138	1306	89	1276	71
Jones	196	54	183	32	253	61	236	35	262	29	323	33
Keokuk	125	30	142	21	129	23	152	17	185	15	223	18
Kossuth	162	30	173	28	196	25	240	25	295	16	397	27
Lee	466	166	449	186	435	139	492	149	582	97	693	94
Linn	2745	687	2635	655	2550	652	2507	522	2499	356	2826	341
Louisa	164	47	173	54	161	46	149	28	161	16	172	17
Lucas	97	20	115	35	129	33	93	14	132	18	170	15
Lyon	154	15	149	21	165	16	167	9	194	6	236	7
Madison	188	36	164	36	160	24	167	28	154	14	197	10
Mahaska	301	75	285	66	272	66	316	60	325	36	400	36
Marion	432	85	403	79	419	71	398	51	403	35	449	25
Marshall	573	176	511	153	523	150	488	92	588	55	673	60
Mills	156	51	194	47	183	54	168	28	192	20	225	24
Mitchell	133	31	123	22	142	19	127	15	149	9	196	10
Monona	115	35	99	28	124	30	113	26	140	14	179	13
Monroe	100	23	77	14	87	21	96	17	122	16	133	13
Montgomery	146	55	152	52	160	50	150	29	179	18	205	17
Muscatine	619	191	614	213	626	196	682	137	635	103	714	90
O'Brien	180	36	160	28	174	27	195	16	235	15	279	18
Osceola	73	16	76	17	70	11	100	6	105	3	137	5
Page	196	57	190	65	181	59	220	41	204	27	270	23
Palo Alto	104	30	107	26	107	12	140	19	162	16	209	17
Plymouth	289	65	306	71	311	50	310	40	409	27	427	20
Pocahontas	82	25	71	13	84	15	110	10	150	13	160	7
Polk	5954	1643	5898	1640	5458	1446	5545	1302	4909	833	5087	764
Pottawattamie	1216	457	1160	423	1156	399	1281	327	1379	254	1468	237
Poweshiek	176	47	195	59	211	55	226	28	220	17	247	18
Ringgold	69	13	47	11	30	7	53	4	84	7	86	3
Sac	128	31	112	26	126	30	153	17	182	13	235	14
Scott	2264	850	2339	828	2243	809	2376	721	2647	515	2954	476
Shelby	141	31	142	23	146	27	163	15	237	8	253	13
Sioux	397	50	400	42	380	37	432	21	519	11	636	19
Story	885	122	860	131	844	92	874	62	1039	46	1055	57
Tama	240	79	222	82	236	61	218	54	260	39	289	27
Taylor	66	14	66	11	78	12	79	12	102	5	135	6
Union	140	30	156	51	119	33	166	28	165	20	212	31
Van Buren	85	21	107	23	104	24	93	8	111	7	126	14
Wapello	404	119	391	141	428	130	484	96	534	91	597	77
Warren	483	111	504	119	449	84	499	68	489	40	551	33
Washington	306	48	284	45	279	55	301	45	307	28	326	17
Wayne	75	18	56	16	78	13	77	9	94	10	123	12
Webster	498	179	513	196	525	169	605	142	631	129	760	110
Winnebago	121	33	127	28	135	25	165	23	170	9	197	20
Winneshiek	186	33	208	42	242	27	269	20	321	21	327	21
Woodbury	1627	579	1664	630	1651	540	1496	425	1601	359	1793	319
Worth	76	15	90	19	91	15	107	22	115	11	127	4
Wright	165	44	149	27	157	36	191	28	203	23	247	20
State of Iowa	37549	10328	37262	10149	37057	9198	38916	7552	42360	5315	47797	4895

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa's Counties, 1980, 1984, 1989, 1994, 1998-1999.

County	1999		1998		1994		1989		1984		1980	
	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births
Adair	10	8	10	8	6	5	6	6	9	1	20	2
Adams	1	0	6	5	7	3	8	6	6	3	13	3
Allamakee	23	16	19	13	17	12	27	18	21	7	31	8
Appanoose	21	15	23	18	28	20	25	17	19	8	50	12
Audubon	3	3	5	4	8	6	7	2	16	4	21	9
Benton	13	10	22	17	29	23	22	15	33	13	55	26
Black Hawk	181	160	232	207	264	235	226	181	250	172	335	183
Boone	25	20	30	23	32	24	32	23	22	10	45	13
Bremer	16	12	30	25	18	12	14	10	22	9	56	10
Buchanan	22	18	23	19	34	25	26	18	38	15	45	14
Buena Vista	28	22	37	24	21	18	15	6	21	5	33	8
Butler	13	11	13	8	10	9	13	10	16	4	40	3
Calhoun	5	4	15	12	7	6	8	7	3	1	19	7
Carroll	14	11	14	14	23	21	19	17	16	4	31	13
Cass	23	18	17	17	15	11	16	12	29	7	23	8
Cedar	12	9	11	9	14	11	19	12	29	11	28	6
Cerro Gordo	53	46	54	46	76	62	77	54	54	31	69	24
Cherokee	13	10	15	12	6	6	10	5	20	11	26	10
Chickasaw	12	11	14	10	9	7	13	7	14	6	28	6
Clarke	19	14	10	8	6	4	13	5	12	4	22	5
Clay	25	19	21	18	22	19	16	11	17	9	44	14
Clayton	11	9	16	12	17	15	23	15	29	9	39	11
Clinton	92	85	95	81	81	68	76	53	89	49	127	43
Crawford	19	18	10	8	16	14	15	10	24	9	50	10
Dallas	48	40	49	31	38	30	49	30	32	15	44	19
Davis	6	4	3	0	9	2	9	4	7	3	21	5
Decatur	16	11	17	12	24	10	7	4	11	1	21	4
Delaware	19	18	21	19	21	18	20	12	12	5	57	14
Des Moines	94	78	77	65	66	51	75	54	71	36	116	41
Dickinson	21	18	16	13	9	6	12	5	14	1	24	9
Dubuque	108	95	112	101	94	85	106	86	116	78	153	60
Emmet	19	15	19	15	12	6	14	11	13	8	16	4
Fayette	27	25	23	22	42	26	31	18	34	13	35	13
Floyd	25	21	12	8	24	19	25	17	29	14	24	7
Franklin	14	12	24	19	18	15	11	8	18	6	20	2
Fremont	17	12	10	5	7	4	18	14	12	2	17	3
Greene	17	15	13	11	19	17	15	10	13	5	24	5
Grundy	10	10	3	3	6	6	12	8	8	1	18	3
Guthrie	7	7	7	4	11	6	15	8	12	2	22	7
Hamilton	25	22	28	23	24	16	22	13	26	10	23	10
Hancock	9	7	17	11	9	8	10	9	13	5	23	4
Hardin	30	22	40	29	31	27	17	12	20	8	45	14
Harrison	17	12	17	12	13	12	18	8	25	11	42	16
Henry	19	18	33	25	32	23	28	16	22	6	38	10
Howard	16	14	10	8	11	8	8	5	10	4	22	5
Humboldt	12	11	8	8	8	2	4	1	16	6	26	4
Ida	2	1	10	9	12	8	12	6	12	6	14	1
Iowa	17	14	10	4	8	6	18	12	16	7	18	4
Jackson	20	18	22	21	27	22	24	16	31	11	60	20
Jasper	44	39	43	34	46	32	43	25	50	19	68	16

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa's Counties, 1980, 1984, 1989, 1994, 1998-1999 (continued).

County	1999		1998		1994		1989		1984		1980	
	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births	Teen Births	Teen Out-of-Wedlock Births
Jefferson	18	12	16	11	10	7	18	14	14	7	21	7
Johnson	62	51	56	45	59	47	59	44	50	22	55	20
Jones	24	18	16	14	28	25	18	10	30	12	41	19
Keokuk	12	8	7	4	11	8	12	4	15	4	28	10
Kossuth	10	7	17	14	7	5	19	11	21	9	42	15
Lee	61	55	72	66	67	52	77	57	81	39	106	47
Linn	237	202	193	168	273	227	256	188	219	135	356	158
Louisa	26	15	25	19	18	12	18	8	19	7	27	8
Lucas	8	5	17	13	10	7	10	3	19	7	29	6
Lyon	11	5	13	10	12	8	12	5	11	4	15	3
Madison	12	11	12	11	14	10	18	9	12	4	27	4
Mahaska	33	27	35	22	34	20	37	17	25	9	61	22
Marion	46	35	39	30	44	33	35	19	45	17	62	13
Marshall	84	57	58	46	73	57	52	35	42	21	79	28
Mills	16	14	16	15	30	22	19	10	22	6	27	12
Mitchell	12	11	10	9	8	7	11	8	16	7	23	7
Monona	10	9	14	11	14	8	12	8	19	7	23	8
Monroe	8	6	12	8	14	10	8	6	13	5	15	6
Montgomery	20	13	17	13	24	15	21	12	16	7	24	6
Muscatine	119	85	95	78	95	74	84	50	92	43	114	39
O'Brien	19	14	16	13	20	10	14	6	17	4	31	9
Osceola	6	4	9	7	8	5	8	5	8	2	11	3
Page	28	18	31	26	20	17	38	22	27	10	40	12
Palo Alto	11	8	10	9	9	6	13	7	11	4	30	9
Plymouth	29	26	26	20	23	22	31	21	27	12	36	8
Pocahontas	9	9	6	6	10	7	4	3	10	4	16	4
Polk	606	502	594	513	530	453	634	481	491	292	664	318
Pottawattamie	165	131	162	141	178	142	152	106	188	111	258	120
Poweshiek	16	13	27	22	23	20	19	10	16	5	29	9
Ringgold	6	3	7	4	2	1	3	1	8	1	11	2
Sac	15	11	9	7	14	12	13	9	14	5	26	8
Scott	325	296	298	262	334	289	327	273	314	212	432	218
Shelby	8	7	8	7	18	16	12	6	15	6	24	6
Sioux	33	22	19	13	31	13	21	10	31	7	57	12
Story	50	34	43	32	36	25	35	17	41	16	82	16
Tama	27	23	38	32	27	17	26	22	33	19	38	16
Taylor	10	5	5	3	10	6	8	2	11	1	18	4
Union	17	10	18	14	16	12	19	10	11	7	30	12
Van Buren	11	10	17	11	6	5	6	1	11	2	19	6
Wapello	50	35	51	35	65	47	66	34	72	35	94	38
Warren	48	45	43	29	37	27	41	26	32	14	58	14
Washington	19	14	18	12	27	23	32	17	30	10	29	7
Wayne	15	9	5	5	8	4	7	3	11	2	22	8
Webster	59	52	71	60	64	52	78	58	79	55	124	61
Winebago	14	10	9	9	12	8	23	14	18	5	23	10
Winneshiek	12	12	15	12	15	12	9	8	16	10	27	8
Woodbury	212	177	234	193	242	192	203	148	194	131	275	143
Worth	8	6	10	9	7	5	9	5	5	2	13	2
Wright	21	15	15	11	17	14	21	11	19	7	25	5
State of Iowa	3991	3275	3940	3254	4041	3217	4017	2786	3993	2048	5958	2274

Table 3. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties, 1980-1999.

County	Percent of All Births Out of Wedlock				Percent of Teen Births Out of Wedlock				Teens Births as a Percent of All Births				Teen Out-of-Wedlock Births as a Percent of All Out-of-Wedlock Births			
	1995- 1999	1990- 1994	1985- 1989	1980- 1984	1995- 1999	1990- 1994	1985- 1989	1980- 1984	1995- 1999	1990- 1994	1985- 1989	1980- 1984	1995- 1999	1990- 1994	1985- 1989	1980- 1984
	Adair	21.3	14.1	8.0	4.8	69.0	62.2	54.1	17.7	11.8	8.0	7.1	9.4	38.2	35.4	47.6
Adams	22.0	18.6	9.0	6.9	78.3	57.1	54.2	31.4	10.7	7.5	7.2	9.3	38.3	23.1	43.3	42.3
Allamakee	24.6	15.8	14.2	8.6	76.0	68.1	63.4	38.6	11.3	8.1	9.7	10.8	34.8	35.0	43.0	48.5
Appanoose	30.4	27.5	18.5	12.9	72.3	59.4	49.1	33.5	14.6	17.3	13.4	16.3	34.8	37.4	35.6	42.2
Audubon	18.1	11.8	8.7	6.8	65.5	60.9	32.4	31.6	8.1	5.8	8.0	11.9	29.2	29.8	30.0	55.8
Benton	18.2	18.5	12.2	8.6	74.5	78.0	59.0	41.3	7.4	8.2	7.2	10.6	30.3	34.4	34.8	51.0
Black Hawk	37.0	34.2	26.3	17.2	88.8	86.1	77.4	61.6	14.1	15.2	12.1	12.3	33.9	38.2	35.7	44.0
Boone	22.9	17.9	13.4	8.2	83.3	72.0	59.1	37.7	9.5	9.4	8.6	8.9	34.7	37.9	37.9	40.7
Bremer	17.3	13.1	8.1	4.8	81.9	66.2	49.4	26.2	8.2	5.9	6.7	9.3	38.7	29.9	41.0	50.6
Buchanan	21.6	18.3	12.4	7.6	80.5	69.6	56.7	33.8	8.4	8.9	8.7	11.0	31.4	33.7	39.6	48.8
Buena Vista	29.5	21.1	10.1	5.4	71.2	72.8	57.3	26.0	13.0	9.6	6.7	8.1	31.4	33.0	38.2	38.8
Butler	20.1	14.9	9.5	5.0	73.2	71.0	42.3	20.9	8.9	8.2	8.1	10.5	32.5	39.2	36.3	43.8
Calhoun	22.3	18.0	10.9	7.6	82.2	83.9	63.6	31.3	8.3	5.6	4.8	7.6	30.6	26.0	28.4	31.3
Carroll	20.6	17.1	8.4	6.5	87.3	84.0	60.8	44.3	8.0	7.6	5.8	7.8	33.8	37.2	42.1	52.6
Cass	25.2	16.7	10.7	6.8	78.7	55.1	49.2	28.6	12.3	11.0	6.4	8.9	38.5	36.2	29.4	37.2
Cedar	18.1	17.0	12.3	8.2	72.4	73.6	61.1	33.1	6.0	8.4	6.8	10.3	24.1	36.6	33.8	41.3
Cerro Gordo	30.1	25.5	17.5	10.6	88.0	79.1	68.6	41.9	10.2	11.6	9.0	8.9	29.8	36.1	35.4	34.9
Cherokee	28.2	19.5	10.8	8.3	74.0	74.7	53.2	39.3	11.7	9.3	5.1	9.3	30.8	35.4	25.0	43.8
Chickasaw	22.6	14.1	12.2	7.0	79.4	65.3	57.5	34.5	9.8	5.6	8.3	9.4	34.4	25.8	38.9	46.5
Clarke	28.9	26.5	14.5	8.2	70.7	63.2	36.8	28.4	15.7	11.9	11.9	13.5	38.4	28.3	30.1	46.9
Clay	26.1	18.8	12.8	9.4	84.4	75.9	64.0	41.7	11.3	6.9	7.0	9.9	36.5	28.0	34.8	43.6
Clayton	22.4	17.5	11.6	5.7	86.1	75.3	55.4	26.7	8.1	7.6	9.3	10.6	31.1	32.7	44.4	49.5
Clinton	34.2	29.0	17.7	11.2	86.7	81.2	63.4	43.9	13.8	12.0	10.5	12.2	35.0	33.6	37.9	47.7
Crawford	27.9	22.5	12.1	8.4	82.7	78.5	52.4	34.8	9.6	10.6	6.7	12.3	28.5	36.8	29.1	51.2
Dallas	21.5	17.9	13.2	9.7	76.7	73.7	56.3	41.9	8.8	8.8	8.6	9.1	31.3	36.1	36.8	39.2
Davis	13.8	12.2	8.7	7.0	58.3	51.3	31.9	25.3	8.8	6.4	7.8	12.2	37.3	27.0	28.8	44.0
Decatur	31.2	20.9	12.4	6.1	72.1	45.1	45.3	16.7	18.1	17.3	10.4	10.8	41.9	37.4	38.1	29.7
Delaware	20.0	13.1	9.4	5.5	91.6	80.9	60.0	34.3	8.7	7.0	6.3	8.2	39.7	42.9	40.0	51.0
Des Moines	36.4	29.4	20.9	13.9	84.0	74.9	59.1	41.8	15.0	14.1	12.0	13.5	34.6	35.8	34.0	40.8
Dickinson	25.6	18.1	12.4	6.9	82.4	69.5	54.1	37.5	9.2	7.9	7.4	9.3	29.8	30.1	32.4	50.7
Dubuque	22.4	20.2	13.8	10.1	87.7	83.1	66.7	53.6	8.7	8.0	7.7	9.2	34.0	33.1	37.2	49.1
Emmet	31.3	21.5	13.5	9.4	81.4	61.4	55.4	43.4	16.7	13.1	10.5	9.9	43.5	37.2	43.2	45.7
Fayette	26.3	18.9	10.5	8.6	83.6	61.6	52.5	36.5	11.2	10.3	8.6	10.1	35.7	33.6	43.2	42.4
Floyd	26.6	21.3	16.0	9.8	85.0	71.1	62.3	38.9	10.1	11.7	11.4	11.4	32.2	39.3	44.2	45.3
Franklin	24.5	19.9	10.9	5.4	79.5	72.3	63.2	25.6	12.9	10.3	7.8	8.5	41.9	37.3	45.6	40.0
Fremont	29.1	25.9	15.8	9.2	69.2	77.4	57.7	22.5	15.3	12.9	13.1	11.4	36.3	38.7	47.7	28.1
Greene	23.2	20.8	14.8	8.6	79.0	68.1	62.7	34.9	10.7	11.7	10.6	12.0	36.6	38.2	44.7	48.7
Grundy	15.1	11.0	7.2	5.5	86.8	77.1	54.2	27.4	6.4	5.4	6.9	6.6	37.1	38.0	52.0	33.3
Guthrie	21.6	20.6	14.0	8.1	77.6	68.8	48.1	32.9	9.1	9.9	9.2	10.8	32.6	33.1	31.6	43.8
Hamilton	26.2	18.4	12.1	8.7	84.4	69.3	49.5	41.2	12.1	11.1	9.0	10.7	39.0	41.6	37.0	50.9
Hancock	22.0	15.6	10.0	6.4	72.1	74.1	61.2	34.4	10.8	7.6	5.6	8.1	35.3	36.0	34.5	43.7
Hardin	24.6	18.3	12.5	7.3	76.2	78.1	63.1	32.4	11.9	11.0	7.2	9.2	36.9	46.8	36.6	40.5
Harrison	21.9	18.8	13.8	10.1	71.7	62.9	47.7	37.1	10.6	9.4	10.0	13.6	34.6	31.6	34.7	50.0
Henry	26.8	22.1	13.3	8.4	82.2	71.7	58.7	28.7	10.6	11.6	10.5	8.9	32.5	37.7	46.5	30.4
Howard	19.0	15.4	8.6	6.3	86.0	71.4	44.4	28.7	10.1	7.2	6.8	10.4	45.8	33.3	35.1	47.2
Humboldt	20.2	15.6	9.5	5.7	80.0	51.0	58.2	28.4	8.6	9.4	7.5	9.4	33.9	30.6	46.4	47.2
Ida	15.9	14.6	6.4	4.7	76.5	67.5	50.0	25.0	7.7	8.3	6.0	7.8	37.1	38.6	46.3	41.2
Iowa	17.3	15.2	8.2	5.7	78.3	70.5	50.0	31.9	6.5	5.9	6.1	8.5	29.4	27.2	37.0	47.6
Jackson	26.3	22.1	12.7	9.2	78.4	82.4	60.0	35.6	11.0	9.7	8.6	12.5	32.9	36.0	40.8	48.5
Jasper	21.9	19.0	12.3	8.8	79.0	71.6	50.2	32.3	9.7	9.5	9.5	11.9	35.1	35.8	39.1	43.8

Table 3. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties, 1980-1999 (continued).

County	Percent of All Births Out of Wedlock				Percent of Teen Births Out of Wedlock				Teens Births as a Percent of All Births				Teen Out-of-Wedlock Births as a Percent of All Out-of-Wedlock Births			
	1995- 1999	1990- 1994	1985- 1989	1980- 1984	1995- 1999	1990- 1994	1985- 1989	1980- 1984	1995- 1999	1990- 1994	1985- 1989	1980- 1984	1995- 1999	1990- 1994	1985- 1989	1980- 1984
Jefferson	22.2	19.4	10.0	7.3	69.7	60.0	64.4	31.6	9.3	8.2	5.7	9.0	29.3	25.4	36.9	38.8
Johnson	16.1	11.9	8.8	6.5	79.0	78.7	66.7	40.7	4.5	3.8	3.8	4.1	22.1	25.2	28.9	25.4
Jones	24.4	19.4	13.8	10.1	85.0	80.2	63.0	37.7	11.2	7.8	6.1	10.9	38.9	32.1	27.7	40.8
Keokuk	21.5	16.2	9.4	6.1	72.5	52.6	34.9	25.2	10.3	10.2	8.4	11.2	34.5	33.1	31.0	46.6
Kossuth	18.3	14.2	8.0	5.3	73.5	72.6	53.9	34.0	8.0	6.7	7.1	8.2	32.3	34.2	47.5	52.7
Lee	36.9	29.9	23.5	15.5	88.8	72.9	65.3	46.5	15.4	13.8	13.8	14.1	36.9	33.6	38.2	42.3
Linn	24.1	23.1	18.1	13.2	85.3	82.5	69.7	54.4	8.5	9.8	9.7	10.2	30.2	34.9	37.1	42.1
Louisa	29.6	27.7	14.5	9.4	71.2	71.3	50.6	34.2	13.7	11.8	11.1	13.2	32.9	30.3	38.9	48.2
Lucas	27.2	20.2	15.5	11.3	77.8	54.4	42.0	30.3	11.9	9.9	13.1	15.2	34.0	26.7	35.4	40.7
Lyon	11.4	8.2	4.7	3.0	64.7	44.4	30.6	23.4	7.0	5.4	7.1	5.9	39.8	29.0	46.3	45.5
Madison	18.9	15.3	11.6	6.9	78.7	53.0	42.1	23.0	7.3	8.3	9.9	10.7	30.6	28.9	36.0	35.7
Mahaska	23.1	21.0	15.2	9.0	70.4	58.2	52.0	37.4	10.9	11.3	11.0	11.2	33.2	31.3	37.9	46.5
Marion	19.6	15.1	10.1	8.1	69.8	68.4	46.2	31.3	10.1	9.8	8.8	12.0	35.7	44.6	40.0	46.3
Marshall	28.6	25.6	16.0	9.4	71.2	77.2	62.0	41.8	13.6	11.1	8.8	9.5	33.9	33.6	34.2	42.1
Mills	26.1	24.5	17.4	10.7	86.1	69.1	62.7	36.8	9.4	11.8	10.0	11.7	30.9	33.2	35.9	40.4
Mitchell	17.4	14.3	7.9	6.8	76.0	69.0	60.0	38.3	7.7	8.3	5.8	11.2	33.6	40.0	43.6	63.2
Monona	29.3	22.0	16.7	8.6	78.9	60.5	51.9	37.8	13.9	13.0	9.3	12.1	37.5	35.8	28.7	52.9
Monroe	23.6	20.7	14.5	9.3	81.0	68.0	50.0	29.4	12.7	14.1	10.7	11.0	43.5	46.4	37.0	34.5
Montgomery	29.4	23.2	13.3	7.7	70.6	59.1	60.3	28.0	11.6	12.2	9.2	10.6	27.9	31.1	41.8	38.4
Muscatine	31.6	26.4	18.2	13.5	75.0	68.5	51.8	36.4	16.3	13.3	12.5	15.7	38.6	34.6	35.7	42.4
O'Brien	18.1	13.5	7.3	5.6	73.5	62.7	49.2	20.7	10.6	11.0	6.1	10.1	43.1	51.2	40.8	37.3
Osceola	19.1	12.3	5.8	4.3	77.8	74.3	52.0	22.9	9.0	8.0	5.1	7.7	36.8	48.1	46.4	40.7
Page	28.0	26.2	15.2	9.8	67.8	73.7	49.2	33.8	12.8	13.3	12.0	13.1	31.0	37.3	38.9	44.9
Palo Alto	24.0	16.5	9.3	7.6	87.3	69.5	53.8	31.1	10.5	11.0	5.5	10.8	38.1	46.6	31.8	44.0
Plymouth	20.0	16.4	9.0	5.4	82.9	72.3	62.1	28.7	8.3	8.2	6.9	7.5	34.5	36.4	47.7	39.8
Pocahontas	25.0	15.6	6.1	5.9	85.7	73.0	56.0	39.0	11.5	7.4	3.9	7.7	39.6	34.6	35.9	51.1
Polk	27.1	26.7	21.3	16.3	84.0	83.6	70.1	54.9	10.1	10.6	10.9	11.7	31.4	33.2	35.8	39.4
Pottawattamie	35.9	31.1	22.9	17.4	83.0	75.1	66.9	51.5	14.1	14.2	12.3	15.7	32.6	34.2	35.8	46.5
Poweshiek	25.7	20.6	11.7	8.4	80.4	79.6	42.1	31.3	11.0	9.9	7.2	10.9	34.4	38.2	25.8	40.8
Ringgold	19.0	18.0	10.3	5.4	53.1	52.4	44.4	14.9	11.5	9.5	6.2	11.0	32.1	27.5	26.7	30.4
Sac	22.0	18.2	9.3	6.2	88.1	84.5	46.4	33.7	10.1	8.6	7.2	8.5	40.4	39.8	36.1	46.0
Scott	35.8	34.0	25.8	17.6	89.4	85.7	77.5	60.9	14.0	14.5	12.6	12.6	35.1	36.5	37.9	43.5
Shelby	18.9	13.5	6.8	5.8	82.4	76.4	59.1	31.1	7.3	6.9	5.3	9.1	32.1	38.9	45.6	48.5
Sioux	10.1	8.7	4.2	2.3	58.9	56.8	38.8	18.9	6.5	6.9	5.9	7.0	37.8	45.1	54.5	57.6
Story	13.2	11.2	7.1	4.9	70.5	62.1	44.8	27.9	5.4	4.9	4.5	6.0	28.6	27.0	28.1	33.9
Tama	31.1	22.8	18.3	10.6	79.0	75.0	74.8	48.7	15.0	11.1	9.8	11.3	38.0	36.6	39.9	52.1
Taylor	21.5	14.3	9.8	5.1	52.5	54.8	28.6	18.1	11.0	11.1	8.8	12.2	26.9	42.6	25.6	43.3
Union	26.6	24.2	18.4	12.8	66.7	60.5	59.4	42.2	12.8	11.4	8.2	11.8	32.2	28.5	26.6	38.9
Van Buren	18.9	20.6	10.2	7.3	63.8	72.9	28.2	23.9	13.4	9.8	7.5	11.8	45.1	34.7	20.8	38.6
Wapello	31.5	28.1	18.7	14.3	69.0	62.9	49.8	40.2	14.6	14.4	14.1	14.8	32.0	32.2	37.7	41.8
Warren	20.3	17.5	10.3	8.0	78.2	72.9	45.2	33.7	8.4	9.5	8.6	10.1	32.2	39.4	37.8	42.4
Washington	15.9	15.0	11.7	7.3	72.4	74.5	52.5	31.3	6.6	7.8	8.6	8.7	30.2	38.9	38.6	37.6
Wayne	20.8	16.3	10.7	9.0	66.0	56.5	31.4	34.2	14.2	12.1	12.4	14.6	44.9	41.9	36.4	55.6
Webster	35.7	29.3	21.0	16.3	87.5	76.7	68.8	56.3	13.6	11.7	12.1	13.6	33.3	30.7	39.5	46.8
Winnebago	24.7	19.7	9.0	8.1	79.7	76.7	55.1	36.3	10.4	8.8	8.5	10.4	33.7	34.3	52.1	46.5
Winneshiek	16.6	12.9	6.3	6.5	85.1	74.2	47.1	30.8	7.1	5.3	4.9	7.4	36.2	30.8	36.8	35.3
Woodbury	35.7	33.5	25.2	18.9	80.0	79.1	72.2	56.9	14.6	14.5	12.7	13.5	32.7	34.1	36.4	40.7
Worth	21.9	16.9	14.3	7.0	80.0	75.0	63.9	25.6	10.8	9.3	6.9	7.0	39.6	41.3	30.7	25.6
Wright	23.0	20.2	12.0	9.5	74.1	72.2	56.4	34.7	10.4	8.9	8.6	10.9	33.5	31.8	40.4	39.8
State of Iowa	26.5	23.2	16.3	11.3	81.4	76.5	63.2	44.4	10.8	10.5	9.5	10.9	33.2	34.7	36.7	42.6

and Muscatine were the only counties with at least 30 more teen births in 1999 than in 1989. The decline of 45 in Black Hawk was the largest drop. Seventy-eight counties reported changes of less than 10 in either direction.

### **Out-of-Wedlock Births to Teens**

Teen births out of wedlock numbered 3,275 in the state in 1999, a slight increase from the 3,254 in 1998 (Table 2). The change between 1989 and 1999 was more dramatic, with 489 more teen out-of-wedlock births at the end of the period than at the beginning. In 1999, Black Hawk, Linn, Polk, Pottawattamie, Scott, and Woodbury, the only counties with at least 100 out-of-wedlock births to teens, accounted for 44.8 percent of all out-of-wedlock teen births.

Differences in teen out-of-wedlock births between 1989 and 1999 ranged from a decline of 21 in Black Hawk to gains of more than 30 in Clinton and Muscatine. Twenty-three counties had fewer teen out-of-wedlock births in 1999 than in 1989, five had the same number in both years, and 71 counties showed an increase. For 78 of the counties, the change in either direction was less than 10 teen out-of-wedlock births.

The combination of fewer births to teens along with an increase in the number of teen out-of-wedlock births resulted in an increase in the proportion of teen births in Iowa that were out of wedlock (Table 3, Figure 1). In 1980-1984, 44.4 percent of teen births were out of wedlock. By 1995-1999, more than four of every five (81.4%) were out of wedlock (Figure 3).

### **Births to Teens Compared with Total Births**

The percentage of total births that were to teens in 1980-1984 (10.9%) remained about the same through the following five-year periods, with 1995-1999 having a nearly identical figure (10.8%) (Table 3). In 1995-1999, the percentages of the total births that were to teens ranged from less than 10 in 39 counties to at least 15 in eight others, with Decatur the highest at 18.1 percent.

Teens tended to have a much higher percentage of their births out of wedlock than the population overall. The percentage of teen births that were out of wedlock was significantly higher than the percentage of all births that were out of wedlock no matter what period was examined (Table 3).

Still, teen out-of-wedlock births as a percent of all out-of-wedlock births declined across the five-year periods noted in Table 3. This suggests that, while the focus on out-of-wedlock births usually is directed toward teens, recent trends suggest that attention should be given toward other age groups as well. Since 1985, for example, in only one year has the number of out-of-wedlock births to teens been greater in number than those to women 20-24 years of age (Figure 4). And out-of-wedlock births have been increasing rapidly among those 25 and older. Indeed, when 1979 and 1999 are compared, out-of-wedlock births increased by 2,131 among women 25 or older, 2,612 among those 20-24 years of age, and only 1,188 among those 19 or younger.

Figure 1. Percent of births out of wedlock in Iowa, 1980–1999.

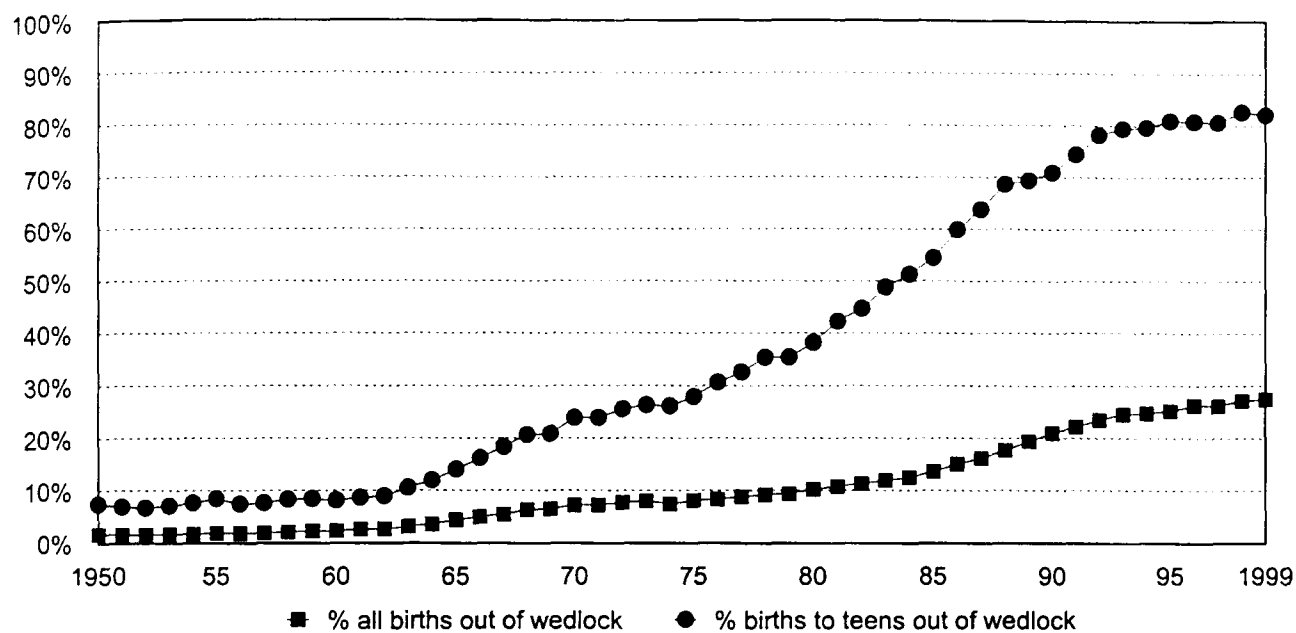


Figure 2. Percent of births out of wedlock, 1999.

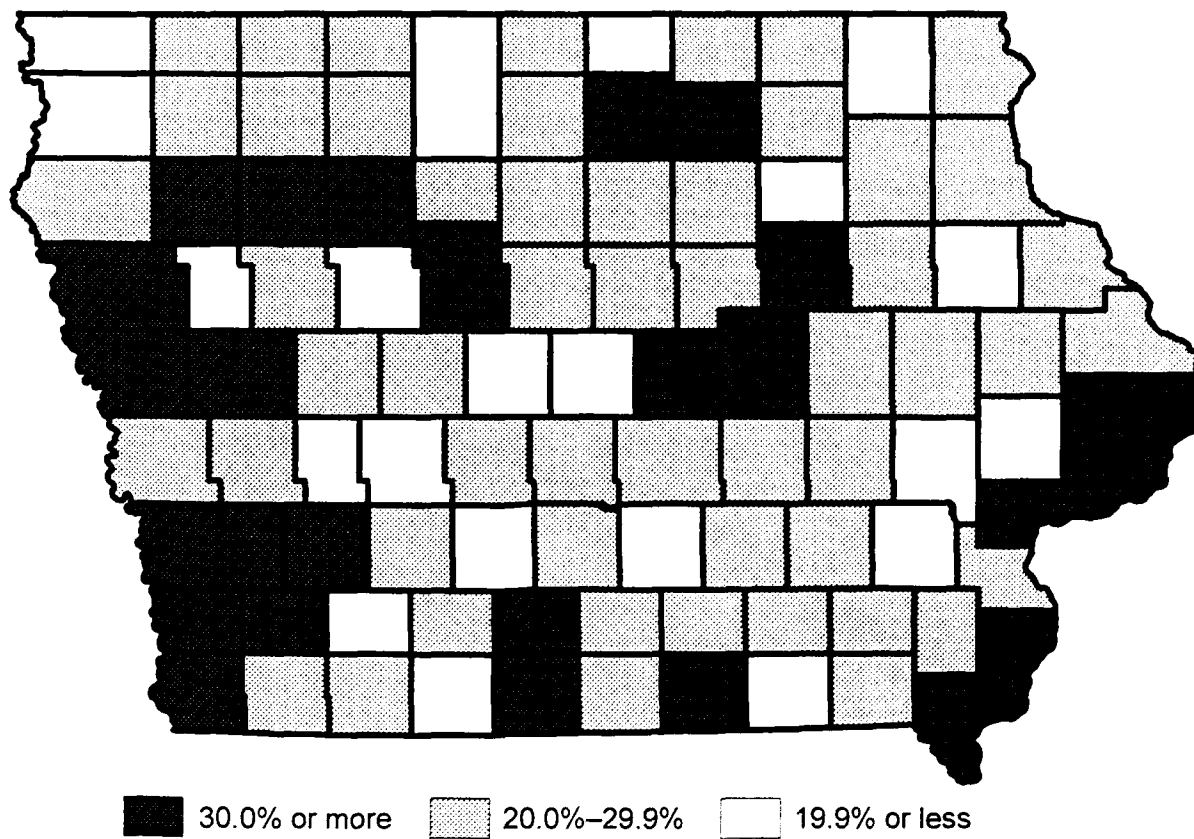


Figure 3. Percent of births to teens out of wedlock, 1999.

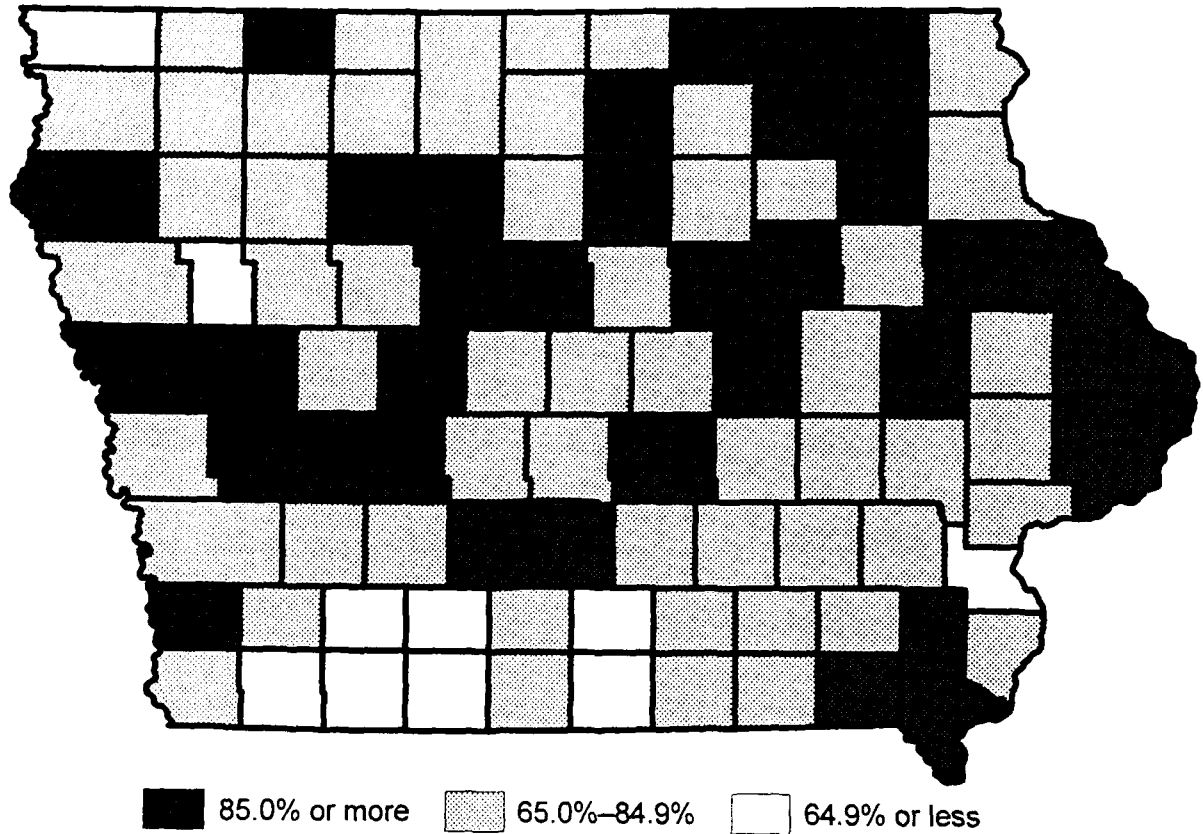
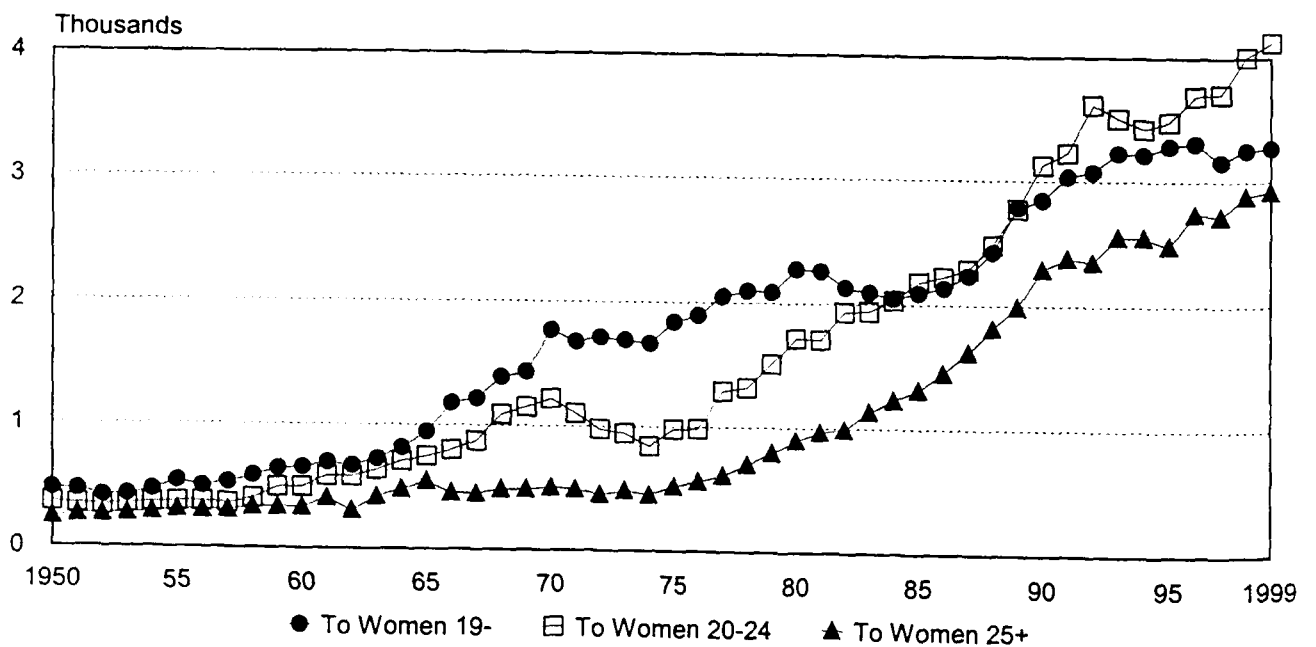


Figure 4. Number of births out of wedlock by age categories in Iowa, 1950–1999.





## Infant Mortality in Iowa's Counties: 1980-1999

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In 1999, 213 infants died before they reached one year of age in the State of Iowa (Table 1), according to records kept by the Iowa Department of Public Health. That was a decrease of 30 from 1998 and was the lowest number recorded in the 1980-1999 period (Figure 1). Declines in the number of infant deaths occurred most years between 1980 and 1993, with decreases greater than 50 between 1980 and 1981, 1982 and 1983, and 1985 and 1986. Slight increases occurred from 1993 to 1995, but the downward trend resumed after that year. Deaths are reported for the county of residence of the deceased.

A total of 6,659 infants died during the 20 years from 1980 through 1999. Polk (1,048) had the highest number during this period. Twelve others each reported at least 100 infant deaths. Twenty-two counties had fewer than 20 infant deaths during these 20 years, or an average of less than one per year.

Infant mortality rates are reported as the number of deaths to infants under one year of age for every 1,000 live births (infant deaths divided by live births, with the result multiplied by 1,000) (Figure 2). For the entire 20-year period, the infant mortality rate was 8.4 (or 8.4 infant deaths for every 1,000 live births in Iowa) (Table 1). When infant deaths and live births were accumulated for the years 1980 through 1984, the infant mortality rate was 10.0; the rate declined to 8.8 for 1985-1989, 7.7 for 1990-1994, and 6.7 when the data were tallied for 1995 through 1999. Sixteen counties matched the state's pattern of declining mortality rates across the four subperiods. But three others (Montgomery, Shelby, Union) had rates that increased through the four sets of years. Rather large fluctuations occurred in some counties, primarily because of the small numbers of infant deaths or live births even when data for several years were summed. That suggests that great caution should be taken in drawing conclusions from a single year of infant mortality figures in any county.

More than a quarter (27) of Iowa's 99 counties had infant mortality rates exceeding the state figure of 8.4 for the 1980-1999 period (Figure 3). Seven counties reported rates of 10.0 or higher, although Woodbury was the only one with a rate greater than 11.0. Twenty-two counties were more than 2 points below the state's rate. Those in Monona and Osceola were less than half that of the state.

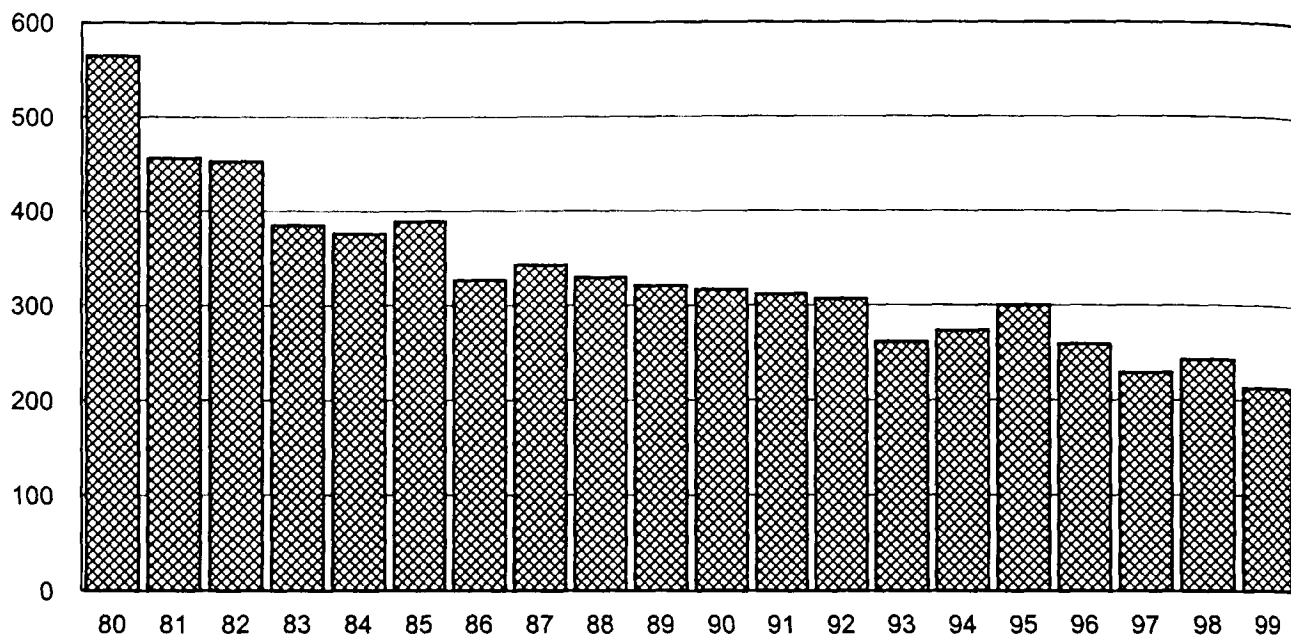
**Note:** See an annual publication called VITAL STATISTICS OF IOWA for additional data on deaths (Iowa Department of Public Health, Lucas State Office Building, Des Moines, IA 50319).

Table 1. Infant Mortality and Infant Mortality Rates Per 1,000 Live Births in Iowa's Counties, 1980-1999.

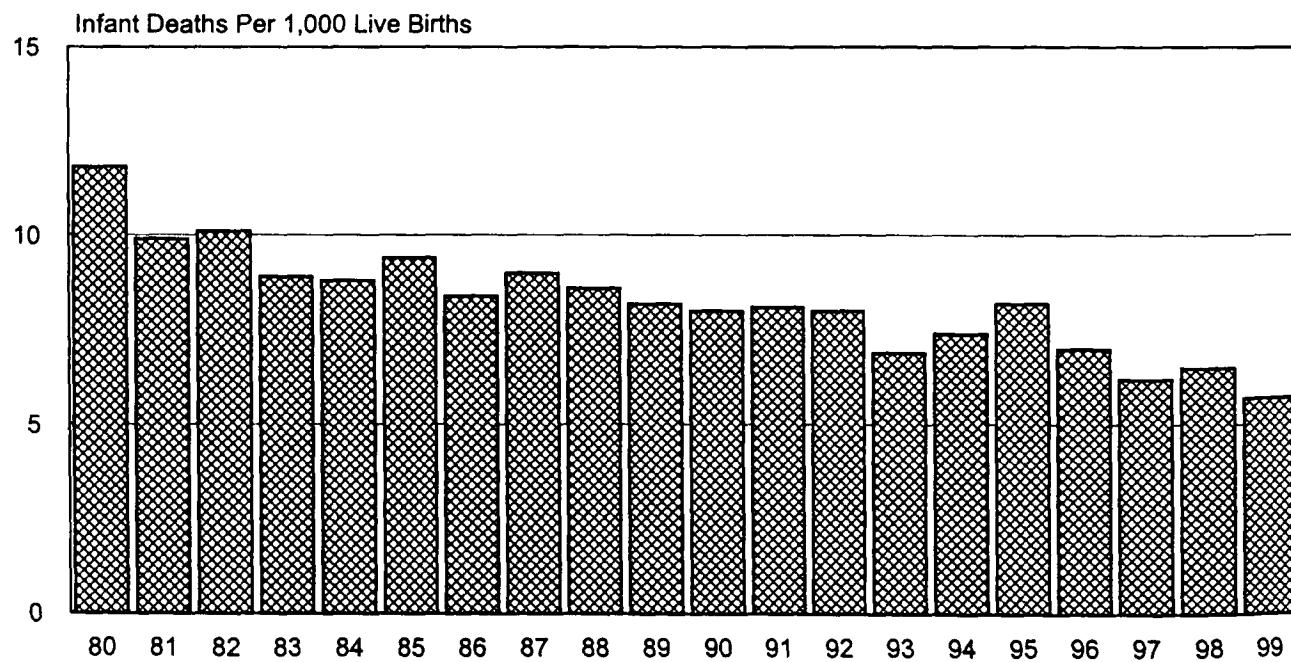
County	Infant Mortality																	Infant Mortality Rates							
																		1980-	1995-	1990-	1985-	1980-			
	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	1999	1999	1994	1989	1984
Adair	1	0	0	0	1	1	0	1	1	0	0	0	1	0	1	0	0	1	0	1	4.5	5.6	6.5	3.8	3.0
Adams	0	0	0	1	1	0	0	1	0	0	1	1	0	1	0	2	1	0	1	0	8.3	9.3	3.6	9.0	10.7
Allamakee	1	1	2	1	2	1	3	0	1	0	2	0	1	0	4	0	1	1	2	5	7.1	8.2	5.7	6.7	7.6
Appanoose	0	0	2	1	2	2	2	0	3	3	0	1	3	0	1	4	2	0	1	2	8.3	6.5	12.1	5.8	8.6
Audubon	0	0	0	0	0	1	0	1	2	1	1	0	2	0	0	3	0	3	2	0	8.6	0.0	12.6	6.5	12.6
Benton	1	4	3	0	4	1	4	4	1	0	1	5	1	2	1	2	2	1	5	2	7.2	8.4	6.4	6.8	7.1
Black Hawk	8	10	15	9	8	10	22	14	13	17	14	17	15	11	9	18	21	35	26	34	9.0	6.3	9.0	7.7	12.0
Boone	1	2	1	1	1	5	1	4	2	0	2	4	3	3	4	4	4	3	5	4	8.4	4.0	7.9	10.0	11.0
Bremer	0	2	0	1	0	2	2	1	0	0	2	1	0	5	0	4	0	1	5	4	5.5	2.6	4.0	6.2	7.7
Buchanan	2	3	1	2	5	4	1	2	0	1	2	4	3	1	4	4	6	3	6	6	8.9	8.9	5.3	8.6	11.8
Buena Vista	1	1	2	1	1	1	0	0	0	0	2	2	4	1	0	3	2	5	2	3	5.6	5.0	0.8	6.3	9.5
Butler	1	0	0	0	1	1	1	1	1	1	0	0	2	1	2	2	1	2	4	2	5.9	2.5	6.0	5.2	8.6
Calhoun	0	0	0	0	1	0	1	0	1	0	2	0	0	3	2	3	2	0	3	2	7.5	1.8	3.6	10.3	11.4
Carroll	0	0	2	2	2	3	2	0	0	2	1	2	3	2	1	3	1	5	1	3	5.5	4.7	5.0	5.4	6.4
Cass	0	1	1	0	0	2	0	1	1	1	4	0	1	2	3	4	3	2	3	3	8.3	2.6	5.6	10.5	11.9
Cedar	0	1	1	2	1	1	3	0	3	3	2	0	2	2	1	2	2	1	5	3	8.0	5.2	9.7	6.6	9.8
Cerro Gordo	1	0	6	3	2	2	6	7	2	6	0	3	4	10	4	11	2	5	6	12	7.2	4.3	7.5	6.4	10.1
Cherokee	2	0	1	0	0	0	0	1	0	5	2	2	0	1	1	1	3	2	1	3	7.1	4.6	7.4	6.5	8.7
Chickasaw	1	0	1	0	3	0	1	1	1	0	1	0	3	0	3	1	3	2	1	4	7.0	7.2	3.4	7.9	8.9
Clarke	0	1	0	0	1	0	0	0	1	0	0	3	0	1	0	2	1	4	2	0	7.5	4.2	2.1	7.0	15.0
Clay	2	1	1	1	2	0	0	1	2	0	2	0	7	2	1	3	2	3	3	5	7.7	7.3	2.6	9.7	10.1
Clayton	0	0	0	2	3	1	1	2	3	0	3	3	2	1	3	3	2	1	2	5	7.3	5.1	6.0	9.2	8.0
Clinton	3	6	3	3	5	5	8	3	3	7	3	3	4	5	8	3	2	8	7	8	6.8	6.3	7.7	6.6	6.6
Crawford	3	0	2	1	2	3	1	0	0	1	1	1	1	6	3	1	6	4	7	2	9.4	7.9	4.9	9.6	13.4
Dallas	1	2	3	4	6	2	2	2	4	1	5	3	7	5	3	5	5	4	0	3	7.5	6.4	5.2	11.2	7.6
Davis	0	0	0	1	0	0	1	0	1	0	0	1	0	1	3	0	0	0	2	1	4.5	1.8	3.3	8.3	4.2
Decatur	1	1	0	1	0	3	1	2	0	0	0	1	0	0	0	0	1	0	1	2	6.8	6.3	12.7	2.0	6.6
Delaware	1	2	1	0	1	0	1	0	1	2	1	4	4	5	1	1	3	2	8	4	7.5	4.6	3.0	10.4	10.3
Des Moines	1	3	2	4	3	3	6	2	6	1	7	6	5	9	11	4	6	9	13	8.8	4.9	7.1	9.8	12.3	
Dickinson	2	0	0	0	0	2	2	4	0	1	2	0	1	2	2	2	1	1	1	3	7.6	2.5	12.0	8.5	7.8
Dubuque	5	6	3	7	12	7	2	6	8	16	6	11	7	11	10	10	13	16	10	18	7.3	5.7	6.4	7.4	9.2
Emmet	0	0	0	1	1	0	0	1	0	1	2	1	1	3	2	0	4	5	3	7	10.7	3.3	3.0	12.8	19.1
Fayette	0	0	2	2	2	1	1	2	3	1	2	4	1	3	2	1	2	4	9	3	7.5	4.8	5.6	8.5	10.0
Floyd	0	0	2	0	1	0	1	2	0	0	0	0	1	0	6	5	2	0	2	2	5.4	3.0	2.9	6.5	8.4
Franklin	0	0	0	1	1	0	1	1	2	1	1	3	0	1	0	1	0	4	3	3	8.0	3.3	7.9	6.9	12.0
Fremont	1	1	1	0	1	1	0	2	0	0	2	0	1	2	1	0	1	1	1	0	7.7	9.4	6.3	11.0	4.8
Greene	2	2	1	1	1	0	1	0	1	1	0	2	0	1	0	1	0	2	4	1	7.8	12.1	5.1	4.7	9.0
Grundy	0	0	1	0	1	2	0	1	1	1	0	1	1	0	1	1	3	0	3	0	5.9	3.4	7.7	4.3	7.5
Guthrie	0	0	0	0	1	2	0	0	2	0	2	0	0	1	1	2	2	2	0	2	6.4	1.6	6.2	7.1	10.2
Hamilton	1	2	1	1	1	2	1	3	1	3	3	0	2	2	0	2	0	3	1	4	7.6	5.9	9.7	6.7	8.2
Hancock	0	1	0	0	0	3	0	1	0	2	2	0	0	1	1	0	4	2	3	9	8.7	1.6	8.4	4.6	16.3
Hardin	0	1	1	1	0	3	0	0	2	2	1	0	2	3	3	4	0	4	1	0	5.8	2.8	6.8	7.8	5.7
Harrison	0	0	2	1	1	0	1	0	1	1	0	0	1	2	5	1	1	2	0	3	5.5	4.6	3.2	7.5	6.3
Henry	3	0	3	3	1	2	4	0	2	0	3	2	2	1	3	0	2	1	1	9	8.3	8.2	6.4	9.2	9.5
Howard	0	3	0	0	0	0	1	0	0	1	0	1	0	2	1	1	2	1	0	3	6.1	5.3	3.4	6.1	8.4
Humboldt	1	0	0	0	1	1	0	0	1	2	1	1	4	0	1	4	0	0	0	1	6.5	3.4	7.4	9.6	5.4
Ida	0	1	0	3	1	3	2	1	1	0	2	0	1	0	1	1	1	2	0	1	9.2	11.3	14.6	6.3	7.0
Iowa	2	1	1	2	1	1	0	0	1	0	5	4	3	2	1	1	4	2	0	4	8.6	7.6	1.9	15.2	9.9
Jackson	0	4	0	0	4	1	2	3	2	1	4	5	1	3	4	2	1	2	4	5	8.4	6.6	6.9	11.7	7.9
Jasper	4	3	5	1	2	4	5	3	4	0	3	3	5	5	6	5	3	4	3	4	7.9	7.0	7.2	9.8	7.7



**Figure 1. Infant mortality in Iowa, 1980–1999.**



**Figure 2. Infant mortality rate in Iowa, 1980–1999.**







## Deaths from Cardiovascular Disease or Cancer in Iowa's Counties: 1974-1998

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Records of selected causes of death are maintained by the Iowa Department of Public Health and are included in an annual publication called "Vital Statistics of Iowa." They are used for the 1993-1998 numbers in this report. For 1974-1992, information for Iowa was taken from "Vital Statistics of the United States" published by the U.S. Department of Health and Human Services. In both cases, numbers are reported based on the residence of the deceased.

More than two-thirds (67.0%) of the 139,400 deaths in Iowa from 1994 to 1998 were attributable to some type of cancer or cardiovascular disease. Due to the prevalence of these two general causes of death, they are the focus of this report.

### Deaths Attributed to Cardiovascular Disease

Deaths from cardiovascular disease claimed 61,400 persons in Iowa from 1994 through 1998, 14,900 or 19.5 percent fewer than the 1974-1978 period. They declined between each five-year period reported in Table 1. Included in this category are diseases of the heart (such as acute myocardial infarction and chronic ischemic heart disease), hypertension, cerebrovascular diseases, and arteriosclerosis, among others.

Twelve counties reported at least 1,000 deaths caused by cardiovascular disease from 1994 through 1998; these 12 accounted for 40.8 percent of the statewide total of such deaths and they had an estimated 45.8 percent of the state's population in 1998. There is a relatively strong relationship between population size and number of deaths, of course; Johnson and Story deviate from this somewhat, primarily because of large numbers of younger residents attending universities in those counties. Adams and Audubon were the only counties with fewer than 200 deaths related to cardiovascular problems; Adams had the smallest population in the state in 1998 and Audubon was fourth lowest.

Cardiovascular disease accounted for more than half of all deaths in Appanoose, Chickasaw, Floyd, Franklin, Guthrie, Hancock, Lucas, Osceola, Ringgold, Sac, Shelby, and Union during the 1994-1998 period (Table 2). In only seven counties (Adair, Johnson, Keokuk, Linn, Madison, Marshall, Monona) were fewer than 40 percent of deaths attributed to that cause in the most recent years.

From 1974 through 1978, cardiovascular disease accounted for more than half the deaths in all 99 counties. The percentage of deaths from this cause decreased throughout the state over the five periods examined; nearly half (48) of the counties followed the statewide trend of consistent declines between each period. In Adams, Madison, and Monona, those declines totaled more than 20 percentage points; eight others (Cherokee, Chickasaw, Floyd, Guthrie, Hancock, Osceola, Shelby, Union) changed by fewer than five points between 1974-1978 and 1994-1998.

### Deaths Attributed to Cancer

There were 32,000 deaths from malignant neoplasms (commonly referred to as cancer) in Iowa from 1994 through 1998 (Table 1). That marked an 18.7 percent increase over the 27,000 cancer deaths from 1974 through 1978. Increases occurred between each five-year period studied. The category of deaths from malignant neoplasms includes those of the digestive organs, respiratory organs, breast, urinary organs, and leukemia, among others.

Table 1. Deaths to Residents Caused by Cardiovascular Disease or Cancer in Iowa's Counties, 1974-1998.

County	Deaths Caused by Cardiovascular Disease					Deaths Caused by Cancer				
	1994- 1998	1989- 1993	1984- 1988	1979- 1983	1974- 1978	1994- 1998	1989- 1993	1984- 1988	1979- 1983	1974- 1978
Adair	232	237	314	302	295	116	131	125	116	114
Adams	132	153	166	200	243	74	69	63	74	71
Allamakee	367	441	458	458	477	146	185	196	162	171
Appanoose	484	494	507	506	672	176	174	187	196	178
Audubon	197	219	236	243	268	100	103	112	109	108
Benton	440	442	567	601	666	289	284	247	251	250
Black Hawk	2589	2544	2676	2818	2891	1399	1382	1286	1163	1008
Boone	716	705	734	869	942	331	291	319	281	257
Bremer	535	594	607	582	584	262	249	239	207	212
Buchanan	486	472	483	557	576	270	250	190	185	197
Buena Vista	486	509	654	677	613	248	278	251	241	209
Butler	469	433	478	508	532	233	228	202	174	179
Calhoun	369	407	437	448	526	170	182	174	175	162
Carroll	528	502	553	646	747	266	260	233	281	266
Cass	461	500	614	582	650	219	227	245	199	226
Cedar	375	340	445	450	543	217	188	185	201	179
Cerro Gordo	1225	1114	1184	1221	1330	617	602	528	512	499
Cherokee	407	446	475	479	458	159	166	181	180	193
Chickasaw	381	372	399	392	422	139	157	167	166	146
Clarke	231	255	287	289	292	96	113	105	101	97
Clay	384	413	491	475	499	200	213	195	192	176
Clayton	466	477	608	648	650	245	257	246	226	199
Clinton	1350	1252	1286	1499	1549	596	675	623	587	571
Crawford	381	388	463	518	540	175	208	212	187	185
Dallas	663	619	644	686	804	349	294	290	297	274
Davis	231	287	289	330	321	112	90	87	96	90
Decatur	237	263	302	331	342	119	114	109	119	83
Delaware	339	365	446	534	520	187	185	189	193	162
Des Moines	913	1019	1180	1180	1292	539	508	516	430	464
Dickinson	412	388	388	409	479	230	211	184	151	150
Dubuque	1880	1941	2062	2203	2220	1022	995	920	845	854
Emmet	284	326	345	375	407	143	151	137	139	130
Fayette	600	643	781	763	783	290	291	288	270	265
Floyd	517	555	574	560	569	248	239	242	216	203
Franklin	375	323	388	380	501	125	143	158	134	140
Fremont	271	262	356	367	369	139	118	115	117	102
Greene	335	385	442	425	507	151	133	143	141	149
Grundy	289	311	398	373	357	145	133	139	155	124
Guthrie	360	402	442	449	390	166	143	189	182	154
Hamilton	354	422	416	485	515	219	218	193	186	188
Hancock	354	342	391	371	429	128	132	136	154	140
Hardin	586	582	659	660	711	293	299	252	250	247
Harrison	446	521	569	571	586	233	209	190	183	165
Henry	441	512	535	544	564	221	226	230	208	183
Howard	288	274	375	354	361	151	124	126	145	108
Humboldt	267	304	324	323	378	147	161	140	135	121
Ida	264	279	299	316	340	97	110	109	102	119
Iowa	345	348	432	462	507	185	187	168	157	180
Jackson	513	563	613	580	590	275	233	230	220	227
Jasper	805	780	866	874	952	420	434	386	383	330



Table 1. Deaths to Residents Caused by Cardiovascular Disease or Cancer in Iowa's Counties, 1974-1998 (continued).

County	Deaths Caused by Cardiovascular Disease					Deaths Caused by Cancer				
	1994-1998	1989-1993	1984-1988	1979-1983	1974-1978	1994-1998	1989-1993	1984-1988	1979-1983	1974-1978
Jefferson	345	403	463	463	446	172	157	159	174	162
Johnson	885	895	992	964	1022	624	539	519	481	436
Jones	366	408	463	477	512	220	227	211	202	157
Keokuk	266	315	376	445	451	164	163	174	184	147
Kossuth	483	479	508	625	597	234	251	249	236	189
Lee	1001	999	1106	1153	1341	519	541	502	486	418
Linn	2637	2610	2959	3053	3217	1746	1626	1470	1420	1341
Louisa	271	275	300	314	327	113	137	122	118	110
Lucas	317	316	341	354	416	116	144	105	124	124
Lyon	299	271	313	321	317	132	193	132	120	129
Madison	297	328	375	352	449	182	161	142	154	135
Mahaska	492	587	676	701	789	264	237	248	259	269
Marion	682	667	703	757	846	362	337	306	266	248
Marshall	1014	1056	997	1102	1089	562	552	483	449	403
Mills	279	317	375	358	323	126	160	141	105	111
Mitchell	341	340	376	462	409	163	154	152	138	150
Monona	316	348	452	444	479	190	184	159	140	129
Monroe	233	293	273	295	304	128	109	125	146	116
Montgomery	402	393	437	478	534	155	201	184	154	151
Muscatine	740	789	791	863	986	416	417	366	412	365
O'Brien	454	431	476	588	604	206	220	208	208	170
Osceola	243	213	250	262	263	93	80	97	96	87
Page	524	543	652	760	739	238	218	233	225	229
Palo Alto	296	360	395	394	461	168	161	159	157	141
Plymouth	559	596	613	626	594	276	275	237	255	242
Pocahontas	273	298	346	395	399	136	156	140	151	140
Polk	5574	5424	5579	5912	6477	3355	3159	3027	2706	2519
Pottawattamie	1678	1748	2006	1988	2024	940	897	858	806	748
Poweshiek	474	450	511	507	570	235	205	207	180	176
Ringgold	207	203	225	245	277	86	79	76	86	91
Sac	426	403	467	491	496	157	184	164	177	179
Scott	2846	2689	2809	2902	3162	1436	1480	1361	1370	1175
Shelby	433	385	432	467	427	159	155	153	157	137
Sioux	491	494	588	565	623	261	274	290	253	273
Story	886	902	1001	974	1039	545	493	441	425	395
Tama	475	499	509	541	649	228	247	216	225	241
Taylor	221	244	307	351	363	95	121	106	114	124
Union	410	396	454	457	472	161	181	160	151	201
Van Buren	237	254	313	325	336	99	105	129	114	108
Wapello	950	1051	1171	1254	1404	518	542	484	532	486
Warren	659	583	604	576	626	342	303	250	231	214
Washington	490	555	555	595	640	239	222	222	223	208
Wayne	280	248	330	313	360	123	103	108	116	103
Webster	1125	1098	1184	1283	1318	503	516	489	460	477
Winnebago	328	381	404	410	428	147	131	138	120	138
Winneshiek	383	449	493	486	550	224	195	226	198	196
Woodbury	2115	2178	2383	2525	2547	1089	1081	1003	1071	1021
Worth	246	239	308	284	291	106	123	113	109	108
Wright	401	438	461	548	569	227	183	229	213	193
State of Iowa	61410	62566	68729	71878	76321	32057	31532	29837	28671	27015

Table 2. Percent of Total Deaths Due to Cardiovascular Disease or Cancer in Iowa's Counties, 1974-1998.

County	Percent of Deaths Due to Cardiovascular Disease					Percent of Deaths Due to Cancer				
	1994- 1998	1989- 1993	1984- 1988	1979- 1983	1974- 1978	1994- 1998	1989- 1993	1984- 1988	1979- 1983	1974- 1978
Adair	39.6	43.5	55.1	54.8	53.6	19.8	24.0	22.0	21.1	20.7
Adams	41.3	49.8	50.8	56.8	61.7	23.1	22.5	19.2	21.0	18.0
Allamakee	43.4	48.9	51.2	53.8	52.8	17.3	20.5	21.9	19.0	18.9
Appanoose	52.8	53.5	53.0	53.1	59.9	19.2	18.8	19.5	20.6	15.9
Audubon	42.7	44.2	49.3	49.7	52.3	21.7	20.8	23.4	22.3	21.1
Benton	41.5	41.4	50.3	53.6	54.5	27.2	26.6	21.9	22.4	20.5
Black Hawk	44.6	45.0	50.4	52.4	54.8	24.1	24.4	24.2	21.6	19.1
Boone	46.6	49.7	51.7	58.8	60.4	21.5	20.5	22.5	19.0	16.5
Bremer	47.4	52.3	54.8	55.9	56.6	23.2	21.9	21.6	19.9	20.6
Buchanan	45.2	47.3	49.9	55.5	53.0	25.1	25.1	19.6	18.4	18.1
Buena Vista	45.2	47.3	57.1	56.6	57.5	23.0	25.8	21.9	20.1	19.6
Butler	48.9	46.1	50.5	57.7	57.6	24.3	24.3	21.3	19.8	19.4
Calhoun	45.8	46.5	49.3	52.3	55.7	21.1	20.8	19.7	20.4	17.1
Carroll	44.5	45.8	51.1	54.1	58.5	22.4	23.7	21.5	23.6	20.8
Cass	47.0	49.6	55.3	57.5	57.5	22.3	22.5	22.1	19.6	20.0
Cedar	41.3	42.4	51.9	51.9	57.3	23.9	23.4	21.5	23.2	18.9
Cerro Gordo	46.8	46.5	49.1	52.3	52.2	23.6	25.1	21.9	21.9	19.6
Cherokee	49.4	53.9	55.9	56.3	53.3	19.3	20.0	21.3	21.2	22.4
Chickasaw	52.3	52.2	52.6	53.4	54.5	19.1	22.0	22.1	22.6	18.8
Clarke	47.7	48.7	58.3	59.1	60.6	19.8	21.6	21.3	20.7	20.1
Clay	42.1	47.0	54.0	54.3	57.4	21.9	24.2	21.4	21.9	20.2
Clayton	42.1	43.3	51.0	55.9	56.4	22.1	23.3	20.6	19.5	17.3
Clinton	49.1	46.0	48.1	53.5	54.4	21.7	24.8	23.3	21.0	20.1
Crawford	45.0	46.5	49.4	54.7	55.6	20.7	24.9	22.6	19.7	19.1
Dallas	43.8	44.7	46.0	50.3	57.2	23.1	21.2	20.7	21.8	19.5
Davis	45.7	57.9	60.8	61.5	64.6	22.2	18.1	18.2	17.9	18.1
Decatur	44.3	44.5	56.7	54.7	59.5	22.2	19.3	20.4	19.7	14.4
Delaware	44.0	43.8	52.4	58.7	59.2	24.3	22.2	22.2	21.2	18.4
Des Moines	41.3	45.3	48.9	53.8	54.3	24.4	22.6	21.4	19.6	19.5
Dickinson	45.3	48.2	48.4	53.9	59.1	25.3	26.2	22.9	19.9	18.5
Dubuque	44.8	46.2	51.3	54.7	54.6	24.3	23.7	22.9	21.0	21.0
Emmet	41.8	45.7	51.4	53.3	56.1	21.0	21.2	20.3	19.8	17.9
Fayette	47.1	50.0	55.6	55.9	56.8	22.7	22.6	20.5	19.8	19.2
Floyd	50.2	51.8	55.5	52.5	55.1	24.1	22.3	23.4	20.3	19.7
Franklin	54.6	49.8	53.2	55.4	63.7	18.2	22.1	21.7	19.5	17.8
Fremont	43.8	45.7	55.6	57.3	57.9	22.5	20.6	18.0	18.3	16.0
Greene	49.7	57.9	58.3	58.7	63.7	22.4	20.0	18.9	19.5	18.7
Grundy	42.8	52.1	60.1	53.5	56.0	21.4	22.3	21.0	22.2	19.5
Guthrie	51.4	57.2	54.1	55.0	51.5	23.7	20.3	23.0	22.3	20.3
Hamilton	40.7	46.3	47.3	53.1	53.3	25.2	23.9	21.9	20.4	19.4
Hancock	54.3	54.9	57.1	51.0	55.1	19.6	21.2	19.9	21.2	18.0
Hardin	46.8	47.8	53.9	54.4	57.0	23.4	24.6	20.6	20.6	19.8
Harrison	45.6	51.7	57.0	58.6	60.0	23.8	20.8	19.0	18.8	16.9
Henry	45.7	49.9	53.3	56.1	58.0	22.9	22.0	22.9	21.4	18.8
Howard	42.8	46.0	53.3	53.8	55.3	22.4	20.8	17.9	22.0	16.5
Humboldt	44.3	47.1	52.0	53.0	57.3	24.4	25.0	22.5	22.2	18.3
Ida	49.7	51.8	55.0	61.1	57.8	18.3	20.4	20.1	19.7	20.2
Iowa	40.5	42.6	51.9	58.5	56.6	21.7	22.9	20.2	19.9	20.1
Jackson	45.0	50.0	54.2	53.3	54.9	24.1	20.7	20.3	20.2	21.1
Jasper	45.6	45.3	50.6	51.5	55.9	23.8	25.2	22.6	22.6	19.4

Table 2. Percent of Total Deaths Due to Cardiovascular Disease or Cancer in Iowa's Counties, 1974-1998 (continued).

County	Percent of Deaths Due to Cardiovascular Disease					Percent of Deaths Due to Cancer				
	1994- 1998	1989- 1993	1984- 1988	1979- 1983	1974- 1978	1994- 1998	1989- 1993	1984- 1988	1979- 1983	1974- 1978
Jefferson	45.6	50.6	56.0	56.2	53.4	22.7	19.7	19.2	21.1	19.4
Johnson	36.7	40.1	44.2	46.9	51.5	25.9	24.1	23.1	23.4	22.0
Jones	41.9	44.7	49.7	51.7	55.8	25.2	24.9	22.7	21.9	17.1
Keokuk	38.6	44.1	46.6	50.1	53.9	23.8	22.8	21.6	20.7	17.6
Kossuth	46.7	47.3	50.5	55.6	55.5	22.6	24.8	24.7	21.0	17.6
Lee	45.3	45.8	50.7	52.7	56.2	23.5	24.8	23.0	22.2	17.5
Linn	38.9	40.9	47.0	49.3	51.3	25.7	25.5	23.4	22.9	21.4
Louisa	46.6	47.1	52.9	55.1	54.9	19.4	23.5	21.4	20.7	18.5
Lucas	53.8	51.1	55.1	55.1	60.0	19.7	23.3	16.9	19.3	17.9
Lyon	48.7	42.9	52.9	53.6	54.5	21.5	30.5	22.4	20.0	22.2
Madison	37.3	43.3	50.1	51.6	59.3	22.8	21.3	19.0	22.6	17.8
Mahaska	44.4	50.6	53.8	57.8	58.4	23.8	20.4	19.7	21.4	19.9
Marion	41.6	42.2	47.2	54.1	58.0	22.1	21.3	20.5	19.0	17.0
Marshall	39.4	43.2	46.9	52.2	56.0	21.8	22.6	22.7	21.3	20.7
Mills	43.9	47.7	55.4	58.1	53.5	19.8	24.1	20.9	17.0	18.4
Mitchell	47.4	45.8	51.5	60.0	54.5	22.6	20.7	20.8	17.9	20.0
Monona	39.9	45.4	56.8	58.6	60.0	24.0	24.0	20.0	18.5	16.2
Monroe	44.9	51.9	48.4	46.9	51.8	24.7	19.3	22.2	23.2	19.8
Montgomery	45.4	44.6	49.1	59.7	62.2	17.5	22.8	20.6	19.2	17.6
Muscatine	40.1	42.0	43.2	48.0	52.5	22.5	22.2	20.0	22.9	19.4
O'Brien	47.0	45.2	49.6	60.0	61.4	21.3	23.1	21.6	21.2	17.3
Osceola	55.0	55.9	53.9	55.7	56.7	21.0	21.0	21.0	20.4	18.8
Page	45.0	48.7	54.3	60.1	60.7	20.4	19.6	19.4	17.8	18.8
Palo Alto	42.0	51.4	55.1	53.2	58.7	23.8	23.0	22.2	21.2	17.9
Plymouth	47.1	51.9	52.8	53.1	53.0	23.3	24.0	20.5	21.6	21.6
Pocahontas	45.4	47.2	49.6	52.2	53.6	22.6	24.7	20.0	19.9	18.8
Polk	41.0	42.4	44.5	49.0	52.0	24.7	24.7	24.1	22.4	20.2
Pottawattamie	42.3	46.9	50.2	53.0	52.9	23.7	24.0	21.5	21.5	19.6
Poweshiek	44.6	47.4	51.2	54.8	58.3	22.1	21.6	20.8	19.5	18.0
Ringgold	52.3	53.0	58.1	60.6	60.5	21.7	20.6	19.7	21.3	19.9
Sac	50.7	48.6	55.0	57.6	56.5	18.7	22.2	19.3	20.8	20.4
Scott	45.1	44.6	46.4	49.1	52.6	22.7	24.6	22.5	23.2	19.6
Shelby	52.7	50.8	57.3	58.7	56.6	19.3	20.4	20.2	19.7	18.2
Sioux	40.1	43.2	47.3	49.2	50.4	21.3	24.0	23.4	22.0	22.1
Story	41.5	42.9	49.5	49.8	53.1	25.5	23.4	21.8	21.7	20.2
Tama	44.6	47.8	49.6	50.6	54.2	21.4	23.7	21.1	21.0	20.1
Taylor	44.0	45.0	56.5	56.6	55.8	18.9	22.3	19.5	18.4	19.1
Union	51.2	48.8	53.6	55.7	52.2	20.1	22.3	18.9	18.4	22.2
Van Buren	46.9	49.2	56.2	57.3	56.5	19.6	20.3	23.1	20.1	18.2
Wapello	42.9	45.7	49.2	53.0	56.3	23.4	23.6	20.3	22.5	19.5
Warren	42.8	43.0	47.2	51.8	55.3	22.2	22.4	19.5	20.8	18.9
Washington	42.3	49.7	50.4	56.6	58.1	20.6	19.9	20.2	21.2	18.9
Wayne	48.0	49.3	56.5	51.1	59.7	21.1	20.5	18.5	18.9	17.1
Webster	46.5	46.4	49.9	53.5	53.5	20.8	21.8	20.6	19.2	19.4
Winnebago	47.0	52.8	57.2	59.5	58.2	21.1	18.1	19.5	17.4	18.8
Winneshiek	42.2	49.2	47.6	51.6	54.1	24.7	21.4	21.7	21.0	19.3
Woodbury	43.3	45.7	49.7	52.0	51.0	22.3	22.7	20.9	22.1	20.5
Worth	46.9	49.1	56.9	56.8	55.9	20.2	25.3	20.8	21.8	20.7
Wright	41.6	48.6	49.0	56.4	56.6	23.6	20.3	24.3	21.9	19.2
State of Iowa	44.1	46.1	50.2	53.2	55.0	23.0	23.2	21.8	21.2	19.5

Nearly a third (31.3%) of the cancer deaths from 1994 to 1998 occurred in the six counties reporting more than 1,000 each (Black Hawk, Dubuque, Linn, Polk, Scott, Woodbury); these counties contained an estimated 35.3 percent of the population in 1998. Seven less populated counties (Adams, Clarke, Ida, Osceola, Ringgold, Taylor, Van Buren) each noted fewer than 100 deaths from cancer.

Cancer accounted for 23.0 percent of all the deaths in the state in the 1994-1998 period (Table 2). This percentage ranged from 17.3 in Allamakee to 27.2 in Benton. Overall, cancer caused fewer than 1 of every 5 deaths in 17 counties but more than 1 of every 4 deaths in 8 others (Benton, Buchanan, Dickinson, Hamilton, Johnson, Jones, Linn, Story). In the 1974-1978 period, there were no counties in which cancer-related deaths accounted for more than 23 percent of all deaths; cancer was listed as the cause for fewer than 20 percent of all deaths in 70 counties for the 1974-1978 period.

In only 12 counties did cancer account for a smaller percentage of deaths in the period from 1994 through 1998 than in the years from 1974 through 1978. Twenty-four counties had an increase of at least 5 percentage points when the 1974-1978 and 1994-1998 periods were compared. For the state, the increase was from 19.5 percent in the earliest five-year period to 23.0 percent in the most recent one. Thus, the percentage of deaths that were due to cancer increased over the years studied while those attributed to cardiovascular disease decreased. Still, 29,350 more deaths occurred from cardiovascular causes than from cancer in 1994-1998; the 1974-1978 difference of 49,300 was much greater, however.

**Note:** A comparison of data from the two sources for 1974 through 1992 revealed only minor differences. Those from the national data set were used because they were available from another project.

## Deaths Caused by Accident, Homicide, or Suicide in Iowa's Counties: 1990-1999

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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 1990 through 1999, the 14,674 deaths due to these four causes accounted for 5.3% of all deaths (276,393) 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 1999, 520 Iowans died in motor vehicle accidents (Table 1). From 1990 through 1999, only one year—1995—had a higher total than that reported in 1999 (Figure 1).

Polk had more residents (38) die in motor vehicle accidents in 1999 than did any other county. The next highest counties were Black Hawk, Clayton, Linn, and Scott, the only others exceeding 15. Fifty-five of the counties had one to five while eight counties had no residents die in motor vehicle accidents in 1999.

A total of 4,944 Iowa residents died in motor vehicle accidents from 1990 through 1999. Of these, 414 were residents of Polk. Black Hawk, Dubuque, Linn, Pottawattamie, Scott, and Woodbury also had at least 100 residents die in this manner that decade. Adams, Audubon, Calhoun, Guthrie, Howard, Osceola, Ringgold, Taylor, and Worth had fewer than 20 residents die in motor vehicle accidents during the 10-year period.

### 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 596 Iowans were due to these kinds of incidents in 1999 (Table 1), which was down by 32 from the 1998 total (Figure 1).

In 1999, Polk had the highest number (61) of deaths from accidents other than those involving motor vehicles, followed by Lee, Linn, Pottawattamie, and Scott each with at least 20. Five or fewer such deaths occurred in 66 counties in 1999; among these 66, no deaths from these kinds of accidents were reported for residents of Cherokee.

During the 1990-1999 period, accidents other than those involving motor vehicles claimed the lives of 5,870 Iowans. Polk's total was 647, more than double that of second place Linn (267). Eleven other counties recorded 100 or more such accidental deaths during the 10 years. Osceola (6) had the fewest of these accidental deaths during the period.

### Deaths Due to Homicide

There were fewer homicides in Iowa in 1999 (55) than in all but two other years in the 1990s (Table 2, Figure 1); the highest number was 76 in 1991. Seventy-six of Iowa's counties had no homicides

Table 1. Deaths to Residents Caused by Motor Vehicle and Other Accidents in Iowa's Counties, 1990-1999.

County	Deaths Caused by Motor Vehicle Accidents										Deaths Caused by Accidents Other Than Those Involving Motor Vehicles									
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
	Adair	1	2	2	3	5	0	5	2	2	3	1	2	2	2	7	1	0	3	6
Adams	2	2	0	3	1	1	2	1	2	0	1	1	2	1	2	4	4	3	2	0
Allamakee	3	7	3	5	2	1	4	7	3	4	2	1	8	6	5	3	2	3	3	4
Appanoose	3	5	2	2	5	5	5	2	0	5	4	1	5	3	4	1	3	2	2	3
Audubon	2	1	2	1	1	0	1	1	4	2	3	3	0	2	0	2	0	4	2	0
Benton	3	4	6	4	4	4	3	1	8	3	4	3	4	4	6	6	3	3	4	5
Black Hawk	17	18	21	17	20	23	19	24	16	19	19	13	26	22	25	30	36	16	23	24
Boone	6	2	7	5	5	9	1	6	1	3	6	12	4	4	8	2	9	5	8	3
Bremer	5	3	2	3	4	4	8	1	6	5	8	7	1	3	2	6	4	4	5	4
Buchanan	4	4	5	5	6	2	3	3	2	3	4	5	5	8	6	5	3	10	3	4
Buena Vista	4	5	4	3	2	4	3	6	4	3	6	9	2	4	1	4	2	4	0	2
Butler	3	5	2	0	1	4	4	4	3	2	4	5	4	3	8	3	0	0	1	2
Calhoun	0	2	1	3	2	1	0	3	3	2	4	8	4	7	3	4	2	2	6	2
Carroll	6	1	10	4	6	5	4	4	7	2	8	7	6	7	3	9	3	6	3	2
Cass	0	3	4	2	7	2	4	4	2	2	6	5	4	4	4	7	0	6	6	6
Cedar	9	2	6	4	5	4	3	2	7	2	1	8	1	6	6	6	4	2	0	5
Cerro Gordo	8	9	10	6	6	5	13	8	6	3	5	5	7	11	8	6	4	5	12	2
Cherokee	6	4	7	4	4	3	1	1	5	1	0	6	2	7	7	2	1	2	4	5
Chickasaw	2	6	2	2	4	2	2	3	6	1	2	3	1	1	5	1	4	2	4	1
Clarke	0	4	0	4	4	0	4	2	3	2	3	2	1	2	1	5	3	3	3	4
Clay	1	2	1	4	5	4	2	0	6	4	6	4	6	3	1	2	3	4	1	2
Clayton	17	5	2	5	10	8	9	4	6	2	7	3	4	1	5	8	6	4	7	3
Clinton	13	8	11	11	10	12	7	4	11	9	8	11	10	8	10	6	14	13	6	6
Crawford	9	2	7	6	7	6	5	2	5	2	6	4	7	3	5	3	4	3	2	4
Dallas	6	8	8	3	6	5	11	10	9	10	12	3	6	10	5	8	8	10	4	3
Davis	4	3	1	5	9	2	3	2	2	3	4	3	5	7	4	1	1	0	3	2
Decatur	5	2	5	3	1	1	3	1	3	1	2	2	2	3	1	6	4	8	6	5
Delaware	7	3	4	2	4	1	4	2	4	2	1	3	0	6	2	2	1	8	5	3
Des Moines	7	3	11	5	6	5	13	3	10	7	10	12	9	10	11	9	7	9	12	11
Dickinson	3	4	1	5	2	2	2	6	4	1	5	3	3	3	3	5	4	0	0	6
Dubuque	13	7	12	7	5	16	9	18	9	11	12	13	8	14	10	12	14	6	17	20
Emmet	2	3	2	3	5	1	1	2	5	0	5	5	3	1	2	6	4	2	2	1
Fayette	5	0	5	0	7	6	3	5	7	13	3	6	8	0	6	4	7	5	4	5
Floyd	3	3	6	2	2	6	4	3	3	2	3	1	1	2	6	3	4	6	4	1
Franklin	3	5	6	3	1	1	2	4	1	0	1	1	5	1	2	2	2	4	4	3
Fremont	2	2	5	2	2	3	3	0	1	2	4	1	4	2	3	2	3	0	4	3
Greene	1	1	2	1	5	5	0	2	0	4	4	3	2	1	3	3	0	3	6	1
Grundy	7	2	3	4	3	3	0	0	3	1	2	4	2	3	4	2	2	1	4	2
Guthrie	3	4	0	0	3	2	2	2	1	1	3	4	1	1	4	3	3	0	3	2
Hamilton	1	4	5	5	4	4	4	4	1	4	2	1	4	1	1	3	1	5	1	3
Hancock	1	1	2	3	2	3	4	0	2	5	2	2	4	1	2	2	3	2	1	3
Hardin	3	4	7	1	4	7	4	2	3	2	7	8	7	5	12	4	6	2	6	5
Harrison	4	3	3	4	4	6	4	12	7	6	9	9	4	5	2	3	1	4	5	4
Henry	7	2	1	3	5	3	7	2	11	2	7	6	2	4	3	6	6	7	0	1
Howard	3	2	0	2	1	1	1	4	1	2	2	4	1	4	4	2	2	1	3	3
Humboldt	0	0	3	4	3	3	2	3	1	1	7	1	1	1	1	4	3	7	2	3
Ida	6	0	2	0	5	1	4	5	0	2	4	5	6	1	3	2	1	1	1	2
Iowa	7	4	4	2	5	3	3	6	2	2	4	6	5	0	3	5	1	2	3	2
Jackson	4	2	4	8	6	4	4	4	8	7	3	4	2	6	4	8	3	6	2	5
Jasper	5	5	8	5	4	4	9	4	1	8	9	1	9	8	5	14	11	5	13	4

Table 1. Deaths to Residents Caused by Motor Vehicle and Other Accidents in Iowa's Counties, 1990-1999 (continued).

County	Deaths Caused by Motor Vehicle Accidents										Deaths Caused by Accidents Other Than Those Involving Motor Vehicles									
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
	Jefferson	1	4	4	9	8	0	2	2	6	5	3	1	1	2	5	2	2	4	2
Johnson	15	1	6	8	10	9	8	8	11	10	13	22	12	13	11	8	7	13	11	16
Jones	7	8	5	10	4	3	6	7	2	5	7	3	3	2	4	9	6	4	1	5
Keokuk	6	6	1	7	5	5	6	2	2	5	5	1	5	6	7	5	5	4	2	4
Kossuth	6	4	3	7	7	2	6	2	1	1	2	3	5	6	7	1	2	2	5	6
Lee	6	7	6	13	10	6	3	7	16	16	21	8	6	9	7	19	7	7	5	6
Linn	18	20	19	18	27	24	19	12	22	21	22	39	30	28	30	25	22	24	28	19
Louisa	1	2	3	4	5	6	3	3	1	4	2	4	1	3	11	4	4	1	1	4
Lucas	3	7	3	2	3	2	0	5	2	6	1	1	2	3	1	5	2	1	5	1
Lyon	1	3	2	4	2	2	3	2	2	2	5	0	3	2	4	2	0	0	2	5
Madison	2	4	4	5	6	5	0	2	4	2	2	7	3	1	8	2	4	5	4	3
Mahaska	2	3	1	6	5	6	7	6	6	5	3	6	2	8	10	6	4	7	12	7
Marion	5	9	5	6	4	9	8	9	4	7	9	11	7	11	11	8	7	11	9	11
Marshall	5	10	4	4	13	9	5	12	17	6	5	15	10	11	13	10	7	13	10	10
Mills	2	4	2	8	1	1	3	2	3	7	5	1	2	5	2	4	5	0	3	7
Mitchell	1	4	2	3	6	1	2	6	0	1	1	3	4	7	0	0	2	2	1	4
Monona	5	1	4	7	1	3	1	3	2	3	2	4	1	2	3	3	5	6	2	3
Monroe	1	1	3	5	1	4	4	3	1	3	2	2	2	2	2	3	0	4	3	1
Montgomery	0	4	4	1	3	2	2	0	3	4	6	7	4	5	3	1	7	5	7	6
Muscatine	7	6	11	9	7	7	3	5	9	11	5	8	7	7	10	11	2	4	13	5
O'Brien	2	6	0	4	2	6	1	5	3	1	3	2	2	1	3	2	2	7	7	3
Osceola	4	2	3	2	1	3	2	1	0	1	1	0	0	1	1	0	1	1	0	1
Page	8	2	3	3	3	2	1	5	3	7	5	6	4	4	6	2	3	7	4	5
Palo Alto	0	5	3	3	1	2	2	3	5	4	3	4	3	4	5	4	1	0	2	1
Plymouth	5	6	3	2	6	5	5	2	2	4	6	6	7	3	5	5	1	3	2	3
Pocahontas	2	1	1	2	3	2	0	3	3	4	2	2	6	4	0	3	1	1	1	6
Polk	38	37	48	41	44	53	34	39	45	35	61	56	50	64	68	57	70	71	82	68
Pottawattamie	12	11	13	12	10	17	14	20	8	14	23	20	15	13	13	16	13	15	21	13
Poweshiek	4	3	5	4	3	4	1	2	3	2	3	3	5	6	6	7	6	4	6	3
Ringgold	0	0	2	2	1	2	2	1	1	1	2	1	2	2	2	3	0	2	1	1
Sac	7	5	3	4	7	2	3	4	1	2	1	4	4	2	3	3	5	5	3	5
Scott	24	17	13	13	21	20	17	18	10	18	24	27	22	24	18	27	32	21	14	14
Shelby	4	3	1	4	4	1	7	6	2	3	2	1	5	3	4	2	5	2	3	6
Sioux	3	6	11	5	5	3	2	1	6	8	3	6	11	2	5	5	9	5	4	3
Story	6	12	16	4	9	2	7	7	13	9	13	7	12	10	5	5	14	7	17	16
Tama	6	4	6	5	6	7	5	6	6	6	5	5	2	5	3	4	2	2	4	8
Taylor	3	2	1	1	1	4	2	1	0	2	5	1	2	3	3	0	1	1	2	2
Union	1	1	3	1	3	4	3	5	5	1	3	6	2	6	6	3	4	1	3	3
Van Buren	4	2	2	0	4	2	4	0	4	2	3	7	4	3	5	1	5	1	1	3
Wapello	5	5	6	7	10	14	7	8	10	9	12	9	11	12	12	12	6	10	8	9
Warren	7	6	5	3	4	6	1	3	1	4	6	9	8	6	5	6	4	8	4	8
Washington	2	2	6	5	4	3	7	3	3	3	5	6	7	9	4	10	5	5	5	7
Wayne	1	4	1	6	2	7	3	1	2	0	1	3	4	6	4	1	1	2	2	1
Webster	9	5	2	7	7	12	4	4	11	8	9	12	15	16	5	18	13	13	13	10
Winnebago	4	5	0	1	0	4	3	3	2	5	5	4	5	1	5	2	4	5	5	1
Winneshiek	8	1	0	1	4	2	2	1	3	8	1	4	8	1	6	4	6	0	4	6
Woodbury	12	14	16	9	13	12	12	15	12	16	18	26	29	24	14	21	21	14	18	14
Worth	0	3	1	3	2	2	0	0	1	1	3	4	0	1	5	3	1	5	1	3
Wright	9	1	4	6	2	2	3	1	6	6	2	2	6	4	2	2	7	3	7	3
State of Iowa	520	462	497	484	540	518	463	467	502	491	596	628	581	595	610	603	559	551	598	549

Table 2. Deaths to Residents Caused by Homicide and Suicide in Iowa's Counties, 1990-1999.

County	Homicides										Suicides									
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Adair	0	0	0	0	0	1	0	0	0	0	1	2	1	1	0	0	1	1	3	1
Adams	1	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0
Allamakee	0	2	0	0	0	0	0	0	0	0	1	6	1	2	0	2	2	0	1	1
Appanoose	0	0	0	1	0	0	0	0	0	1	3	0	3	1	3	1	1	1	2	3
Audubon	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	3	2	1
Benton	0	0	1	0	0	0	0	0	0	0	3	0	1	1	6	1	5	1	3	4
Black Hawk	0	3	3	1	3	4	8	0	5	6	8	12	22	10	11	12	18	14	12	12
Boone	0	0	0	1	0	0	1	1	0	0	4	2	2	3	7	1	4	1	3	3
Bremer	0	0	0	0	0	0	0	1	0	0	5	4	3	3	2	7	1	2	1	3
Buchanan	0	0	0	0	1	0	0	0	0	0	6	1	5	2	4	2	3	4	3	4
Buena Vista	1	0	0	2	0	0	0	0	0	0	1	2	3	1	2	1	4	1	2	0
Butler	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	1	1	1	1	2
Calhoun	0	0	0	0	0	0	0	0	0	0	2	1	2	0	1	1	2	2	2	1
Carroll	0	0	0	0	0	0	0	0	0	0	1	0	4	2	3	2	4	2	3	3
Cass	0	0	0	0	0	0	1	0	1	0	0	1	3	2	3	0	0	0	2	1
Cedar	0	0	0	1	0	3	0	0	1	0	2	2	5	0	2	2	0	2	4	1
Cerro Gordo	3	2	1	1	0	1	2	0	1	0	4	6	4	4	7	6	6	3	5	5
Cherokee	0	0	0	0	0	0	0	1	0	0	0	2	1	3	3	1	3	4	4	1
Chickasaw	1	0	0	0	0	0	0	0	0	0	1	0	3	2	0	4	1	2	1	1
Clarke	0	0	0	1	0	0	0	1	0	0	1	2	0	1	1	0	3	1	2	1
Clay	0	0	0	0	0	0	0	0	0	1	3	2	1	3	1	2	1	0	0	1
Clayton	0	0	0	1	0	0	0	0	0	0	3	1	6	4	1	1	2	5	5	2
Clinton	0	1	2	1	0	0	0	2	0	1	2	5	5	11	7	7	7	4	2	6
Crawford	0	0	0	0	0	1	0	0	0	0	3	1	0	0	2	0	2	2	2	3
Dallas	1	0	1	0	3	0	0	0	3	0	5	4	1	2	5	3	3	7	10	2
Davis	0	0	0	1	0	0	0	0	0	0	2	1	0	1	1	0	2	4	0	0
Decatur	1	0	0	0	1	0	1	0	0	1	1	2	1	3	0	0	4	2	2	0
Delaware	0	0	1	0	0	1	0	0	0	0	0	1	5	0	2	4	1	0	5	1
Des Moines	1	0	0	0	1	1	1	1	2	2	6	6	5	6	5	12	9	3	8	6
Dickinson	0	2	0	0	0	0	0	0	0	1	2	5	3	1	0	2	1	1	1	2
Dubuque	0	0	0	1	1	1	0	2	3	0	10	9	13	11	8	7	9	12	11	6
Emmet	1	0	1	0	0	0	0	0	0	0	2	1	2	1	1	2	0	1	1	2
Fayette	0	0	1	0	0	0	0	0	0	0	1	2	4	2	0	2	3	1	4	2
Floyd	0	0	3	0	0	0	0	0	0	0	1	0	1	5	6	1	2	2	3	1
Franklin	2	0	0	2	0	0	0	0	1	0	2	0	0	1	1	1	1	0	0	3
Fremont	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	0	1	1	1
Greene	0	0	0	0	0	0	1	0	0	0	2	0	3	2	0	1	1	2	0	1
Grundy	1	1	0	0	0	0	0	0	0	0	2	3	1	1	2	4	1	0	1	1
Guthrie	0	0	0	0	0	0	0	1	0	0	1	1	3	2	0	3	1	3	0	2
Hamilton	0	0	0	1	0	0	0	0	0	0	1	2	2	1	3	2	3	2	5	1
Hancock	1	0	0	1	0	0	1	0	0	0	2	0	2	1	1	1	1	2	2	0
Hardin	0	0	1	1	1	2	1	0	0	0	3	4	3	2	0	3	0	1	0	1
Harrison	0	0	0	0	1	0	0	0	0	0	1	0	1	5	2	1	2	0	3	0
Henry	0	0	0	0	0	0	0	1	0	0	1	0	1	2	0	2	2	4	2	2
Howard	0	0	1	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	1
Humboldt	0	0	0	0	0	0	0	0	0	0	3	0	3	3	1	4	3	1	0	0
Ida	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	2	1	1
Iowa	0	2	0	0	0	0	0	1	0	1	1	1	0	2	3	2	1	1	4	1
Jackson	0	0	1	0	0	0	0	0	0	1	3	8	2	5	2	1	3	3	3	3
Jasper	0	0	1	0	0	1	0	0	0	0	2	4	3	2	1	4	2	2	7	4



Table 2. Deaths to Residents Caused by Homicide and Suicide in Iowa's Counties, 1990-1999 (continued).

County	Homicides										Suicides									
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Jefferson	0	0	1	0	0	0	1	0	1	0	4	5	5	4	3	2	3	0	1	6
Johnson	2	1	1	4	3	1	1	0	7	1	5	14	13	7	7	11	8	7	10	9
Jones	0	1	0	0	0	0	1	0	0	0	1	5	2	2	1	4	1	2	1	8
Keokuk	0	0	0	1	0	0	0	1	0	0	1	1	0	3	1	2	3	4	1	2
Kossuth	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	0	1	0	0	2
Lee	1	2	0	1	1	0	0	0	5	0	8	2	7	6	4	8	6	2	6	3
Linn	3	5	4	1	4	5	3	4	5	2	27	25	25	18	12	22	22	17	25	24
Louisa	0	0	0	1	0	0	0	0	0	0	1	1	0	4	4	1	0	2	1	4
Lucas	0	0	0	0	0	0	0	0	1	0	2	3	0	0	2	3	1	3	1	1
Lyon	0	0	0	0	0	0	1	0	0	0	0	2	0	1	0	0	1	1	1	1
Madison	0	1	0	2	0	0	0	0	0	0	1	4	2	2	3	1	1	1	0	0
Mahaska	0	0	2	0	0	0	0	0	1	1	0	1	1	2	0	3	2	3	0	4
Marion	0	0	1	0	1	0	1	1	0	2	2	0	4	4	7	1	1	2	2	3
Marshall	1	1	0	1	0	1	1	0	0	1	3	3	7	2	5	9	3	6	4	6
Mills	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	3	2	0	1	2
Mitchell	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	1	1	2	2	2
Monona	0	0	0	0	0	0	0	0	0	0	0	3	0	1	2	1	1	1	0	2
Monroe	0	0	0	0	0	0	0	0	0	0	4	2	2	4	3	0	1	0	0	3
Montgomery	0	0	3	0	0	0	0	0	0	0	3	2	1	1	3	2	2	2	0	1
Muscatine	0	1	0	0	2	1	1	3	0	0	2	5	3	2	5	7	6	5	4	8
O'Brien	0	0	0	1	0	1	0	0	1	1	2	1	1	0	3	1	1	2	3	4
Osceola	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	1	1	1
Page	0	0	0	0	0	0	0	1	1	0	3	1	2	1	4	0	0	3	3	1
Palo Alto	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1	0	1	0	0	0
Plymouth	1	0	0	0	0	0	1	0	0	0	3	1	3	1	4	0	0	2	3	3
Pocahontas	0	0	0	0	0	0	0	0	1	0	0	5	1	0	0	1	0	0	3	2
Polk	23	22	18	21	23	20	12	11	12	18	41	44	43	45	34	47	44	25	46	49
Pottawattamie	2	5	7	5	4	5	2	2	4	2	9	15	13	8	16	11	9	16	10	13
Poweshiek	0	0	1	0	0	1	0	0	0	0	3	4	1	6	1	1	4	1	1	1
Ringgold	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	2	3
Sac	0	0	0	0	0	0	0	2	0	0	1	1	0	2	3	3	1	1	0	2
Scott	2	3	3	3	9	8	6	3	2	3	16	21	15	12	22	21	13	21	17	13
Shelby	0	0	0	0	0	0	0	0	0	0	0	1	4	0	2	0	1	1	2	4
Sioux	0	1	0	0	1	0	0	1	2	0	2	1	0	3	1	1	2	0	1	1
Story	1	0	0	2	0	0	1	2	1	0	5	9	12	5	8	7	5	3	5	6
Tama	0	2	1	3	0	0	0	0	0	2	2	2	4	2	6	4	5	0	1	0
Taylor	0	0	1	0	0	0	0	0	0	0	0	1	1	2	2	0	0	0	1	3
Union	2	0	1	0	1	0	0	0	0	1	4	2	1	3	1	1	5	2	2	3
Van Buren	0	0	0	0	0	0	0	0	0	1	3	2	0	1	0	0	1	0	1	0
Wapello	1	0	0	5	1	1	0	1	1	0	5	2	5	5	7	7	6	2	2	4
Warren	0	0	1	1	0	0	4	2	1	0	6	2	0	8	7	3	2	5	3	3
Washington	0	0	0	0	0	0	0	0	1	0	3	0	3	3	2	2	4	7	1	2
Wayne	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	1	3	1	1
Webster	0	3	2	0	0	0	2	0	5	1	3	5	4	7	5	2	1	6	6	7
Winnebago	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	1	1	0	1
Winneshiek	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	1	3	2	5	3
Woodbury	2	2	6	1	3	4	3	3	7	1	12	11	11	10	19	4	11	7	12	9
Worth	0	1	0	0	1	0	0	0	0	0	0	1	2	2	4	2	0	0	1	0
Wright	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	1	3	1	2
State of Iowa	55	66	71	72	66	64	60	49	76	52	302	328	345	321	336	322	318	287	334	336

in 1999 and another 14 counties had only one. Polk (23) had the most and was the only county with more than three homicide deaths that year.

From 1990 through 1999, 631 Iowans died by homicide. Of these, 180 were Polk residents, 42 were from Scott, 38 from Pottawattamie, 36 from Linn, 33 from Black Hawk, and 32 from Woodbury. These six counties accounted for more than half (57.2%) of all of Iowa's homicides during these 10 years. Seventeen counties had no homicides from 1990 through 1999, while 43 others had one or two residents who died in this manner.

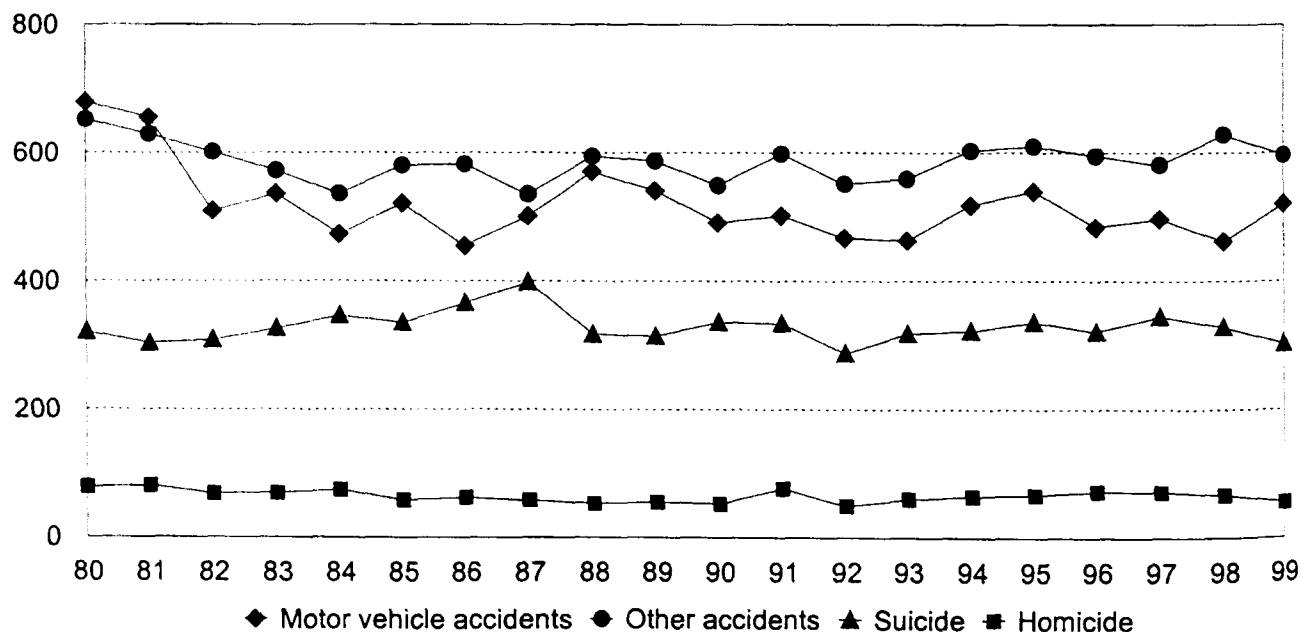
### Deaths Due to Suicide

Iowa recorded 302 suicides in 1999, a number lower than all but one other year (1992) in the 1990s (Table 2, Figure 1). Polk (41) was the only county with at least 30 suicides in 1999. A large majority (88) of the counties had five or fewer; of these, 19 had no suicides in 1999.

A total of 3,229 Iowans committed suicide from 1990 through 1999. At least 100 occurred to residents in Black Hawk, Linn, Polk, Pottawattamie, Scott, and Woodbury. Twelve counties had fewer than 10 for the decade or an average of less than one suicide per year.

**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).

**Figure 1. Deaths due to selected causes in Iowa, 1980–1999.**



## Alcohol-Related Traffic Fatalities in Iowa's Counties: 1987-1998

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The Iowa Department of Transportation keeps records of reported traffic accidents throughout the state. Based on police records, the department also registers the injuries and/or fatalities resulting from these accidents and whether alcohol was a factor. It is not mandatory in Iowa to test for alcohol among those involved in a fatal traffic accident; drivers are tested only when officers have articulable reasons to order such a test. Thus, the information reported in this section should be considered as representing the minimum number of alcohol-related traffic fatalities in this state. Also, these figures are recorded by the county where the fatality occurred.

In the three-year period from 1996 through 1998, 379 deaths were recorded as occurring in alcohol-related traffic accidents (Table 1). Black Hawk, Cerro Gordo, Dallas, Lee, Linn, Polk, Pottawattamie, Scott, and Woodbury each had at least 10 such fatalities; these nine counties accounted for a third (33.2%) of the state's total. Seven counties (Benton, Delaware, Emmet, Mills, Pocahontas, Ringgold, Winneshiek) did not have any reported deaths of this type in 1996-1998.

The number of alcohol-related traffic fatalities declined steadily across the four three-year periods examined. From 1987 through 1989, 695 such deaths occurred; this dropped to 552 in 1990-1992 and to 481 in 1993-1995. Indeed, the 1996-1998 figure was 45.5 percent lower than that reported for 1987-1989. Only 16 counties reported greater numbers of such fatalities in the most recent period rather than the first one noted, with no increase as great as 10. Declines generally were modest as well, although numbers decreased by at least 10 deaths in Clinton, Dubuque, Jackson, Linn, Muscatine, Polk, Pottawattamie, and Poweshiek. The drop of 43 in Polk was the largest reported.

Table 1. Alcohol-Related Traffic Fatalities in Iowa's Counties, 1987-1998.

County	1996- 1998	1993- 1995	1990- 1992	1987- 1989	County	1996- 1998	1993- 1995	1990- 1992	1987- 1989
Adair	1	0	1	1	Jefferson	3	3	7	3
Adams	2	2	6	0	Johnson	4	9	13	11
Allamakee	4	7	8	4	Jones	3	3	5	6
Appanoose	3	5	4	7	Keokuk	1	2	2	7
Audubon	2	4	1	2	Kossuth	2	1	1	6
Benton	0	4	6	8	Lee	10	10	21	11
Black Hawk	24	12	13	16	Linn	12	17	14	28
Boone	4	2	1	5	Louisa	2	0	3	3
Bremer	3	6	2	3	Lucas	2	0	6	3
Buchanan	4	4	1	13	Lyon	1	2	0	2
Buena Vista	6	0	7	5	Madison	5	5	3	1
Butler	4	2	1	4	Mahaska	6	4	7	7
Calhoun	2	3	3	3	Marion	4	7	2	5
Carroll	4	9	5	6	Marshall	2	7	15	6
Cass	1	3	6	4	Mills	0	3	5	7
Cedar	3	2	3	4	Mitchell	1	6	1	2
Cerro Gordo	13	11	8	11	Monona	4	3	6	8
Cherokee	3	1	3	4	Monroe	2	1	1	4
Chickasaw	3	3	2	4	Montgomery	4	1	1	1
Clarke	3	4	3	2	Muscatine	4	9	10	20
Clay	5	0	5	5	O'Brien	3	1	2	1
Clayton	6	4	7	2	Osceola	1	2	3	0
Clinton	3	10	12	21	Page	1	2	5	3
Crawford	6	7	4	6	Palo Alto	1	3	0	0
Dallas	10	6	8	12	Plymouth	1	3	5	10
Davis	6	7	5	0	Pocahontas	0	2	5	4
Decatur	6	1	4	0	Polk	16	33	35	59
Delaware	0	3	6	3	Pottawattamie	11	25	27	31
Des Moines	6	6	4	12	Poweshiek	1	1	5	11
Dickinson	1	2	2	7	Ringgold	0	1	1	0
Dubuque	5	9	5	17	Sac	2	2	5	4
Emmet	0	4	0	5	Scott	16	22	17	23
Fayette	3	4	5	6	Shelby	1	3	2	1
Floyd	1	4	1	3	Sioux	2	0	2	3
Franklin	1	2	3	4	Story	4	7	10	10
Fremont	2	4	5	9	Tama	7	11	6	11
Greene	1	4	3	2	Taylor	1	2	3	2
Grundy	2	5	4	2	Union	2	2	3	5
Guthrie	2	1	2	4	Van Buren	3	0	2	4
Hamilton	3	4	3	8	Wapello	7	9	10	11
Hancock	1	0	0	4	Warren	2	0	13	3
Hardin	3	2	4	9	Washington	4	7	8	1
Harrison	6	9	10	11	Wayne	4	4	1	3
Henry	2	8	7	6	Webster	6	11	9	12
Howard	2	2	5	4	Winnebago	2	1	3	4
Humboldt	3	0	5	4	Winneshiek	0	4	8	9
Ida	1	3	0	4	Woodbury	14	11	7	19
Iowa	2	5	4	3	Worth	1	2	3	5
Jackson	5	9	9	17	Wright	4	1	3	4
Jasper	7	6	7	5	County Unknown	0	1	3	0
					State of Iowa	379	481	552	695

## Injuries and Fatalities on Farms in Iowa's Counties: 1990-1999

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Information on injuries and fatalities occurring on Iowa's farms is collected annually by the Iowa Department of Public Health through its Sentinel Project Researching Agricultural Injury Notification Systems. The first year for which data were gathered was 1990.

### Injuries on Farms

In 1999, 1,670 work-related injuries occurred on farms in Iowa (Table 1). The number of injuries increased between 1990-1992, 1993-1994, and 1996-1998; declines occurred between 1992-1993, 1994-1996, and the two most recent years (Figure 1). Only 1997 had a smaller number of injuries than 1999. Across these years, 18,942 such injuries occurred or an average of nearly 1,900 a year.

Seven counties listed at least 40 work-related injuries on farms in 1999. Thirty-seven counties had fewer than 10. Four counties (Buchanan, Fayette, Sioux, Winneshiek) reported at least 500 such injuries, led by the 732 in Winneshiek from 1990 through 1999. Twenty-three others had fewer than 100 during the 1990s.

### Fatalities on Farms

In 1999, 49 farm-related fatalities occurred in Iowa. The 1999 figure was similar to those for recent years, although more than 60 occurred in 1990-1992 and 1994 (Figure 2). From 1990 through 1999, 594 farm-related deaths took place in the state.

Of the 34 counties that had fatalities in 1999, three (Carroll, Clayton, Crawford) reported three fatalities, nine had two farm fatalities, and the other 22 had one each. All counties had at least one farm-related fatality from 1990 through 1999. Thirteen counties had 10 or more; Clayton and Pottawattamie each noted 19, the highest number recorded in the state through the 1990s. When single years were examined, no county had more than five farm-related fatalities in any one year.

**Note:** Additional information is available from the Iowa Department of Public Health (Lucas State Office Building, Des Moines, IA 50319).

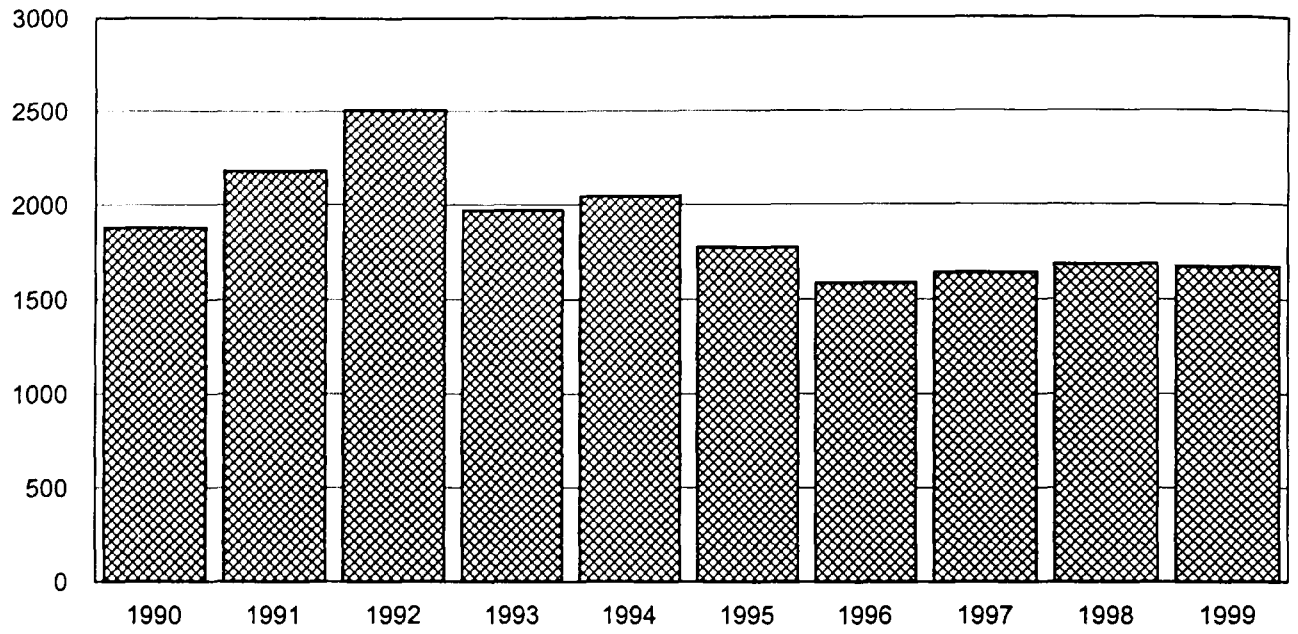
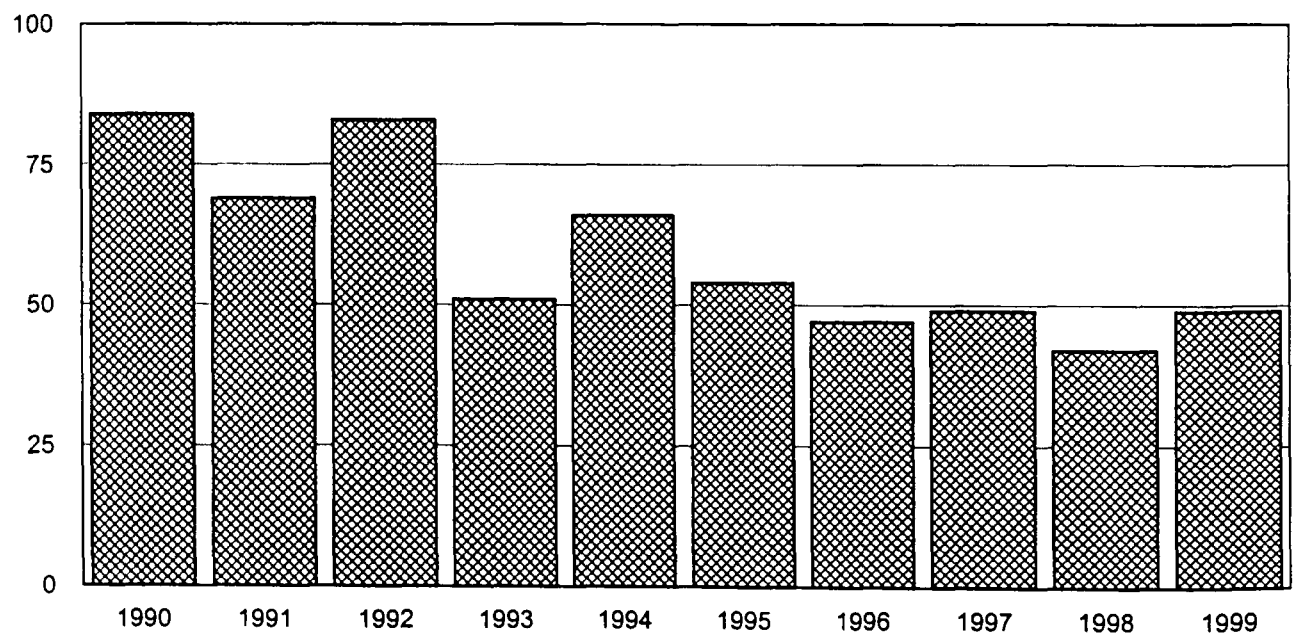
Table 1. Farm-Related Injuries and Fatalities in Iowa's Counties, 1990-1999.

County	Work-Related Farm Injuries										Farm Fatalities									
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Adair	3	3	3	5	4	8	8	24	30	12	0	0	1	0	0	1	1	1	1	0
Adams	14	11	6	14	16	14	17	28	11	26	0	0	1	0	1	0	0	2	0	0
Allamakee	27	17	32	31	31	24	36	24	39	17	0	1	0	1	0	0	0	0	2	1
Appanoose	5	2	3	2	8	3	5	10	5	4	0	1	1	0	1	0	0	0	0	2
Audubon	7	5	8	11	10	23	7	15	4	7	0	0	0	0	0	1	0	2	0	0
Benton	37	17	20	11	11	11	14	46	10	16	1	1	0	0	1	2	1	0	0	1
Black Hawk	25	32	30	26	41	55	24	55	43	7	0	0	0	0	0	0	1	1	1	2
Boone	. <sup>a</sup>	3	7	9	10	8	13	7	19	10	. <sup>a</sup>	0	1	0	0	0	1	1	0	0
Bremer	16	20	22	33	37	34	23	43	36	25	1	0	0	0	0	2	0	2	0	0
Buchanan	41	42	50	61	67	71	51	77	46	32	0	0	1	1	2	1	1	1	0	0
Buena Vista	17	35	6	1	6	1	2	6	4	17	1	2	0	0	1	0	0	1	0	0
Butler	10	26	31	24	33	26	13	20	22	26	0	1	1	0	1	0	0	1	0	0
Calhoun	14	8	3	2	0	13	12	6	7	17	0	1	1	0	0	0	1	0	2	0
Carroll	20	13	24	24	19	24	9	12	4	23	3	0	2	1	1	0	1	0	0	0
Cass	35	18	20	19	21	27	31	25	34	39	2	0	1	1	1	1	0	0	1	2
Cedar	11	10	4	11	15	10	11	20	14	17	0	0	0	0	0	3	0	0	0	0
Cerro Gordo	43	28	29	1	4	0	3	14	6	12	0	0	0	0	1	0	0	1	0	0
Cherokee	9	9	6	8	17	27	7	4	1	7	0	0	0	0	2	0	0	0	1	3
Chickasaw	15	19	8	13	10	11	27	20	23	15	1	0	1	1	0	0	0	1	1	1
Clarke	2	5	3	4	13	18	9	17	1	5	0	0	0	1	0	1	0	1	3	2
Clay	8	7	20	20	15	4	21	17	13	11	0	0	0	0	0	0	2	1	0	0
Clayton	41	30	30	34	25	28	30	38	31	14	3	0	0	1	1	2	2	5	4	1
Clinton	25	12	13	14	14	14	21	24	7	24	0	1	0	1	1	1	1	0	2	1
Crawford	36	48	44	34	25	35	53	45	59	67	3	3	2	1	1	1	1	3	0	2
Dallas	2	7	3	2	3	5	10	8	4	4	0	0	0	0	0	0	1	0	0	0
Davis	18	6	4	15	17	24	22	31	27	13	0	1	0	1	2	1	0	1	1	2
Decatur	5	4	5	5	1	6	8	7	9	18	0	0	2	1	0	2	2	1	1	0
Delaware	49	26	16	27	19	16	15	34	31	44	0	0	0	3	0	2	0	2	3	2
Des Moines	7	10	7	15	12	2	9	13	10	5	0	0	0	0	1	0	2	2	0	1
Dickinson	9	5	5	5	4	4	6	12	4	14	0	0	0	0	0	0	1	0	0	1
Dubuque	38	32	20	13	35	48	64	62	67	70	2	1	0	0	1	2	0	0	1	2
Emmet	13	13	15	22	11	15	1	6	17	19	0	0	0	1	0	2	0	0	1	0
Fayette	42	39	46	61	51	57	66	71	40	37	0	0	0	0	1	0	1	1	0	2
Floyd	16	14	15	6	13	16	16	11	15	15	1	1	0	1	0	1	0	2	0	0
Franklin	19	13	20	15	18	17	12	11	16	13	0	0	0	0	2	2	0	0	1	0
Fremont	7	6	6	2	1	17	10	7	6	9	0	0	0	0	0	2	2	0	0	0
Greene	10	7	14	14	7	14	24	39	26	33	0	0	1	0	1	0	0	1	1	0
Grundy	14	13	21	16	18	20	5	12	24	16	1	0	0	0	1	0	0	0	0	0
Guthrie	14	19	11	5	4	13	10	22	16	12	0	0	0	0	0	0	0	1	0	0
Hamilton	5	4	7	8	5	6	10	14	16	2	0	0	1	0	0	0	1	0	1	0
Hancock	8	25	34	20	22	13	23	32	33	29	0	1	0	0	0	0	1	0	0	1
Hardin	7	8	11	9	14	18	18	11	18	20	1	1	0	0	2	0	0	0	1	0
Harrison	16	22	27	29	19	33	31	26	7	7	0	1	0	0	0	1	0	0	0	1
Henry	9	12	1	6	14	12	3	16	17	18	1	0	0	2	2	0	0	3	2	0
Howard	17	39	24	40	22	32	35	47	38	8	0	0	0	1	0	0	1	0	2	0
Humboldt	8	21	18	24	47	47	66	42	17	4	0	0	0	0	0	0	0	0	0	1
Ia	4	6	5	5	4	0	4	22	10	5	0	2	1	0	0	0	0	0	0	1
Iowa	28	18	27	17	29	18	39	36	44	38	2	0	1	0	0	0	0	0	0	2
Jackson	28	25	22	12	6	16	19	14	13	34	2	1	1	0	1	1	1	4	5	2
Jasper	9	14	15	39	20	28	13	37	30	29	1	0	2	3	0	2	0	4	1	0

<sup>a</sup>Not Available.

Table 1. Farm-Related Injuries and Fatalities in Iowa's Counties, 1990-1999 (continued).

County	Work-Related Farm Injuries										Farm Fatalities									
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Jefferson	11	16	10	21	16	28	27	22	32	19	0	0	0	0	1	1	0	1	0	0
Johnson	29	28	30	22	22	21	32	41	38	41	2	1	0	1	0	1	0	2	0	1
Jones	20	27	19	16	11	28	19	18	26	37	0	0	0	1	1	1	3	0	1	1
Keokuk	23	14	19	30	24	32	40	45	28	36	0	0	0	2	0	2	1	0	0	0
Kossuth	19	14	18	11	18	16	19	13	22	25	0	1	2	1	1	0	1	1	1	2
Lee	21	34	17	31	40	40	32	34	36	17	2	1	0	0	0	0	1	0	0	1
Linn	43	11	11	13	9	19	7	35	15	17	2	0	2	0	1	1	0	1	0	1
Louisa	9	4	5	9	6	9	6	9	5	5	1	1	0	1	1	0	0	1	0	0
Lucas	3	. <sup>a</sup>	5	11	9	12	3	3	11	3	0	. <sup>a</sup>	0	0	0	1	1	0	0	0
Lyon	8	5	11	11	12	19	25	14	21	24	0	0	0	2	0	0	0	0	2	1
Madison	5	4	1	7	7	19	7	9	15	5	0	0	0	0	1	0	0	0	3	0
Mahaska	7	14	23	16	23	31	31	39	25	13	0	0	1	0	0	0	0	1	0	1
Marion	8	2	6	13	21	19	25	14	21	9	0	0	1	3	2	2	1	0	2	3
Marshall	31	26	26	28	52	41	22	26	21	12	0	0	0	0	0	3	0	1	0	1
Mills	7	8	3	1	1	2	6	11	21	6	0	0	0	0	0	0	0	0	1	0
Mitchell	27	24	7	9	19	6	11	26	20	. <sup>a</sup>	0	1	1	3	0	0	1	2	0	. <sup>a</sup>
Monona	11	19	4	7	5	12	8	2	27	8	0	0	0	2	0	0	2	0	0	2
Monroe	7	8	17	4	10	7	28	30	37	26	0	0	0	0	2	0	0	0	1	1
Montgomery	9	7	11	2	5	8	1	24	22	15	0	0	0	0	0	0	0	2	1	0
Muscatine	22	18	10	14	18	16	12	21	12	9	0	1	0	2	1	2	1	0	0	0
O'Brien	26	13	32	16	33	24	39	38	42	39	0	0	1	1	0	0	0	0	0	0
Osceola	16	29	24	. <sup>a</sup>	32	30	2	7	10	13	1	0	1	. <sup>a</sup>	1	0	0	2	0	1
Page	26	7	14	7	5	20	23	19	12	15	1	1	0	1	0	0	1	0	0	0
Palo Alto	7	17	1	5	5	3	5	10	10	20	0	1	0	0	2	0	0	0	0	1
Plymouth	22	24	29	6	22	11	8	22	16	14	1	0	1	0	1	1	1	2	1	2
Pocahontas	10	12	5	6	19	14	12	15	10	15	0	0	0	0	0	0	0	0	0	2
Polk	1	1	2	2	2	3	4	7	3	3	1	1	0	0	0	0	2	0	0	1
Pottawattamie	23	30	19	7	14	24	32	35	35	17	0	1	1	0	1	1	3	5	3	4
Poweshiek	26	36	40	40	33	43	44	36	48	64	1	1	1	0	1	1	0	2	1	0
Ringgold	8	14	18	23	20	20	22	23	20	22	0	0	1	0	0	1	0	1	0	2
Sac	20	26	10	17	6	18	14	24	8	24	2	0	1	0	1	0	0	2	0	0
Scott	32	28	. <sup>a</sup>	1	3	7	14	2	5	4	0	0	. <sup>a</sup>	0	0	1	0	0	0	0
Shelby	6	31	29	13	13	12	13	12	27	38	1	0	0	0	2	1	0	0	1	3
Sioux	41	38	47	22	76	103	60	84	99	69	2	0	3	0	1	3	0	1	1	1
Story	13	9	11	30	11	6	15	42	28	18	0	0	1	0	0	0	2	1	1	0
Tama	18	28	25	27	42	43	18	42	41	14	0	0	1	0	2	1	0	0	3	1
Taylor	11	6	8	10	12	19	25	16	6	9	0	0	0	0	0	0	0	0	1	0
Union	5	2	5	5	2	4	12	8	10	11	1	0	0	0	0	1	0	0	0	0
Van Buren	8	14	9	13	15	24	20	34	26	29	1	3	1	1	1	0	0	0	1	1
Wapello	7	4	7	8	6	32	32	35	28	24	1	0	0	0	0	0	0	0	1	0
Warren	2	2	2	5	3	5	4	8	4	10	1	1	0	2	0	2	0	2	1	1
Washington	26	40	27	35	35	56	48	56	32	35	0	0	1	0	1	0	0	4	0	1
Wayne	33	26	12	10	16	24	29	25	51	13	1	1	1	0	0	1	0	0	0	0
Webster	6	6	4	4	11	15	29	68	8	2	0	2	0	0	0	2	1	2	0	0
Winnebago	4	12	12	5	2	1	3	19	8	9	0	1	0	0	0	0	2	1	2	0
Winneshiek	24	41	61	85	95	98	83	113	93	39	1	1	2	1	0	0	0	0	0	5
Woodbury	14	16	25	13	5	2	8	11	7	6	0	1	1	1	0	1	0	0	0	4
Worth	13	10	16	3	2	2	. <sup>a</sup>	4	3	3	0	0	0	0	0	0	. <sup>a</sup>	0	1	1
Wright	39	52	73	49	38	12	6	16	12	8	0	1	2	0	0	1	1	0	0	2
State of Iowa	1670	1685	1641	1587	1774	2046	1971	2507	2181	1880	49	42	49	47	54	66	51	83	69	84

**Figure 1. Work-related injuries on farms in Iowa, 1980–1999.****Figure 2. Farm-related fatalities in Iowa, 1990–1999.**



## Marriages and Dissolutions in Iowa's Counties:

### 1974, 1979, 1984, and 1989-1999

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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 also are included.

#### Marriages

Iowa recorded 22,029 marriages in 1999, 420 more than in 1998 (Table 1, Figure 1). This was only the 3<sup>rd</sup> time since 1989 that there had been an increase in marriages over the previous year; declines occurred each year from 1989 to 1993, 1994 to 1995, and 1996 to 1998. The largest year-to-year drop of the period was between 1984 and 1985 (-1,788).

In 1999, Polk's 2,912 marriages constituted the highest number in any county. Linn and Scott also had more than 1,000 marriages that year. Forty-three counties had fewer than 100 marriages in 1999, with counts less than 50 in Adair, Adams, Audubon, Ringgold, and Worth.

Sixty-three of the counties followed the state trend with more marriages in 1999 than in 1998. Story and Woodbury each increased by at least 50, while Chickasaw and Scott decreased by a like amount. About 3,200 fewer marriages occurred in Iowa in 1999 than in 1989. Seventy-four counties mirrored this trend. Eleven had at least 100 fewer marriages in 1999 than in 1989. Increases occurred in 24 counties, although none was greater than 50. When 1979 and 1999 were examined, the decline in the state was even greater; 5,900 more marriages were counted at the beginning of the period than at the end.

#### Dissolutions

There were 9,737 dissolutions in Iowa in 1999. This was the third consecutive year that the total was less than 10,000; that hadn't occurred since the years before 1975. Between 1989 and 1999, there were seven times when dissolutions decreased compared with the previous year and four times when they increased (Table 2, Figure 1). 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 decrease followed the year (1981) in which the number of dissolutions was the highest ever recorded in Iowa. The decrease of 143 between 1998 and 1999 represented a relatively small change between adjacent years in the 1989-1999 period.

Dissolutions were highest in 1999 in Polk, the only county with more than 1,000. Other counties with at least 300 dissolutions that year were Johnson, Linn, Pottawattamie, Scott, and Woodbury. Forty-eight counties reported fewer than 50.

Between 1998 and 1999, the number of dissolutions decreased in 51 counties and increased in 45. Increases were 10 or more in 19 counties, with only the gain of 95 in Linn greater than 50. Among the counties with fewer dissolutions in 1999 than in 1998, 26 declined by 10 or less. The largest drops occurred in Dubuque and Pottawattamie, the only counties where the number of dissolutions declined by at least 50.

Table 1. Marriages in Iowa's Counties, 1974, 1979, 1984, and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Adair	43	47	37	57	37	59	34	43	49	63	49	82	50	88
Adams	33	36	27	42	33	29	31	20	24	24	35	38	46	53
Allamakee	108	102	105	119	124	129	121	123	110	134	133	150	176	191
Appanoose	124	132	106	129	100	130	129	131	121	157	113	112	145	144
Audubon	29	50	36	45	31	42	49	47	45	48	48	71	65	88
Benton	148	143	147	153	141	150	174	159	150	156	157	169	182	190
Black Hawk	940	945	954	961	1002	974	1007	865	935	1074	1097	1066	1289	1225
Boone	180	170	178	177	191	164	179	196	208	179	202	209	247	232
Bremer	167	181	179	180	173	160	182	183	162	169	203	209	249	175
Buchanan	170	167	147	163	138	140	162	159	178	174	174	170	219	213
Buena Vista	141	124	164	143	163	136	150	167	149	164	165	171	210	173
Butler	88	85	94	93	91	92	87	98	111	97	81	123	133	154
Calhoun	80	76	52	72	70	67	65	72	70	80	71	110	113	118
Carroll	162	145	150	151	170	178	155	155	147	189	191	206	223	257
Cass	99	99	110	111	119	114	109	122	119	150	141	181	167	156
Cedar	113	103	109	119	125	118	129	153	117	139	121	134	135	146
Cerro Gordo	340	330	333	364	371	365	347	375	384	406	371	361	443	475
Cherokee	81	95	107	101	95	96	94	94	125	94	107	124	134	147
Chickasaw	563	644	580	611	623	601	690	630	721	806	751	897	874	941
Clarke	66	55	48	60	65	68	55	53	67	59	73	64	81	73
Clay	114	119	107	88	111	103	110	127	130	162	123	143	178	181
Clayton	138	131	136	139	150	121	136	155	141	149	162	166	183	197
Clinton	407	421	415	425	414	461	400	437	464	447	591	571	605	579
Crawford	98	118	122	149	146	141	132	128	142	131	119	152	144	151
Dallas	264	255	245	255	265	237	230	175	219	229	228	248	270	213
Davis	76	70	59	51	60	61	66	72	58	57	69	72	68	69
Decatur	74	45	60	88	61	66	59	81	60	67	66	75	82	83
Delaware	129	106	118	107	135	132	118	127	116	137	149	162	181	159
Des Moines	367	332	344	401	377	366	380	427	460	487	572	491	513	443
Dickinson	147	146	132	150	147	152	141	149	158	130	147	150	138	115
Dubuque	739	721	745	758	806	879	796	865	875	888	938	920	954	939
Emmet	75	83	101	87	79	87	78	81	93	107	87	115	117	145
Fayette	138	140	127	152	147	132	156	169	160	193	185	182	222	222
Floyd	97	95	109	110	120	119	124	124	133	134	123	160	154	178
Franklin	62	69	70	67	69	71	75	70	89	73	73	100	98	94
Fremont	60	75	68	70	65	81	71	72	54	75	73	80	78	86
Greene	81	62	72	70	72	76	73	66	93	107	104	86	94	110
Grundy	89	64	63	70	69	82	80	60	72	76	91	101	96	114
Guthrie	78	91	80	96	85	80	82	85	82	106	87	92	119	108
Hamilton	112	111	105	100	123	136	123	143	124	129	148	146	156	149
Hancock	84	66	78	83	99	75	84	93	93	95	82	100	121	115
Hardin	131	107	139	128	150	145	153	140	137	136	153	207	203	192
Harrison	92	113	101	103	92	100	105	114	130	124	134	145	144	155
Henry	129	157	137	164	159	158	152	171	164	156	171	168	162	143
Howard	75	63	69	69	77	74	61	70	83	75	88	106	114	155
Humboldt	75	62	56	68	71	91	82	64	90	89	67	109	109	107
Ida	56	53	46	72	51	46	65	51	46	63	61	66	84	76
Iowa	91	93	92	97	81	104	90	123	110	129	106	118	110	128
Jackson	160	142	144	152	190	157	157	192	148	184	195	177	218	190
Jasper	246	235	269	284	271	269	264	264	260	289	271	296	359	350

Table 1. Marriages in Iowa's Counties, 1974, 1979, 1984, and 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Jefferson	121	119	145	122	136	129	140	171	150	158	155	170	171	137
Johnson	639	676	668	689	651	710	637	653	685	770	774	734	679	622
Jones	134	140	129	151	133	135	145	144	145	155	146	138	162	176
Keokuk	87	67	82	78	66	69	72	64	84	101	77	111	120	119
Kossuth	113	120	136	123	112	142	117	131	119	154	145	160	169	216
Lee	318	359	337	377	376	383	368	359	365	396	487	446	446	399
Linn	1356	1331	1414	1422	1394	1436	1471	1516	1493	1525	1519	1507	1548	1392
Louisa	73	70	84	83	76	83	61	82	76	69	92	101	95	97
Lucas	78	37	72	67	58	55	46	66	64	70	64	89	93	75
Lyon	89	73	69	66	80	61	86	87	71	77	78	101	110	120
Madison	138	124	138	158	135	103	126	97	82	97	101	104	108	93
Mahaska	196	190	156	208	170	201	175	202	195	189	201	202	211	222
Marion	248	243	249	238	237	227	252	239	251	326	258	272	282	259
Marshall	327	284	353	350	364	343	330	353	339	341	346	365	380	410
Mills	73	77	96	88	83	94	96	80	92	105	98	107	105	102
Mitchell	64	65	66	69	70	65	77	68	75	93	80	111	107	140
Monona	57	64	47	70	68	61	82	72	86	83	85	87	117	106
Monroe	57	48	70	57	72	83	72	63	68	73	61	76	100	72
Montgomery	103	92	95	105	93	96	104	100	113	99	97	101	127	118
Muscatine	391	389	383	406	422	322	410	355	402	421	429	375	397	327
O'Brien	106	91	105	107	96	111	107	109	97	120	124	112	158	167
Osceola	59	44	53	43	47	44	51	46	55	58	66	51	81	84
Page	115	102	110	123	108	130	146	130	111	144	107	163	186	222
Palo Alto	80	77	58	70	71	69	61	70	94	87	73	96	145	120
Plymouth	138	141	146	154	143	146	155	165	188	169	170	183	224	229
Pocahontas	64	63	52	60	49	42	54	54	56	57	70	95	109	104
Polk	2912	2876	2972	2840	2957	3112	3040	3013	3001	3217	3187	3130	3119	2883
Pottawattamie	740	750	783	823	751	787	731	772	819	938	894	1085	987	1087
Poweshiek	109	113	111	117	123	132	129	149	143	154	143	152	168	142
Ringgold	33	42	32	33	34	45	43	30	39	39	36	58	49	64
Sac	74	85	91	89	106	82	77	71	93	94	101	109	120	125
Scott	1263	1321	1236	1345	1312	1300	1385	1391	1484	1354	1726	1483	1555	1337
Shelby	104	101	92	103	85	98	125	87	111	120	125	136	142	142
Sioux	247	203	227	233	216	229	231	203	222	221	208	245	266	285
Story	547	495	484	516	464	510	496	517	468	490	513	530	570	522
Tama	138	130	144	158	108	107	112	127	122	143	144	134	163	178
Taylor	53	46	51	41	43	48	58	52	50	55	50	67	85	68
Union	123	100	93	85	108	112	93	115	123	113	121	101	114	128
Van Buren	68	61	47	65	57	69	47	57	53	56	57	49	68	75
Wapello	320	327	282	321	330	320	334	351	363	365	317	392	426	426
Warren	280	263	254	287	293	281	291	307	292	333	304	284	269	270
Washington	154	152	123	173	160	158	157	153	153	137	140	176	199	178
Wayne	57	51	54	64	51	48	55	47	47	51	56	75	78	67
Webster	312	301	316	281	318	333	313	323	330	354	345	411	451	416
Winnebago	82	99	93	97	92	95	73	94	99	87	74	114	122	141
Winneshiek	133	159	137	131	158	149	149	158	130	180	158	184	159	190
Woodbury	751	654	789	774	752	815	716	761	714	760	752	844	914	889
Worth	49	42	41	51	51	45	45	51	48	66	63	74	68	124
Wright	97	78	72	96	90	95	89	84	97	81	104	125	148	159
State of Iowa	22029	21609	21909	22711	22573	22924	22822	23129	23533	24931	25267	26366	27925	27209

Table 2. Dissolutions in Iowa's Counties, 1974, 1979, 1984, and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Adair	23	28	27	30	24	27	26	30	21	30	24	39	19	25
Adams	14	13	7	17	15	16	20	14	18	18	11	9	16	5
Allamakee	32	27	26	42	33	32	52	44	31	26	38	33	33	35
Appanoose	30	31	55	61	61	53	53	67	64	54	66	55	57	64
Audubon	14	19	19	21	17	22	18	20	15	23	10	21	14	21
Benton	72	71	82	91	55	81	66	64	80	68	81	45	58	43
Black Hawk	265	264	313	328	400	405	490	553	496	493	523	564	683	592
Boone	94	126	112	105	95	120	110	97	123	96	104	95	139	88
Bremer	58	72	62	68	63	59	84	73	66	70	54	76	46	46
Buchanan	63	49	56	46	53	60	63	51	64	67	56	61	61	62
Buena Vista	59	68	75	58	71	67	49	57	75	75	63	54	51	29
Butler	41	35	28	51	50	40	38	36	40	45	33	42	48	24
Calhoun	26	20	33	26	31	43	28	31	27	39	27	32	31	30
Carroll	65	69	67	53	56	65	62	74	66	48	78	52	39	28
Cass	59	57	54	70	74	53	61	57	50	56	61	67	52	42
Cedar	40	52	52	55	48	44	61	49	64	47	69	39	58	38
Cerro Gordo	152	159	132	161	168	186	198	159	179	166	186	191	164	186
Cherokee	30	28	45	42	50	47	45	36	45	48	50	63	64	35
Chickasaw	50	38	41	20	39	32	37	40	43	28	29	32	29	33
Clarke	23	16	24	28	38	44	38	39	29	44	39	30	31	25
Clay	56	59	67	58	70	71	82	68	75	87	72	63	104	62
Clayton	44	48	45	63	46	56	43	53	41	41	44	43	58	46
Clinton	180	159	144	133	190	183	155	196	204	191	152	218	277	213
Crawford	58	73	64	51	65	65	65	63	67	73	77	66	46	38
Dallas	106	84	40	140	116	160	119	112	126	116	111	118	107	94
Davis	23	39	27	38	36	33	30	27	32	37	26	28	33	18
Decatur	28	28	19	32	42	28	23	31	36	29	32	29	29	34
Delaware	47	42	44	46	31	44	41	54	52	41	48	34	28	39
Des Moines	216	182	161	134	103	123	157	167	184	188	162	182	191	208
Dickinson	64	62	68	52	62	51	57	58	72	63	70	50	64	55
Dubuque	253	310	292	288	297	278	307	275	302	315	274	261	258	247
Emmet	41	20	33	43	37	38	42	26	26	37	38	44	44	31
Fayette	59	79	63	72	80	68	61	74	55	82	64	67	60	45
Floyd	65	46	61	49	74	82	48	41	52	57	57	56	78	47
Franklin	24	42	29	44	41	40	37	39	36	32	32	37	34	25
Fremont	26	23	25	33	27	36	30	40	40	33	31	26	34	24
Greene	45	32	28	21	46	41	46	31	41	38	40	22	34	36
Grundy	39	39	38	26	33	38	35	39	22	27	27	30	32	27
Guthrie	44	44	38	46	41	48	58	46	41	42	40	34	45	25
Hamilton	60	47	76	67	79	68	76	87	55	66	60	55	66	35
Hancock	22	29	24	33	39	32	31	24	40	26	21	32	53	30
Hardin	59	55	62	66	77	68	71	60	74	69	68	58	62	49
Harrison	60	54	61	56	63	50	49	58	46	61	57	56	45	34
Henry	113	72	71	85	92	87	82	96	99	86	73	64	73	56
Howard	21	19	28	21	21	27	16	29	33	27	19	22	15	17
Humboldt	39	27	33	26	25	41	45	32	37	29	39	39	38	28
Ida	22	24	25	27	30	22	42	29	36	17	24	17	25	19
Iowa	46	39	47	62	51	49	43	46	38	49	52	45	51	26
Jackson	53	57	57	50	59	67	63	76	63	53	50	48	34	46
Jasper	84	66	52	66	67	84	124	128	145	156	158	117	157	121

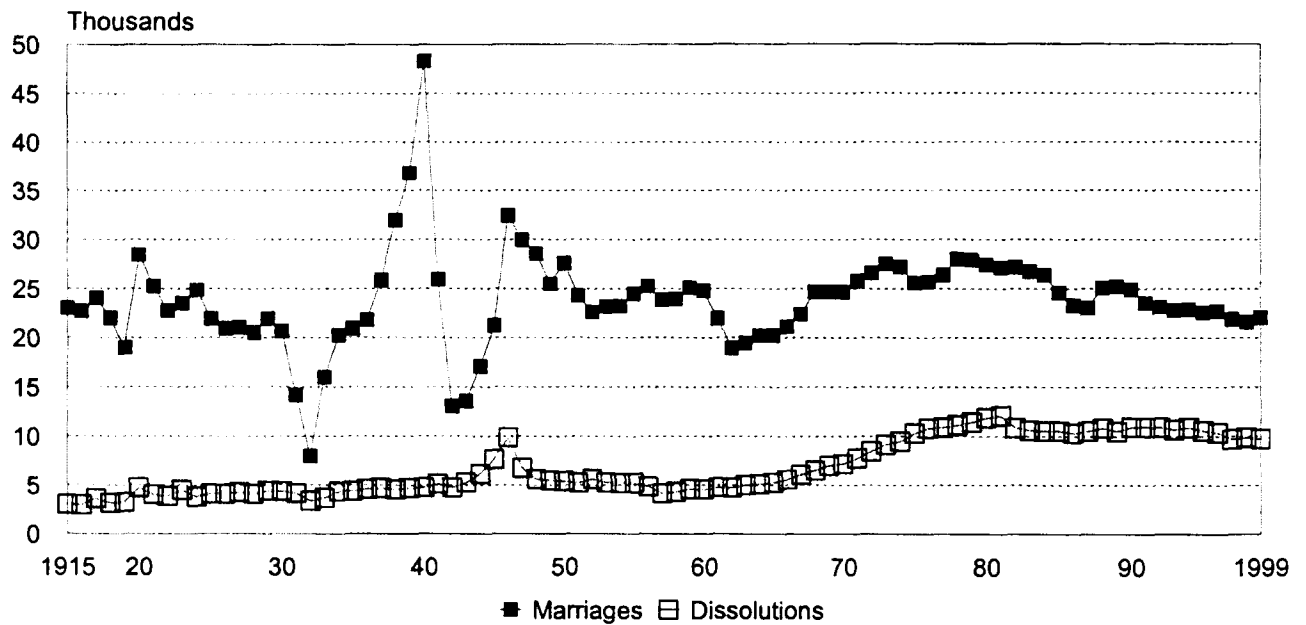
Table 2. Dissolutions in Iowa's Counties, 1974, 1979, 1984, and 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979	1974
Jefferson	69	81	78	68	82	111	96	112	94	85	90	82	50	45
Johnson	304	290	270	273	270	298	238	283	253	237	216	289	370	325
Jones	62	81	90	65	68	57	54	67	57	69	55	65	56	39
Keokuk	12	11	19	23	24	21	26	26	25	12	31	21	30	26
Kossuth	36	31	44	38	59	37	48	43	44	40	38	49	59	33
Lee	142	114	122	139	144	157	157	168	143	203	151	186	198	192
Linn	733	638	572	648	692	600	648	655	647	606	566	576	533	430
Louisa	49	39	39	48	49	61	54	52	44	43	54	37	50	30
Lucas	30	43	42	47	41	47	46	46	47	39	40	38	45	40
Lyon	15	22	13	28	23	27	21	16	19	11	19	13	24	13
Madison	39	69	58	51	54	44	49	47	54	62	50	27	48	31
Mahaska	85	91	108	109	124	124	116	118	132	125	96	107	79	77
Marion	103	122	111	117	125	118	139	107	106	127	122	122	106	83
Marshall	131	151	188	179	191	191	194	221	182	195	174	152	193	184
Mills	56	52	50	42	67	56	58	53	47	54	48	59	58	35
Mitchell	26	35	33	30	33	37	27	25	29	27	20	24	25	15
Monona	22	41	26	40	34	43	33	29	26	25	32	26	40	30
Monroe	37	38	30	28	24	38	31	32	37	38	28	27	17	22
Montgomery	51	57	61	70	75	56	64	58	51	44	68	62	58	48
Muscatine	211	220	192	207	197	219	220	255	187	212	219	225	258	187
O'Brien	44	35	31	43	39	35	45	39	40	41	35	32	31	22
Osceola	18	14	9	16	20	13	19	14	17	16	18	12	20	13
Page	55	76	63	74	55	76	70	90	89	70	75	63	85	78
Palo Alto	25	33	13	31	34	33	28	20	22	22	29	34	23	10
Plymouth	69	75	71	63	61	59	64	74	56	65	47	63	45	33
Pocahontas	35	23	17	25	31	23	20	29	21	30	27	27	27	8
Polk	1433	1452	1527	1677	1529	1761	1608	1709	1810	1642	1665	1578	1747	1558
Pottawattamie	378	438	413	434	499	418	446	499	466	465	465	434	494	439
Poweshiek	62	77	84	65	59	69	70	77	69	71	82	58	76	49
Ringgold	24	16	19	16	17	15	14	17	18	21	21	28	19	19
Sac	34	37	35	30	36	31	39	30	37	32	29	30	29	32
Scott	617	633	601	648	630	719	679	677	649	725	664	736	866	742
Shelby	48	34	40	36	39	36	35	44	39	37	41	33	42	21
Sioux	52	45	56	59	57	48	57	48	53	48	41	46	32	20
Story	169	195	177	178	184	231	172	124	212	208	211	207	234	190
Tama	69	54	38	55	51	62	51	54	49	58	65	56	52	47
Taylor	22	24	17	15	24	24	27	17	20	12	15	25	25	30
Union	54	51	46	48	56	64	52	54	51	74	63	60	42	52
Van Buren	27	34	32	23	43	30	28	31	36	40	26	22	27	15
Wapello	151	172	153	187	153	188	158	148	197	204	157	224	245	172
Warren	107	105	122	168	139	134	144	133	135	149	128	120	133	94
Washington	63	74	52	61	86	67	64	68	79	86	60	66	49	33
Wayne	27	22	25	20	23	14	24	28	22	30	32	31	20	27
Webster	162	184	185	164	180	174	203	163	173	177	184	168	186	148
Winnebago	39	45	34	46	43	39	43	46	34	35	31	49	50	27
Winneshiek	42	47	40	55	49	48	41	41	43	50	45	48	53	34
Woodbury	431	454	476	478	472	464	428	467	443	447	449	431	538	403
Worth	24	26	16	24	23	28	21	30	21	23	20	19	31	22
Wright	36	37	42	57	56	66	54	44	48	72	45	61	40	31
State of Iowa	9737	9880	9712	10347	10545	10885	10700	10924	10939	10913	10507	10509	11426	9480

Across the state, there were 770 fewer dissolutions in 1999 than in 1989. More than half (58) of the counties followed that trend. Thirty-seven counties had more dissolutions at the end of the period than at the beginning, while four had the same number both years. The comparison of 1979 and 1999 continued these trends. Nearly 1,700 fewer dissolutions occurred at the end of the period than the beginning. Declines of at least 100 took place in Black Hawk, Polk, Pottawattamie, Scott, and Woodbury. Linn was the only county with an increase of at least 100 when 1979 and 1999 were compared.

**Note:** See an annual publication called VITAL STATISTICS OF IOWA for additional data on marriages and dissolutions (Iowa Department of Public Health, Lucas State Office Building, Des Moines, IA 50319).

**Figure 1. Marriages and dissolutions in Iowa, 1915–1999.**



## Employment and Unemployment in Iowa's Counties: 1979, 1984, and 1989-1999

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Iowa's labor force was estimated to include 1,574,000 people in 1999 (Table 1). The state's labor force generally declined from 1979 through 1984. The pattern changed back to growth from 1984 to 1985 and increases occurred each year until a decline took place from 1989 to 1990. Gains occurred through 1994, with the years following alternating between decline and growth. Labor force data include persons who are unemployed and looking for work as well as those who are already employed. This information is estimated by Iowa Workforce Development (formerly the Iowa Department of Employment Services) in cooperation with the Bureau of Labor Statistics of the U.S. Department of Labor; the methods used are consistent from state to state. The information on unemployment includes the number of persons receiving unemployment benefits plus an estimate of the number unemployed who do not receive such benefits. The data on employment are derived from monthly surveys of those employed in nonfarm jobs plus estimates of those self-employed and those working on farms. Additional factors are applied to account for multiple job holders, commuters, and new and re-entering workers.

In 1999, Polk County had 210,700 in the labor force, nearly double the next highest county (Linn, 112,600). Adams and Ringgold, in contrast, reported fewer than 3,000 in the labor force. Linn's labor force increased by 14,900 between 1989 and 1999. Black Hawk, Johnson, and Polk were the only others with gains of more than 5,000. Although Iowa had 61,300 more people in the labor force in 1999 than in 1989, 41 counties had a smaller labor force at the end of the period. Of these 41 counties, only Floyd, Hamilton, Henry, Louisa, Pottawattamie, Winnebago, and Wright declined by as much as 1,000, however.

### Employment

Employment in Iowa in 1999 (1,534,100) was more than 9,000 above that for 1998 (Table 2). In Iowa's counties in 1999, the number employed ranged from fewer than 3,000 in Adams, Ringgold, and Wayne to more than 200,000 in Polk. Five urban counties (Black Hawk, Johnson, Linn, Scott, Woodbury), in addition to Polk, had more than 50,000 employed in 1999.

The state had 86,100 more employed persons in 1999 than in 1989, an increase of 5.9 percent. Linn increased the most (+16,400) and Polk was second (+14,700); these were the only counties with gains of at least 7,000 employees. Linn and Polk together accounted for more than a third (36.1%) of the state's gain in employment from 1989 to 1999. Thirty-two counties had lower numbers employed in 1999 than in 1989, although only Hamilton, Henry, Louisa, Winnebago, and Wright had decreases greater than 1,000 during this period.

Between 1989 and 1999, employment increased more than 20 percent in four counties (Dallas, Hancock, Madison, Washington); another 21 counties had gains of 10-19 percent. Declines from 1989 to 1999 of at least 20 percent occurred in Adams, Louisa, and Winnebago; 12 others noted decreases in the number employed of at least 10 percent but less than 20 percent between 1989 and 1999.

### Unemployment

Unemployment figures for Iowa during this period reflect the economic difficulties encountered by the state in the first half of the 1980s; nearly 100,000 were unemployed in 1984 (Table 3). For four of the

Table 1. Labor Force Estimates in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	4450	4190	4280	4410	4460	4330	4150	4180	4010	4010	4550	4420	4610
Adams	2270	2140	2310	2390	2390	2460	2370	2410	2410	2430	3100	3030	2640
Allamakee	7430	7300	7580	7740	7600	7680	7480	7410	7250	7160	7680	7380	7160
Appanoose	6730	6680	6770	6700	6630	6810	6790	6710	6600	6340	6530	5910	6150
Audubon	3530	3400	3570	3740	3670	3710	3650	3820	3740	3600	3510	3880	4110
Benton	11730	11620	11930	12120	11780	11750	11670	11330	11080	11400	10790	10660	11040
Black Hawk	67400	69200	68800	68700	67800	68100	69200	66200	64000	62100	61400	61700	68900
Boone	14130	13970	14050	14030	13630	13710	13460	13030	12830	12600	12800	12070	12570
Bremer	12400	12600	12800	12700	12300	12400	12700	12300	11900	11400	10700	10600	10600
Buchanan	11020	11040	10940	10920	10690	10650	10380	10030	9840	9550	9950	10130	10940
Buena Vista	11060	10780	10840	11110	11020	11160	11090	10790	10500	10000	11350	10930	10570
Butler	7680	7690	7850	8130	8070	8260	7930	7890	7560	7320	7450	7920	8190
Calhoun	4890	4790	4990	5190	5170	5180	5270	5190	5040	4960	5510	5790	6120
Carroll	12530	12580	12410	12140	11900	12010	12120	11560	10980	10690	11720	11200	11610
Cass	7560	7480	7730	7730	7680	7770	7790	7720	7510	7530	8520	8780	8920
Cedar	9390	9260	9630	9680	9460	9670	9670	9300	9220	9070	9670	9020	8550
Cerro Gordo	26040	26250	26680	26980	26100	25980	25980	25510	25810	25170	26370	24710	24200
Cherokee	6980	6720	6990	7070	6910	7080	7050	6950	6880	6710	7010	7550	7830
Chickasaw	7780	7490	7560	7770	7690	7600	7480	7270	7100	7060	7320	7350	7100
Clarke	4570	4320	4200	4030	3870	4000	4090	4220	4360	4220	4590	3920	4570
Clay	9810	9920	10150	10150	9660	9650	9410	9060	8850	8960	9270	9150	10340
Clayton	10400	10220	10730	10830	10450	9620	9680	9620	9200	9190	10200	10110	10460
Clinton	26690	26700	27280	27720	26920	27120	27390	27020	26150	25530	23820	23940	27630
Crawford	8810	8790	8940	8970	8790	8850	8880	8660	8430	8500	8980	9250	9810
Dallas	20100	20200	19700	19400	18300	18100	17800	17100	16400	16100	17000	15800	13200
Davis	4160	4130	4160	4350	4330	4340	4280	4100	4010	3860	3840	3760	3650
Decatur	3630	3730	3800	3820	3930	4030	3950	3890	3850	3790	3930	4090	3960
Delaware	9610	9350	9560	9550	9180	9340	9080	9070	8970	8790	8880	8760	8790
Des Moines	23140	23320	23430	23900	23410	23600	23710	23060	22440	22030	23100	21520	19550
Dickinson	9610	9680	9900	10170	9720	9540	9500	8850	8280	8030	9780	8670	7560
Dubuque	48500	48700	49500	50500	49900	50100	49900	48400	47300	46000	44900	41900	45600
Emmet	5620	5680	5780	5720	5550	5650	5760	5770	5690	5540	5050	5690	6260
Fayette	11170	11000	11360	11490	11410	11500	10790	10660	10400	10260	10550	11470	11790
Floyd	7720	7560	8010	8380	8110	8480	8710	8760	8620	8550	8730	8620	8130
Franklin	5930	5930	6010	6120	6040	6070	5870	5840	5690	5730	5290	5670	6490
Fremont	3800	3620	3760	3890	3940	3990	3930	3820	3710	3730	4300	4840	5620
Greene	5090	4940	4940	5220	5120	5250	5290	5240	4990	4880	5230	5400	5660
Grundy	6210	6050	6200	6080	5980	6240	6110	6030	5820	5780	6770	6980	6190
Guthrie	6030	5910	6040	6050	5890	5820	5880	5640	5650	5440	5390	5280	5530
Hamilton	8550	8240	8510	8630	8550	8700	8520	8760	8480	8350	10400	9270	8720
Hancock	9720	9190	9280	6030	6100	6090	5900	5920	5990	6220	6430	6100	7280
Hardin	9440	9450	9550	9630	9570	9610	9580	9490	9430	9380	9580	10120	10970
Harrison	7910	7570	7710	7730	7480	7620	7610	7430	7220	7100	6960	7080	7220
Henry	10900	10920	11130	11220	11100	11070	10830	10530	10170	10020	12280	9460	10120
Howard	5550	5470	5450	5450	5340	5280	4890	4890	4690	4600	5030	5030	5470
Humboldt	5490	5620	5630	5580	5340	5380	5250	5140	5000	4960	5330	5550	5550
Ida	4140	4000	4210	4250	4100	4150	4080	3850	3760	3880	4740	4150	4450
Iowa	9340	9200	9320	9520	9200	9470	9390	9010	8390	7990	8620	8270	8940
Jackson	10540	10260	10550	10770	10390	10950	10920	10610	10270	9990	10880	10130	10380
Jasper	19110	18860	19150	18890	18460	18410	18160	17990	17950	17860	17950	17370	16390



Table 1. Labor Force Estimates in Iowa's Counties, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	9620	10030	10340	9860	9550	9740	9560	9000	8590	8490	9220	7980	7850
Johnson	67100	66300	64900	65200	64300	64600	63800	60300	58400	57500	62000	54000	42900
Jones	9870	9500	9750	9860	9630	9570	9440	9570	9330	9300	9430	8780	9920
Keokuk	5180	5160	5350	5290	5050	5150	5160	5230	5260	5320	5820	5770	5410
Kossuth	8870	8760	9110	9060	8730	8950	8810	8960	8900	8830	9250	9760	11490
Lee	18940	19320	19680	20040	19640	19710	19660	19590	19480	18870	18450	18810	21760
Linn	112600	110500	108800	109100	107000	105900	104700	99900	96700	96600	97700	84000	88500
Louisa	5410	5270	5770	6600	6480	6460	6560	6360	6090	5900	7800	4960	4550
Lucas	4060	4030	3970	3980	4080	4380	4400	4430	4290	4260	4940	4990	4570
Lyon	5560	5570	5830	5910	5750	5870	5930	5900	5650	5650	6170	5720	6450
Madison	7640	7580	7490	7690	7470	7390	7040	6480	6370	6360	6170	5640	5960
Mahaska	11220	11250	11320	11080	11070	11290	11120	10820	10580	10530	10500	9940	10320
Marion	18120	17940	18050	18120	17500	17050	17130	16390	15890	15730	16370	13930	16000
Marshall	20280	20390	20530	21050	20770	21030	20770	20240	20150	19980	20280	20510	19110
Mills	6290	5930	6110	6300	6180	6590	6550	6600	6550	6420	5610	6050	6420
Mitchell	5510	5430	5620	5740	5680	5710	5500	5300	5170	5150	5830	5650	5930
Monona	4960	4990	5320	5170	5170	5200	5170	4820	4440	4460	4780	5100	5430
Monroe	4090	4140	4170	4180	4240	4180	4100	3940	3910	3730	4000	3810	4940
Montgomery	5900	6000	6260	6390	6030	6190	6150	6000	5990	6110	6460	6320	6690
Muscatine	21380	21590	21130	21910	21350	21470	21880	21480	20900	20830	21630	20480	19800
O'Brien	7910	7740	7970	8100	7900	8010	7940	7640	7420	7310	8080	7900	7730
Osceola	3910	3620	3730	3830	3690	3680	3640	3700	3580	3510	3540	3690	3590
Page	8980	8830	9260	9380	9090	9230	8980	8570	8160	8120	8450	8750	9190
Palo Alto	5390	5280	5510	5560	5260	5380	5300	5230	4910	4840	5240	5640	5380
Plymouth	13010	12440	12980	13060	12670	12980	12910	12600	12350	11810	12510	11650	11440
Pocahontas	4090	4150	4310	4390	4320	4320	4250	4330	4310	4340	4960	5000	4890
Polk	210700	211900	211000	213700	209400	208800	208700	200100	193300	189500	199100	166800	164500
Pottawattamie	47500	47700	47600	47800	46400	46500	46700	45000	43900	43600	48700	46100	43500
Poweshiek	10240	10180	10290	10460	10370	10400	10370	10170	9800	9970	10920	9490	10320
Ringgold	2650	2510	2620	2720	2620	2720	2680	2700	2610	2560	2580	2670	3270
Sac	5880	5920	6160	6040	5980	6130	6040	6070	5900	5860	5690	6030	6400
Scott	84900	85500	84600	84500	82500	83700	85500	83400	80600	78600	82800	72800	73800
Shelby	6870	6740	7090	7180	6740	6880	6830	6720	6660	6540	6850	7050	6460
Sioux	17490	17510	17730	17450	16990	17210	16880	16120	15450	15260	16390	14890	16070
Story	45870	45420	45250	45750	44700	45570	44910	43030	41920	41750	42550	38500	38230
Tama	9380	9040	9290	9570	9670	9480	9110	8170	8160	8220	8870	8440	9610
Taylor	3390	3230	3300	3470	3380	3300	3230	3220	3280	3090	3360	3640	3490
Union	6610	6460	6470	6460	6310	6310	6470	6320	6050	6060	6620	6320	7360
Van Buren	4030	4200	4330	4170	4040	4050	4030	3840	3720	3610	3630	3700	3760
Wapello	17500	17430	17890	18560	18240	18510	18540	17900	17410	16880	15840	16910	17280
Warren	23000	23100	22900	23200	22700	22600	22500	21500	20700	20300	20600	18900	18500
Washington	11240	11220	11410	11530	11180	11210	11160	10960	10680	10390	9520	9690	10040
Wayne	3020	2990	3210	3390	3350	3390	3290	3310	3140	3200	3280	3370	3820
Webster	20330	20120	20010	20240	20240	20260	20270	19880	19530	19460	20810	21180	22960
Winnebago	4670	4670	4820	7000	6690	6790	6700	6370	5970	6410	7640	7330	6800
Winneshiek	12240	11910	12200	12350	12030	12060	11920	11770	11430	11280	13120	11840	10990
Woodbury	53800	54400	55200	56100	55000	54900	55100	52800	51300	50100	52300	48400	48900
Worth	4080	4110	4140	4230	4070	4070	4090	3940	4010	4030	4980	4550	3890
Wright	6780	6850	7010	7260	7310	7040	7020	7210	7180	7100	7970	8350	7870
State of Iowa	1574300	1568400	1579400	1593100	1559500	1566200	1559900	1511700	1470400	1448000	1513000	1411000	1425000

Table 2. Estimates of the Number Employed in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	4340	4090	4150	4260	4300	4190	4010	4040	3890	3920	4380	4220	4450
Adams	2220	2070	2170	2170	2320	2380	2290	2310	2300	2340	3000	2890	2530
Allamakee	7140	6950	7240	7350	7210	7310	7130	6970	6850	6760	7220	6690	6720
Appanoose	6460	6390	6460	6330	6260	6440	6440	6290	6180	5910	6120	5280	5710
Audubon	3440	3300	3450	3610	3550	3610	3570	3710	3630	3480	3380	3600	4000
Benton	11420	11270	11520	11630	11280	11270	11210	10780	10500	10820	10300	9950	10710
Black Hawk	64800	66700	66200	65600	64800	64700	65400	62000	60000	58600	58100	54300	65700
Boone	13840	13650	13660	13650	13220	13240	12970	12460	12200	12070	12300	11400	12140
Bremer	12000	12300	12500	12400	12000	12100	12200	11700	11300	11000	10300	9800	10300
Buchanan	10620	10600	10500	10390	10210	10140	9800	9380	9260	9040	9440	9090	10520
Buena Vista	10830	10570	10600	10830	10760	10860	10790	10500	10250	9740	11100	10440	10320
Butler	7340	7370	7520	7700	7660	7800	7500	7360	7090	6990	7090	7280	7950
Calhoun	4750	4660	4830	5000	4990	5000	5080	5000	4880	4840	5360	5480	5960
Carroll	12260	12270	12020	11730	11460	11620	11750	11200	10570	10250	11180	10540	11220
Cass	7320	7190	7350	7310	7330	7400	7400	7320	7100	7120	8160	8080	8670
Cedar	9170	9020	9340	9310	9200	9380	9360	8950	8940	8820	9370	8570	8360
Cerro Gordo	25370	25480	25820	25890	25180	24790	24640	23960	24380	23860	25110	23010	22950
Cherokee	6820	6540	6780	6830	6690	6850	6850	6730	6680	6530	6770	7190	7620
Chickasaw	7520	7200	7200	7330	7300	7170	7030	6770	6620	6640	6930	6590	6760
Clarke	4410	4160	4030	3810	3640	3720	3750	3920	4070	4010	4350	3600	4380
Clay	9580	9640	9860	9880	9390	9360	9140	8770	8550	8760	9010	8440	9990
Clayton	9950	9710	10230	10170	9890	9050	9130	9030	8650	8690	9630	9190	9960
Clinton	25760	25850	26260	26390	25600	25880	26040	25410	24570	24060	22230	21570	26530
Crawford	8610	8540	8650	8660	8490	8530	8490	8300	8050	8020	8310	8690	9410
Dallas	19800	19800	19200	18900	17900	17600	17300	16400	15900	15600	16000	15000	12700
Davis	4010	3990	4000	4170	4150	4150	4100	3880	3770	3720	3630	3450	3490
Decatur	3470	3540	3630	3600	3660	3800	3650	3600	3600	3550	3800	3830	3800
Delaware	9240	8930	9090	8930	8710	8830	8580	8560	8490	8400	8360	8020	8480
Des Moines	22430	22580	22500	22730	22370	22480	22430	21620	21120	20890	21750	19470	18560
Dickinson	9380	9370	9540	9840	9390	9140	9180	8540	7980	7770	9490	8060	7230
Dubuque	47200	47100	47500	47600	48100	48200	47800	45700	44400	43300	42200	38300	43000
Emmet	5440	5480	5530	5470	5280	5360	5500	5450	5360	5230	4760	5070	6040
Fayette	10780	10550	10990	11020	10940	11060	10280	10060	9850	9830	10080	10470	11220
Floyd	7450	7230	7620	7940	7670	7750	8100	8150	8050	8090	8290	7770	7650
Franklin	5750	5750	5820	5920	5860	5870	5660	5580	5450	5500	5060	5290	6310
Fremont	3720	3520	3660	3740	3810	3850	3740	3600	3530	3600	4140	4470	5490
Greene	4940	4790	4810	5040	4900	5030	5080	5020	4750	4640	4880	4970	5490
Grundy	6050	5900	6030	5850	5750	6050	5920	5800	5630	5630	6580	6600	6040
Guthrie	5900	5760	5850	5840	5690	5590	5650	5390	5410	5230	5060	4960	5350
Hamilton	8370	8020	8240	8360	8200	8420	8220	8320	8130	7960	10030	8710	8420
Hancock	9580	9040	9100	5850	5900	5900	5670	5590	5650	5860	6130	5760	6940
Hardin	9170	9120	9150	9250	9190	9300	9200	8990	8910	8950	9190	9510	10730
Harrison	7720	7340	7440	7420	7140	7270	7250	7000	6840	6820	6560	6540	6900
Henry	10600	10630	10830	10840	10740	10690	10450	10050	9720	9670	11810	8760	9750
Howard	5410	5300	5270	5220	5140	5090	4700	4680	4500	4420	4760	4670	5250
Humboldt	5380	5500	5500	5440	5200	5210	5080	4970	4800	4800	5160	5170	5330
Ida	4050	3900	4090	4140	3990	4050	3980	3740	3630	3780	4610	3980	4340
Iowa	9180	8990	9080	9250	8980	9280	9170	8780	8180	7790	8420	7930	8730
Jackson	10140	9800	9990	10080	9800	10390	10370	9920	9600	9350	10100	9140	9770
Jasper	18730	18410	18620	18250	17840	17800	17480	17270	17160	17230	17210	16230	15670

Table 2. Estimates of the Number Employed in Iowa's Counties, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	9320	9740	10010	9550	9180	9290	9150	8520	8190	8140	8770	7470	7550
Johnson	65800	64800	63200	63300	62500	62900	62100	58300	56700	55800	61000	52600	41700
Jones	9610	9230	9390	9440	9220	9170	8990	9000	8850	8850	9040	8120	9610
Keokuk	4960	4930	5100	5030	4810	4920	4900	4910	4990	5080	5530	5320	5130
Kossuth	8620	8510	8870	8760	8390	8590	8490	8520	8420	8440	8820	9120	10940
Lee	18210	18500	18610	18810	18650	18610	18230	18000	18010	17660	17060	16990	20730
Linn	110500	108400	106000	105900	104000	102700	101200	95700	92000	91300	94100	77900	85300
Louisa	5230	5090	5500	6300	6220	6200	6230	5990	5780	5640	7490	4540	4340
Lucas	3920	3880	3790	3770	3850	4150	4130	4130	4050	4000	4700	4650	4350
Lyon	5470	5440	5700	5740	5590	5720	5760	5750	5520	5530	6020	5460	6280
Madison	7400	7360	7200	7380	7150	7070	6730	6130	6020	6090	5850	5240	5730
Mahaska	10960	10980	11000	10690	10680	10940	10690	10370	10100	10120	10000	9320	9960
Marion	17730	17480	17500	17500	16910	16490	16530	15800	15280	15150	15820	13350	15590
Marshall	19830	19820	19900	20290	20100	20410	19930	19410	19420	19320	19510	18950	18400
Mills	6180	5790	5930	6090	5980	6380	6320	6320	6330	6190	5380	5710	6220
Mitchell	5350	5280	5480	5540	5500	5480	5290	5090	4940	4950	5630	5240	5610
Monona	4810	4810	5150	4980	4990	5020	4960	4600	4250	4300	4550	4700	5160
Monroe	3970	4020	3990	3990	4050	4010	3900	3730	3680	3530	3750	3320	4660
Montgomery	5710	5810	5950	6000	5800	5950	5900	5700	5740	5840	6140	5860	6520
Muscatine	20790	21000	20250	20840	20630	20660	20990	20270	19740	19820	20540	19060	18930
O'Brien	7740	7550	7780	7900	7690	7800	7730	7410	7250	7160	7900	7510	7520
Osceola	3820	3520	3630	3710	3560	3560	3530	3570	3470	3410	3400	3450	3440
Page	8760	8580	8960	9000	8770	8890	8630	8080	7680	7740	8040	8150	8930
Palo Alto	5260	5140	5360	5380	5090	5190	5120	5060	4730	4660	5050	5210	5170
Plymouth	12700	12090	12550	12550	12170	12610	12560	12140	11940	11450	12090	10970	10950
Pocahontas	3950	4050	4210	4250	4160	4200	4140	4180	4180	4240	4840	4750	4740
Polk	206700	207300	205300	207500	203900	202800	201400	192700	186400	183400	192000	157000	157600
Pottawattamie	46600	46500	46000	46200	44900	44800	44800	42700	41900	41900	46400	42600	41200
Poweshiek	9950	9860	9900	9930	9960	9970	9860	9700	9350	9520	10540	8930	9980
Ringgold	2570	2420	2540	2610	2520	2610	2590	2590	2500	2450	2460	2470	3160
Sac	5730	5740	5950	5800	5750	5900	5840	5880	5680	5630	5390	5490	6180
Scott	82300	83200	81900	81200	79500	80200	81400	78600	76600	75300	77900	67000	70800
Shelby	6710	6570	6860	6910	6480	6570	6530	6350	6300	6270	6520	6470	6220
Sioux	17070	17040	17250	16890	16480	16690	16440	15650	15020	14840	16060	14240	15560
Story	44910	44280	44040	44450	43440	44220	43530	41390	40280	40240	41840	37280	37330
Tama	9110	8780	8980	9130	9290	9100	8700	7710	7740	7860	8500	8020	9370
Taylor	3290	3120	3110	3230	3200	3100	3100	3070	3140	2980	3220	3380	3370
Union	6370	6230	6220	6130	6020	5980	6170	6030	5690	5770	6360	5800	7080
Van Buren	3910	4090	4180	4000	3880	3880	3860	3640	3520	3490	3350	3410	3600
Wapello	16840	16740	16750	17600	17340	17580	17490	16660	16110	15890	14780	15200	16100
Warren	22600	22700	22500	22700	22100	22100	21800	20800	20100	19800	20000	18000	17900
Washington	10970	10940	11070	11110	10820	10860	10790	10560	10320	10110	9130	9090	9660
Wayne	2930	2870	3070	3210	3220	3260	3120	3130	3020	3110	3180	3150	3680
Webster	19770	19520	19310	19470	19380	19380	19290	18710	18530	18470	19800	19520	21980
Winnebago	4570	4540	4680	6830	6510	6610	6480	6130	5610	5910	7350	7080	6350
Winneshiek	11850	11460	11730	11770	11460	11440	11270	11070	10820	10650	12550	11020	10420
Woodbury	52500	52800	53300	54000	53300	53100	53300	50500	48900	48000	50100	44800	45200
Worth	3960	3980	4020	4070	3930	3890	3910	3740	3790	3770	4740	4250	3650
Wright	6620	6690	6820	7020	7030	6780	6740	6870	6890	6860	7700	7870	7630
State of Iowa	1534100	1524900	1527900	1533300	1505100	1508700	1497100	1440400	1402300	1386300	1448000	1312000	1366000

Table 3. Estimates of the Number Unemployed in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	110	100	130	150	150	140	140	140	120	100	170	200	160
Adams	60	70	140	220	70	80	80	90	110	90	100	140	110
Allamakee	290	350	350	390	390	370	350	440	390	400	450	690	440
Appanoose	270	300	320	380	370	370	360	420	430	420	410	620	440
Audubon	90	100	120	130	120	100	90	110	110	120	130	280	110
Benton	310	350	410	500	500	480	460	550	570	580	490	710	340
Black Hawk	2600	2500	2600	3100	3000	3400	3800	4200	3900	3500	3300	7400	3200
Boone	290	320	390	380	410	470	480	570	630	530	500	670	430
Bremer	400	300	300	400	400	400	500	600	600	400	400	800	400
Buchanan	410	440	440	530	480	520	580	640	580	520	520	1040	420
Buena Vista	230	220	240	280	260	310	300	290	260	260	250	490	260
Butler	340	320	330	430	410	450	440	530	470	330	360	630	240
Calhoun	140	130	160	200	180	180	190	180	160	120	160	310	160
Carroll	280	300	400	410	440	390	380	360	410	440	540	660	390
Cass	240	290	380	420	350	370	390	400	410	410	370	700	250
Cedar	230	240	290	370	270	290	310	350	280	250	310	440	190
Cerro Gordo	670	770	860	1090	920	1190	1340	1550	1430	1310	1260	1700	1250
Cherokee	150	180	210	240	220	230	200	220	200	180	240	360	220
Chickasaw	260	290	360	440	390	440	450	500	480	420	400	760	340
Clarke	160	160	170	220	240	270	340	300	290	210	240	330	190
Clay	220	280	280	270	280	290	270	290	300	200	260	710	350
Clayton	450	500	510	660	560	570	540	590	550	500	570	920	500
Clinton	930	840	1020	1330	1320	1250	1350	1610	1590	1470	1590	2370	1110
Crawford	200	240	290	310	300	320	390	370	380	480	670	560	400
Dallas	300	400	400	500	400	500	500	600	600	600	1000	800	500
Davis	150	140	160	170	180	190	190	220	250	140	210	310	160
Decatur	160	190	170	220	270	230	300	290	250	240	130	260	160
Delaware	370	420	480	620	470	510	510	510	480	400	520	750	310
Des Moines	720	730	930	1170	1040	1110	1280	1440	1320	1150	1350	2060	990
Dickinson	240	310	360	330	330	400	320	310	300	260	280	610	330
Dubuque	1300	1600	1900	2900	1800	1900	2100	2600	2900	2700	2700	3600	2600
Emmet	180	200	250	250	270	290	250	320	330	310	290	620	220
Fayette	390	450	370	470	480	440	510	590	550	430	470	1000	570
Floyd	270	330	390	450	440	730	610	600	580	450	440	850	480
Franklin	190	180	200	200	180	200	210	260	240	230	230	380	180
Fremont	80	100	100	150	120	140	200	220	180	130	160	360	140
Greene	150	150	130	170	220	220	210	220	240	240	350	430	170
Grundy	160	140	170	240	230	190	190	230	200	150	190	380	150
Guthrie	130	150	190	210	200	230	240	250	250	210	340	320	180
Hamilton	180	230	270	280	350	270	300	430	350	390	370	560	300
Hancock	140	150	170	190	200	200	230	340	340	360	300	340	340
Hardin	270	340	390	380	380	310	380	500	530	440	400	610	240
Harrison	180	230	270	300	340	360	360	430	380	280	400	530	320
Henry	300	290	310	380	360	370	380	490	440	350	470	700	370
Howard	150	170	180	230	200	190	190	210	190	180	270	360	220
Humboldt	110	110	130	140	130	170	180	180	200	160	170	380	220
Ida	90	100	120	110	110	100	100	110	140	100	130	170	110
Iowa	160	200	240	270	230	200	220	230	210	200	200	340	210
Jackson	400	450	560	690	600	560	550	690	680	650	780	990	620
Jasper	370	450	530	650	620	610	680	720	790	630	740	1140	720

Table 3. Estimates of the Number Unemployed in Iowa's Counties, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	310	290	340	310	360	460	410	490	400	350	440	510	300
Johnson	1400	1500	1600	1900	1800	1700	1700	2000	1700	1800	900	1300	1100
Jones	260	270	360	420	410	400	460	570	470	440	400	660	310
Keokuk	230	230	250	260	240	230	260	320	270	240	290	450	280
Kossuth	250	240	240	300	340	350	330	440	490	390	430	630	550
Lee	730	820	1070	1220	990	1100	1430	1590	1470	1210	1380	1820	1030
Linn	2000	2100	2800	3200	3000	3300	3600	4200	4700	5300	3600	6000	3200
Louisa	180	180	270	300	260	270	330	370	310	260	310	420	210
Lucas	130	150	170	210	230	230	280	300	240	250	230	340	220
Lyon	100	130	130	170	160	150	160	150	130	120	150	260	160
Madison	240	220	290	310	320	320	310	350	360	270	320	400	240
Mahaska	260	270	320	390	390	350	430	440	480	410	500	630	360
Marion	390	460	550	620	590	560	600	590	620	580	550	580	410
Marshall	450	570	640	760	680	620	840	830	730	660	770	1560	710
Mills	120	140	190	210	200	220	220	280	230	220	230	340	200
Mitchell	160	150	140	200	190	230	210	210	220	200	210	410	320
Monona	160	180	170	200	170	180	200	220	190	160	230	400	270
Monroe	120	130	180	190	190	170	210	220	230	200	250	490	280
Montgomery	180	200	310	390	230	240	250	300	250	270	320	450	180
Muscatine	590	590	880	1070	720	810	890	1210	1170	1010	1090	1420	870
O'Brien	170	190	190	200	210	210	200	230	180	150	180	390	210
Osceola	90	100	110	120	130	120	110	130	120	100	140	240	140
Page	220	250	290	380	330	340	350	490	480	390	410	610	260
Palo Alto	130	140	150	180	170	180	180	170	190	180	190	430	210
Plymouth	310	350	420	510	500	370	360	470	400	360	420	680	490
Pocahontas	140	100	110	140	160	120	120	160	130	90	120	250	140
Polk	4000	4600	5600	6200	5500	6000	7300	7400	6900	6100	7100	9900	6900
Pottawattamie	900	1300	1700	1600	1500	1700	1900	2300	2000	1700	2300	3500	2300
Poweshiek	280	330	390	530	420	430	500	470	440	450	380	560	340
Ringgold	70	80	80	110	110	100	100	110	110	100	120	200	110
Sac	150	190	210	240	230	230	200	190	220	230	300	540	220
Scott	2600	2300	2700	3300	3000	3400	4000	4800	4000	3300	5000	5800	3000
Shelby	160	170	230	270	260	320	310	380	350	270	330	590	240
Sioux	430	470	480	560	510	520	440	470	430	410	330	650	510
Story	960	1140	1210	1300	1260	1350	1380	1640	1640	1510	710	1220	900
Tama	270	260	310	440	380	380	410	460	420	360	370	420	240
Taylor	110	110	190	240	170	200	130	150	140	110	140	260	120
Union	240	230	250	330	290	330	300	280	360	300	270	520	280
Van Buren	120	120	150	170	170	170	170	200	200	120	280	290	160
Wapello	660	680	1150	960	900	930	1060	1240	1300	990	1070	1710	1180
Warren	400	500	500	500	500	500	700	700	600	500	600	800	600
Washington	270	280	340	420	350	340	370	400	360	280	390	590	380
Wayne	90	120	140	170	130	130	180	180	120	90	100	230	130
Webster	550	590	700	770	850	880	990	1170	1000	990	1010	1660	970
Winnebago	110	130	140	180	180	180	220	240	360	490	290	260	450
Winneshiek	390	450	470	580	570	620	650	700	610	630	570	820	570
Woodbury	1300	1600	1900	2100	1700	1800	1700	2300	2500	2200	2200	3600	3700
Worth	110	130	130	160	140	180	190	200	230	260	240	290	240
Wright	160	170	190	240	280	250	280	340	290	250	280	480	240
State of Iowa	40100	43400	51500	59800	54400	57600	62800	71300	68100	61700	65000	99000	59000

Table 4. Estimated Unemployment Rates in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	2.4	2.5	2.9	3.4	3.4	3.3	3.3	3.4	3.0	2.5	3.7	4.5	3.5
Adams	2.5	3.4	5.9	9.2	3.1	3.3	3.4	3.9	4.6	3.7	3.2	4.6	4.2
Allamakee	3.9	4.8	4.6	5.0	5.1	4.8	4.7	6.0	5.4	5.6	5.9	9.3	6.1
Appanoose	4.0	4.4	4.7	5.6	5.5	5.5	5.2	6.2	6.5	6.6	6.3	10.5	7.2
Audubon	2.4	3.0	3.5	3.6	3.2	2.8	2.4	2.9	2.9	3.3	3.7	7.2	2.7
Benton	2.7	3.0	3.5	4.1	4.2	4.1	4.0	4.9	5.1	5.1	4.5	6.7	3.1
Black Hawk	3.9	3.6	3.8	4.5	4.5	4.9	5.5	6.4	6.1	5.6	5.4	12.0	4.6
Boone	2.0	2.3	2.7	2.7	3.0	3.4	3.6	4.3	4.9	4.2	3.9	5.6	3.4
Bremer	2.8	2.5	2.5	2.9	3.0	3.2	4.0	4.6	5.0	3.5	3.7	7.5	3.8
Buchanan	3.7	3.9	4.0	4.8	4.5	4.8	5.6	6.4	5.9	5.4	5.2	10.3	3.8
Buena Vista	2.1	2.0	2.2	2.5	2.4	2.7	2.7	2.7	2.5	2.6	2.2	4.5	2.5
Butler	4.5	4.1	4.2	5.3	5.1	5.5	5.5	6.7	6.2	4.5	4.8	8.0	2.9
Calhoun	2.8	2.8	3.1	3.8	3.4	3.5	3.5	3.5	3.2	2.4	2.9	5.4	2.6
Carroll	2.2	2.4	3.2	3.4	3.7	3.2	3.1	3.1	3.7	4.1	4.6	5.9	3.4
Cass	3.2	3.9	4.9	5.4	4.6	4.7	5.0	5.2	5.5	5.4	4.3	8.0	2.8
Cedar	2.4	2.6	3.0	3.8	2.8	3.0	3.2	3.8	3.0	2.8	3.2	4.9	2.2
Cerro Gordo	2.6	2.9	3.2	4.0	3.5	4.6	5.2	6.1	5.5	5.2	4.8	6.9	5.2
Cherokee	2.2	2.7	3.0	3.4	3.2	3.2	2.8	3.2	2.9	2.7	3.4	4.8	2.8
Chickasaw	3.3	3.9	4.8	5.7	5.1	5.7	6.0	6.8	6.8	5.9	5.5	10.3	4.8
Clarke	3.4	3.7	4.1	5.5	6.1	6.9	8.3	7.0	6.7	5.0	5.2	8.4	4.2
Clay	2.3	2.9	2.8	2.6	2.9	3.0	2.8	3.2	3.4	2.2	2.8	7.8	3.4
Clayton	4.3	4.9	4.7	6.1	5.3	5.9	5.6	6.2	6.0	5.4	5.6	9.1	4.8
Clinton	3.5	3.2	3.7	4.8	4.9	4.6	4.9	6.0	6.1	5.8	6.7	9.9	4.0
Crawford	2.3	2.8	3.3	3.4	3.4	3.6	4.3	4.2	4.5	5.6	7.5	6.1	4.1
Dallas	1.7	1.8	2.2	2.3	2.4	2.8	3.0	3.7	3.7	3.7	5.9	5.1	3.8
Davis	3.6	3.4	3.9	4.0	4.1	4.3	4.4	5.4	6.2	3.6	5.5	8.2	4.4
Decatur	4.3	5.1	4.5	5.8	6.7	5.8	7.5	7.5	6.5	6.3	3.3	6.4	4.0
Delaware	3.9	4.5	5.0	6.5	5.1	5.5	5.6	5.6	5.4	4.6	5.9	8.6	3.5
Des Moines	3.1	3.1	4.0	4.9	4.5	4.7	5.4	6.3	5.9	5.2	5.8	9.6	5.1
Dickinson	2.4	3.2	3.6	3.2	3.4	4.2	3.4	3.5	3.6	3.2	2.9	7.0	4.4
Dubuque	2.7	3.2	3.9	5.8	3.7	3.7	4.1	5.5	6.1	5.9	6.0	8.6	5.7
Emmet	3.3	3.5	4.4	4.4	4.8	5.1	4.4	5.6	5.8	5.6	5.7	10.9	3.5
Fayette	3.5	4.0	3.3	4.0	4.2	3.8	4.8	5.5	5.3	4.2	4.5	8.7	4.8
Floyd	3.5	4.4	4.9	5.3	5.4	8.7	7.0	6.9	6.7	5.3	5.0	9.9	5.9
Franklin	3.2	3.0	3.3	3.2	2.9	3.3	3.6	4.4	4.2	4.0	4.3	6.7	2.8
Fremont	2.1	2.7	2.8	3.9	3.1	3.5	5.0	5.7	4.9	3.5	3.7	7.4	2.5
Greene	2.9	3.0	2.6	3.3	4.2	4.2	4.0	4.3	4.8	4.9	6.7	8.0	3.0
Grundy	2.5	2.4	2.7	3.9	3.9	3.0	3.1	3.8	3.4	2.6	2.8	5.4	2.4
Guthrie	2.2	2.6	3.1	3.5	3.4	3.9	4.0	4.3	4.4	3.9	6.3	6.1	3.3
Hamilton	2.1	2.7	3.2	3.2	4.1	3.1	3.6	5.0	4.1	4.7	3.6	6.0	3.4
Hancock	1.5	1.6	1.9	3.1	3.2	3.2	3.9	5.7	5.7	5.8	4.7	5.6	4.7
Hardin	2.9	3.6	4.1	4.0	3.9	3.2	4.0	5.3	5.6	4.7	4.2	6.0	2.2
Harrison	2.3	3.0	3.5	3.9	4.5	4.7	4.8	5.7	5.3	3.9	5.7	7.5	4.4
Henry	2.8	2.7	2.7	3.4	3.3	3.4	3.5	4.6	4.3	3.5	3.8	7.4	3.7
Howard	2.6	3.1	3.3	4.2	3.7	3.6	3.8	4.4	4.1	3.9	5.4	7.2	4.0
Humboldt	1.9	2.0	2.3	2.4	2.5	3.2	3.3	3.4	4.0	3.2	3.2	6.8	4.0
Ida	2.1	2.4	2.9	2.7	2.7	2.5	2.5	2.8	3.7	2.6	2.7	4.1	2.5
Iowa	1.7	2.2	2.6	2.8	2.5	2.1	2.3	2.5	2.5	2.5	2.3	4.1	2.3
Jackson	3.8	4.4	5.3	6.4	5.7	5.1	5.0	6.5	6.6	6.5	7.2	9.8	6.0
Jasper	1.9	2.4	2.8	3.4	3.3	3.3	3.7	4.0	4.4	3.5	4.1	6.6	4.4

Table 4. Estimated Unemployment Rates in Iowa's Counties, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	3.2	2.9	3.2	3.2	3.8	4.7	4.3	5.4	4.7	4.1	4.8	6.4	3.8
Johnson	2.0	2.2	2.5	2.9	2.7	2.6	2.7	3.3	2.9	3.1	1.5	2.4	2.6
Jones	2.6	2.8	3.7	4.2	4.3	4.2	4.8	5.9	5.0	4.7	4.2	7.5	3.1
Keokuk	4.4	4.5	4.6	4.9	4.8	4.5	5.0	6.1	5.1	4.5	5.0	7.8	5.2
Kossuth	2.9	2.8	2.6	3.3	3.9	3.9	3.7	4.9	5.5	4.4	4.6	6.5	4.8
Lee	3.9	4.2	5.4	6.1	5.1	5.6	7.3	8.1	7.5	6.4	7.5	9.7	4.7
Linn	1.8	1.9	2.6	2.9	2.8	3.1	3.4	4.2	4.9	5.5	3.7	7.1	3.6
Louisa	3.4	3.5	4.7	4.6	4.1	4.1	5.0	5.8	5.1	4.4	4.0	8.5	4.6
Lucas	3.3	3.6	4.3	5.3	5.5	5.3	6.3	6.8	5.6	5.9	4.7	6.8	4.8
Lyon	1.8	2.4	2.3	2.8	2.7	2.5	2.8	2.6	2.3	2.1	2.4	4.5	2.5
Madison	3.1	2.8	3.9	4.0	4.2	4.3	4.5	5.4	5.7	4.2	5.2	7.1	4.0
Mahaska	2.3	2.4	2.8	3.5	3.5	3.1	3.9	4.1	4.5	3.9	4.8	6.3	3.5
Marion	2.1	2.6	3.1	3.4	3.3	3.3	3.5	3.6	3.9	3.7	3.4	4.2	2.6
Marshall	2.2	2.8	3.1	3.6	3.3	2.9	4.0	4.1	3.6	3.3	3.8	7.6	3.7
Mills	1.9	2.3	3.1	3.3	3.2	3.3	3.4	4.2	3.5	3.4	4.1	5.6	3.1
Mitchell	2.9	2.8	2.4	3.6	3.3	4.0	3.8	4.0	4.3	3.9	3.6	7.3	5.4
Monona	3.1	3.5	3.2	3.8	3.4	3.5	3.9	4.5	4.3	3.6	4.8	7.8	5.0
Monroe	3.0	3.1	4.2	4.4	4.6	4.1	5.0	5.5	5.9	5.4	6.3	12.9	5.7
Montgomery	3.1	3.3	5.0	6.1	3.8	3.9	4.1	5.0	4.2	4.4	5.0	7.1	2.7
Muscatine	2.8	2.7	4.2	4.9	3.4	3.8	4.1	5.6	5.6	4.8	5.0	6.9	4.4
O'Brien	2.1	2.5	2.4	2.5	2.7	2.6	2.6	3.0	2.4	2.1	2.2	4.9	2.7
Osceola	2.3	2.9	2.9	3.1	3.4	3.2	3.0	3.5	3.4	2.8	4.0	6.5	3.9
Page	2.4	2.8	3.1	4.0	3.6	3.7	3.9	5.7	5.9	4.8	4.9	7.0	2.8
Palo Alto	2.4	2.6	2.6	3.2	3.2	3.4	3.4	3.2	3.9	3.7	3.6	7.6	3.9
Plymouth	2.4	2.8	3.3	3.9	4.0	2.9	2.8	3.7	3.2	3.0	3.4	5.8	4.3
Pocahontas	3.3	2.3	2.4	3.2	3.8	2.8	2.8	3.6	3.0	2.1	2.4	5.0	2.9
Polk	1.9	2.2	2.7	2.9	2.6	2.9	3.5	3.7	3.6	3.2	3.6	5.9	4.2
Pottawattamie	2.0	2.6	3.5	3.3	3.2	3.6	4.1	5.0	4.6	3.9	4.7	7.6	5.3
Poweshiek	2.8	3.2	3.8	5.1	4.0	4.2	4.8	4.6	4.5	4.5	3.5	5.9	3.3
Ringgold	2.7	3.2	3.0	3.9	4.0	3.8	3.7	4.0	4.2	3.9	4.7	7.5	3.4
Sac	2.6	3.1	3.3	3.9	3.8	3.7	3.3	3.1	3.7	3.9	5.3	9.0	3.4
Scott	3.0	2.7	3.2	3.8	3.6	4.1	4.7	5.7	5.0	4.2	6.0	8.0	4.1
Shelby	2.4	2.5	3.2	3.8	3.8	4.6	4.5	5.6	5.3	4.1	4.8	8.4	3.7
Sioux	2.4	2.7	2.7	3.2	3.0	3.0	2.6	2.9	2.8	2.7	2.0	4.4	3.2
Story	2.1	2.5	2.7	2.9	2.8	3.0	3.1	3.8	3.9	3.6	1.7	3.2	2.4
Tama	2.8	2.9	3.3	4.6	3.9	4.0	4.5	5.6	5.1	4.4	4.2	5.0	2.5
Taylor	3.1	3.5	5.7	6.9	5.1	6.0	4.1	4.7	4.3	3.6	4.2	7.1	3.4
Union	3.6	3.6	3.8	5.0	4.6	5.2	4.6	4.5	6.0	5.0	4.1	8.2	3.8
Van Buren	3.0	2.8	3.4	4.0	4.1	4.2	4.3	5.3	5.4	3.3	7.7	7.8	4.3
Wapello	3.8	3.9	6.4	5.2	4.9	5.0	5.7	6.9	7.5	5.9	6.8	10.1	6.8
Warren	1.7	2.0	2.1	2.3	2.3	2.3	3.1	3.3	2.9	2.5	2.9	4.2	3.2
Washington	2.4	2.5	3.0	3.7	3.2	3.0	3.3	3.7	3.4	2.7	4.1	6.1	3.8
Wayne	2.9	3.9	4.4	5.1	4.0	3.7	5.3	5.5	3.8	2.8	3.0	6.8	3.4
Webster	2.7	3.0	3.5	3.8	4.2	4.3	4.9	5.9	5.1	5.1	4.9	7.8	4.2
Winnebago	2.3	2.8	2.8	2.5	2.6	2.6	3.2	3.8	6.0	7.6	3.8	3.5	6.6
Winneshiek	3.2	3.8	3.9	4.7	4.7	5.1	5.5	5.9	5.3	5.6	4.3	6.9	5.2
Woodbury	2.5	2.9	3.4	3.7	3.1	3.2	3.1	4.3	4.9	4.4	4.2	7.4	7.6
Worth	2.7	3.1	3.1	3.9	3.4	4.5	4.5	5.1	5.7	6.5	4.8	6.4	6.2
Wright	2.3	2.4	2.7	3.3	3.8	3.6	4.0	4.7	4.0	3.5	3.5	5.7	3.0
State of Iowa	2.5	2.8	3.3	3.8	3.5	3.7	4.0	4.7	4.6	4.3	4.3	7.0	4.1

five years from 1982 through 1986, unemployment was more than 100,000. Relatively rapid decreases, especially from 1986 through 1988, brought the figure below 62,000 in 1990. That was a decline of 49.0 percent from the period high in 1982. But the number unemployed increased by 6,400 between 1990 and 1991 and by 3,200 between 1991 and 1992. In contrast, a decrease of 8,500 occurred between 1992 and 1993 on the number unemployed. Except for a gain from 1995 to 1996, declining numbers continued through 1999, when the 40,100 figure was lower than any year reported here.

Just as Polk led in labor force and employment numbers, it also had the highest number unemployed (4,000) in 1999. Six other counties had at least 1,000 unemployed. Forty-two counties had fewer than 200 unemployed in 1999, with seven of these below 100.

Unemployment in 1999 was much lower than the figures for the years 1989; for the state, 24,900 fewer residents were reported as unemployed at the beginning than at the end of this period. Ninety-three counties followed this trend, with declines in the number unemployed exceeding 1,000 in Dubuque, Linn, Polk, Pottawattamie, and Scott.

### **Unemployment Rates**

When the number unemployed is divided by the number in the labor force and the result is multiplied by 100, an unemployment rate is obtained. These rates (number unemployed of every 100 in the labor force) were much higher in the early 1980s than in more recent years (Table 4). For example, the rate of 7.0 percent in 1984 was substantially greater than the 2.5 percent reported for 1999. Indeed, the 1999 rate was the lowest of the years reported in the table. The state's unemployment rate increased from 1989/1990 to 1992 but has declined in most succeeding years.

For counties in 1999, unemployment rates varied from less than 2.0 percent in 10 counties to at least 4.0 percent in five others. Unemployment rates in 1999 were much lower than those in 1989. In 1989, 62 counties had unemployment rates of 4.0 percent or greater. Ninety-four counties had lower unemployment rates in 1999 than they did in 1989.

**Note:** Caution must be exercised in interpreting these numbers. They are based on estimates generated annually by Iowa Workforce Development under guidelines set by the Bureau of Labor Statistics in the U.S. Department of Labor; all states use virtually identical methods to compute labor force statistics.



## Employers, Employees, and Average Weekly Wages in Business/ Government Categories in Iowa's Counties: 1993, 1997, and 1998

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Iowa Workforce Development provides annual information on Iowans covered by unemployment insurance. The number of business and government employing units, employees, and average weekly wage are reported. Of Iowa's nearly 97,800 employers with covered workers in 1998, 94.2% were private businesses that were distributed among seven industrial sectors (agriculture and mining; construction; finance, insurance, and real estate; manufacturing; transportation, communication, and utilities; services; wholesale and retail trade) and the remainder were government agencies (federal, state, local). These figures exclude proprietors, the self-employed, unpaid family members, and most agriculture employees, elected officials, and railroad workers. Additional detail on the employer categories is included at the end of this section.

### Private Business

Private businesses in Iowa's counties totaled 92,100 in 1998 (Table 1), an increase of 2,900 from 1997 (Table 2) and 4,700 from 1993 (Table 3). Such businesses increased in 80 counties from 1993 to 1998, with Polk's gain of 921 employers substantially exceeding all others. Dallas, Des Moines, Jefferson, Johnson, Linn, Scott, Sioux, Story, and Woodbury also increased by at least 100 private-sector businesses that had covered workers. Among those with fewer employers in 1998 than in 1993, only Calhoun, Page, and Winneshiek declined by at least 30 businesses.

Among the seven industrial sectors that comprise private business, wholesale and retail trade had the most employers with services a close second in 1998. Trade, however, was the only sector with fewer businesses statewide in 1998 than in 1993, declining by about 1,350 to 31,050 over the five years. Service employers increased by more than 2,300 to 29,600 during the same period. In 1993, 97 of the 99 counties had more employers in trade than any other individual sector; that year, services were highest in Jefferson and Johnson. By 1998, 16 counties had more businesses in services than any other sector. Indeed, services increased in 73 counties from 1993 to 1998, while 79 counties experienced a decline in the number of employers in the area of trade.

Iowa's agricultural and mining enterprises increased by 649 to 2,969 between 1993 and 1998. Eighty-five counties had more of these entities by the later year. Statewide, there were fewer businesses in this sector than any of the other six for each year reported. That also was the case for at least 66 counties each year. Manufacturing showed the smallest statewide gain (+185 to a total of 4,820) among those sectors recording an increase between 1993 and 1998. Thirty-two counties had fewer manufacturers in 1998 than in 1993. There were 9,664 construction firms in Iowa in 1998, a gain of 1,559 since 1993. The statewide numerical increase was second only to services among the industrial sectors. All but 10 counties had the same or more of these businesses in the later year as well. One-fourth (24.8%) of the construction companies were located in just three counties (Linn, Polk, Scott) in 1998.

Transportation, communication, and utility firms numbered 5,292 by 1998, up from 4,762 in 1993. Although the state figure increased between 1993 and 1998, 28 counties had fewer of these firms at the end of the period. Businesses involved in finance, insurance, and real estate gained 827 from 1993 to 1998, when 8,670 were noted. Nineteen percent (1,671) of the state's total in 1998 were in Polk alone. Fewer of these firms were counted in 21 counties in 1998 than in 1993, but the decline was less than 10 in all but one county.

Table 1. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1998.

County	Private Business																		Government							
	Grand Total		Private Total		Ag and Mining		Construction		Manufacturing		Transportation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees
Adair	317	2723	285	2158	16	129	25	146	8	525	15	117	111	719	21	87	89	432	32	565	20	498	5	33	7	34
Adams	183	1483	155	1197	8	40	13	41	11	287	6	38	53	286	13	55	51	447	28	286	13	240	5	16	10	30
Allamakee	494	5291	455	4295	21	108	43	156	37	1478	33	174	169	1354	32	158	120	864	39	996	25	888	6	34	8	74
Appanoose	444	4916	392	4120	12	63	29	71	25	1570	44	314	131	1105	32	164	119	830	52	796	32	654	7	61	13	81
Audubon	259	1917	232	1440	20	136	26	96	7	175	25	66	74	479	20	79	60	406	27	477	15	426	5	14	7	37
Benton	658	5500	604	4031	25	106	86	346	35	854	48	206	210	1444	57	257	143	816	54	1469	41	1228	6	168	7	73
Black Hawk	3768	69409	3646	59612	82	583	344	2666	205	15119	168	2531	1191	17288	370	3219	1286	18203	122	9797	81	6680	25	2565	16	552
Boone	663	8810	612	6676	31	154	65	355	32	950	41	310	209	2972	45	216	189	1716	51	2134	31	1333	10	688	10	113
Bremer	733	9258	682	7880	29	125	64	489	44	2189	32	136	229	1969	69	1009	215	1960	51	1378	36	1280	6	32	9	66
Buchanan	610	6260	557	4648	28	105	81	390	36	1450	45	237	197	1535	58	261	112	667	53	1612	37	1104	8	400	8	108
Buena Vista	751	9642	688	8106	37	276	54	271	35	2741	45	172	240	2570	78	349	199	1724	63	1536	40	1383	9	67	14	86
Butler	468	3472	422	2714	32	107	36	138	30	568	31	120	161	994	38	156	94	629	46	758	30	671	6	30	10	57
Calhoun	380	3299	341	2450	18	72	38	76	20	247	31	85	105	742	34	184	95	1041	39	849	24	677	5	123	10	49
Carroll	953	11772	901	10531	34	205	116	597	47	1489	56	669	311	3844	81	918	256	2807	52	1241	33	1041	9	102	10	98
Cass	616	6436	565	5102	23	101	53	407	30	1210	41	174	193	1650	53	242	172	1314	51	1334	31	1121	11	128	9	85
Cedar	598	5055	556	4031	26	139	69	242	43	804	44	162	182	1499	39	190	153	992	42	1024	27	868	5	37	10	119
Cerro Gordo	1739	26264	1653	23295	40	228	163	1027	77	4695	95	886	588	7264	167	1354	523	7839	86	2969	50	2492	25	300	11	177
Cherokee	468	5598	418	4510	24	134	46	376	22	1188	21	119	153	1500	35	177	117	1012	50	1088	31	726	10	305	9	57
Chickasaw	459	5152	420	4433	18	94	67	281	30	1879	22	142	149	1128	32	160	102	746	39	719	20	621	7	40	12	58
Clarke	292	3651	266	2987	9	49	22	42	27	1426	20	82	76	773	25	103	87	510	26	664	15	544	4	83	7	37
Clay	767	9268	713	7873	37	257	71	420	39	1346	47	722	264	2723	57	322	198	2080	54	1395	30	1221	13	92	11	82
Clayton	664	6975	607	5734	29	210	50	512	49	1512	31	284	227	1373	56	205	165	1635	57	1241	33	1087	11	43	13	111
Clinton	1497	22221	1419	19459	37	233	151	901	79	5456	87	919	465	4775	138	746	462	6426	78	2762	60	2511	9	109	9	142
Crawford	579	7033	533	5903	11	47	53	263	31	2104	52	426	192	1694	49	205	145	1161	46	1130	30	947	7	82	9	101
Dallas	1049	12050	976	10092	59	573	132	948	49	2423	55	789	300	2255	79	471	302	2629	73	1958	57	1786	9	67	7	105
Davis	219	2077	191	1468	6	21	18	52	16	420	15	72	67	531	10	57	59	311	28	609	16	548	5	21	7	40
Decatur	226	2469	182	1813	8	46	23	92	11	368	17	55	67	509	9	51	47	690	44	656	30	576	6	34	8	46
Delaware	540	5684	490	4500	20	92	62	235	36	1586	30	130	177	1466	30	167	135	822	50	1184	31	1027	10	89	9	68
Des Moines	1542	23980	1470	21458	29	132	143	1268	85	7137	98	1233	493	5764	129	674	493	5245	72	2522	46	2175	13	147	13	200
Dickinson	830	8483	781	7430	31	131	99	403	38	2197	40	202	267	2409	69	309	237	1775	49	1053	35	933	7	62	7	58
Dubuque	2909	49635	2824	45932	59	341	327	1745	182	12054	160	1997	986	12337	260	1839	850	15616	85	3703	54	3191	16	215	15	297
Emmet	365	4560	331	3672	11	90	37	267	24	863	20	167	119	1056	26	148	94	1079	34	888	19	807	8	32	7	49
Fayette	745	7676	687	6373	27	100	56	216	38	1287	49	295	243	2184	59	288	215	2001	58	1303	35	1130	11	80	12	93

Table 1. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1998 (continued).

County	Grand Total		Private Business															Government								
			Private Total		Ag and Mining		Construc-tion		Manufac-turing		Transpor-tation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees		
Floyd	542	5477	504	4417	21	175	53	277	21	974	31	182	170	1398	47	238	161	1170	38	1060	22	960	6	40	10	60
Franklin	413	3687	367	2932	26	72	38	229	27	990	13	71	117	853	48	127	98	587	46	755	31	674	7	33	8	48
Fremont	278	2708	240	2220	17	74	27	96	10	814	18	40	78	601	24	108	66	484	38	488	24	411	7	38	7	39
Greene	371	3248	334	2338	21	59	49	195	17	598	24	128	97	716	29	151	97	488	37	910	26	828	5	39	6	43
Grundy	390	3557	349	2836	26	151	31	337	22	586	31	72	109	892	29	189	101	607	41	721	31	664	3	15	7	42
Guthrie	390	3155	344	2360	17	260	40	157	14	110	26	128	111	905	42	212	94	585	46	795	30	696	8	36	8	63
Hamilton	560	8042	511	6772	43	502	40	284	34	2896	26	141	169	1850	38	210	161	886	49	1270	34	1156	7	54	8	60
Hancock	389	6662	340	5911	24	120	34	96	32	4033	18	99	123	962	30	145	79	453	49	751	34	669	5	30	10	52
Hardin	789	8758	720	6967	59	902	83	575	46	1252	45	191	232	2482	65	293	190	1267	69	1791	44	1471	10	237	15	83
Harrison	477	3942	424	3062	17	81	51	149	19	320	29	117	167	1354	38	142	103	897	53	880	37	751	8	48	8	81
Henry	642	10897	600	9169	27	142	59	349	40	2890	37	314	194	3103	59	228	184	2140	42	1728	20	1214	15	443	7	71
Howard	372	4155	341	3368	13	81	37	137	35	1642	22	107	118	771	34	134	82	493	31	787	20	735	4	14	7	38
Humboldt	387	4173	345	3433	25	174	24	173	30	1084	27	194	120	1249	28	123	91	433	42	740	27	661	7	18	8	61
Ida	317	3551	286	3074	15	46	36	224	12	1057	30	240	96	738	27	147	70	619	31	477	21	424	4	14	6	39
Iowa	612	9970	571	9024	15	179	61	252	34	4225	20	158	265	2997	36	150	140	1060	41	946	29	838	6	38	6	70
Jackson	706	6434	651	5198	18	79	87	267	44	1507	38	177	222	1646	55	256	187	1264	55	1236	35	1078	11	70	9	88
Jasper	972	14110	902	11605	43	201	97	510	47	4607	51	405	314	3417	76	387	274	2074	70	2505	47	2052	8	344	15	109
Jefferson	857	9013	819	7920	13	71	49	187	50	2139	53	1050	232	2103	79	291	343	2076	38	1093	20	921	10	86	8	86
Johnson	3269	60947	3181	40693	74	432	380	2325	104	5134	121	2191	986	14154	267	2134	1249	14319	88	20254	48	3625	21	15046	19	1583
Jones	599	6027	553	4683	18	107	85	270	36	1274	39	198	183	1627	53	201	139	1002	46	1344	28	843	11	441	7	60
Keokuk	341	2578	300	1977	22	111	41	149	17	413	30	111	110	701	19	120	61	369	41	601	29	514	4	23	8	64
Kossuth	679	6473	620	5315	36	276	64	274	33	1156	42	172	238	1856	59	409	148	1168	59	1158	41	1040	9	38	9	80
Lee	1251	19060	1170	16717	21	141	134	860	83	6244	61	724	376	3876	103	476	392	4395	81	2343	57	1646	15	585	9	112
Linn	6373	114667	6200	103347	112	699	680	6178	292	22509	311	8781	1985	25819	603	5958	2217	33401	173	11320	117	9577	23	626	33	1117
Louisa	285	3324	242	2599	13	61	21	58	14	1265	23	126	83	610	21	99	67	377	43	725	25	638	9	27	9	60
Lucas	273	3241	234	2522	6	21	22	51	11	300	17	40	91	1624	22	144	65	340	39	719	22	605	10	74	7	40
Lyon	415	3447	383	2842	27	115	37	152	26	769	40	131	130	920	32	123	91	629	32	605	19	538	6	22	7	45
Madison	416	3635	378	2805	23	209	66	276	19	619	18	44	117	855	38	163	97	637	38	830	26	760	4	19	8	51
Mahaska	710	7828	661	6660	27	153	62	507	43	1348	46	475	222	2272	55	284	206	1618	49	1168	31	1034	9	57	9	77
Marion	918	16711	860	14747	22	163	105	502	50	7304	52	464	285	2843	75	303	271	3165	58	1964	33	1398	8	51	17	515
Marshall	1151	19711	1077	16525	33	279	103	679	47	5705	77	926	372	4244	96	933	349	3755	74	3186	49	2085	15	965	10	136
Mills	321	3608	284	2017	10	29	38	113	14	140	20	116	83	605	31	146	88	863	37	1591	22	681	8	857	7	53
Mitchell	391	3631	353	2950	26	146	33	143	23	946	27	87	128	796	27	140	89	689	38	681	26	619	4	13	8	49

Table 1. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1998 (continued).

County	Private Business																		Government							
	Grand Total		Private Total		Ag and Mining		Construction		Manufacturing		Transportation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees
Monona	366	3497	322	2839	16	56	27	120	13	196	19	87	133	952	20	132	94	1293	44	658	25	566	9	37	10	55
Monroe	265	3071	238	2551	6	25	23	261	19	1095	18	65	76	549	14	66	82	488	27	520	17	462	4	24	6	34
Montgomery	460	5304	415	4330	15	199	44	314	20	1052	26	200	145	1258	40	173	125	1130	45	974	26	856	8	58	11	60
Muscatine	1206	22144	1142	19235	36	276	135	935	91	8433	79	1022	354	3660	88	589	359	4317	64	2909	41	2698	10	85	13	126
O'Brien	620	6277	570	5137	24	115	66	254	16	744	48	302	208	1793	46	279	162	1646	50	1140	34	1042	8	33	8	65
Osceola	267	2343	239	1992	13	159	41	137	20	638	24	133	66	456	20	102	55	363	28	351	18	306	4	14	6	31
Page	606	7209	551	5699	19	110	59	202	27	1780	38	195	195	1885	43	211	170	1314	55	1510	36	980	11	456	8	74
Palo Alto	413	3763	371	2724	31	134	33	61	25	677	39	142	106	884	32	123	105	701	42	1039	28	972	6	17	8	50
Plymouth	789	8846	742	7526	48	291	96	442	36	1860	55	687	235	2505	65	396	207	1342	47	1320	31	1197	7	42	9	81
Pocahontas	325	3106	283	2426	14	71	25	78	24	892	18	71	92	726	34	129	76	456	42	680	29	616	4	18	9	46
Polk	14576	254759	14178	223605	237	1741	1159	10707	542	22241	635	13222	4707	67305	1671	38263	5227	70123	398	31154	182	17312	164	7711	52	6131
Pottawattamie	2383	34472	2268	29548	52	284	262	1151	93	3775	146	1418	777	9766	178	1339	760	11812	115	4924	70	4168	31	540	14	216
Poweshiek	669	9414	623	8436	21	84	73	567	47	2064	39	612	199	2120	56	816	188	2169	46	978	29	868	7	45	10	65
Ringgold	179	1485	148	1000	16	83	18	90	10	155	10	53	47	349	16	40	31	227	31	485	18	428	6	22	7	35
Sac	481	3491	440	2737	33	123	49	227	32	267	35	186	152	977	37	158	102	794	41	754	25	662	7	38	9	54
Scott	5496	86845	5356	78378	86	622	557	4803	260	14230	229	4985	1854	24339	493	2882	1877	26515	140	8467	98	7000	18	412	24	1055
Shelby	480	4962	437	4007	15	47	43	294	14	254	36	336	163	1551	39	213	127	1310	43	955	28	866	7	31	8	58
Sioux	1177	15486	1119	13691	67	511	157	794	93	4640	76	378	367	3934	99	641	260	2789	58	1795	43	1658	6	30	9	107
Story	2266	39202	2162	25256	59	465	237	1995	94	4102	78	711	731	9448	197	1083	766	7451	104	13946	58	4385	27	8583	19	978
Tama	505	5722	455	4700	20	85	43	201	23	966	28	142	170	1328	39	168	132	1807	50	1022	34	776	8	157	8	89
Taylor	219	1770	184	1283	9	66	23	55	14	422	15	90	63	325	16	66	44	255	35	487	22	422	5	19	8	46
Union	437	6179	378	4922	13	96	50	140	21	1540	19	178	127	1531	31	164	117	1270	59	1257	38	1080	11	91	10	86
Van Buren	235	2158	187	1521	14	88	16	51	16	711	15	60	60	290	19	81	47	236	48	637	34	569	6	23	8	45
Wapello	1111	15558	1036	12824	23	97	107	602	36	2819	64	687	349	4109	89	386	368	4121	75	2734	46	2400	17	192	12	142
Warren	887	8181	827	6349	27	120	121	649	38	555	45	192	258	2482	79	252	259	2096	60	1832	43	1663	6	52	11	117
Washington	728	6969	680	5669	34	191	98	438	50	1371	41	180	241	1943	48	233	168	1311	48	1300	31	1165	7	60	10	75
Wayne	231	1900	198	1357	7	21	14	22	15	442	14	56	75	482	21	77	52	254	33	543	19	481	6	19	8	43
Webster	1472	19682	1401	16833	37	202	137	836	75	3141	70	1713	498	5312	134	564	450	5062	71	2849	38	2352	17	206	16	291
Winnebago	416	5465	383	4680	13	44	48	216	24	1400	29	652	132	1021	36	201	101	1143	33	785	19	707	8	25	6	53
Winneshiek	653	9716	605	7938	33	252	56	679	24	1945	39	251	238	2042	44	270	171	2497	48	1778	31	1612	8	76	9	90
Woodbury	3410	52235	3274	46568	64	309	338	2554	132	7758	195	3248	1092	14171	299	2047	1154	16478	136	5667	84	4414	27	438	25	815
Worth	219	1916	190	1536	10	16	24	107	14	673	8	33	64	349	20	84	50	270	29	380	20	323	3	18	6	39
Wright	564	6246	515	5236	50	527	56	364	38	1483	35	272	160	1594	52	215	124	777	49	1010	35	909	6	24	8	77
State of Iowa	97752	1403671	92115	1187387	2969	19037	9664	62892	4820	260747	5292	64987	31056	352496	8670	82429	29644	344500	5637	216284	3543	150058	1065	46342	1029	19884

Table 2. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1997.

County	Private Business																		Government							
	Grand Total		Private Total		Ag and Mining		Construc-tion		Manufac-turing		Transpor-tation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees
Adair	296	2606	264	2055	15	117	21	140	8	528	18	113	105	658	20	85	77	410	32	551	20	482	5	34	7	35
Adams	168	1472	141	1172	8	39	13	36	10	288	6	26	49	274	12	52	43	453	27	300	13	254	5	14	9	32
Allamakee	480	5280	438	4316	20	98	40	148	33	1533	33	177	168	1334	29	156	115	865	42	964	25	854	6	36	11	74
Appanoose	426	4809	376	4011	11	64	22	65	25	1471	43	291	129	1094	30	168	116	855	50	798	32	654	7	63	11	81
Audubon	251	1875	223	1395	16	87	23	87	9	175	23	81	80	510	17	73	55	380	28	480	16	428	5	14	7	38
Benton	631	5378	575	3926	25	98	78	304	37	860	43	185	200	1403	50	254	142	818	56	1452	42	1212	6	168	8	72
Black Hawk	3627	67968	3510	58147	73	513	322	2630	194	14804	172	2386	1184	16715	357	3272	1208	17825	117	9821	78	6724	25	2529	14	568
Boone	634	8489	581	6436	25	119	58	308	30	928	40	320	203	2926	48	221	177	1612	53	2053	31	1251	10	692	12	110
Bremer	726	9160	675	7816	30	125	64	477	44	2224	31	139	231	1972	70	976	205	1899	51	1344	37	1243	6	35	8	66
Buchanan	586	5962	533	4374	26	99	70	327	38	1398	43	233	186	1479	57	253	113	583	53	1588	37	1107	8	410	8	71
Buena Vista	730	9357	665	7858	33	274	49	205	38	2596	42	169	238	2576	74	354	191	1681	65	1499	43	1310	8	67	14	122
Butler	454	3362	410	2625	25	77	38	130	27	508	29	121	163	1011	37	152	91	622	44	737	30	647	6	31	8	59
Calhoun	382	3269	345	2397	13	59	34	68	23	233	30	85	114	766	32	183	99	1000	37	872	24	700	5	124	8	48
Carroll	944	11030	890	9785	31	164	109	572	46	1520	58	629	321	3353	78	832	247	2711	54	1245	33	1042	9	101	12	102
Cass	591	6323	542	5016	22	86	39	359	33	1133	34	173	192	1741	51	237	171	1284	49	1307	29	1089	11	137	9	81
Cedar	567	5130	524	4089	23	157	70	222	41	875	42	162	180	1501	35	189	133	981	43	1041	27	885	4	39	12	117
Cerro Gordo	1729	25991	1641	23052	40	247	153	975	75	4537	99	906	586	7270	175	1329	513	7784	88	2939	51	2450	23	307	14	182
Cherokee	458	5571	406	4453	19	125	42	328	24	1184	19	116	153	1523	33	179	116	995	52	1118	34	744	9	318	9	56
Chickasaw	451	4935	411	4242	16	81	64	275	31	1712	20	146	145	1109	31	156	104	759	40	693	22	594	7	42	11	57
Clarke	280	3361	252	2711	7	16	21	31	24	1270	22	81	73	741	21	101	84	467	28	650	15	552	4	59	9	39
Clay	750	9151	694	7767	35	215	63	407	37	1393	46	714	260	2717	57	315	196	2004	56	1384	31	1207	13	93	12	84
Clayton	654	7006	597	5769	27	160	50	523	48	1549	30	127	234	1401	54	211	154	1794	57	1237	33	1085	11	43	13	109
Clinton	1460	21989	1379	19262	37	217	143	943	74	5372	80	876	467	4789	133	736	445	6327	81	2727	63	2465	8	116	10	146
Crawford	573	6832	524	5709	12	59	53	259	26	2016	51	417	188	1637	50	201	144	1116	49	1123	30	939	7	83	12	101
Dallas	997	11692	929	9771	54	528	121	903	49	2561	48	756	306	2208	73	437	278	2375	68	1921	52	1749	9	66	7	106
Davis	219	2129	190	1512	6	21	17	46	17	411	13	69	65	535	9	53	63	374	29	617	16	552	5	25	8	40
Decatur	222	2408	176	1773	8	45	22	71	10	346	14	52	69	485	9	46	44	724	46	635	30	555	6	34	10	46
Delaware	517	5367	466	4255	20	73	55	197	38	1518	29	136	167	1445	28	176	129	706	51	1112	31	950	10	97	10	65
Des Moines	1465	23408	1391	20935	26	118	131	1184	79	6952	91	1048	483	5856	124	674	457	5101	74	2473	46	2118	13	144	15	211
Dickinson	811	8385	761	7353	32	128	94	336	36	2392	36	199	267	2275	73	307	223	1712	50	1032	35	915	7	59	8	58
Dubuque	2867	49004	2782	45311	59	354	332	1790	176	11921	151	2094	974	12148	261	1718	829	15283	85	3693	53	3165	16	220	16	308
Emmet	376	4429	336	3565	9	71	36	242	27	797	19	155	118	1063	28	138	99	1096	40	864	24	783	8	30	8	51
Fayette	738	7710	680	6420	24	103	56	216	38	1382	44	302	255	2123	58	292	205	1999	58	1290	35	1113	11	80	12	97

Table 2. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1997 (continued).

County	Private Business																		Government							
	Grand Total		Private Total		Ag and Mining		Construc-tion		Manufac-turing		Transpor-tation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees
Floyd	527	5597	487	4548	18	182	49	266	22	1039	29	180	168	1439	47	219	154	1222	40	1049	22	946	6	41	12	62
Franklin	396	3556	350	2804	22	81	33	207	25	904	13	69	112	847	46	126	99	567	46	752	31	671	6	35	9	46
Fremont	260	2659	223	2164	15	73	24	81	8	664	20	45	69	691	23	109	64	498	37	495	23	418	7	38	7	39
Greene	351	3094	311	2190	17	46	41	165	17	543	19	106	97	688	27	154	93	485	40	904	27	820	6	39	7	45
Grundy	374	3531	335	2731	22	186	29	286	22	563	32	81	109	959	28	183	93	469	39	800	29	745	3	15	7	40
Guthrie	370	3137	324	2353	16	285	32	159	14	135	26	122	111	888	37	205	88	556	46	784	29	687	6	37	11	60
Hamilton	542	7817	492	6563	37	446	38	315	36	2672	19	122	172	1830	38	230	152	945	50	1254	34	1137	7	56	9	61
Hancock	385	6464	335	5707	22	118	32	92	33	3843	20	107	121	960	30	144	77	439	50	757	33	674	5	29	12	54
Hardin	766	8275	701	6537	57	693	77	412	45	1227	44	179	232	2504	60	298	186	1223	65	1738	42	1409	9	244	14	85
Harrison	467	3837	415	2975	18	77	48	136	24	312	31	124	160	1319	38	142	96	862	52	862	37	725	7	48	8	89
Henry	616	10781	574	9075	24	112	60	341	41	2881	30	295	195	3086	55	208	169	2149	42	1706	20	1185	15	449	7	72
Howard	352	3891	324	3179	12	63	31	123	29	1456	19	95	120	771	32	129	81	539	28	712	17	661	4	14	7	37
Humboldt	373	4057	330	3328	23	153	24	154	29	1111	23	180	123	1195	26	124	82	409	43	729	27	648	7	18	9	63
Ida	313	3569	281	3102	12	40	37	234	12	1057	27	286	98	741	25	138	70	604	32	467	21	413	4	15	7	39
Iowa	587	9723	545	8773	12	209	55	235	39	4273	22	148	255	2777	37	152	125	977	42	950	29	843	6	40	7	67
Jackson	694	6318	639	5086	18	73	81	247	44	1437	36	185	223	1681	56	251	181	1210	55	1232	34	1078	11	67	10	87
Jasper	974	14065	901	11614	39	200	97	524	47	4832	47	424	313	3161	80	423	278	2046	73	2451	52	1994	8	338	13	119
Jefferson	817	8975	781	7895	13	73	48	210	48	2265	49	1057	231	2040	76	297	316	1951	36	1080	20	905	8	88	8	87
Johnson	3073	57689	2986	37595	69	378	354	2169	101	4490	107	2190	918	12964	257	1866	1180	13534	87	20094	48	3634	21	14900	18	1560
Jones	582	5867	535	4545	19	108	73	267	39	1256	38	184	179	1569	50	202	137	955	47	1322	27	824	11	435	9	63
Keokuk	333	2564	291	1963	18	123	38	163	17	403	24	93	112	707	21	123	61	349	42	601	28	512	4	24	10	65
Kossuth	636	6399	575	5244	34	225	57	296	36	1101	37	148	213	1846	59	476	139	1149	61	1155	41	1034	8	40	12	81
Lee	1253	18719	1172	16399	22	126	131	818	89	6066	61	762	382	3844	99	486	388	4294	81	2320	57	1619	14	584	10	117
Linn	6161	110636	5989	99528	108	674	632	5276	282	21847	301	7978	1991	25356	558	5850	2117	32544	172	11108	114	9383	23	624	35	1101
Louisa	274	3510	232	2787	10	48	17	56	13	1424	22	129	83	637	24	100	63	388	42	723	25	633	7	26	10	64
Lucas	257	3026	219	2296	6	19	20	60	11	245	16	38	85	1477	22	133	59	321	38	730	22	611	9	78	7	41
Lyon	399	3385	367	2779	23	76	35	122	25	771	37	160	123	900	32	120	92	627	32	606	19	536	5	25	8	45
Madison	395	3483	355	2686	21	195	59	224	17	551	18	46	113	852	36	159	91	656	40	797	27	725	4	18	9	54
Mahaska	684	7566	635	6394	26	143	55	358	41	1335	54	414	218	2219	51	276	190	1647	49	1172	30	1032	9	59	10	81
Marion	880	16314	823	13922	18	155	96	459	47	6727	49	416	293	2863	74	296	246	3003	57	2392	31	1354	8	51	18	987
Marshall	1129	19011	1054	15722	27	335	97	696	48	5558	78	892	368	4173	96	559	340	3506	75	3289	48	2171	14	980	13	138
Mills	318	3557	281	1988	13	41	34	95	12	75	18	111	84	626	30	140	90	897	37	1569	21	678	8	841	8	50
Mitchell	387	3626	348	2950	27	140	34	135	23	956	23	83	128	796	27	143	86	694	39	676	27	612	4	15	8	49

Table 2. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1997 (continued).

County	Private Business																		Government							
	Grand Total		Private Total		Ag and Mining		Construc-tion		Manufac-turing		Transpor-tation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees
Monona	360	3613	318	2959	14	64	25	107	13	200	18	114	134	986	19	127	95	1359	42	654	26	554	8	41	8	59
Monroe	244	2943	216	2418	4	15	21	253	16	982	19	63	75	544	14	64	67	494	28	525	18	468	4	24	6	33
Montgomery	445	5343	400	4412	15	187	39	240	20	1263	24	199	138	1269	40	151	124	1099	45	931	26	807	8	60	11	64
Muscatine	1166	20916	1105	18014	33	213	129	743	87	7716	73	931	352	3634	89	571	342	4205	61	2902	39	2688	10	84	12	130
O'Brien	617	6153	565	5027	23	105	60	241	21	780	44	284	207	1761	45	263	165	1589	52	1126	35	1027	8	34	9	65
Osceola	248	2239	220	1886	8	87	35	116	18	592	20	105	67	459	20	112	52	412	28	353	18	306	4	14	6	33
Page	597	7357	540	5875	19	99	53	195	27	1859	37	181	194	1952	42	224	168	1360	57	1482	36	966	11	440	10	76
Palo Alto	404	3738	361	2732	24	93	37	149	28	652	37	145	111	872	28	120	96	697	43	1006	28	939	6	18	9	49
Plymouth	736	8709	690	7403	33	255	90	398	33	1768	50	665	233	2544	62	375	189	1394	46	1306	30	1184	7	40	9	82
Pocahontas	333	3067	289	2390	13	63	24	67	25	843	15	74	104	755	29	130	79	455	44	677	30	612	4	19	10	46
Polk	14151	247363	13739	216304	236	1712	1100	10230	522	21950	612	12260	4675	65973	1586	36719	5008	67457	412	31059	181	17122	160	8019	71	5918
Pottawattamie	2312	34680	2196	29809	44	255	242	1118	97	4349	141	1325	776	9755	180	1260	716	11746	116	4871	71	4104	28	533	17	234
Poweshiek	642	9096	601	8158	19	89	71	544	49	1918	38	600	191	2120	50	779	183	2105	41	938	28	826	6	47	7	65
Ringgold	175	1454	142	968	15	78	17	90	9	159	11	51	44	331	14	42	32	215	33	486	19	428	6	23	8	35
Sac	478	3432	435	2686	33	131	43	217	28	232	28	172	165	1007	40	155	98	769	43	746	25	652	7	41	11	53
Scott	5347	83928	5208	75349	84	581	537	4751	256	13871	214	4510	1814	23533	474	2974	1829	25126	139	8579	98	6998	18	437	23	1144
Shelby	468	4962	425	4024	17	51	38	253	16	265	36	349	164	1585	37	204	117	1314	43	938	28	844	7	33	8	61
Sioux	1144	14916	1078	13133	60	429	142	738	94	4547	70	361	358	3753	97	548	257	2755	66	1783	43	1643	5	31	18	109
Story	2222	38329	2119	24361	55	480	222	1734	91	3568	81	716	741	9329	191	1024	738	7507	103	13968	59	4224	20	8768	24	976
Tama	490	5698	440	4673	19	107	43	210	22	959	29	144	159	1264	39	168	129	1820	50	1025	31	781	8	154	11	90
Taylor	205	1669	169	1195	9	62	20	37	12	381	15	81	59	322	15	61	39	248	36	474	22	407	5	19	9	48
Union	426	5975	368	4710	13	62	44	152	22	1471	16	167	124	1484	32	159	117	1212	58	1265	36	1083	11	90	11	92
Van Buren	234	2082	184	1459	13	76	14	52	18	662	16	52	62	291	19	77	42	245	50	623	34	554	6	24	10	45
Wapello	1055	15071	982	12406	17	72	96	603	34	2556	65	791	332	3951	86	400	352	4030	73	2665	46	2323	16	195	11	147
Warren	831	8007	772	6184	21	116	121	684	36	516	43	214	241	2374	76	235	234	2042	59	1823	42	1648	5	56	12	119
Washington	698	6768	649	5502	31	174	84	407	45	1311	38	181	235	1894	51	231	165	1301	49	1266	31	1129	7	61	11	76
Wayne	235	1952	200	1404	7	16	13	25	16	462	15	61	74	479	20	80	55	278	35	548	19	482	6	21	10	45
Webster	1434	18924	1367	16203	34	188	139	815	76	2817	67	1576	479	5200	138	571	434	5034	67	2721	37	2206	16	214	14	301
Winnebago	399	5379	367	4584	12	41	45	186	25	1284	30	633	126	1035	33	175	96	1226	32	795	19	717	7	25	6	53
Winneshiek	645	9495	594	7748	34	251	54	695	25	1771	36	252	237	2028	39	258	169	2491	51	1747	31	1578	8	77	12	92
Woodbury	3389	52511	3242	46324	64	300	333	3176	140	7129	181	3167	1103	14194	277	1919	1144	16434	147	6187	84	4926	25	450	38	811
Worth	219	1883	190	1489	12	27	25	131	12	580	6	38	62	351	22	79	51	279	29	394	20	337	3	19	6	38
Wright	561	6068	510	5065	50	459	49	302	36	1498	38	265	163	1566	52	211	122	760	51	1003	34	901	6	23	11	79
State of Iowa	94895	1369256	89198	1153554	2750	17571	9076	59844	4750	253317	5051	61659	30751	345639	8367	79453	28453	335768	5697	215702	3534	148599	1023	46755	1140	20348

Table 3. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1993.

County	Private Business																		Government											
	Grand Total		Private Total		Ag and Mining		Construc- tion		Manufac- turing		Transpor- tation		Trade		Finance		Services		Government Total		Local		State		Federal					
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees				
Adair	274	2372	245	1861	13	100	25	115	9	385	16	124	98	672	18	80	66	383	29	511	19	433	5	34	5	44				
Adams	155	1487	132	1222	4	28	14	34	9	393	9	40	52	286	12	57	32	382	23	265	12	211	5	15	6	39				
Allamakee	489	4878	449	3950	19	259	33	118	28	1186	34	225	185	1282	30	156	120	720	40	928	26	817	6	38	8	73				
Appanoose	426	4406	379	3601	13	65	29	75	18	1235	42	285	145	1038	27	122	105	778	47	805	33	657	7	56	7	92				
Audubon	250	1889	227	1444	11	75	16	82	14	194	22	97	92	528	19	83	53	383	23	445	15	388	4	13	4	44				
Benton	618	5037	569	3710	17	57	71	268	33	630	38	180	211	1607	46	233	153	731	49	1327	38	1079	7	174	4	74				
Black Hawk	3687	62152	3559	52584	77	401	298	2286	207	14312	148	1829	1274	15856	338	2882	1217	15016	128	9568	83	6574	27	2413	18	581				
Boone	643	8043	595	5802	18	144	60	219	30	815	41	289	215	2783	59	262	172	1287	48	2241	31	1266	10	863	7	112				
Bremer	705	8374	656	7065	25	111	63	394	44	1684	23	137	243	1963	59	1159	199	1614	49	1309	37	1209	6	32	6	68				
Buchanan	551	5168	499	3640	24	70	62	260	33	931	43	215	183	1409	49	232	105	521	52	1528	37	996	9	454	6	78				
Buena Vista	759	8796	691	7366	29	193	46	160	34	2522	41	187	271	2360	73	360	197	1581	68	1430	49	1240	8	65	11	125				
Butler	465	3243	419	2468	19	62	31	118	24	416	29	127	193	1028	31	148	92	566	46	775	35	678	5	31	6	66				
Calhoun	433	3247	384	2441	9	32	35	74	28	284	36	136	133	737	38	170	105	1006	49	806	38	638	5	114	6	54				
Carroll	933	10003	877	8857	27	109	110	428	53	1389	63	587	314	3320	75	709	235	2311	56	1146	35	976	11	62	10	108				
Cass	616	5995	571	4755	23	84	49	322	24	1060	29	141	227	1870	51	203	168	1073	45	1240	29	1008	11	154	5	78				
Cedar	553	5015	514	4030	16	148	61	177	35	1159	41	131	198	1506	33	203	130	703	39	985	27	821	5	42	7	122				
Cerro Gordo	1743	22816	1657	19837	39	151	125	846	78	3753	82	757	627	6682	170	1048	536	6596	86	2979	49	2458	24	329	13	192				
Cherokee	465	5297	408	4112	23	91	40	282	23	1281	23	149	150	1327	33	179	116	800	57	1185	39	713	10	409	8	63				
Chickasaw	447	4517	412	3842	13	43	48	202	27	1466	23	170	169	1076	28	146	104	736	35	675	22	561	7	50	6	64				
Clarke	288	2897	257	2301	5	12	18	31	26	965	18	98	84	735	23	91	83	366	31	596	17	494	5	59	9	43				
Clay	730	7831	676	6470	21	176	57	337	32	1140	44	497	280	2473	53	295	189	1547	54	1361	32	1166	14	101	8	94				
Clayton	616	5827	559	4465	21	100	38	340	49	1419	33	174	229	1393	50	203	139	834	57	1362	38	1201	10	43	9	118				
Clinton	1454	20337	1376	17938	30	191	127	958	77	5336	78	667	515	4434	117	713	432	5637	78	2399	63	2132	8	114	7	153				
Crawford	601	6304	552	5107	8	53	48	232	34	1654	48	281	207	1672	54	201	153	1012	49	1197	33	995	8	94	8	108				
Dallas	878	8984	809	7344	40	364	95	480	41	1984	42	390	292	1993	66	442	233	1688	69	1640	53	1474	10	64	6	102				
Davis	220	1963	193	1361	5	20	12	36	17	364	13	78	78	500	11	55	57	304	27	602	16	530	5	24	6	48				
Decatur	240	2289	197	1678	9	36	18	54	12	320	17	53	75	447	12	55	54	710	43	611	29	522	7	37	7	52				
Delaware	509	4789	460	3643	19	94	46	154	40	1306	31	121	176	1287	29	162	119	516	49	1146	33	966	10	108	6	72				
Des Moines	1438	21463	1363	19041	24	105	119	1011	81	6491	84	878	506	5329	120	694	429	4529	75	2422	47	2093	15	132	13	197				
Dickinson	751	7433	707	6497	23	83	78	265	32	2022	26	170	284	2109	62	272	202	1572	44	936	33	812	7	65	4	59				
Dubuque	2844	46047	2755	42593	51	247	311	1672	149	12481	138	1814	1026	11073	241	1637	839	13665	89	3454	59	2944	14	189	16	321				
Emmet	380	4094	342	3191	9	43	29	180	27	772	19	191	130	928	25	131	103	943	38	903	22	819	9	31	7	53				
Fayette	767	6726	715	5617	22	70	63	197	46	1049	37	275	288	2218	50	268	209	1538	52	1109	34	928	11	80	7	101				



Table 3. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1993 (continued).

County	Private Business																		Government							
	Grand Total		Private Total		Ag and Mining		Construc- tion		Manufac- turing		Transpor- tation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees
Floyd	534	5586	496	4583	13	132	47	250	21	1201	28	151	191	1339	43	234	153	1274	38	1003	25	898	6	41	7	64
Franklin	395	3354	351	2630	17	112	28	212	26	700	19	96	121	831	39	122	101	553	44	724	33	634	7	35	4	55
Fremont	270	2661	235	2164	12	77	20	52	7	640	20	41	82	766	23	89	71	496	35	497	23	415	7	38	5	44
Greene	348	3097	309	2231	16	38	40	114	18	480	19	112	104	726	26	155	86	602	39	866	28	768	6	43	5	55
Grundy	391	3317	354	2579	22	211	33	198	21	538	32	140	119	896	23	136	104	458	37	738	29	673	4	17	4	48
Guthrie	369	2713	322	1970	13	146	38	142	13	69	26	142	116	734	37	178	79	556	47	743	34	640	6	36	7	67
Hamilton	542	7162	495	5938	20	239	47	224	42	2365	24	101	175	1797	39	213	148	996	47	1224	32	1104	7	52	8	68
Hancock	396	3425	351	2671	17	72	24	42	29	933	18	105	146	943	33	140	84	433	45	754	31	657	5	36	9	61
Hardin	756	7429	691	5708	54	299	65	334	38	1196	44	161	259	2441	58	295	173	979	65	1721	45	1386	10	246	10	89
Harrison	443	3460	393	2602	13	52	42	119	14	218	26	105	165	1263	39	141	94	700	50	858	37	717	7	49	6	92
Henry	586	9646	540	8053	14	83	48	288	40	2517	27	204	207	3089	53	216	151	1653	46	1593	24	1092	15	426	7	75
Howard	337	3331	312	2631	9	26	26	99	31	989	23	116	120	728	23	102	80	568	25	700	16	640	4	16	5	44
Humboldt	379	3460	344	2762	23	131	22	141	25	791	25	163	136	957	25	126	88	451	35	698	24	614	6	15	5	69
Ida	303	3264	271	2764	10	33	32	193	12	884	29	294	100	673	21	142	67	540	32	500	23	438	4	15	5	47
Iowa	580	9338	539	8482	9	243	58	215	41	4325	25	118	258	2641	35	139	113	797	41	856	29	741	6	41	6	74
Jackson	647	6162	593	4888	14	76	64	225	40	1518	28	196	243	1619	49	256	155	995	54	1274	37	1120	10	69	7	85
Jasper	953	12191	886	9967	29	143	96	436	45	3783	49	428	315	2952	80	408	272	1814	67	2224	49	1941	10	168	8	115
Jefferson	751	7477	715	6427	12	57	50	269	52	1936	32	313	219	1642	77	263	273	1945	36	1050	21	875	8	89	7	86
Johnson	2796	51546	2716	32354	53	341	311	1829	97	4248	102	1692	906	11453	224	1613	1023	11175	80	19192	42	3091	19	14435	19	1666
Jones	562	5271	517	4043	12	87	59	201	34	1014	29	170	212	1455	45	208	126	903	45	1228	28	754	11	404	6	70
Keokuk	353	2357	313	1772	20	158	21	104	17	192	32	101	137	743	25	128	61	343	40	585	30	487	4	24	6	74
Kossuth	651	5766	593	4628	23	114	51	254	29	1028	43	129	236	1786	59	351	152	963	58	1138	41	1004	8	41	9	93
Lee	1250	16892	1169	14644	22	96	116	603	82	5864	72	767	404	3599	99	486	374	3226	81	2248	60	1565	13	563	8	120
Linn	5805	97183	5641	86401	90	657	547	4908	287	20703	268	5958	2006	22791	523	5317	1920	26065	164	10782	112	9122	23	563	29	1097
Louisa	307	3757	262	3107	11	37	19	53	15	1724	20	115	96	629	23	103	78	442	45	650	32	553	6	24	7	73
Lucas	257	3134	216	2450	9	25	20	53	10	222	12	56	82	1686	17	108	66	297	41	684	25	553	10	80	6	51
Lyon	377	3285	347	2680	15	75	37	117	29	799	30	109	123	849	25	116	88	612	30	605	21	528	5	25	4	52
Madison	382	3039	347	2323	22	176	44	179	16	421	15	49	128	757	28	139	94	599	35	716	24	634	4	22	7	60
Mahaska	674	6720	627	5620	18	85	41	286	41	1118	37	217	229	2014	58	290	203	1607	47	1100	31	957	8	58	8	85
Marion	825	14050	776	11678	26	225	93	407	51	5214	36	438	276	2535	62	291	232	2565	49	2372	30	1191	7	47	12	1134
Marshall	1133	17448	1054	14360	26	143	83	699	52	5117	72	622	383	3931	103	577	335	3268	79	3088	56	2166	14	780	9	142
Mills	317	3596	278	1969	12	40	31	54	10	80	18	139	91	639	27	117	89	896	39	1627	25	611	9	965	5	51
Mitchell	380	3281	346	2626	24	126	30	87	20	716	24	100	143	759	23	141	82	693	34	655	25	586	5	19	4	50

Table 3. Employers (ers) and Employees (ees) in Selected Private Business/Government Categories in Iowa's Counties, 1993 (continued).

County	Private Business																		Government							
	Grand Total		Private Total		Ag and Mining		Construc- tion		Manufac- turing		Transpor- tation		Trade		Finance		Services		Government Total		Local		State		Federal	
	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees	ers	ees
Monona	352	3322	313	2679	17	116	22	77	14	173	17	118	136	793	20	133	87	1267	39	643	26	536	7	44	6	63
Monroe	253	2709	225	2205	3	9	25	229	13	785	24	75	76	470	15	65	69	568	28	504	19	438	4	25	5	41
Montgomery	440	4909	398	4057	18	131	42	222	16	1110	24	205	141	1138	38	156	119	1092	42	852	26	733	9	61	7	58
Muscatine	1157	20105	1096	17241	28	163	101	602	93	8019	71	733	370	3462	84	515	349	3743	61	2864	41	2645	10	86	10	133
O'Brien	609	5759	556	4731	18	64	56	170	29	751	40	272	219	1690	41	264	153	1516	53	1028	35	909	10	45	8	74
Osceola	233	2016	204	1668	6	26	22	86	16	552	27	125	69	432	19	101	45	343	29	348	19	288	4	16	6	44
Page	635	6678	584	5443	17	165	61	180	30	1557	32	188	232	1928	38	202	174	1220	51	1235	35	847	10	308	6	80
Palo Alto	361	3280	321	2202	8	19	16	35	27	382	30	134	122	852	31	124	87	653	40	1078	28	996	6	24	6	58
Plymouth	722	7994	677	6742	20	121	70	286	35	1729	47	520	250	2351	60	358	195	1374	45	1252	31	1128	7	39	7	85
Pocahontas	341	2853	295	2138	14	43	29	73	24	572	14	46	101	821	31	124	82	455	46	715	33	636	6	23	7	56
Polk	13687	224826	13257	195964	196	1287	1029	8436	530	22543	522	11026	4811	59818	1425	33551	4744	59300	430	28862	184	15960	176	7325	70	5577
Pottawattamie	2322	28419	2201	23701	52	235	214	813	91	4217	125	1176	823	8656	157	1118	739	7483	121	4718	75	3953	31	497	15	268
Poweshiek	663	8412	622	7516	11	37	70	426	38	1895	42	669	223	1880	49	771	189	1834	41	896	30	784	6	49	5	63
Ringgold	163	1360	132	908	5	18	11	66	10	188	10	70	44	297	14	39	38	226	31	452	18	388	8	21	5	43
Sac	481	3227	437	2504	24	121	34	109	29	237	26	123	177	984	39	166	108	760	44	723	30	627	6	36	8	60
Scott	5198	73767	5062	65975	87	508	477	3414	241	12699	212	3774	1917	22127	452	2986	1676	20463	136	7792	97	6813	19	431	20	548
Shelby	471	4438	431	3587	12	37	31	227	19	353	32	269	175	1305	40	175	122	1217	40	851	26	747	7	35	7	69
Sioux	1069	13268	1007	11640	49	353	127	480	73	4035	73	309	365	3581	77	426	243	2454	62	1628	44	1484	5	35	13	109
Story	2099	34740	2005	21245	52	373	177	1360	80	2690	84	698	754	8493	175	1006	683	6620	94	13495	54	4131	20	8396	20	968
Tama	500	5253	446	4221	14	167	34	199	24	762	35	161	179	1266	38	177	122	1486	54	1032	37	776	8	157	9	99
Taylor	207	1562	173	1090	6	66	17	17	9	140	20	68	71	506	13	58	37	232	34	472	23	399	5	20	6	53
Union	435	5485	378	4263	10	39	33	150	21	1431	23	172	135	1484	34	161	122	822	57	1222	37	1033	11	87	9	102
Van Buren	228	1764	189	1161	10	52	15	45	14	435	16	54	71	283	17	68	46	221	39	603	28	528	6	26	5	49
Wapello	1060	14695	988	12121	17	57	87	466	34	3228	56	753	365	3733	84	377	345	3505	72	2574	48	2202	16	225	8	147
Warren	809	7056	751	5341	18	99	100	528	39	488	36	177	253	2019	71	277	234	1751	58	1715	44	1542	5	53	9	120
Washington	677	6179	634	5029	29	137	68	289	39	1167	36	165	257	1879	51	218	154	1171	43	1150	30	994	7	78	6	78
Wayne	241	1925	210	1383	7	26	10	13	16	474	23	71	78	462	17	75	59	260	31	542	21	470	5	19	5	53
Webster	1393	17458	1322	14673	36	136	114	569	64	2634	71	1331	498	4930	118	559	421	4510	71	2785	40	2255	16	205	15	325
Winnebago	412	7589	379	6832	10	43	36	154	27	3654	30	828	139	929	44	186	93	1035	33	757	21	673	7	28	5	56
Winneshiek	690	8526	639	6741	25	195	60	578	24	1414	30	278	269	2034	45	228	186	2011	51	1785	31	1608	9	78	11	99
Woodbury	3305	48583	3171	42748	60	230	286	1983	149	6949	179	2955	1158	13414	271	2117	1068	15096	134	5835	82	4499	25	507	27	829
Worth	215	1740	187	1355	10	25	26	103	10	497	7	61	68	342	20	74	46	250	28	385	20	317	4	24	4	44
Wright	543	5396	495	4443	25	194	47	180	38	1630	33	321	172	1167	49	224	131	723	48	953	33	850	6	29	9	74
State of Iowa	92948	1239410	87388	1033085	2320	13664	8105	48359	4635	235331	4762	53066	32396	321110	7843	74070	27327	287173	5560	206325	3631	141143	1060	45003	869	20179

Table 4. Average Weekly Wages (in dollars) in Selected Private Business/Government Categories in Iowa's Counties, 1993, 1997, and 1998.

County	Private Business																											Government											
	Grand Average			Private Average			Ag and Mining			Construc-tion			Manufac-turing			Transpor-tation			Trade			Finance			Services			Government Average			Local			State			Federal		
	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93			
Adair	411	388	339	419	392	337	651	629	527	467	456	382	590	546	526	481	473	403	296	260	233	552	500	470	288	273	219	380	375	348	352	347	319	545	522	474	631	618	528
Adams	376	367	317	370	363	306	468	450	396	303	332	265	493	470	356	375	479	451	255	237	220	404	412	322	361	358	301	401	382	363	376	349	326	493	476	428	556	606	540
Allamakee	355	340	295	348	331	283	363	335	319	350	337	316	410	386	318	671	622	481	267	258	226	503	478	408	271	262	220	387	379	347	355	350	322	667	608	550	640	604	520
Appanoose	397	375	346	382	358	336	381	354	389	366	323	283	486	455	416	498	502	611	230	235	210	393	369	398	346	301	270	474	459	388	440	429	360	631	582	503	628	608	522
Audubon	353	335	295	337	320	276	406	426	342	358	357	292	401	346	292	469	462	417	326	301	257	420	433	353	259	252	226	400	376	356	383	359	337	482	445	434	565	543	504
Benton	402	380	322	386	366	306	380	399	343	468	459	392	516	489	397	700	498	392	297	295	265	484	462	399	265	260	233	444	420	366	424	401	341	534	500	439	576	560	563
Black Hawk	516	509	446	507	504	439	343	337	311	553	532	458	805	837	714	539	528	504	325	313	267	549	504	431	420	403	352	565	538	484	498	469	422	690	672	600	807	761	694
Boone	447	419	359	427	393	330	366	430	284	476	464	344	501	501	452	480	497	470	401	374	305	1090	442	346	335	321	277	508	500	434	444	451	379	608	565	497	658	663	571
Bremer	447	426	375	451	427	378	557	525	535	492	461	413	580	555	545	412	381	323	295	275	230	647	599	479	350	338	295	425	415	363	408	399	349	601	538	456	656	657	568
Buchanan	439	419	363	426	410	341	316	302	243	414	385	345	572	540	485	522	475	413	326	325	272	510	484	392	300	292	233	475	445	415	385	369	338	664	620	563	702	610	530
Buena Vista	406	388	340	403	380	335	363	300	287	455	417	363	477	450	395	505	476	446	312	294	258	566	560	461	378	365	314	424	428	367	397	395	335	670	617	532	666	680	593
Butler	369	350	293	365	343	278	348	401	281	424	388	372	528	505	395	535	498	398	292	276	235	423	440	347	277	250	207	384	377	341	357	351	320	622	600	517	584	551	473
Calhoun	347	343	306	317	317	283	328	343	338	309	311	259	394	385	364	445	433	431	290	274	242	410	405	378	293	308	255	432	413	374	379	363	330	656	624	531	595	609	564
Carroll	401	377	323	396	373	318	417	424	445	413	407	313	525	494	436	639	575	529	347	323	268	422	394	369	325	303	244	439	415	362	398	377	330	645	606	525	661	622	556
Cass	398	376	326	379	354	305	334	352	356	601	576	450	517	506	421	406	360	367	276	252	226	468	450	373	296	279	258	470	462	410	428	424	374	707	647	564	678	653	568
Cedar	379	365	302	366	350	284	344	301	210	402	394	330	507	475	331	470	458	398	307	299	257	506	484	418	291	274	208	432	423	380	406	399	355	581	537	498	577	572	505
Cerro Gordo	442	421	373	433	411	364	253	245	264	514	495	405	554	525	461	585	534	492	303	288	257	541	533	445	441	420	387	512	496	431	476	464	395	672	622	564	742	712	663
Cherokee	415	401	354	399	386	331	372	358	293	526	539	422	508	505	402	438	425	387	320	300	270	482	459	397	326	313	265	481	459	434	392	380	346	665	617	570	625	616	552
Chickasaw	430	413	351	434	413	345	292	272	348	429	411	327	558	545	463	304	294	238	316	315	252	494	449	407	333	291	267	404	413	381	366	376	352	626	607	540	657	652	512
Clarke	383	361	307	367	349	291	388	447	434	378	277	296	443	428	351	566	548	357	241	225	215	484	458	383	290	281	244	455	409	367	402	367	321	724	670	627	624	609	535
Clay	430	418	365	418	407	352	367	375	252	528	526	403	585	574	448	524	480	443	321	314	290	517	499	428	370	354	337	496	483	425	468	458	401	694	644	579	686	668	563
Clayton	395	382	323	376	364	305	286	288	311	622	634	474	424	398	345	429	426	398	285	274	225	543	504	431	314	311	251	481	466	382	463	449	369	611	582	499	614	597	475
Clinton	454	439	387	455	439	383	383	410	342	590	558	510	709	705	587	511	489	490	287	274	242	475	444	376	336	313	268	450	441	415	431	425	396	604	558	492	660	628	623
Crawford	410	396	346	398	384	335	386	320	243	421	425	365	526	490	466	467	496	462	263	257	227	453	470	389	322	315	253	472	456	390	433	418	350	703	658	608	650	637	569
Dallas	486	457	364	494	463	357	412	396	373	686	652	433	518	489	429	705	640	533	356	345	283	623	574	462	452	413	270	448	427	390	431	410	374	599	559	507	654	624	556
Davis	406	371	324	397	360	307	316	394	309	361	321	250	533	490	416	615	612	460	302	280	250	594	545	441	305	263	217	428	399	363	409	378	348	579	549	468	614	591	479
Decatur	339	331	284	321	312	259	372	390	301	376	269	316	341	339	258	637	616	536	229	232	198	349	394	291	341	327	269	390	384	352	360	358	326	606	564	510	599	570	497
Delaware	458	418	363	455	408	352	471	399	364	520	432	377	580	542	447	727	492	442	341	309	269	580	455	396	329	294	275	468	454	400	438	429	375	715	625	564	610	561	491
Des Moines	504	478	426	502	474	423	418	382	314	567	555	508	713	685	595	608	559	504	301	282	263	491	468	394	400	373	337	517	508	449	486	482	430	634	596	519	777	710	609
Dickinson	397	380	323	391	370	313	327	324	302	379	365	299	538	485	420	545	519	523	279	277	235	547	490	391	324	302	248	444	444	395	425	429	372	565	530	503	618	598	583
Dubuque	509	492	428	507	491	424	347	330	337	615	599	483	730	701	588	625	596	550	332	316	275	555	530	451	444	437	369	531	513	472	502	486	446	655	605	519	754	724	683
Emmet	430	392	348	425	383	343	447	434	387	619	520	539	549	525	493	521	502	378	341	284	237	491	481	351	334	312	278	454	433	363	437	415	347	580	564	465	652	626	561
Fayette	376	365	324	364	351	311	305	326	312	342	317	282	471	465	411	496	480	441	303	295	260	435	410	354	337	308	290	434	437	390	401	407	355	651	614	558	647	635	575

Table 4. Average Weekly Wages (in dollars) in Selected Private Business/Government Categories in Iowa's Counties, 1993, 1997, and 1998 (continued).

County	Private Business																		Government																				
	Grand Average			Private Average			Ag and Mining			Construction			Manufacturing			Transportation			Trade			Finance			Services			Government Average			Local			State			Federal		
	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93			
Floyd	407	394	359	398	386	350	380	337	313	585	546	433	576	581	544	451	430	410	282	273	238	428	416	404	332	314	257	444	430	397	425	412	381	606	595	484	628	602	566
Franklin	436	410	337	445	416	330	369	325	280	495	441	342	546	493	382	554	543	400	338	337	277	458	441	363	407	395	334	402	390	361	380	370	341	574	546	477	590	555	517
Fremont	487	469	393	506	487	403	405	378	361	420	426	314	773	798	660	441	391	342	316	347	284	492	465	470	336	308	264	400	390	352	369	364	323	560	497	470	563	559	522
Greene	401	385	323	396	377	312	367	369	272	365	366	308	517	492	383	525	503	446	309	307	285	526	454	437	321	303	235	414	406	352	393	386	330	679	644	527	575	558	509
Grundy	443	427	349	454	438	351	401	304	248	641	684	504	493	474	418	478	475	435	379	351	276	612	603	463	386	407	339	396	391	344	378	376	326	598	603	481	599	599	548
Guthrie	347	328	297	335	312	272	447	410	365	500	496	374	275	213	247	552	543	425	274	257	248	453	410	332	256	236	198	385	377	362	363	354	341	512	470	451	566	576	518
Hamilton	438	420	353	438	417	348	463	437	424	481	417	332	523	506	429	441	437	394	345	329	284	482	471	453	319	315	230	435	437	377	417	422	361	609	571	513	622	589	525
Hancock	477	442	323	485	447	314	380	354	275	398	408	235	558	514	412	727	624	514	282	269	242	392	388	337	294	264	223	417	401	355	389	373	330	688	670	568	620	613	499
Hardin	453	397	339	457	388	328	539	479	449	800	423	324	484	484	390	496	504	417	389	353	307	468	451	413	342	270	230	436	430	374	401	401	340	588	542	509	631	582	526
Harrison	368	345	304	349	324	283	398	395	387	429	392	331	408	397	372	452	459	425	327	293	254	461	387	358	314	298	258	434	419	367	397	384	336	559	547	466	703	638	557
Henry	471	439	388	464	429	378	299	316	287	486	481	427	623	575	481	512	489	502	413	378	336	434	406	396	327	297	277	510	495	442	436	425	377	689	660	589	659	623	552
Howard	405	384	301	408	381	289	316	323	299	395	363	277	502	479	383	475	481	402	295	267	211	476	464	411	264	257	182	388	394	347	375	379	332	587	543	487	582	601	520
Humboldt	422	412	343	423	410	338	403	385	318	479	489	413	484	476	414	605	605	554	385	356	283	473	460	422	277	273	206	415	418	361	391	396	345	599	582	486	614	595	474
Ida	439	420	362	444	422	365	315	273	245	591	490	382	591	582	513	559	455	424	279	277	254	478	470	373	295	278	232	411	408	344	385	386	322	558	500	449	646	608	510
Iowa	534	516	388	547	529	392	337	299	168	504	508	442	640	639	523	679	668	520	517	465	234	631	631	528	275	251	214	406	391	352	387	373	330	528	495	490	569	560	495
Jackson	347	333	293	323	309	272	372	420	412	419	382	317	399	387	316	374	360	409	270	254	219	443	413	346	248	243	227	448	429	371	427	408	355	557	525	451	627	615	513
Jasper	554	506	434	568	515	443	387	367	335	517	502	458	867	769	677	556	563	534	341	275	251	508	473	447	322	301	254	488	468	392	454	439	369	635	580	542	670	635	564
Jefferson	518	518	378	523	525	375	399	390	302	454	427	308	606	626	483	751	663	533	431	488	301	560	535	499	423	388	300	475	460	398	438	423	366	680	635	537	667	668	586
Johnson	523	508	452	420	402	351	393	404	340	573	544	501	629	618	529	620	590	507	284	273	241	539	511	450	408	385	335	730	707	622	506	478	429	784	761	662	729	722	638
Jones	393	383	352	363	357	326	455	445	552	378	356	302	481	491	440	497	539	498	286	270	240	452	400	358	278	270	281	497	476	437	387	374	345	698	658	598	574	557	495
Keokuk	403	389	298	408	393	286	364	296	266	514	499	367	552	568	314	617	580	541	340	325	256	494	465	433	257	243	194	387	377	332	357	348	299	607	574	482	547	531	496
Kossuth	383	364	321	379	358	316	434	376	242	369	369	300	564	552	492	445	376	344	294	283	248	484	430	420	274	255	230	401	390	337	377	368	314	621	587	482	613	578	518
Lee	484	455	410	478	447	404	255	270	252	559	513	430	686	646	558	588	563	529	290	270	233	464	449	472	321	298	275	531	513	451	470	457	399	675	636	566	686	667	590
Linn	601	557	482	605	559	483	427	379	351	693	660	557	871	828	725	757	705	598	392	367	311	800	678	544	502	458	392	563	540	473	526	505	437	672	626	557	819	797	727
Louisa	420	392	351	412	382	337	436	436	456	403	437	390	497	426	396	446	475	451	313	310	227	443	435	387	265	283	209	449	431	414	425	405	388	533	543	485	659	638	592
Lucas	420	404	400	418	400	406	337	366	305	484	573	446	408	381	345	513	482	460	438	416	431	447	444	433	310	286	295	424	417	380	390	387	350	627	581	506	558	544	512
Lyon	368	352	300	358	340	288	392	451	284	490	402	337	421	411	349	492	418	403	267	260	227	474	454	374	326	302	249	416	405	353	396	382	329	616	562	524	553	598	508
Madison	385	360	306	366	340	283	459	448	373	385	382	307	453	427	326	589	538	580	301	281	246	443	415	348	295	269	229	449	425	380	434	412	364	603	543	467	617	566	510
Mahaska	427	390	334	421	379	321	375	423	390	790	414	368	533	524	438	558	539	441	280	267	247	527	496	421	358	341	289	462	451	396	442	433	376	576	541	488	637	615	567
Marion	522	508	437	522	496	419	475	465	423	483	466	423	696	672	571	550	508	441	278	265	231	526	473	448	343	328	286	524	577	529	423	418	390	590	562	505	793	797	677
Marshall	508	473	427	511	473	432	381	306	410	540	535	518	678	668	608	508	484	489	308	292	269	938	511	413	386	377	327	493	469	407	432	424	360	597	546	505	676	633	595
Mills	424	394	341	345	319	261	589	509	488	529	474	307	368	367	210	469	463	457	281	262	234	561	544	421	302	278	222	525	488	438	404	380	335	615	569	497	611	605	568
Mitchell	388	378	323	381	371	315	520	500	366	411	347	314	506	504	454	489	430	360	260	251	223	515	493	426	273	274	235	417	409	355	398	391	336	685	636	530	593	570	507

Table 4. Average Weekly Wages (in dollars) in Selected Private Business/Government Categories in Iowa's Counties, 1993, 1997, and 1998 (continued).

County	Private Business																		Government																				
	Grand Average			Private Average			Ag and Mining			Construc-tion			Manufac-turing			Transpor-tation			Trade			Finance			Services			Government Average			Local			State			Federal		
	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93			
Monona	357	332	295	345	315	278	449	358	207	528	536	438	467	437	464	405	344	379	278	255	229	453	454	377	340	305	260	409	411	369	384	386	344	549	519	456	567	572	519
Monroe	471	449	369	481	460	373	397	424	524	542	524	453	696	680	526	507	530	405	224	210	206	533	514	453	250	254	254	423	397	352	396	370	329	634	605	516	645	628	494
Montgomery	403	394	345	397	385	334	400	370	379	535	527	402	535	503	472	595	552	478	305	285	244	461	442	428	288	300	229	429	434	398	403	410	376	596	574	505	644	613	561
Muscatine	583	556	485	592	565	491	352	345	310	764	617	499	813	811	682	655	606	604	278	259	234	641	601	434	385	366	311	524	506	449	515	497	440	584	553	501	678	647	593
O'Brien	368	354	305	361	346	291	451	419	494	398	391	333	502	460	403	612	603	462	295	290	231	481	474	414	292	274	238	400	390	368	381	372	344	608	546	495	592	580	579
Osceola	383	364	324	374	356	319	355	348	324	458	481	456	447	427	378	459	453	366	292	304	269	440	387	343	281	249	229	432	409	349	409	385	328	580	532	463	593	573	450
Page	423	399	338	407	384	320	375	338	287	391	387	316	594	556	454	509	477	487	265	252	221	466	464	540	340	318	252	481	460	417	400	383	351	635	603	557	622	608	574
Palo Alto	369	348	291	355	333	274	395	377	241	271	471	216	441	381	278	486	497	401	269	260	229	574	499	620	315	285	243	405	389	326	392	375	312	617	576	533	580	572	489
Plymouth	451	424	377	454	426	377	347	300	427	394	362	382	705	650	536	624	604	509	314	296	264	539	548	471	300	302	293	434	416	377	416	397	362	601	579	506	615	614	529
Pocahontas	413	389	335	418	390	338	650	576	541	406	367	360	520	506	409	440	414	474	319	311	327	430	480	415	335	256	212	396	386	325	375	365	304	617	594	480	594	579	504
Polk	601	572	486	594	565	475	501	470	396	686	655	555	732	735	623	660	631	560	467	438	371	827	771	603	521	499	427	650	620	561	573	543	478	741	669	596	753	777	754
Pottawattamie	442	412	359	427	397	341	416	384	350	522	491	436	535	495	408	625	590	534	328	308	262	580	490	415	423	393	343	531	510	451	511	490	427	602	566	526	748	721	662
Poweshiek	477	452	399	483	457	403	348	300	270	565	545	473	557	541	467	653	591	515	263	256	228	603	560	476	521	489	431	421	411	371	397	388	345	620	563	520	610	602	573
Ringgold	376	345	274	355	325	250	356	353	202	677	664	395	389	354	268	417	373	360	285	241	219	422	354	312	290	265	196	420	385	322	404	367	303	566	508	484	524	530	418
Sac	373	343	288	364	328	274	358	400	395	365	349	292	581	406	352	464	428	380	323	298	254	500	446	365	294	281	217	407	397	335	382	371	309	584	551	487	598	591	520
Scott	526	508	444	523	507	440	371	345	315	675	687	528	815	799	694	608	595	542	375	358	321	694	647	558	445	422	364	548	522	472	537	513	454	637	602	542	592	545	646
Shelby	356	345	304	341	330	289	376	376	399	512	548	497	493	465	380	425	393	331	303	287	250	495	480	399	270	270	237	418	410	370	401	392	352	503	506	463	627	602	520
Sioux	397	378	317	393	373	312	347	347	258	471	425	353	500	467	387	432	388	359	292	279	247	414	406	371	333	328	267	426	411	357	408	392	338	580	555	478	670	649	572
Story	507	488	417	423	406	330	520	487	378	522	522	400	632	648	541	526	482	417	291	270	236	508	493	425	422	408	325	659	630	554	498	482	412	721	683	609	827	799	683
Tama	413	377	322	401	363	302	354	277	249	461	413	347	517	494	426	559	528	426	335	246	227	471	462	377	365	352	279	470	443	404	425	401	361	616	573	528	608	586	537
Taylor	341	314	270	331	293	238	319	304	334	335	269	238	401	339	280	557	489	335	213	208	205	366	384	340	283	251	207	369	365	344	336	332	316	553	474	459	593	602	512
Union	393	374	336	374	354	310	406	386	366	362	356	310	470	449	362	668	646	556	277	266	240	474	457	402	321	291	273	469	451	425	435	419	400	646	617	519	710	668	593
Van Buren	388	367	307	388	365	306	510	447	372	486	454	374	455	444	391	604	620	525	252	212	188	435	412	359	223	229	193	389	371	308	367	348	284	549	531	484	577	568	477
Wapello	448	442	400	440	434	394	452	413	350	540	544	382	710	744	606	570	533	486	274	263	240	449	424	410	386	372	345	483	475	428	454	450	400	649	611	552	748	696	655
Warren	405	388	340	390	373	324	280	281	261	519	508	431	580	546	448	630	558	526	331	308	282	505	529	385	342	326	281	456	441	389	439	425	371	582	547	490	635	616	567
Washington	391	379	323	385	372	311	352	332	274	505	495	398	524	512	441	489	464	408	309	297	250	456	435	397	290	284	232	419	411	378	395	386	353	661	629	548	603	602	534
Wayne	353	342	298	333	326	285	274	244	268	280	275	251	436	421	375	507	472	456	261	269	209	307	308	296	276	251	212	402	383	329	382	363	307	567	497	475	559	540	470
Webster	460	441	390	450	434	384	409	397	360	508	508	385	681	658	571	523	525	499	309	299	269	535	527	423	414	398	363	520	487	420	468	430	368	655	624	548	848	804	698
Winnebago	379	360	363	371	351	361	270	247	272	481	431	369	523	518	471	319	335	218	238	219	191	434	470	394	308	272	237	425	412	376	407	395	360	617	574	502	574	561	505
Winneshiek	428	405	351	426	402	352	598	539	485	714	682	598	520	493	420	534	547	512	277	263	234	515	492	428	358	336	310	439	417	344	418	397	322	644	594	537	639	606	552
Woodbury	486	453	397	469	442	384	287	266	248	615	524	501	615	588	489	634	607	544	330	317	272	585	566	494	454	427	376	626	542	491	593	499	448	655	616	539	785	758	690
Worth	391	377	331	382	367	320	489	406	358	463	494	383	438	428	386	467	445	412	292	278	268	458	426	339	293	266	206	424	417	369	395	390	343	603	568	470	582	577	502
Wright	420	408	348	418	405	344	370	381	344	475	471	356	558	547	443	591	534	497	318	300	225	433	423	403	301	281	224	428	425	371	403	402	349	573	527	509	670	655	560
State of Iowa	501	477	412	493	469	402	409	386	341	589	558	470	663	644	555	615	582	515	353	333	286	695	640	520	426	403	346	544	523	465	467	449	395	720	680	601	719	710	655

Table 5. Average Weekly Wages (in dollars adjusted to 1998) in Selected Private Business/Government Categories in Iowa's Counties, 1993, 1997, and 1998.

County	Private Business																		Government																				
	Grand Average			Private Average			Ag and Mining			Construc-tion			Manufac-turing			Transpor-tation			Trade			Finance			Services			Government Average			Local			State			Federal		
	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93
Adair	411	393	381	419	397	379	651	637	592	467	462	429	590	553	591	481	479	453	296	263	262	552	507	528	288	277	246	380	380	391	352	352	359	545	529	533	631	626	594
Adams	376	372	356	370	368	344	468	456	445	303	336	298	493	476	400	375	485	507	255	240	247	404	418	362	361	363	338	401	387	408	376	354	366	493	482	481	556	614	607
Allamakee	355	345	332	348	335	318	363	339	359	350	342	355	410	391	357	671	630	541	267	261	254	503	484	459	271	266	247	387	384	390	355	355	362	667	616	618	640	612	585
Appanoose	397	380	389	382	363	378	381	359	437	366	327	318	486	461	468	498	509	687	230	238	236	393	374	447	346	305	304	474	465	436	440	435	405	631	590	565	628	616	587
Audubon	353	339	332	337	324	310	406	432	384	358	362	328	401	351	328	469	468	469	326	305	289	420	439	397	259	255	254	400	381	400	383	364	379	482	451	488	565	550	567
Benton	402	385	362	386	371	344	380	404	386	468	465	441	516	496	446	700	505	441	297	299	298	484	468	449	265	263	262	444	426	411	424	406	383	534	507	493	576	568	633
Black Hawk	516	516	501	507	511	493	343	342	350	553	539	515	805	848	803	539	535	567	325	317	300	549	511	484	420	408	396	565	545	544	498	475	474	690	681	674	807	771	780
Boone	447	425	404	427	398	371	366	436	319	476	470	387	501	508	508	480	504	528	401	379	343	1090	448	389	335	325	311	508	507	488	444	457	426	608	573	559	658	672	642
Bremer	447	432	422	451	433	425	557	532	601	492	467	464	580	562	613	412	386	363	295	279	259	647	607	538	350	343	332	425	421	408	408	404	392	601	545	513	656	666	638
Buchanan	439	425	408	426	416	383	316	306	273	414	390	388	572	547	545	522	481	464	326	329	306	510	490	441	300	296	262	475	451	466	385	374	380	664	628	633	702	618	596
Buena Vista	406	393	382	403	385	377	363	304	323	455	423	408	477	456	444	505	482	501	312	298	290	566	568	518	378	370	353	424	434	413	397	400	377	670	625	598	666	689	667
Butler	369	355	329	365	348	312	348	406	316	424	393	418	528	512	444	535	505	447	292	280	264	423	446	390	277	253	233	384	382	383	357	356	360	622	608	581	584	558	532
Calhoun	347	348	344	317	321	318	328	348	380	309	315	291	394	390	409	445	439	484	290	278	272	410	410	425	293	312	287	432	419	420	379	368	371	656	632	597	595	617	634
Carroll	401	382	363	396	378	357	417	430	500	413	412	352	525	501	490	639	583	595	347	327	301	422	399	415	325	307	274	439	421	407	398	382	371	645	614	590	661	630	625
Cass	398	381	366	379	359	343	334	357	400	601	584	506	517	513	473	406	365	413	276	255	254	468	456	419	296	283	290	470	468	461	428	430	420	707	656	634	678	662	638
Cedar	379	370	339	366	355	319	344	305	236	402	399	371	507	481	372	470	464	447	307	303	289	506	490	470	291	278	234	432	429	427	406	404	399	581	544	560	577	580	568
Cerro Gordo	442	427	419	433	417	409	253	248	297	514	502	455	554	532	518	585	541	553	303	292	289	541	540	500	441	426	435	512	503	484	476	470	444	672	630	634	742	722	745
Cherokee	415	406	398	399	391	372	372	363	329	526	546	474	508	512	452	438	431	435	320	304	304	482	465	446	326	317	298	481	465	488	392	385	389	665	625	641	625	624	620
Chickasaw	430	419	395	434	419	388	292	276	391	429	417	368	558	552	520	304	298	268	316	319	283	494	455	458	333	295	300	404	419	428	366	381	396	626	615	607	657	661	576
Clarke	383	366	345	367	354	327	388	453	488	378	281	333	443	434	395	566	555	401	241	228	242	484	464	431	290	285	274	455	414	413	402	372	361	724	679	705	624	617	601
Clay	430	424	410	418	412	396	367	380	283	528	533	453	585	582	504	524	486	498	321	318	326	517	506	481	370	359	379	496	489	478	468	464	451	694	653	651	686	677	633
Clayton	395	387	363	376	369	343	286	292	350	622	643	533	424	403	388	429	432	447	285	278	253	543	511	484	314	315	282	481	472	429	463	455	415	611	590	561	614	605	534
Clinton	454	445	435	455	445	431	383	416	384	590	565	573	709	714	660	511	496	551	287	278	272	475	450	423	336	317	301	450	447	466	431	431	445	604	565	553	660	636	700
Crawford	410	401	389	398	389	377	386	324	273	421	431	410	526	497	524	467	503	519	263	260	255	453	476	437	322	319	284	472	462	438	433	424	393	703	667	683	650	646	640
Dallas	486	463	409	494	469	401	412	401	419	686	661	487	518	496	482	705	649	599	356	350	318	623	582	519	452	419	304	448	433	438	431	416	420	599	567	570	654	632	625
Davis	406	376	364	397	365	345	316	399	347	361	325	281	533	497	468	615	620	517	302	284	281	594	552	496	305	267	244	428	404	408	409	383	391	579	556	526	614	599	538
Decatur	339	335	319	321	316	291	372	395	338	376	273	355	341	344	290	637	624	603	229	235	223	349	399	327	341	331	302	390	389	396	360	363	366	606	572	573	599	578	559
Delaware	458	424	408	455	413	396	471	404	409	520	438	424	580	549	502	727	499	497	341	313	302	580	461	445	329	298	309	468	460	450	438	435	422	715	633	634	610	569	552
Des Moines	504	484	479	502	480	475	418	387	353	567	562	571	713	694	669	608	567	567	301	286	296	491	474	443	400	378	379	517	515	505	486	488	483	634	604	583	777	720	685
Dickinson	397	385	363	391	375	352	327	328	339	379	370	336	538	492	472	545	526	588	279	281	264	547	497	440	324	306	279	444	450	444	425	435	418	565	537	565	618	606	655
Dubuque	509	499	481	507	498	477	347	334	379	615	607	543	730	710	661	625	604	618	332	320	309	555	537	507	444	443	415	531	520	531	502	493	501	655	613	583	754	734	768
Emmet	430	397	391	425	388	386	447	440	435	619	527	606	549	532	554	521	509	425	341	288	266	491	487	395	334	316	312	454	439	408	437	421	390	580	572	523	652	634	631
Fayette	376	370	364	364	356	350	305	330	351	342	321	317	471	471	462	496	486	496	303	299	292	435	416	398	337	312	326	434	443	438	401	412	399	651	622	627	647	644	646

Table 5. Average Weekly Wages (in dollars adjusted to 1998) in Selected Private Business/Government Categories in Iowa's Counties, 1993, 1997, and 1998 (continued).

County	Private Business																		Government																				
	Grand Average	Private Average			Ag and Mining			Construc-tion			Manufac-turing			Transpor-tation			Trade			Finance			Services			Government Average			Local			State			Federal				
	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93	'98 '97 '93									
Floyd	407	399	404	398	391	393	380	342	352	585	553	487	576	589	612	451	436	461	282	277	268	428	422	454	332	318	289	444	436	446	425	418	428	606	603	544	628	610	636
Franklin	436	416	379	445	422	371	369	329	315	495	447	384	546	500	429	554	550	450	338	342	311	458	447	408	407	400	375	402	395	406	380	375	383	574	553	536	590	562	581
Fremont	487	475	442	506	494	453	405	383	406	420	432	353	773	809	742	441	396	384	316	352	319	492	471	528	336	312	297	400	395	396	369	369	363	560	504	528	563	567	587
Greene	401	390	363	396	382	351	367	374	306	365	371	346	517	499	431	525	510	501	309	311	320	526	460	491	321	307	264	414	411	396	393	391	371	679	653	592	575	565	572
Grundy	443	433	392	454	444	395	401	308	279	641	693	567	493	480	470	478	481	489	379	356	310	612	611	520	386	412	381	396	396	387	378	381	366	598	611	541	599	607	616
Guthrie	347	332	334	335	316	306	447	416	410	500	503	420	275	216	278	552	550	478	274	260	279	453	416	373	256	239	223	385	382	407	363	359	383	512	476	507	566	584	582
Hamilton	438	426	397	438	423	391	463	443	477	481	423	373	523	513	482	441	443	443	345	333	319	482	477	509	319	319	259	435	443	424	417	428	406	609	579	577	622	597	590
Hancock	477	448	363	485	453	353	380	359	309	398	413	264	558	521	463	727	632	578	282	273	272	392	393	379	294	268	251	417	406	399	389	378	371	688	679	638	620	621	561
Hardin	453	402	381	457	393	369	539	485	505	800	429	364	484	490	438	496	511	469	389	358	345	468	457	464	342	274	259	436	436	420	401	406	382	588	549	572	631	590	591
Harrison	368	350	342	349	328	318	398	400	435	429	397	372	408	402	418	452	465	478	327	297	286	461	392	402	314	302	290	434	425	413	397	389	378	559	554	524	703	647	626
Henry	471	445	436	464	435	425	299	320	323	486	487	480	623	583	541	512	496	564	413	383	378	434	411	445	327	301	311	510	502	497	436	431	424	689	669	662	659	631	620
Howard	405	389	338	408	386	325	316	327	336	395	368	311	502	485	431	475	487	452	295	271	237	476	470	462	264	260	205	388	399	390	375	384	373	587	550	547	582	609	585
Humboldt	422	418	386	423	416	380	403	390	357	479	496	464	484	482	465	605	613	623	385	361	318	473	466	474	277	277	232	415	424	406	391	401	388	599	590	546	614	603	533
Ida	439	426	407	444	428	410	315	277	275	591	497	429	591	590	577	559	461	477	279	281	286	478	476	419	295	282	261	411	413	387	385	391	362	558	507	505	646	616	573
Iowa	534	523	436	547	536	441	337	303	189	504	515	497	640	648	588	679	677	585	517	471	263	631	639	594	275	254	241	406	396	396	387	378	371	528	502	551	569	568	556
Jackson	347	337	329	323	313	306	372	426	463	419	387	356	399	392	355	374	365	460	270	257	246	443	419	389	248	246	255	448	435	417	427	413	399	557	532	507	627	623	577
Jasper	554	513	488	568	522	498	387	372	377	517	509	515	867	779	761	556	571	600	341	279	282	508	479	502	322	305	286	488	474	441	454	445	415	635	588	609	670	644	634
Jefferson	518	525	425	523	532	422	399	395	339	454	433	346	606	634	543	751	672	599	431	495	338	560	542	561	423	393	337	475	466	447	438	429	411	680	644	604	667	677	659
Johnson	523	515	508	420	407	395	393	409	382	573	551	563	629	626	595	620	598	570	284	277	271	539	518	506	408	390	377	730	716	699	506	484	482	784	771	744	729	732	717
Jones	393	388	396	363	362	366	455	451	620	378	361	339	481	498	495	497	546	560	286	274	270	452	405	402	278	274	316	497	482	491	387	379	388	698	667	672	574	564	556
Keokuk	403	394	335	408	398	321	364	300	299	514	506	413	552	576	353	617	588	608	340	329	288	494	471	487	257	246	218	387	382	373	357	353	336	607	582	542	547	538	558
Kossuth	383	369	361	379	363	355	434	381	272	369	374	337	564	559	553	445	381	387	294	287	279	484	436	472	274	258	259	401	395	379	377	373	353	621	595	542	613	586	582
Lee	484	461	461	478	453	454	255	274	283	559	520	483	686	655	627	588	571	595	290	274	262	464	455	531	321	302	309	531	520	507	470	463	449	675	645	636	686	676	663
Linn	601	564	542	605	567	543	427	384	395	693	669	626	871	839	815	757	714	672	392	372	350	800	687	612	502	464	441	563	547	532	526	512	491	672	634	626	819	808	817
Louisa	420	397	395	412	387	379	436	442	513	403	443	438	497	432	445	446	481	507	313	314	255	443	441	435	265	287	235	449	437	465	425	410	436	533	550	545	659	647	665
Lucas	420	409	450	418	405	456	337	371	343	484	581	501	408	386	388	513	488	517	438	422	484	447	450	487	310	290	332	424	423	427	390	392	393	627	589	569	558	551	576
Lyon	368	357	337	358	345	324	392	457	319	490	407	379	421	417	392	492	424	453	267	263	255	474	460	420	326	306	280	416	410	397	396	387	370	616	570	589	553	606	571
Madison	385	365	344	366	345	318	459	454	419	385	387	345	453	433	366	589	545	652	301	285	277	443	421	391	295	273	257	449	431	427	434	418	409	603	550	525	617	574	573
Mahaska	427	395	375	421	384	361	375	429	438	790	420	414	533	531	492	558	546	496	280	271	278	527	503	473	358	346	325	462	457	445	442	439	423	576	548	549	637	623	637
Marion	522	515	491	522	503	471	475	471	475	483	472	475	696	681	642	550	515	496	278	269	260	526	479	504	343	332	321	524	585	595	423	424	438	590	570	568	793	808	761
Marshall	508	479	480	511	479	486	381	310	461	540	542	582	678	677	683	508	490	550	308	296	302	938	518	464	386	382	368	493	475	458	432	430	405	597	553	568	676	641	669
Mills	424	399	383	345	323	293	589	516	549	529	480	345	368	372	236	469	469	514	281	266	263	561	551	473	302	282	250	525	495	492	404	385	377	615	577	559	611	613	638
Mitchell	388	383	363	381	376	354	520	507	411	411	352	353	506	511	510	489	436	405	260	254	251	515	500	479	273	278	264	417	414	399	398	396	378	685	645	596	593	578	570

Table 5. Average Weekly Wages (in dollars adjusted to 1998) in Selected Private Business/Government Categories in Iowa's Counties, 1993, 1997, and 1998 (continued).

County	Private Business																		Government																				
	Grand Average			Private Average			Ag and Mining			Construc-tion			Manufac-turing			Transpor-tation			Trade			Finance			Services			Government Average			Local			State			Federal		
	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93	'98	'97	'93
Monona	357	336	332	345	319	312	449	363	233	528	543	492	467	443	522	405	349	426	278	258	257	453	460	424	340	309	292	409	417	415	384	391	387	549	526	513	567	580	583
Monroe	471	455	415	481	466	419	397	430	589	542	531	509	696	689	591	507	537	455	224	213	232	533	521	509	250	257	286	423	402	396	396	375	370	634	613	580	645	636	555
Montgomery	403	399	388	397	390	375	400	375	426	535	534	452	535	510	531	595	559	537	305	289	274	461	448	481	288	304	257	429	440	447	403	416	423	596	582	568	644	621	631
Muscatine	583	563	545	592	573	552	352	350	348	764	625	561	813	822	767	655	614	679	278	262	263	641	609	488	385	371	350	524	513	505	515	504	495	584	560	563	678	656	667
O'Brien	368	359	343	361	351	327	451	425	555	398	396	374	502	466	453	612	611	519	295	294	260	481	480	465	292	278	268	400	395	414	381	377	387	608	553	556	592	588	651
Osceola	383	369	364	374	361	359	355	353	364	458	487	513	447	433	425	459	459	411	292	308	302	440	392	386	281	252	257	432	414	392	409	390	369	580	539	520	593	581	506
Page	423	404	380	407	389	360	375	343	323	391	392	355	594	563	510	509	483	547	265	255	248	466	470	607	340	322	283	481	466	469	400	388	395	635	611	626	622	616	645
Palo Alto	369	353	327	355	337	308	395	382	271	271	477	243	441	386	312	486	504	451	269	263	257	574	506	697	315	289	273	405	394	366	392	380	351	617	584	599	580	580	550
Plymouth	451	430	424	454	432	424	347	304	480	394	367	429	705	659	603	624	612	572	314	300	297	539	555	529	300	306	329	434	422	424	416	402	407	601	587	569	615	622	595
Pocahontas	413	394	377	418	395	380	650	584	608	406	372	405	520	513	460	440	420	533	319	315	368	430	486	466	335	259	238	396	391	365	375	370	342	617	602	540	594	587	567
Polk	601	580	546	594	573	534	501	476	445	686	664	624	732	745	700	660	639	629	467	444	417	827	781	678	521	506	480	650	628	631	573	550	537	741	678	670	753	787	848
Pottawattamie	442	418	404	427	402	383	416	389	393	522	498	490	535	502	459	625	598	600	328	312	295	580	497	466	423	398	386	531	517	507	511	497	480	602	574	591	748	731	744
Poweshiek	477	458	449	483	463	453	348	304	304	565	552	532	557	548	525	653	599	579	263	259	256	603	568	535	521	496	484	421	417	417	397	393	388	620	571	585	610	610	644
Ringgold	376	350	308	355	329	281	356	358	227	677	673	444	389	359	301	417	378	405	285	244	246	422	359	351	290	269	220	420	390	362	404	372	341	566	515	544	524	537	470
Sac	373	348	324	364	332	308	358	405	444	365	354	328	581	411	396	464	434	427	323	302	286	500	452	410	294	285	244	407	402	377	382	376	347	584	558	547	598	599	585
Scott	526	515	499	523	514	495	371	350	354	675	696	594	815	810	780	608	603	609	375	363	361	694	656	627	445	428	409	548	529	531	537	520	510	637	610	609	592	552	726
Shelby	356	350	342	341	334	325	376	381	449	512	555	559	493	471	427	425	398	372	303	291	281	495	486	449	270	274	266	418	416	416	401	397	396	503	513	520	627	610	585
Sioux	397	383	356	393	378	351	347	352	290	471	431	397	500	473	435	432	393	404	292	283	278	414	411	417	333	332	300	426	417	401	408	397	380	580	562	537	670	658	643
Story	507	495	469	423	411	371	520	494	425	522	529	450	632	657	608	526	488	469	291	274	265	508	500	478	422	413	365	659	638	623	498	488	463	721	692	685	827	810	768
Tama	413	382	362	401	368	339	354	281	280	461	419	390	517	501	479	559	535	479	335	249	255	471	468	424	365	357	314	470	449	454	425	406	406	616	581	594	608	594	604
Taylor	341	318	304	331	297	268	319	308	375	335	273	268	401	344	315	557	496	377	213	211	230	366	389	382	283	254	233	369	370	387	336	336	355	553	480	516	593	610	576
Union	393	379	378	374	359	348	406	391	411	362	361	348	470	455	407	668	655	625	277	270	270	474	463	452	321	295	307	469	457	478	435	425	450	646	625	583	710	677	667
Van Buren	388	372	345	388	370	344	510	453	418	486	460	420	455	450	440	604	628	590	252	215	211	435	418	404	223	232	217	389	376	346	367	353	319	549	538	544	577	576	536
Wapello	448	448	450	440	440	443	452	419	393	540	551	429	710	754	681	570	540	546	274	267	270	449	430	461	386	377	388	483	481	481	454	456	450	649	619	620	748	705	736
Warren	405	393	382	390	378	364	280	285	293	519	515	484	580	553	504	630	565	591	331	312	317	505	536	433	342	330	316	456	447	437	439	431	417	582	554	551	635	624	637
Washington	391	384	363	385	377	350	352	336	308	505	502	447	524	519	496	489	470	459	309	301	281	456	441	446	290	288	261	419	417	425	395	391	397	661	637	616	603	610	600
Wayne	353	347	335	333	330	320	274	247	301	280	279	282	436	427	422	507	478	513	261	273	235	307	312	333	276	254	238	402	388	370	382	368	345	567	504	534	559	547	528
Webster	460	447	438	450	440	432	409	402	405	508	515	433	681	667	642	523	532	561	309	303	302	535	534	475	414	403	408	520	494	472	468	436	414	655	632	616	848	815	785
Winnebago	379	365	408	371	356	406	270	250	306	481	437	415	523	525	529	319	339	245	238	222	215	434	476	443	308	276	266	425	418	423	407	400	405	617	582	564	574	569	568
Winneshiek	428	410	395	426	407	396	598	546	545	714	691	672	520	500	472	534	554	576	277	267	263	515	499	481	358	341	348	439	423	387	418	402	362	644	602	604	639	614	620
Woodbury	486	459	446	469	448	432	287	270	279	615	531	563	615	596	550	634	615	612	330	321	306	585	574	555	454	433	423	626	549	552	593	506	504	655	624	606	785	768	776
Worth	391	382	372	382	372	360	489	411	402	463	501	431	438	434	434	467	451	463	292	282	301	458	432	381	293	270	232	424	423	415	395	395	386	603	576	528	582	585	564
Wright	420	413	391	418	410	387	370	386	387	475	477	400	558	554	498	591	541	559	318	304	253	433	429	453	301	285	252	428	431	417	403	407	392	573	534	572	670	664	629
State of Iowa	501	483	463	493	475	452	409	391	383	589	565	528	663	653	624	615	590	579	353	337	321	695	649	585	426	408	389	544	530	523	467	455	444	720	689	676	719	720	736



These private businesses employed 1.19 million persons in 1998, 154,000 more than in 1993 (Tables 1,3). Counties ranged from 1,000 such employees in Ringgold to nearly 224,000 in Polk in 1998. All but six counties (Adams, Audubon, Floyd, Louisa, Wayne, Winnebago) increased over the five years, with 57,000 of the gain occurring in Linn, Polk, and Scott.

Trade (352,500), services (344,500), and manufacturing (260,700) had the largest numbers of employees. None of the other four sectors had as many as 83,000 employees in 1998. These patterns were similar in 1997 and 1993 as well, with the top three sectors totaling at least 80 percent of the employees of private firms in each of the three years reported. In 1993, trade dominated employment in 61 counties, followed by manufacturing (27) and services (11). By 1998, fewer counties listed trade (44) as having the most employees, while more had manufacturing (33) or services (22) employing the largest number.

Statewide, employees in private businesses with covered workers averaged \$493 weekly in pay in 1998, which was \$24 more than in 1997 and \$91 higher than in 1993 (Table 4). This average varied from \$317 in Calhoun to \$605 in Linn, the only one surpassing \$600. Twelve others averaged at least \$500 (Figure 1).

Industry variations in average weekly wage were significant at all three time periods. Workers in finance, insurance, and real estate averaged the highest weekly pay (\$695) in 1998. Workers in manufacturing were second highest (\$663). Employees in trade establishments averaged the lowest pay for a week (\$353); for each of the three years, the average weekly wage for workers in wholesale and retail trade was only slightly more than half of the average for manufacturing and finance employees. In 1998, \$342 separated the highest paying industry from the lowest, with a range of \$147 (Harrison) to \$755 (Boone) among the counties.

In 33 of Iowa's 99 counties in 1998, weekly pay in manufacturing was the highest among the seven categories of private businesses. Workers in manufacturing in Black Hawk, Jasper, Linn, Muscatine, and Scott averaged more than \$800 per week that year. All counties had higher manufacturing wages in 1998 than in 1993, although the increase in Monona was only \$3. The transportation, communication, and utilities sector had the highest average wage in 38 counties in 1998. The \$615 statewide average in 1998 was \$100 greater than in 1993. Ninety-three counties followed the state trend with a higher average at the end of the period. Average wages for construction workers increased \$119 between 1993 and 1998 to \$589 in the later year; all counties experienced a wage gain over the five years.

Employees in finance, insurance, and real estate had the highest statewide dollar increase (+\$175) in average pay between 1993 and 1998, when it reached \$695. Appanoose, Lee, Page, and Palo Alto had lower weekly wages across the period in this category. Wayne's average for finance (\$307) was substantially less than half that of those in Boone, Linn, Marshall, and Polk, the only ones greater than \$700 in 1998.

For each of the three years reported here, the wholesale/retail trade, services, and agriculture/mining sectors had significantly lower average wages than the other four private business groups. The lowest average pay in 1998 occurred in the trade sector in more than half (57) the counties; it was lowest in services in 34 others and in agriculture/mining in eight counties. Nevertheless, each of these three sectors recorded statewide pay gains from 1993 to 1998 (trade: +\$67, services: +\$80, agriculture/mining: +\$68) and, with the exception of agriculture/mining where average pay declined in 21 counties, most counties had gains as well.

Adjusting the weekly wages for inflation allows an examination of real purchasing ability. Statewide, all private businesses taken together had an inflation-adjusted weekly wage increase of \$41 between 1993 (\$452) and 1998 (\$493) (Table 5). In five counties, however, average pay in private businesses did not keep pace with inflation.

The state figures for weekly wage change for each of the seven industrial sectors outdistanced inflation between 1993 and 1998, although workers in agriculture/mining averaged only \$26 more in

purchasing power each week at the end of the period. Increases of \$32 to \$39 weekly were noted in four other sectors. The two largest inflation-adjusted gains occurred in finance (+\$110) and construction (+\$61). Weekly wage change between 1993 and 1998 kept pace with inflation in at least 85 counties in the construction, manufacturing, services, and wholesale/retail trade sectors. More than half the counties recorded real average wage increases in the other three sectors between 1993 and 1998 after inflation was taken into account.

## Government

Among government agencies located in Iowa in 1998, 1,029 were federal, 1,065 were state, and the remaining 3,543 were local offices. Taken as a whole, there were more government offices statewide than private businesses in manufacturing, agriculture/mining, or transportation, communication, and utilities in 1998.

Polk County, the location of the state capitol, had 164 state government offices in 1998. No other county had as many as 32, although all had at least three. Polk also had more federal government agencies (52) than any other county; all others had at least six federal offices in 1998. Local government locations varied from fewer than 20 in 11 counties to more than 100 in Linn and Polk in 1998.

In 1998, there were 88 fewer local government agencies, 5 more state offices, and 160 more federal government offices than in 1993. State offices declined or remained the same in 67 counties; those that increased gained one to seven (Story). Seventy-six counties had more federal offices over the five years, but for 40 of these the increase was only one or two. While 17 counties noted the same number of local government offices in 1998 as in 1993, 53 had fewer and 29 had more at the end of the period; changes, however, tended to be minor, with only one county increasing or decreasing by as many as 10.

Government employees numbered nearly 216,300 in 1998, ranking it lower than wholesale or retail trade, services, or manufacturing employment but significantly higher than the other four private business groups. The percentage increase (+4.8%) in government workers between 1993 and 1998 was lower than any of the private sectors, although it was numerically higher (+9,959) than the gain of employees in finance/insurance/real estate or agriculture/mining employment. The government employee increase over the five years occurred in local agencies (+8,915) and the state (+1,339) rather than the federal (-295) government. Local government employment increased in 85 counties between 1993 and 1998; gains took place among state government workers in 33 and among federal employees in 15.

Although Polk County had more state government offices than any other county, it ranked third in state employment in 1998. Johnson had 15,046 state employees, followed by Story (8,583), Polk (7,711), and Black Hawk (2,565); together, these four accounted for 73.2% of all the state's workers. The location of state universities in Johnson, Story, and Black Hawk enhanced state employment in those locations. Polk did have more local government (17,312) and federal (6,131) employees than any other county.

Government employees in Iowa averaged \$544 weekly in 1998 (Figure 2). The state (\$720) and federal (\$719) averages were nearly identical; weekly wages were substantially lower in local agencies (\$467). Although local government average pay exceeded only the wholesale/retail trade, services, and agriculture/mining sectors in 1998, state and federal averages topped those in all seven private-business categories that year.

Between 1993 and 1998, average wages increased in each government category (federal: +\$64, state: +\$119, local: +\$72). County-level gains were noted for all government sectors in all counties except for federal employees in Polk and Scott. After adjusting for inflation, state and local government workers averaged modest wage increases (state: +\$44, local: +\$23). The statewide figure for federal employees, however, registered a \$17 decline after inflation was taken into account. Average wages for federal employees did not keep pace with inflation in 26 counties, as happened for state workers in four counties and for local employees in 19 counties.

**Notes:** See an annual publication called EMPLOYMENT AND WAGES COVERED BY UNEMPLOYMENT INSURANCE for more detailed data (Iowa Workforce Development, Labor Market Information, 1000 East Grand Ave., Des Moines IA 50319).

For purposes of this section, an employer is the legal entity that either pays unemployment insurance tax or reimburses the state for it. Under government coverage, the organization unit—such as the department or agency responsible for a function of government—is the employer. Employment for a given month is the number of covered workers who earned wages during the pay period that includes the 12<sup>th</sup> of the month. This excludes workers who earned wages because of work stoppages, temporary layoffs, illness, or unpaid vacation. It is important to understand that the self-employed, proprietors, unpaid family members, and most agricultural employees, elected officials, and railroad workers also are excluded.

Here are more detailed descriptions of the employer categories reported in this section.

*Private Sector:* This sector includes full-time and part-time employees in the following seven categories.

**Agriculture, Forestry, Fishing, and Mining:** This division includes establishments primarily engaged in agriculture production and services, forestry, and commercial fishing, hunting and trapping. It also includes the extraction of minerals occurring naturally and includes preparations done at mine sites.

**Construction:** This division includes three broad types of construction activity: building construction by general contractors/builders, heavy construction, and general contractors and special trade contractors.

**Manufacturing:** This division includes establishments engaged in the mechanical or chemical transformation of materials or substances into new products. These establishments are usually described as plants, factories, or mills. Establishments engaged in assembling component parts of manufactured products also are considered manufacturing if the new product is neither a structure nor other fixed improvements.

**Transportation, Communications, and Electric, Gas, and Sanitary Services:** This division includes establishments providing passenger and freight transportation, communication services, or electricity, gas, steam, waste, water, or sanitary services, and all establishments of the U.S. Postal Service.

**Wholesale and Retail Trade:** The wholesale division includes establishments primarily engaged in selling merchandise to retailers and to industrial, commercial, institutional, farms, contractors, or to other wholesalers. The retail division includes establishments engaged in selling merchandise for personal or household consumption and rendering services.

**Finance, Insurance, and Real Estate:** This division includes establishments operating primarily in the fields of finance, insurance, and real estate.

**Services:** This division includes establishments engaged in providing a wide variety of services for individuals and for business and government establishments. Included are hotels and other lodging places; establishments providing personal business, repair, and amusement services; health, legal, engineering, and other professional services; educational institutions; and membership organizations.

*Government Sector:* This sector includes full-time and part-time employees in federal and state government. Local government includes county, incorporated place, township, school districts, and special districts.

Figure 1. Average weekly wages of employees in private business, 1998.

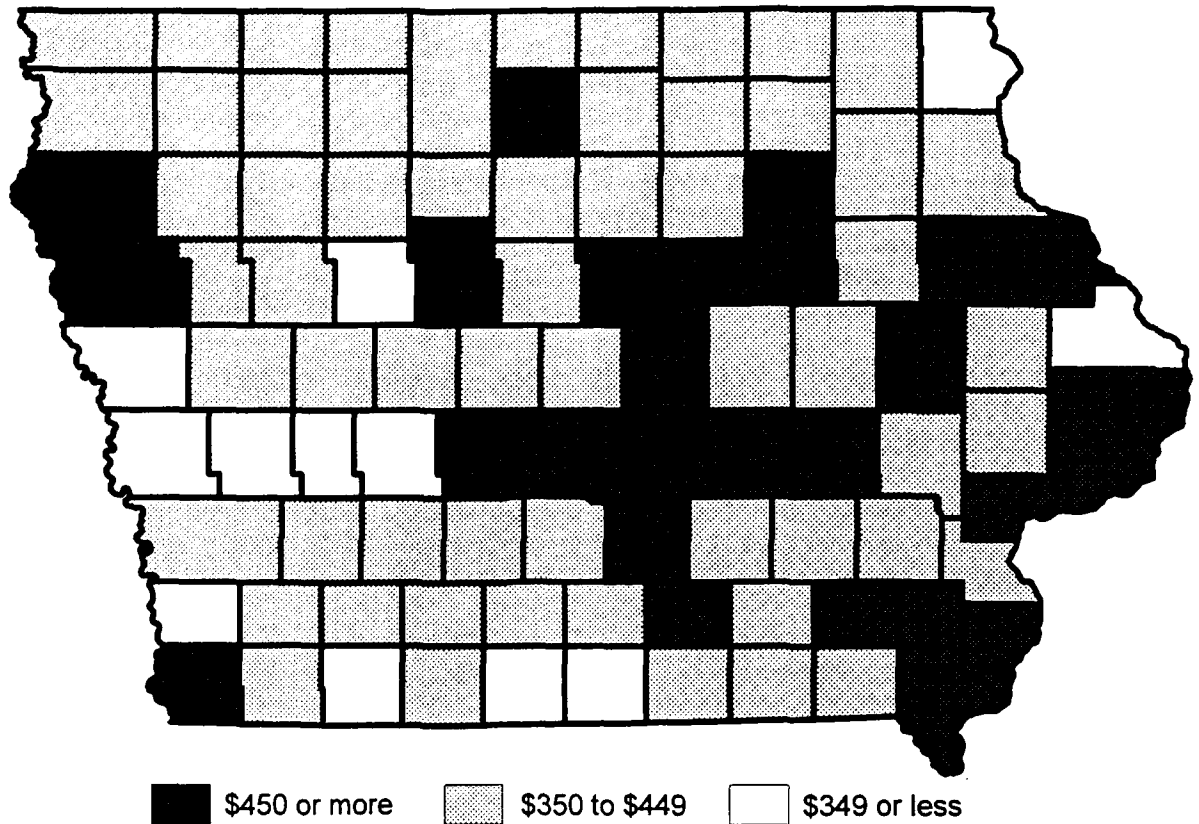
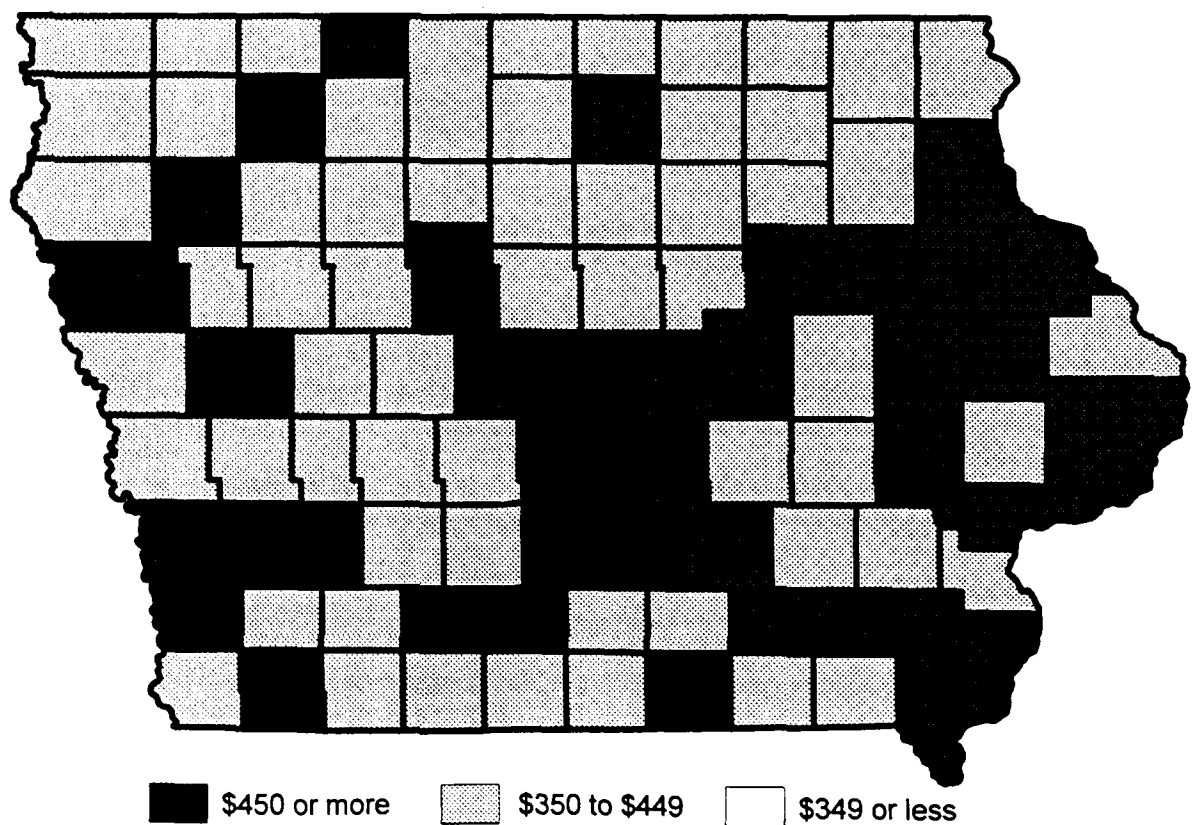


Figure 2. Average weekly wages of government employees, 1998.



## Per Capita Income in Iowa's Counties: 1973, 1978, 1983, and 1988-1998

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Per capita income, a measure of average income per person, was \$24,745 for Iowa in 1998, a figure about \$2,460 below that for the United States (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 the calculation of income, the Bureau of Economic Analysis includes income from sources such as wages, salaries, self-employment, farming, interest, rent, social security, and public assistance. Also included is the imputed value of non-monetary income or benefits such as Medicare, public housing subsidies, and other "in-kind" resources. Because of the inclusion of the value of non-monetary benefits, the income figures from the Bureau of Economic Analysis will generally be higher than figures produced by the U. S. Bureau of the Census, which do not include such "in-kind" benefits. 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 (Figure 1). In 1998, Polk had the highest (\$30,468) and Decatur the lowest (\$15,654) per capita income, a difference of more than \$14,800. This gap has been increasing; it has been at least \$8,000 each year since 1988 and exceeded \$10,000 for the first time in 1993. In 1998, 16 counties (including Decatur) had figures less than \$20,000, while 10 counties plus Polk had per capita income that exceeded \$25,000. Per capita income in nearly half (46) of Iowa's counties varied from \$21,000 to \$23,999 in 1998.

Per capita income gained in all counties from 1988 to 1989, 1991 to 1992, 1993 to 1994, and 1995 to 1996. Between 1992 and 1993, however, per capita income decreased in 77 of Iowa's 99 counties. These year-to-year variations reflect changes in the economy in Iowa and its counties.

From 1988 to 1998, Iowa's per capita income increased by \$9,430 (Table 3, Figure 2), while the gain was \$9,800 in the United States. Annual comparisons reveal increases greater than \$1,000 from 1988 to 1989, 1991 to 1992, 1993 to 1994, 1995 to 1996, and 1996 to 1997. From 1988 to 1998, increases were more than \$10,000 in 11 counties and were less than \$6,000 in Calhoun, Decatur, Lucas, Sac, Wayne, and Winnebago. During the 1988-1998 period, 20 counties increased every year, but the other 79 declined one or more times.

### Per Capita Income Adjusted for Inflation

Rising prices of goods and services between 1988 and 1998 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 1998 dollars based on the consumer price index for each year. Per capita income adjusted for inflation was higher in 1998 than it was in 1988 for Iowa (Table 2, Figure 3), indicating that the purchasing power of Iowa's residents was greater in 1998 than it was previously. The adjusted gain was about \$3,800 from 1988 to 1998, a figure substantially lower than the \$9,400 change in unadjusted per capita income.

County trends for adjusted per capita income also differ from those reported when the unadjusted figures were examined. When year-to-year changes were reviewed, only from 1993 to 1994 did the state's adjusted per capita income increase by at least \$1,000. Between 1988 and 1998, differences

Table 1. Per Capita Income in Iowa's Counties, 1973, 1978, 1983, and 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1983	1978	1973
Adair	21382	20617	20257	17022	18270	15567	16999	15599	15611	15156	13165	8943	8016	5545
Adams	20639	21115	20275	15907	17270	14864	16024	15022	14358	13931	12027	9341	7456	5655
Allamakee	20441	19499	18598	16961	16639	15531	15730	14591	14709	13832	12351	8452	7057	4615
Appanoose	19096	18560	17555	16174	16158	14781	14705	14027	13281	12541	11614	9293	6776	4478
Audubon	20984	22614	21714	18707	18240	15974	17438	16559	15307	15373	13282	8592	7939	5548
Benton	22814	21962	20633	18982	18084	16679	16933	16059	15765	15361	13775	10675	8574	5525
Black Hawk	24484	23418	21811	21020	19953	18653	18233	17111	16610	15909	14845	11831	8500	4987
Boone	24554	24086	23140	21604	21406	19385	19397	18146	17394	17113	15593	11938	8792	5552
Bremer	24275	23406	21998	20345	19605	18246	18106	16663	16202	15121	13841	10683	8003	5135
Buchanan	21050	20580	19439	17687	17475	15756	16339	15585	15122	14291	12893	8946	7434	4794
Buena Vista	23184	23322	22165	19770	19078	16831	17414	16503	16088	15916	14605	10746	8734	6030
Butler	20699	20362	20079	17956	17896	16392	16989	15708	15362	13846	12920	9782	8200	5323
Calhoun	20002	21035	21426	18684	18620	15204	16944	14839	15004	15479	14543	11174	8565	6160
Carroll	24548	24243	22886	20637	20064	18584	19303	17313	16372	16469	15540	11681	8931	5693
Cass	21883	20986	20198	18366	18405	16891	17536	16330	15829	15844	14056	11108	8448	5802
Cedar	24460	23844	22796	20387	20159	18199	18243	17353	17274	16567	15017	10889	8969	5741
Cerro Gordo	24902	23789	22636	21094	20200	18514	18465	17627	17242	16059	15383	11884	8542	5246
Cherokee	22044	22160	21576	19081	18195	16716	17148	16828	16356	15572	14922	10080	8136	6016
Chickasaw	22320	21960	20849	19241	18125	15984	16897	15709	15166	14427	13286	9768	8108	5440
Clarke	19891	18927	16724	15657	15838	14219	14729	14256	14080	13524	12130	9254	6912	4923
Clay	24817	24254	23540	21089	20231	17165	17850	16750	16838	16645	15900	10603	8693	5891
Clayton	21796	21065	19896	17981	16686	15689	16351	15177	15117	14258	12475	8058	6997	4618
Clinton	23062	22281	21473	19918	19081	17846	17974	16935	16338	15734	14462	10940	8099	4962
Crawford	20342	20490	19699	18063	18023	15989	16207	14853	14994	14047	13202	9521	7622	5160
Dallas	26996	25925	25029	23293	22086	20461	20173	18982	18357	17907	16455	12627	8529	5942
Davis	17879	17823	17124	15033	15984	14919	14673	13430	13714	12336	11249	8605	6410	4863
Decatur	15654	16214	14891	13420	14385	13400	13450	12850	12364	12076	10465	7523	6149	4193
Delaware	20487	20515	19946	17100	17297	15814	16242	15060	15529	14806	13062	8490	7593	4630
Des Moines	24637	23540	22148	20976	20319	19239	18835	17959	17481	16526	15537	11849	8544	5414
Dickinson	27155	26197	25666	23508	22402	19973	20191	18828	18575	17992	16550	11663	8861	6194
Dubuque	24499	23293	22296	21629	20526	19308	18899	17579	16913	16191	14995	10913	8061	4735
Emmet	23283	22307	21320	19274	18590	15632	16696	15305	15376	14788	13621	10340	8381	5841
Fayette	20122	19835	19174	17431	16823	14744	15350	14695	14554	13921	12298	9177	7359	4651
Floyd	22025	21458	20387	18799	18255	16941	17602	17014	16551	14764	14081	10449	8082	5441
Franklin	22567	22421	22250	18980	18819	15127	17655	15337	15775	15285	14190	10123	8520	6155
Fremont	20392	21350	20850	17043	17223	14132	16532	15414	14504	14671	14203	11986	8518	6488
Greene	21010	21554	22443	20240	19419	16320	18602	16448	15558	16065	14313	11663	9489	7171
Grundy	25595	25899	23656	22957	21064	18990	20289	18484	17629	16130	15083	12022	9320	6356
Guthrie	21154	20700	20842	18302	18037	16283	17182	16332	16010	15743	13721	9875	7737	5216
Hamilton	24769	25078	24457	21691	21613	18053	18886	18157	17179	17585	14695	12468	9215	6678
Hancock	21716	22025	21334	18877	18817	15679	16976	14846	15835	15037	14827	12098	9691	6849
Hardin	23994	23492	22527	20683	20143	17996	18587	17021	16788	15526	14220	11560	8724	5977
Harrison	19748	20175	20071	17459	17335	15612	16411	14660	13968	13334	12447	9888	7604	5240
Henry	22130	21629	20548	19017	18897	17688	17614	16734	16416	15289	14281	10661	8147	5219
Howard	22942	22177	20532	18647	18115	15095	16150	15242	15036	14196	12164	9334	7610	5234
Humboldt	23572	24150	24075	21461	20161	17104	18493	15986	16104	16734	14580	10929	8992	6110
Ida	22784	22790	21555	18670	18143	15983	17203	15912	15815	15397	14659	9098	8558	6055
Iowa	26943	26296	23390	21076	21829	20215	20626	18352	17272	16518	14765	10534	8399	5348
Jackson	19630	19081	18073	16723	16558	15929	15522	14539	14620	13856	12638	9143	7426	4875
Jasper	24848	24209	22994	21648	21067	19224	19260	18369	18080	16978	15925	12341	8671	5660

Table 1. Per Capita Income in Iowa's Counties, 1973, 1978, 1983, and 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1983	1978	1973
Jefferson	22494	22250	20221	18513	18329	16580	17061	16020	15837	14956	13947	9313	7286	4958
Johnson	27785	26281	24896	23681	22935	21469	20407	19387	18437	17737	16147	12329	8414	4710
Jones	18715	18098	17461	16045	16023	14901	15376	14318	14326	13814	12231	8886	7504	4893
Keokuk	19268	20211	18352	16210	16898	15215	16355	15764	15449	15206	13182	10278	8158	5686
Kossuth	21726	22052	21103	18442	18555	14909	16879	14741	15788	15808	14794	10888	8435	6513
Lee	22701	21766	20843	19287	18791	17499	17335	16397	16045	15325	14354	11265	8152	4951
Linn	29656	27446	25808	24670	23650	22285	21508	20730	19998	19257	17754	13022	9002	5389
Louisa	20149	20207	19374	17886	18070	16563	16816	15551	15720	14915	13519	9843	7309	5365
Lucas	19817	19262	18448	17018	18380	16451	16853	15996	15415	14895	14034	10378	7773	5032
Lyon	19871	20843	20623	17738	17254	15102	16123	15261	14593	14658	12857	9763	7866	6107
Madison	22594	21835	20557	18400	18587	16821	17061	16308	15871	15336	13908	10499	7913	5555
Mahaska	22684	21940	20066	18300	18183	16654	16766	15984	15633	14909	13777	10447	8327	5307
Marion	24242	23400	21718	20449	20366	18851	18570	17560	17095	16172	15337	12158	8423	5468
Marshall	24177	23493	22096	21717	20996	19617	19767	18942	18042	17519	15679	12487	8961	5891
Mills	25837	25580	23909	21240	21616	19494	20232	19351	18619	17633	17019	11181	8515	6079
Mitchell	23495	24076	22803	20268	19882	17434	18970	17774	17974	16750	14722	10552	8078	5753
Monona	19829	20490	19834	16813	17685	15512	16521	14284	14223	14249	13000	9614	7916	6411
Monroe	21754	20857	19651	18173	18136	16704	16660	15889	15337	14412	13193	9574	6919	4723
Montgomery	23007	22734	21978	19025	19498	18123	18409	17638	16625	16303	14790	11152	8546	5822
Muscatine	25531	23986	23011	21693	21578	20432	20103	19005	18703	17399	16370	12594	8571	5240
O'Brien	23291	23485	22371	19626	19044	16394	17593	17171	16729	16156	15772	11066	8869	6148
Osceola	21841	22164	22025	19095	18876	14879	16622	16119	15268	14600	13768	9565	8724	6868
Page	21674	21507	20978	19467	19061	17617	18159	17027	16413	15907	14229	10745	7852	5490
Palo Alto	21743	22935	22446	18743	18111	14466	16898	14351	15483	14815	14048	9894	8415	6242
Plymouth	22728	22449	21790	19868	19210	18443	18493	17240	16266	15865	13693	9680	8240	5803
Pocahontas	22353	23126	22468	18845	19113	14394	17334	15290	15115	15705	14212	10164	8966	6823
Polk	30468	28881	27517	26491	25282	24053	23425	22226	21871	20281	19080	14298	9633	5714
Pottawattamie	22356	21767	20731	19434	18810	17357	17224	16496	15787	15046	14530	11424	8135	5004
Poweshiek	24333	23454	21696	20304	20143	18455	18562	17754	17111	16423	15048	10979	8377	5678
Ringgold	18447	19171	17223	14264	16371	13627	14549	13693	13152	13526	11839	8585	7326	5754
Sac	19832	21696	21190	17639	17877	15677	16891	15445	14992	15033	14200	10324	8994	6399
Scott	26186	24952	23499	22302	21183	20431	20048	19335	18794	17810	16647	12760	8920	5543
Shelby	21664	22175	21212	18765	18135	16198	17159	16505	15953	15219	13867	9812	8657	5618
Sioux	22476	22784	21663	19071	18174	17202	17433	16053	15555	14819	13337	9859	8270	5486
Story	25296	24019	22815	21566	20579	18907	18499	17700	16721	15806	14440	10961	7503	4608
Tama	21216	21071	19562	18648	18714	16775	17082	16405	16133	15357	14391	10491	8086	5651
Taylor	17676	17997	16840	13383	15141	13072	14030	13401	12500	12082	11019	8721	7026	5030
Union	20473	19767	18421	17403	17521	16103	16185	15435	14979	14517	13425	10516	7155	4982
Van Buren	19023	19231	17510	15002	15680	14096	14886	13973	13711	12692	11319	8216	7035	4535
Wapello	21168	20340	19696	18640	17836	16634	16696	16261	15558	14827	13694	10607	7472	4531
Warren	23426	22373	20929	19905	19546	18181	17946	17116	16339	15633	14815	11153	8080	5022
Washington	23140	23396	21951	19978	19927	18317	18455	17494	17032	16260	14517	12161	8996	5702
Wayne	16868	17455	16615	14430	15328	13165	14020	13661	13329	13343	12045	9379	7164	4796
Webster	23285	23019	22276	20944	19974	17849	18144	17061	16161	15605	14214	11494	8487	5358
Winnebago	22368	21119	20586	19270	19295	16305	17525	15806	16581	16423	16410	11062	8120	6001
Winneshiek	22032	21083	19950	18352	18077	16704	16931	15813	15652	14611	12854	8315	6636	4114
Woodbury	24863	23691	23017	21551	20305	19207	19202	17795	17275	16328	15479	11716	8416	5333
Worth	21624	21995	20243	18733	18277	14739	16877	15875	16567	15056	14085	9891	8185	6102
Wright	23265	24120	23339	20253	19187	16285	17817	16006	16096	16973	15336	12413	9477	6446
State of Iowa	24745	23882	22713	21181	20498	18929	18939	17859	17380	16562	15315	11485	8438	5398
Counties:														
Range: Low	15654	16214	14891	13383	14385	13072	13450	12850	12364	12076	10465	7523	6149	4114
High	30468	28881	27517	26491	25282	24053	23425	22226	21871	20281	19080	14298	9691	7171
Number Inc.	63	96	99	73	99	22	99	79	83	99				
United States	27203	25924	24651	23562	22581	21718	21082	20089	19584	18566	17403	12554	8291	5242

Table 2. Adjusted Per Capita Income (1998 dollars) in Iowa's Counties, 1973, 1978, 1983, and 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1983	1978	1973
Adair	21382	20894	20985	18148	20030	17499	19647	18552	19315	19738	17972	14302	19521	19814
Adams	20639	21398	21004	16959	18934	16708	18520	17866	17764	18142	16418	14938	18157	20207
Allamakee	20441	19761	19266	18083	18242	17458	18180	17353	18199	18013	16860	13516	17185	16491
Appanoose	19096	18809	18186	17244	17715	16615	16996	16682	16432	16332	15854	14861	16501	16001
Audubon	20984	22918	22494	19944	19998	17956	20154	19694	18939	20020	18131	13740	19333	19824
Benton	22814	22257	21375	20237	19827	18749	19571	19099	19505	20005	18804	17071	20880	19742
Black Hawk	24484	23732	22595	22410	21876	20968	21073	20350	20551	20718	20265	18920	20699	17820
Boone	24554	24409	23972	23033	23469	21790	22419	21581	21521	22286	21286	19091	21411	19839
Bremer	24275	23720	22789	21690	21494	20510	20926	19817	20046	19692	18894	17084	19489	18349
Buchanan	21050	20856	20138	18857	19159	17711	18884	18535	18710	18611	17600	14306	18103	17130
Buena Vista	23184	23635	22962	21077	20916	18919	20127	19627	19905	20727	19937	17185	21269	21547
Butler	20699	20635	20801	19143	19620	18426	19635	18681	19007	18032	17637	15643	19969	19020
Calhoun	20002	21317	22196	19920	20414	17091	19583	17648	18564	20158	19853	17869	20858	22011
Carroll	24548	24568	23709	22002	21997	20890	22310	20590	20256	21448	21214	18680	21749	20343
Cass	21883	21268	20924	19581	20178	18987	20268	19421	19584	20634	19188	17764	20573	20732
Cedar	24460	24164	23615	21735	22101	20457	21085	20638	21372	21575	20500	17414	21842	20514
Cerro Gordo	24902	24108	23450	22489	22146	20811	21341	20964	21333	20914	20999	19005	20802	18745
Cherokee	22044	22457	22351	20343	19948	18790	19819	20013	20237	20279	20370	16120	19813	21497
Chickasaw	22320	22255	21598	20513	19871	17967	19529	18683	18764	18788	18137	15621	19745	19438
Clarke	19891	19181	17325	16692	17364	15983	17023	16955	17421	17612	16559	14799	16832	17591
Clay	24817	24580	24386	22484	22180	19295	20631	19921	20833	21677	21705	16956	21169	21050
Clayton	21796	21348	20611	19170	18294	17636	18898	18050	18704	18568	17030	12886	17039	16501
Clinton	23062	22580	22245	21235	20920	20060	20774	20141	20214	20490	19742	17495	19723	17730
Crawford	20342	20765	20407	19257	19760	17973	18732	17665	18551	18293	18022	15226	18561	18438
Dallas	26996	26273	25929	24833	24214	23000	23315	22575	22712	23320	22463	20193	20770	21232
Davis	17879	18062	17739	16027	17524	16770	16959	15972	16968	16065	15356	13761	15610	17377
Decatur	15654	16432	15426	14307	15771	15063	15545	15282	15297	15727	14286	12031	14974	14983
Delaware	20487	20790	20663	18231	18964	17776	18772	17911	19213	19282	17831	13577	18491	16544
Des Moines	24637	23856	22944	22363	22277	21626	21769	21359	21628	21522	21210	18949	20807	19346
Dickinson	27155	26549	26588	25063	24561	22451	23336	22392	22982	23431	22592	18651	21579	22133
Dubuque	24499	23606	23097	23059	22504	21704	21843	20907	20926	21086	20470	17452	19630	16919
Emmet	23283	22606	22086	20549	20381	17572	19297	18202	19024	19258	18594	16536	20410	20871
Fayette	20122	20101	19863	18584	18444	16573	17741	17477	18007	18129	16788	14676	17921	16619
Floyd	22025	21746	21120	20042	20014	19043	20344	20235	20478	19227	19222	16710	19682	19442
Franklin	22567	22722	23050	20235	20632	17004	20405	18240	19518	19906	19371	16189	20748	21993
Fremont	20392	21637	21599	18170	18883	15886	19107	18332	17945	19106	19388	19168	20743	23183
Greene	21010	21843	23250	21578	21290	18345	21500	19562	19249	20921	19539	18651	23108	25624
Grundy	25595	26247	24506	24475	23094	21346	23449	21983	21812	21006	20590	19225	22696	22712
Guthrie	21154	20978	21591	19512	19775	18303	19858	19424	19808	20502	18731	15792	18841	18638
Hamilton	24769	25415	25336	23125	23696	20293	21828	21594	21255	22901	20060	19939	22441	23862
Hancock	21716	22321	22101	20125	20630	17625	19620	17656	19592	19583	20240	19347	23600	24473
Hardin	23994	23807	23337	22051	22084	20229	21482	20243	20771	20220	19412	18487	21245	21357
Harrison	19748	20446	20792	18614	19005	17549	18967	17435	17282	17365	16991	15813	18517	18724
Henry	22130	21919	21286	20275	20718	19883	20358	19902	20311	19911	19495	17049	19840	18649
Howard	22942	22475	21270	19880	19861	16968	18666	18127	18603	18487	16605	14927	18532	18702
Humboldt	23572	24474	24940	22880	22104	19226	21374	19012	19925	21793	19903	17478	21898	21833
Ida	22784	23096	22330	19905	19891	17966	19883	18924	19567	20052	20011	14549	20841	21636
Iowa	26943	26649	24231	22470	23932	22723	23839	21826	21370	21511	20156	16846	20453	19110
Jackson	19630	19337	18723	17829	18153	17906	17940	17291	18089	18045	17252	14621	18084	17420
Jasper	24848	24534	23820	23080	23097	21609	22260	21846	22370	22110	21739	19736	21116	20225



Table 2. Adjusted Per Capita Income (1998 dollars) in Iowa's Counties, 1973, 1978, 1983, and 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1983	1978	1973
Jefferson	22494	22549	20948	19737	20095	18637	19719	19053	19594	19477	19039	14893	17743	17716
Johnson	27785	26634	25791	25247	25145	24133	23586	23057	22811	23099	22042	19716	20490	16830
Jones	18715	18341	18089	17106	17567	16750	17771	17028	17725	17990	16697	14210	18274	17484
Keokuk	19268	20482	19012	17282	18526	17103	18903	18748	19114	19803	17995	16437	19867	20318
Kossuth	21726	22348	21861	19662	20343	16759	19508	17531	19534	20587	20195	17412	20541	23273
Lee	22701	22058	21592	20562	20602	19670	20035	19501	19852	19958	19595	18015	19852	17691
Linn	29656	27814	26736	26301	25929	25050	24858	24654	24743	25078	24236	20825	21922	19256
Louisa	20149	20478	20070	19069	19811	18618	19435	18495	19450	19424	18455	15741	17799	19171
Lucas	19817	19521	19111	18143	20151	18492	19478	19024	19072	19398	19158	16596	18929	17981
Lyon	19871	21123	21364	18911	18917	16976	18635	18150	18055	19089	17551	15613	19156	21822
Madison	22594	22128	21296	19617	20378	18908	19719	19395	19636	19972	18986	16790	19270	19849
Mahaska	22684	22235	20787	19510	19935	18720	19378	19010	19342	19416	18807	16707	20278	18963
Marion	24242	23714	22499	21801	22328	21190	21463	20884	21151	21061	20937	19443	20512	19539
Marshall	24177	23808	22890	23153	23019	22051	22846	22528	22323	22815	21403	19969	21822	21050
Mills	25837	25923	24768	22645	23699	21913	23384	23014	23036	22963	23233	17881	20736	21722
Mitchell	23495	24399	23623	21608	21798	19597	21925	21139	22238	21814	20097	16875	19672	20557
Monona	19829	20765	20547	17925	19389	17437	19095	16988	17597	18556	17746	15375	19277	22908
Monroe	21754	21137	20357	19375	19884	18777	19255	18897	18976	18769	18010	15311	16849	16876
Montgomery	23007	23039	22768	20283	21377	20372	21277	20977	20569	21231	20190	17834	20811	20803
Muscatine	25531	24308	23838	23128	23657	22967	23234	22603	23140	22659	22347	20140	20872	18724
O'Brien	23291	23800	23175	20924	20879	18428	20333	20421	20698	21040	21530	17697	21598	21968
Osceola	21841	22462	22817	20358	20695	16725	19211	19170	18890	19014	18795	15296	21245	24541
Page	21674	21796	21732	20754	20898	19803	20988	20250	20307	20716	19424	17183	19121	19617
Palo Alto	21743	23243	23253	19982	19856	16261	19530	17068	19156	19294	19177	15822	20492	22304
Plymouth	22728	22750	22573	21182	21061	20731	21374	20503	20125	20661	18692	15480	20066	20736
Pocahontas	22353	23436	23275	20091	20955	16180	20034	18184	18701	20453	19401	16254	21834	24380
Polk	30468	29269	28506	28243	27718	27038	27074	26433	27060	26412	26046	22865	23459	20418
Pottawattamie	22356	22059	21476	20719	20622	19511	19907	19619	19533	19594	19835	18269	19811	17881
Poweshiek	24333	23769	22476	21647	22084	20745	21453	21115	21171	21388	20542	17558	20400	20289
Ringgold	18447	19428	17842	15207	17948	15318	16815	16285	16272	17615	16161	13729	17840	20560
Sac	19832	21987	21952	18805	19600	17622	19522	18369	18549	19577	19384	16510	21902	22865
Scott	26186	25287	24344	23777	23224	22966	23171	22995	23253	23194	22725	20406	21722	19807
Shelby	21664	22473	21974	20006	19882	18208	19832	19629	19738	19820	18930	15691	21082	20075
Sioux	22476	23090	22442	20332	19925	19336	20149	19092	19245	19299	18206	15766	20139	19603
Story	25296	24341	23635	22992	22562	21253	21381	21051	20688	20584	19712	17529	18272	16466
Tama	21216	21354	20265	19881	20517	18857	19743	19510	19961	19999	19645	16777	19691	20192
Taylor	17676	18239	17445	14268	16600	14694	16215	15938	15466	15734	15042	13947	17110	17973
Union	20473	20032	19083	18554	19209	18101	18706	18357	18533	18905	18326	16817	17424	17802
Van Buren	19023	19489	18139	15994	17191	15845	17205	16618	16964	16529	15452	13139	17132	16205
Wapello	21168	20613	20404	19873	19555	18698	19297	19339	19249	19309	18694	16963	18196	16190
Warren	23426	22673	21681	21221	21429	20437	20741	20356	20215	20359	20224	17836	19677	17945
Washington	23140	23710	22740	21299	21847	20590	21330	20806	21073	21175	19817	19448	21907	20375
Wayne	16868	17689	17212	15384	16805	14799	16204	16247	16491	17377	16443	14999	17446	17137
Webster	23285	23328	23077	22329	21899	20064	20970	20291	19995	20322	19403	18381	20668	19145
Winnebago	22368	21403	21326	20544	21154	18328	20255	18798	20515	21388	22401	17690	19774	21443
Winneshiek	22032	21366	20667	19566	19819	18777	19568	18806	19365	19028	17547	13297	16160	14700
Woodbury	24863	24009	23844	22976	22262	21590	22193	21164	21374	21264	21130	18736	20495	19056
Worth	21624	22290	20971	19972	20038	16568	19506	18880	20498	19607	19227	15818	19932	21804
Wright	23265	24444	24178	21592	21036	18306	20592	19036	19915	22104	20935	19851	23079	23033
State of Iowa	24745	24203	23529	22582	22473	21278	21889	21240	21503	21569	20906	18367	20548	19288
Counties:														
Range: Low	15654	16432	15426	14268	15771	14694	15545	15282	15297	15727	14286	12031	14974	14700
High	30468	29269	28506	28243	27718	27038	27074	26433	27060	26412	26046	22865	23600	25624
Number Inc.		53	87	98	39	99	2	95	24	32	90			
United States	27203	26272	25537	25120	24757	24413	24366	23892	24230	24179	23757	20076	20190	18731

Table 3. Change in Per Capita Income and in Adjusted Per Capita Income (1998 dollars) for Iowa's Counties in Selected Periods, 1978-1998.

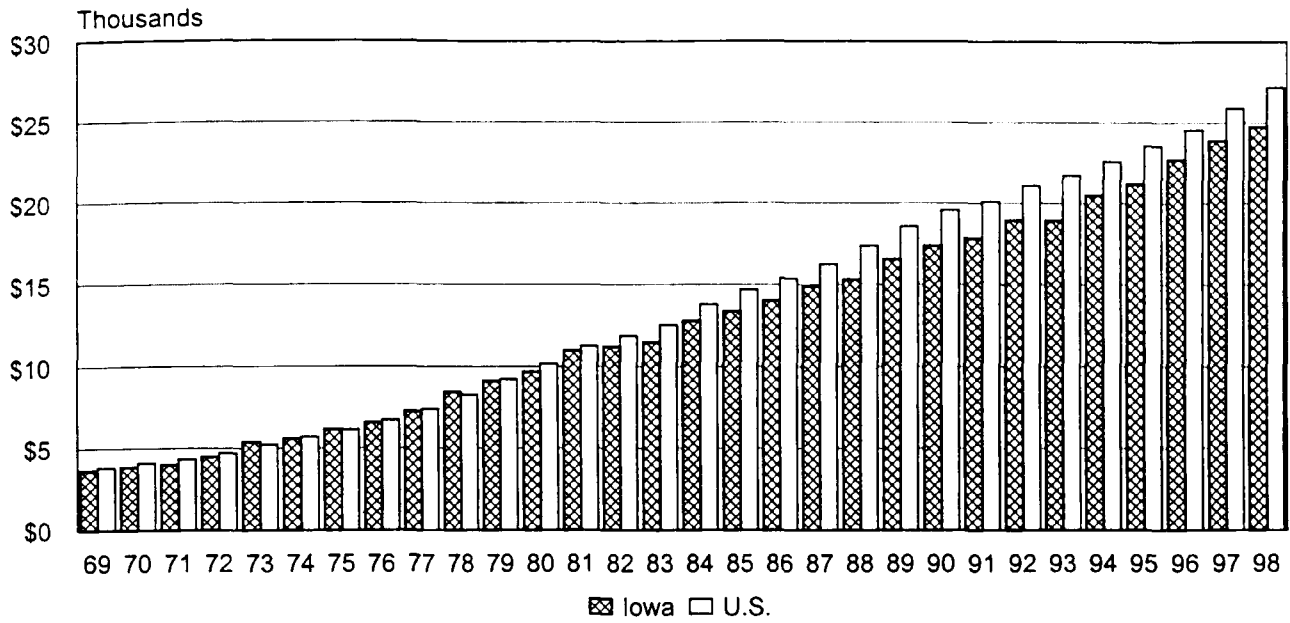
County	Change in Per Capita Income									Change in Adjusted Per Capita Income								
	1978-1998			1988-1998			1993-1998			1978-1998			1988-1998			1993-1998		
	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc
Adair	13366	166.7	13	8217	62.4	7	5815	37.4	4	1861	9.5	9	3410	19.0	5	3883	22.2	3
Adams	13183	176.8	14	8612	71.6	7	5775	38.9	3	2482	13.7	11	4221	25.7	6	3931	23.5	3
Allamakee	13384	189.7	15	8090	65.5	8	4910	31.6	5	3256	18.9	11	3581	21.2	7	2983	17.1	4
Appanoose	12320	181.8	20	7482	64.4	10	4315	29.2	5	2595	15.7	11	3242	20.4	8	2481	14.9	4
Audubon	13045	164.3	13	7702	58.0	7	5010	31.4	4	1651	8.5	11	2853	15.7	6	3028	16.9	3
Benton	14240	166.1	17	9039	65.6	9	6135	36.8	5	1934	9.3	11	4010	21.3	7	4065	21.7	5
Black Hawk	15984	188.0	20	9639	64.9	10	5831	31.3	5	3785	18.3	12	4219	20.8	7	3516	16.8	5
Boone	15762	179.3	19	8961	57.5	9	5169	26.7	5	3143	14.7	13	3268	15.4	7	2764	12.7	4
Bremer	16272	203.3	20	10434	75.4	10	6029	33.0	5	4786	24.6	11	5381	28.5	8	3765	18.4	5
Buchanan	13616	183.2	16	8157	63.3	9	5294	33.6	5	2947	16.3	11	3450	19.6	7	3339	18.9	4
Buena Vista	14450	165.4	17	8579	58.7	8	6353	37.7	4	1915	9.0	10	3247	16.3	6	4265	22.5	4
Butler	12499	152.4	17	7779	60.2	9	4307	26.3	5	730	3.7	10	3062	17.4	6	2273	12.3	3
Calhoun	11437	133.5	14	5459	37.5	5	4798	31.6	3	-856	-4.1	8	149	0.8	4	2911	17.0	2
Carroll	15617	174.9	16	9008	58.0	8	5964	32.1	5	2799	12.9	12	3334	15.7	7	3658	17.5	4
Cass	13435	159.0	15	7827	55.7	7	4992	29.6	4	1310	6.4	11	2695	14.0	6	2896	15.3	4
Cedar	15491	172.7	16	9443	62.9	9	6261	34.4	5	2618	12.0	10	3960	19.3	6	4003	19.6	4
Cerro Gordo	16360	191.5	20	9519	61.9	10	6388	34.5	5	4100	19.7	12	3903	18.6	7	4091	19.7	5
Cherokee	13908	170.9	16	7122	47.7	8	5328	31.9	4	2231	11.3	10	1674	8.2	4	3254	17.3	4
Chickasaw	14212	175.3	17	9034	68.0	9	6336	39.6	5	2575	13.0	11	4183	23.1	7	4353	24.2	5
Clarke	12979	187.8	16	7761	64.0	8	5672	39.9	4	3059	18.2	11	3332	20.1	6	3908	24.5	4
Clay	16124	185.5	16	8917	56.1	8	7652	44.6	5	3648	17.2	12	3112	14.3	6	5522	28.6	5
Clayton	14799	211.5	15	9321	74.7	9	6107	38.9	5	4757	27.9	12	4766	28.0	8	4160	23.6	5
Clinton	14963	184.8	18	8600	59.5	9	5216	29.2	5	3339	16.9	11	3320	16.8	7	3002	15.0	5
Crawford	12720	166.9	15	7140	54.1	7	4353	27.2	4	1781	9.6	10	2320	12.9	6	2369	13.2	3
Dallas	18467	216.5	20	10541	64.1	10	6535	31.9	5	6226	30.0	13	4533	20.2	7	3996	17.4	5
Davis	11469	178.9	17	6630	58.9	8	2960	19.8	4	2269	14.5	11	2523	16.4	6	1109	6.6	3
Decatur	9505	154.6	14	5189	49.6	7	2254	16.8	3	680	4.5	11	1368	9.6	5	591	3.9	3
Delaware	12894	169.8	12	7425	56.8	6	4673	29.5	3	1996	10.8	9	2656	14.9	5	2711	15.3	3
Des Moines	16093	188.4	20	9100	58.6	10	5398	28.1	5	3830	18.4	14	3427	16.2	8	3011	13.9	5
Dickinson	18294	206.5	18	10605	64.1	9	7182	36.0	5	5576	25.8	12	4563	20.2	6	4704	21.0	4
Dubuque	16438	203.9	20	9504	63.4	10	5191	26.9	5	4869	24.8	13	4029	19.7	7	2795	12.9	5
Emmet	14902	177.8	17	9662	70.9	8	7651	48.9	5	2873	14.1	12	4689	25.2	7	5711	32.5	5
Fayette	12763	173.4	16	7824	63.6	9	5378	36.5	5	2201	12.3	11	3334	19.9	7	3549	21.4	5
Floyd	13943	172.5	19	7944	56.4	9	5084	30.0	5	2343	11.9	12	2803	14.6	8	2982	15.7	5
Franklin	14047	164.9	15	8377	59.0	8	7440	49.2	5	1819	8.8	8	3196	16.5	4	5563	32.7	2
Fremont	11874	139.4	13	6189	43.6	6	6260	44.3	3	-351	-1.7	10	1004	5.2	5	4506	28.4	3
Greene	11521	121.4	14	6697	46.8	6	4690	28.7	3	-2098	-9.1	10	1471	7.5	6	2665	14.5	3
Grundy	16275	174.6	16	10512	69.7	8	6605	34.8	4	2899	12.8	12	5005	24.3	8	4249	19.9	4
Guthrie	13417	173.4	16	7433	54.2	8	4871	29.9	4	2313	12.3	10	2423	12.9	5	2851	15.6	3
Hamilton	15554	168.8	15	10074	68.6	7	6716	37.2	4	2328	10.4	10	4709	23.5	6	4476	22.1	3
Hancock	12025	124.1	13	6889	46.5	7	6037	38.5	4	-1884	-8.0	10	1476	7.3	5	4091	23.2	3
Hardin	15270	175.0	17	9774	68.7	9	5998	33.3	5	2749	12.9	13	4582	23.6	7	3765	18.6	4
Harrison	12144	159.7	15	7301	58.7	8	4136	26.5	4	1231	6.6	8	2757	16.2	5	2199	12.5	2
Henry	13983	171.6	20	7849	55.0	10	4442	25.1	5	2290	11.5	12	2635	13.5	7	2247	11.3	4
Howard	15332	201.5	15	10778	88.6	9	7847	52.0	5	4410	23.8	12	6337	38.2	8	5974	35.2	5
Humboldt	14580	162.1	13	8992	61.7	6	6468	37.8	4	1674	7.6	9	3669	18.4	5	4346	22.6	3
Ida	14226	166.2	14	8125	55.4	8	6801	42.6	4	1943	9.3	11	2773	13.9	6	4818	26.8	4
Iowa	18544	220.8	17	12178	82.5	8	6728	33.3	4	6490	31.7	11	6787	33.7	7	4220	18.6	4
Jackson	12204	164.3	16	6992	55.3	9	3701	23.2	5	1546	8.5	11	2378	13.8	7	1724	9.6	4
Jasper	16177	186.6	19	8923	56.0	9	5624	29.3	5	3732	17.7	12	3109	14.3	7	3239	15.0	4

Table 3. Change in Per Capita Income and in Adjusted Per Capita Income (1998 dollars) for Iowa's Counties in Selected Periods, 1978-1998 (continued).

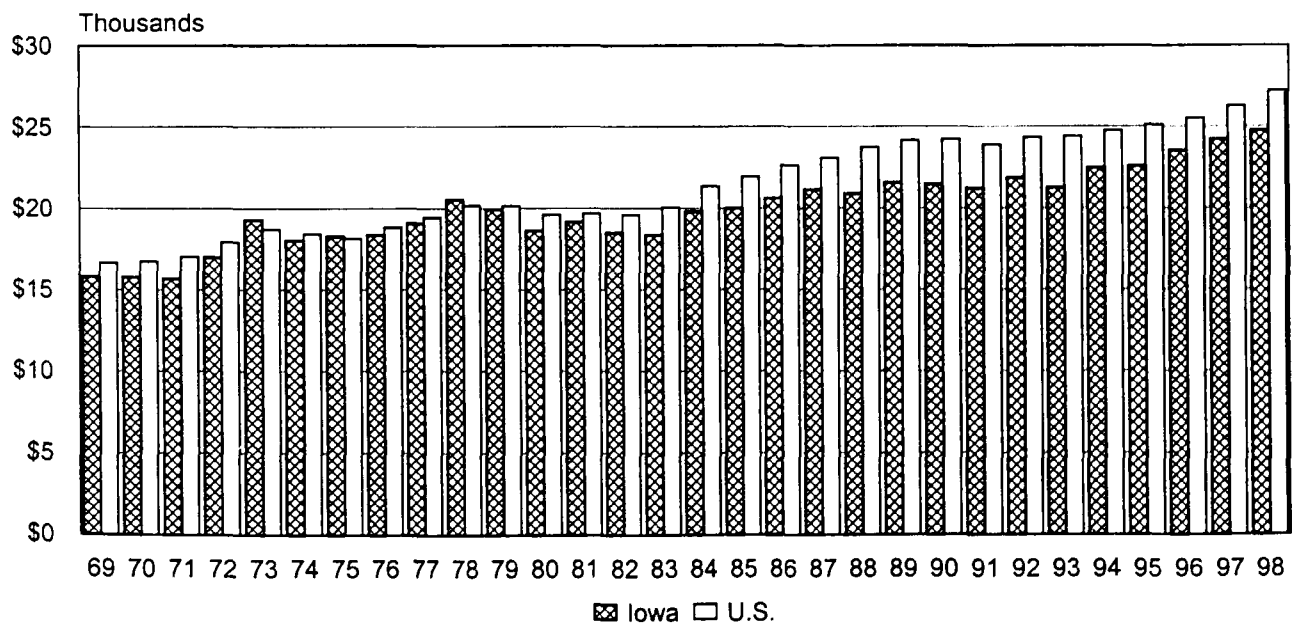
County	Change in Per Capita Income									Change in Adjusted Per Capita Income								
	1978-1998			1988-1998			1993-1998			1978-1998			1988-1998			1993-1998		
	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc	\$	%	Yrs Inc
Jefferson	15208	208.7	18	8547	61.3	9	5914	35.7	5	4751	26.8	12	3455	18.1	6	3857	20.7	3
Johnson	19371	230.2	20	11638	72.1	10	6316	29.4	5	7295	35.6	16	5743	26.1	9	3652	15.1	5
Jones	11211	149.4	15	6484	53.0	8	3814	25.6	5	441	2.4	10	2018	12.1	6	1965	11.7	4
Keokuk	11110	136.2	15	6086	46.2	7	4053	26.6	3	-599	-3.0	9	1273	7.1	5	2165	12.7	3
Kossuth	13291	157.6	13	6932	46.9	5	6817	45.7	3	1185	5.8	10	1531	7.6	5	4967	29.6	3
Lee	14549	178.5	20	8347	58.2	10	5202	29.7	5	2849	14.4	11	3106	15.9	6	3031	15.4	4
Linn	20654	229.4	20	11902	67.0	10	7371	33.1	5	7734	35.3	15	5420	22.4	8	4606	18.4	5
Louisa	12840	175.7	14	6630	49.0	6	3586	21.7	3	2350	13.2	11	1694	9.2	6	1531	8.2	3
Lucas	12044	154.9	18	5783	41.2	8	3366	20.5	4	888	4.7	11	659	3.4	6	1325	7.2	4
Lyon	12005	152.6	14	7014	54.6	7	4769	31.6	4	715	3.7	10	2320	13.2	5	2895	17.1	2
Madison	14681	185.5	16	8686	62.5	8	5773	34.3	4	3324	17.2	12	3608	19.0	6	3686	19.5	4
Mahaska	14357	172.4	17	8907	64.7	9	6030	36.2	5	2406	11.9	11	3877	20.6	6	3964	21.2	4
Marion	15819	187.8	20	8905	58.1	10	5391	28.6	5	3730	18.2	13	3305	15.8	7	3052	14.4	4
Marshall	15216	169.8	19	8498	54.2	9	4560	23.2	5	2355	10.8	13	2774	13.0	7	2126	9.6	4
Mills	17322	203.4	17	8818	51.8	8	6343	32.5	4	5101	24.6	11	2604	11.2	5	3924	17.9	3
Mitchell	15417	190.9	15	8773	59.6	7	6061	34.8	4	3823	19.4	12	3398	16.9	6	3898	19.9	3
Monona	11913	150.5	12	6829	52.5	6	4317	27.8	3	552	2.9	9	2083	11.7	5	2392	13.7	3
Monroe	14835	214.4	20	8561	64.9	10	5050	30.2	5	4905	29.1	12	3744	20.8	7	2977	15.9	4
Montgomery	14461	169.2	16	8217	55.6	8	4884	26.9	4	2196	10.6	12	2817	14.0	6	2635	12.9	3
Muscatine	16960	197.9	20	9161	56.0	10	5099	25.0	5	4659	22.3	13	3184	14.2	7	2564	11.2	4
O'Brien	14422	162.6	17	7519	47.7	8	6897	42.1	4	1693	7.8	10	1761	8.2	4	4863	26.4	4
Osceola	13117	150.4	16	8073	58.6	8	6962	46.8	4	596	2.8	11	3046	16.2	5	5116	30.6	2
Page	13822	176.0	19	7445	52.3	9	4057	23.0	5	2553	13.4	10	2250	11.6	5	1871	9.4	3
Palo Alto	13328	158.4	13	7695	54.8	7	7277	50.3	4	1251	6.1	11	2566	13.4	5	5482	33.7	3
Plymouth	14488	175.8	15	9035	66.0	9	4285	23.2	5	2662	13.3	12	4036	21.6	7	1997	9.6	4
Pocahontas	13387	149.3	12	8141	57.3	6	7959	55.3	3	519	2.4	9	2952	15.2	5	6173	38.2	3
Polk	20835	216.3	20	11388	59.7	10	6415	26.7	5	7009	29.9	16	4422	17.0	8	3430	12.7	5
Pottawattamie	14221	174.8	20	7826	53.9	10	4999	28.8	5	2545	12.8	13	2521	12.7	7	2845	14.6	5
Poweshiek	15956	190.5	18	9285	61.7	9	5878	31.9	5	3933	19.3	10	3791	18.5	6	3588	17.3	4
Ringgold	11121	151.8	13	6608	55.8	6	4820	35.4	3	607	3.4	12	2286	14.1	6	3129	20.4	3
Sac	10838	120.5	12	5632	39.7	6	4155	26.5	3	-2070	-9.5	8	448	2.3	5	2210	12.5	3
Scott	17266	193.6	20	9539	57.3	10	5755	28.2	5	4464	20.6	14	3461	15.2	8	3220	14.0	5
Shelby	13007	150.2	13	7797	56.2	8	5466	33.7	4	582	2.8	10	2734	14.4	6	3456	19.0	4
Sioux	14206	171.8	15	9139	68.5	8	5274	30.7	4	2337	11.6	11	4270	23.5	6	3140	16.2	4
Story	17793	237.1	20	10856	75.2	10	6389	33.8	5	7024	38.4	15	5584	28.3	9	4043	19.0	5
Tama	13130	162.4	16	6825	47.4	8	4441	26.5	4	1525	7.7	10	1571	8.0	5	2359	12.5	3
Taylor	10650	151.6	14	6657	60.4	7	4604	35.2	3	566	3.3	11	2634	17.5	6	2982	20.3	3
Union	13318	186.1	17	7048	52.5	8	4370	27.1	4	3049	17.5	11	2147	11.7	6	2372	13.1	4
Van Buren	11988	170.4	14	7704	68.1	7	4927	35.0	3	1891	11.0	11	3571	23.1	6	3178	20.1	3
Wapello	13696	183.3	19	7474	54.6	9	4534	27.3	5	2972	16.3	12	2474	13.2	7	2470	13.2	5
Warren	15346	189.9	20	8611	58.1	10	5245	28.8	5	3749	19.1	13	3202	15.8	7	2989	14.6	4
Washington	14144	157.2	17	8623	59.4	8	4823	26.3	4	1233	5.6	8	3323	16.8	5	2550	12.4	3
Wayne	9704	135.5	14	4823	40.0	6	3703	28.1	3	-578	-3.3	9	425	2.6	4	2069	14.0	3
Webster	14798	174.4	19	9071	63.8	9	5436	30.5	5	2617	12.7	10	3882	20.0	7	3221	16.1	4
Winnebago	14248	175.5	17	5958	36.3	7	6063	37.2	4	2594	13.1	11	-33	-0.1	5	4040	22.0	4
Winneshiek	15396	232.0	16	9178	71.4	9	5328	31.9	5	5872	36.3	11	4485	25.6	7	3255	17.3	4
Woodbury	16447	195.4	20	9384	60.6	10	5656	29.4	5	4368	21.3	14	3733	17.7	8	3273	15.2	5
Worth	13439	164.2	14	7539	53.5	7	6885	46.7	4	1692	8.5	11	2397	12.5	6	5056	30.5	3
Wright	13788	145.5	15	7929	51.7	6	6980	42.9	4	186	0.8	9	2330	11.1	6	4959	27.1	4
State of Iowa	16307	193.3	19	9430	61.6	9	5816	30.7	5	4197	20.4	12	3839	18.4	7	3467	16.3	5
United States	18912	228.1	20	9800	56.3	10	5485	25.3	5	7013	34.7	16	3446	14.5	9	2790	11.4	5

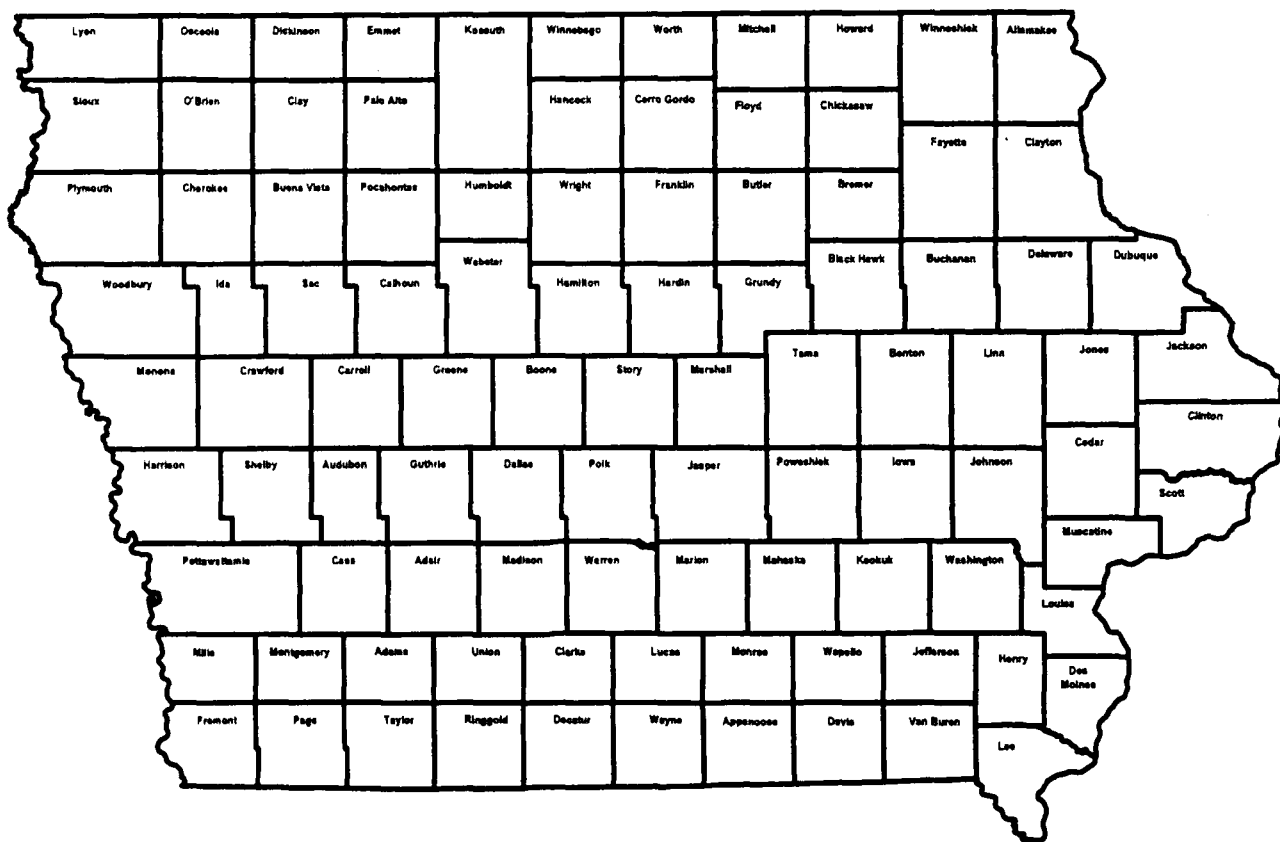


**Figure 2. Per capita income in Iowa and the United States, 1969–1998.**



**Figure 3. Adjusted per capita income (in 1998 dollars) in Iowa and the United States, 1969–1998.**





## Personal Income in Iowa's Counties: 1988-1998

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Information related to selected categories of income is estimated annually by the Bureau of Economic Analysis of the U.S. Department of Commerce. Four categories are included in this report. Nonfarm earnings include any income from wages, salaries, and self-employment received from other than farming activities. The second category consists of farm earnings, which refer to wages, salaries, and self-employment earnings received in farming activities. Dividends, interest, and rent constitute the third category. The fourth category includes transfer payments, with Social Security and public assistance benefits the two primary components; also included is the imputed value of non-monetary income or benefits such as Medicare, public housing subsidies, and other "in-kind" resources. The sum of the four categories represents total personal income in Iowa and its counties. Because of the inclusion of the value of non-monetary benefits, the income figures from the Bureau of Economic Analysis will generally be higher than figures produced by the U.S. Bureau of the Census which do not include such "in-kind" benefits. In this report, both initial income figures and data adjusted for inflation (using 1998 dollar values) are presented. The adjusted figures indicate whether income trends were keeping pace with the rising prices of goods and services.

### Total Personal Income

Total personal income is derived from broad sources: personal employment, which generates personal earnings from farm or nonfarm sources; dividends, interest, and rents received by individuals, (the returns received for investing money, land, and capital in the production process); and transfer payments to individuals, which include payments for which no goods or services are provided in return.

Personal income totaled \$70.8 billion in 1998, up \$2.6 billion from 1997 and \$28.4 billion from 1988 (Table 1). In 1998, income ranged from less than \$100 million in Adams and Ringgold to \$11.0 billion in Polk. Adams and Ringgold are two of Iowa's least populous counties, while Polk has the highest number of residents; in general, total income tends to follow the ranking on total population. Income increased by 67.0 percent from 1988 to 1998 in Iowa; gains occurred in all counties. Two (Adams, Wayne) increased by less than \$30 million; six others (Black Hawk, Johnson, Linn, Polk, Scott, Woodbury) each gained more than \$1 billion from 1988 to 1998.

When inflation is taken into account, however, increases in total personal income show a somewhat different pattern (Table 2). Adjusted income increased between 1988 and 1998 but not annually. The total increase for the period was \$12.9 billion or 22.3 percent. County patterns also differed; six counties had lower total personal income in 1998 than in 1988 after inflation was included in the calculations. Gains in adjusted income in the remaining 93 counties were greatest in Polk (\$2.7 billion), Linn (\$1.4 billion), Johnson (\$809 million), and Scott (\$732 million); 23 others increased by at least \$100 million from 1988 to 1998 when the adjusted figures were used.

### Nonfarm Earnings

Of the four categories summed to yield total personal income, nonfarm earnings constituted by far the largest share (\$44.8 billion or 63.2% of the total in 1998) (Table 3). Statewide, nonfarm earnings increased each year from 1988 to 1998; the gain was 71.9 percent during this period. All counties reported increases as well. Nonfarm earnings tend to follow the distribution of population; counties with greater numbers of residents generally have higher nonfarm earnings. Polk's nonfarm earnings of \$7.9

Table 1. Total Personal Income (in \$1,000s) in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Adair	173261	167944	166531	140366	151366	130858	142556	131002	130988	127778	112021
Adams	90522	93055	90222	71692	78715	68195	74578	71052	69507	69474	61280
Allamakee	287241	273109	261351	239721	232394	217678	219828	203033	203285	194554	174919
Appanoose	259090	250725	238813	219932	220143	204287	203057	192698	182469	173293	162131
Audubon	142816	154434	148675	128969	126643	111837	124092	119822	112228	113821	99733
Benton	579455	548737	509804	462014	431387	391131	387181	363167	353822	344689	307102
Black Hawk	2960577	2841799	2666610	2577822	2467141	2318419	2265855	2131361	2058742	1960884	1817683
Boone	641178	630544	598791	552317	540486	488523	490858	460241	438405	429683	392558
Bremer	566660	545402	512850	471783	452996	422600	417063	382019	370254	343330	311635
Buchanan	445241	435510	411943	374878	371789	332853	342685	325955	315212	298536	267676
Buena Vista	450053	457975	439451	394018	382188	340404	349372	329140	321222	319170	294528
Butler	323546	320144	315719	282544	281147	256986	268068	248573	241488	219132	206289
Calhoun	227478	240803	246147	215294	217313	175002	195295	170799	172602	179531	169176
Carroll	530622	524231	493941	445618	431038	401477	414329	370794	350578	354097	337678
Cass	320410	309435	300622	274427	277672	253832	263236	245565	239114	241222	215448
Cedar	439233	428956	404948	360083	352835	318519	322259	303407	301295	287956	260242
Cerro Gordo	1147325	1101781	1050569	983527	939114	861822	864430	829715	806023	752211	726382
Cherokee	290759	296129	289783	259904	252371	232401	239630	236595	230721	220172	213033
Chickasaw	299642	294857	279439	257990	242506	212701	224153	208063	201603	193566	179861
Clarke	165154	155751	138055	127604	129207	118541	122990	117925	116635	112612	102002
Clay	433656	426718	413100	369667	357247	303317	316733	295227	297222	290491	273390
Clayton	407828	395847	373849	337219	313559	295519	306771	286261	288095	274015	241624
Clinton	1151338	1116286	1080649	1013368	973125	914453	920736	863043	834415	803390	742836
Crawford	334877	337406	323641	297484	296988	263890	270114	247573	250744	239641	230784
Dallas	995213	927684	863106	776136	716937	651151	626604	577366	548374	524932	480095
Davis	151294	150783	143811	127542	134761	125018	121973	111642	114099	102399	94209
Decatur	129007	132158	122505	110984	117004	107831	109416	104596	102547	102523	88565
Delaware	379858	378377	366599	314544	317588	289326	297106	273305	280267	267316	234919
Des Moines	1036461	990949	938183	892485	869676	824433	806879	768161	745559	704127	665016
Dickinson	440163	420405	404374	366295	344952	307079	307631	286015	277397	267102	243722
Dubuque	2152991	2054118	1970729	1910979	1809911	1697009	1652128	1526576	1461922	1402840	1309822
Emmet	252619	244459	235376	214948	209995	178303	193806	177583	178039	170555	159011
Fayette	438538	434566	421283	382699	368848	323371	337284	323368	318382	304099	269049
Floyd	360525	353930	337244	311915	305408	284670	298197	286722	281971	255595	245012
Franklin	245187	244593	245101	208818	207613	170086	197272	173496	179064	174214	163637
Fremont	158465	166657	165132	137008	140332	114925	135283	125793	119356	121067	119885
Greene	211678	217329	225794	202397	195573	165452	187661	165413	155848	163330	147577
Grundy	313129	318476	290658	280492	255461	228851	244802	220900	211826	195413	185134
Guthrie	243400	237510	237582	207725	202523	182227	191944	181695	175246	171917	151751
Hamilton	396556	402251	392928	351934	346758	289624	304514	291288	275514	286685	241878
Hancock	261550	264518	258803	228846	226777	190566	210133	185424	199658	192957	190736
Hardin	440291	434410	419934	387711	375734	334799	349150	322461	320348	298313	275682
Harrison	302855	308439	305535	263347	257855	231091	241097	215157	205703	197770	187699
Henry	443446	428777	407707	377526	372697	345730	344901	325578	316645	291308	272955
Howard	222082	214985	200080	181751	177221	149179	159738	150286	147378	140722	122359
Humboldt	243432	250247	249900	222682	210183	178994	195157	170539	173150	180077	158474
Ida	180378	182681	174247	153040	151043	132896	142545	131797	131913	129210	122318
Iowa	417974	406380	359297	319515	326256	300642	304455	270713	252505	242032	217124
Jackson	395329	383156	363941	336856	334824	320662	311736	289317	291017	279724	260131
Jasper	907954	866223	815319	761787	740854	672787	670761	638012	629521	590085	553286



Table 1. Total Personal Income (in \$1,000s) in Iowa's Counties, 1988-1996 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Jefferson	383371	379647	341398	310559	308025	277538	281038	262354	258603	244956	227915
Johnson	2849558	2678571	2524820	2395482	2302208	2123519	1998601	1874365	1778055	1673852	1494629
Jones	376875	368354	354837	326519	319795	295582	303678	280209	278954	267822	234126
Keokuk	220980	232343	211673	188632	194704	176874	189847	183274	179253	177267	155920
Kossuth	385012	394890	378854	333698	336994	270509	307387	269695	293088	297810	281572
Lee	873735	841600	807378	753429	731571	680294	676971	637877	619848	595871	562318
Linn	5420567	4982677	4641047	4417881	4182699	3902221	3723903	3538272	3382970	3229361	2946850
Louisa	240476	240344	231402	211408	212354	194548	192151	180609	182591	172524	157310
Lucas	180298	175479	166566	153607	165729	148917	152406	145835	139487	136694	130431
Lyon	239173	249452	246055	209927	205321	180590	192880	182233	174888	174443	153565
Madison	313787	300018	279806	247445	242258	216455	217990	205010	198721	190244	171371
Mahaska	496750	478551	436638	399439	395029	360692	360690	342977	336920	319191	297012
Marion	759425	728065	675498	633806	624920	573509	561070	529414	512694	485704	458370
Marshall	936607	910966	855306	840743	803236	743144	746366	722034	690686	670498	602150
Mills	374146	366863	334387	293130	293026	260378	270335	256608	245283	233457	226665
Mitchell	259222	266785	252586	224453	219840	191962	205653	194123	196367	184350	163561
Monona	199639	207732	200027	169326	178672	156329	166018	142554	142290	144723	133866
Monroe	174751	168568	158897	148473	147956	136219	136531	129667	124662	116625	107552
Montgomery	272631	269376	261170	226777	233371	218094	219119	211197	200713	197426	178357
Muscatine	1046560	981014	942373	893026	885260	838180	818310	769164	747263	691766	650539
O'Brien	346733	351848	335765	299527	291995	252367	272100	265036	258174	250751	245342
Osceola	151929	156304	155406	134714	134928	106908	119845	117203	111168	105982	101125
Page	374337	372632	362938	325003	319343	292898	302498	286879	276910	267902	238144
Palo Alto	218714	231206	226952	189944	188467	150835	177546	151863	164673	159455	152306
Plymouth	559316	554319	539113	483577	466017	441646	438558	404663	380375	372014	324368
Pocahontas	197044	204273	201022	171678	174353	131748	161245	143571	143475	152547	140219
Polk	10959783	10288869	9739623	9290329	8763866	8252021	7922486	7395825	7181967	6539905	6050402
Pottawattamie	1926901	1857158	1755725	1627053	1567791	1449161	1436579	1366045	1305372	1245453	1210770
Poweshiek	456466	444084	411320	383455	381972	347993	351333	336211	325664	312917	284693
Ringgold	98841	102870	92109	75968	87322	73162	78374	73794	71192	73516	64193
Sac	235863	258525	254201	212149	216471	188927	205426	187854	184580	185660	175793
Scott	4146182	3936052	3694381	3493787	3305426	3178928	3108351	2964001	2843913	2672232	2500766
Shelby	280207	289895	277263	244548	237859	213340	227035	219043	210999	202094	186043
Sioux	706319	712965	672484	595444	567887	531127	529729	482934	465392	442727	399798
Story	1894042	1799518	1698241	1599844	1527051	1412555	1373102	1310073	1241960	1165064	1066853
Tama	376923	372551	345303	331121	332195	295419	297745	285118	281173	268541	254368
Taylor	126364	128154	120590	95619	107640	92433	98999	94755	88834	86848	79780
Union	256364	247064	232000	216442	217946	202029	203040	195380	191437	183403	171141
Van Buren	149562	150467	135597	116494	121317	109439	114998	108038	105382	97336	88831
Wapello	749062	721740	701707	664194	641670	599591	599053	581058	555690	528921	487383
Warren	941921	890087	824941	773096	749644	688721	668048	626683	591144	557410	521067
Washington	484497	488646	453689	409841	403591	371065	372505	347916	334302	318575	285047
Wayne	112629	118261	113299	98699	105653	91892	97774	96090	94236	94161	85317
Webster	907519	890623	867824	822432	787669	711601	727412	686429	651678	632076	578342
Winnebago	267121	254613	246804	230012	229633	193064	208739	189225	201241	199200	197623
Winneshiek	461827	439099	417406	384166	379300	350740	355111	332506	326085	307305	270521
Woodbury	2524745	2413242	2356591	2198170	2056799	1935958	1917521	1765126	1700680	1595971	1510320
Worth	167413	170946	159190	146807	143163	117293	132975	125094	132103	121860	114986
Wright	326622	340943	333560	290850	272795	230510	253933	226470	229497	243534	219585
State of Iowa	70797146	68169888	64696433	60170926	57998885	53390872	53161046	49848587	48312550	45887504	42399262

Table 2. Adjusted Total Personal Income (1998 dollars in \$1,000s) in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Adair	173261	170199	172516	149648	165951	147095	164762	155800	162065	166405	152920
Adams	90522	94304	93465	76433	86300	76657	86195	84502	85998	90476	83653
Allamakee	287241	276775	270744	255573	254787	244688	254071	241467	251515	253368	238782
Appanoose	259090	254091	247396	234476	241355	229636	234688	229175	225760	225679	221325
Audubon	142816	156507	154018	137498	138846	125714	143422	142504	138854	148229	136145
Benton	579455	556103	528126	492566	472954	439664	447493	431914	437767	448889	419224
Black Hawk	2960577	2879948	2762448	2748290	2704869	2606098	2618811	2534822	2547184	2553659	2481315
Boone	641178	639009	620311	588841	592566	549141	567320	547363	542418	559576	535880
Bremer	566660	552724	531282	502981	496646	475038	482030	454334	458098	447119	425412
Buchanan	445241	441356	426748	399668	407614	374155	396066	387657	389997	388783	365404
Buena Vista	450053	464123	455245	420074	419015	382643	403794	391445	397433	415655	402059
Butler	323546	324442	327066	301228	308238	288874	309825	295627	298782	285376	281605
Calhoun	227478	244036	254993	229531	238253	196717	225716	203131	213552	233803	230942
Carroll	530622	531268	511693	475086	472572	451294	478870	440984	433754	461141	460963
Cass	320410	313589	311426	292574	304428	285329	304241	292050	295844	314143	294108
Cedar	439233	434714	419502	383895	386833	358042	372458	360841	372778	375005	355256
Cerro Gordo	1147325	1116572	1088326	1048566	1029605	968760	999084	986778	997254	979604	991582
Cherokee	290759	300104	300198	277091	276689	261238	276958	281382	285460	286730	290811
Chickasaw	299642	298815	289482	275051	265873	239094	259070	247449	249434	252081	245528
Clarke	165154	157842	143017	136042	141657	133250	142148	140248	144307	146655	139243
Clay	433656	432446	427947	394113	391671	340954	366071	351113	367739	378306	373204
Clayton	407828	401161	387285	359519	343773	332188	354557	340449	356446	356850	329840
Clinton	1151338	1131271	1119487	1080381	1066893	1027922	1064160	1026415	1032382	1046255	1014044
Crawford	334877	341935	335273	317156	325605	296635	312190	294438	310234	312085	315043
Dallas	995213	940137	894126	827461	786019	731949	724211	686660	678477	683619	655377
Davis	151294	152807	148980	135976	147746	140531	140973	132776	141169	133354	128604
Decatur	129007	133932	126908	118323	128278	121211	126460	124396	126877	133516	120900
Delaware	379858	383456	379775	335344	348190	325227	343387	325041	346761	348126	320687
Des Moines	1036461	1004252	971901	951504	953476	926732	932568	913572	922445	916985	907812
Dickinson	440163	426049	418907	390518	378191	345183	355551	340157	343210	347847	332704
Dubuque	2152991	2081693	2041557	2037350	1984310	1907581	1909483	1815553	1808767	1826919	1788035
Emmet	252619	247741	243835	229162	230230	200428	223995	211199	220279	222114	217066
Fayette	438538	440400	436424	408006	404389	363496	389823	384581	393919	396028	367278
Floyd	360525	358681	349365	332542	334836	319993	344648	340998	348869	332861	334465
Franklin	245187	247876	253910	222627	227618	191191	228001	206338	221547	226879	223380
Fremont	158465	168894	171067	146068	153854	129185	156356	149605	147674	157666	163655
Greene	211678	220246	233909	215781	214418	185982	216893	196725	192823	212705	201457
Grundy	313129	322751	301104	299041	280077	257248	282935	262716	262082	254486	252726
Guthrie	243400	240698	246121	221462	222038	204838	221843	216089	216824	223888	207155
Hamilton	396556	407651	407050	375207	380171	325562	351949	346428	340880	373350	330187
Hancock	261550	268069	268104	243979	248629	214212	242866	220524	247027	251288	260373
Hardin	440291	440242	435026	413350	411939	376342	403538	383502	396351	388493	376333
Harrison	302855	312580	316516	280762	282701	259766	278653	255886	254507	257556	256227
Henry	443446	434533	422360	402491	408609	388630	398627	387209	391770	379370	372610
Howard	222082	217871	207271	193770	194298	167690	184621	178735	182344	183262	167032
Humboldt	243432	253606	258881	237408	230436	201204	225557	202822	214230	234514	216332
Ida	180378	185133	180509	163160	165597	149386	164749	156746	163210	168270	166976
Iowa	417974	411835	372210	340644	357693	337947	351880	321958	312413	315198	296395
Jackson	395329	388300	377021	359132	367087	360451	360296	344084	360062	364285	355104
Jasper	907954	877851	844621	812163	812241	756269	775246	758786	778877	768468	755289

Table 2. Adjusted Total Personal Income (1998 dollars in \$1,000s) in Iowa's Counties, 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Jefferson	383371	384743	353668	331096	337706	311976	324816	312017	319957	319006	311126
Johnson	2849558	2714529	2615562	2553892	2524044	2387014	2309926	2229177	2199904	2179858	2040314
Jones	376875	373299	367590	348111	350610	332259	350982	333252	345137	348785	319605
Keokuk	220980	235462	219281	201106	213465	198821	219420	217967	221781	230855	212846
Kossuth	385012	400191	392470	355765	369466	304075	355269	320748	362624	387838	384373
Lee	873735	852898	836395	803252	802064	764708	782424	758625	766909	776003	767619
Linn	5420567	5049566	4807846	4710030	4585735	4386425	4303981	4208057	4185589	4205597	4022738
Louisa	240476	243570	239719	225388	232816	218688	222083	214798	225911	224678	214744
Lucas	180298	177835	172552	163765	181698	167395	176147	173441	172581	178017	178051
Lyon	239173	252801	254898	223809	225105	202998	222925	216729	216381	227177	209631
Madison	313787	304046	289862	263808	265601	243314	251947	243818	245868	247755	233938
Mahaska	496750	484975	452331	425853	433093	405448	416875	407902	416855	415682	405450
Marion	759425	737839	699775	675719	685136	644672	648469	629631	634332	632532	625720
Marshall	936607	923195	886046	896340	880634	835356	862629	858713	854553	873190	821994
Mills	374146	371788	346405	312514	321261	292687	312446	305183	303477	304031	309420
Mitchell	259222	270366	261664	239296	241023	215781	237688	230870	242956	240079	223277
Monona	199639	210521	207216	180523	195888	175727	191879	169539	176049	188473	182740
Monroe	174751	170831	164608	158291	162213	153122	157799	154213	154238	151881	146819
Montgomery	272631	272992	270556	241773	255858	245156	253252	251176	248333	257108	243475
Muscatine	1046560	994183	976242	952081	970562	942185	945779	914765	924553	900887	888049
O'Brien	346733	356571	347832	319334	320131	283682	314485	315207	319427	326553	334916
Osceola	151929	158402	160991	143622	147929	120174	138513	139389	137543	138020	138045
Page	374337	377634	375982	346495	350114	329242	349619	341184	342608	348889	325090
Palo Alto	218714	234310	235109	202505	206627	169551	205203	180610	203742	207658	207913
Plymouth	559316	561760	558489	515555	510921	496447	506873	481265	470620	484474	442794
Pocahontas	197044	207015	208247	183031	191153	148096	186362	170749	177515	198662	191413
Polk	10959783	10426989	10089664	9904686	9608333	9275966	9156584	8795835	8885909	8516919	8259389
Pottawattamie	1926901	1882089	1818826	1734648	1718860	1628979	1660357	1624634	1615075	1621954	1652819
Poweshiek	456466	450045	426103	408812	418778	391173	406061	399855	402929	407512	388634
Ringgold	98841	104251	95419	80992	95736	82240	90582	87763	88083	95740	87630
Sac	235863	261996	263337	226178	237330	212370	237426	223414	228372	241785	239975
Scott	4146182	3988891	3827157	3724826	3623929	3573383	3592544	3525078	3518639	3480048	3413790
Shelby	280207	293787	287228	260720	260779	239812	262401	260507	261059	263187	253967
Sioux	706319	722536	696653	634820	622607	597031	612246	574352	575808	576563	545763
Story	1894042	1823675	1759276	1705640	1674194	1587831	1586992	1558066	1536619	1517263	1456358
Tama	376923	377552	357713	353018	364205	332076	344125	339090	347882	349721	347237
Taylor	126364	129874	124924	101942	118012	103902	114420	112692	109910	113102	108907
Union	256364	250381	240338	230755	238947	227098	234668	232365	236856	238846	233624
Van Buren	149562	152487	140470	124198	133007	123019	132911	128489	130384	126761	121263
Wapello	749062	731429	726926	708116	703500	673991	692368	691051	687529	688814	665325
Warren	941921	902036	854589	824220	821878	774180	772111	745312	731395	725915	711307
Washington	484497	495206	469995	436943	442480	417108	430531	413776	413616	414880	389117
Wayne	112629	119849	117371	105226	115833	103294	113004	114280	116594	122626	116466
Webster	907519	902579	899013	876818	863567	799899	840722	816368	806290	823153	789493
Winnebago	267121	258031	255674	245222	251760	217020	241255	225045	248986	259418	269775
Winneshiek	461827	444994	432408	409570	415849	394261	410427	395448	403450	400203	369288
Woodbury	2524745	2445638	2441287	2343532	2254988	2176180	2216216	2099260	2104171	2078433	2061734
Worth	167413	173241	164911	156515	156958	131847	153689	148774	163445	158698	156967
Wright	326622	345520	345548	310084	299081	259113	293489	269340	283946	317154	299755
State of Iowa	70797146	69085018	67021615	64149949	63587528	60015832	61442025	59284791	59774841	59759301	57879130

Table 3. Nonfarm Earnings (in \$1,000s) in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Adair	88522	81286	77690	75492	71615	69654	67038	62216	60555	54786	53512
Adams	43973	42063	39503	39057	37568	35609	33541	31819	30359	30196	29374
Allamakee	146330	139045	130948	125490	120525	114085	108317	99353	94258	91821	89280
Appanoose	138762	129706	120981	115884	115000	110527	106327	100476	91294	85761	82343
Audubon	62516	58818	55754	54663	54320	52604	51116	48476	44657	43123	43200
Benton	364967	323557	293929	279496	265142	242232	227630	214319	204659	195923	184896
Black Hawk	1878973	1805190	1679004	1641685	1591294	1508265	1456148	1351090	1308527	1244357	1172353
Boone	371262	347653	333907	310426	296612	278457	266828	251055	239814	228614	216693
Bremer	337586	319633	297097	283050	274716	260872	247082	226761	215703	199871	187622
Buchanan	260105	242411	223885	220349	211347	195813	186345	175393	167949	159179	152595
Buena Vista	235290	221332	209877	203589	195384	186968	178463	169361	159039	157552	147735
Butler	165140	155844	145802	142752	140771	139409	132533	123314	116973	111860	104766
Calhoun	104445	99758	95726	93628	90514	89352	84821	80411	75544	74390	69519
Carroll	295188	265346	247097	229141	221724	216744	201547	183884	171705	165642	162898
Cass	166657	155753	143928	140172	133760	130886	123409	113484	111639	111005	107120
Cedar	240917	226033	213359	205060	197290	188843	181465	171980	166899	155254	147756
Cerro Gordo	685997	646500	614585	585908	557621	526841	511657	489836	467559	448218	436650
Cherokee	144573	138544	132328	127401	125020	122021	116051	111849	107640	99455	97303
Chickasaw	162901	152284	143121	137443	130981	123403	118158	110487	104337	103832	101631
Clarke	95529	86064	78518	72504	70085	66864	67525	65633	64402	63901	57326
Clay	252826	243530	227411	211080	200073	189710	178807	167798	164696	157761	151001
Clayton	197205	190496	177142	170057	151344	145863	141170	129618	124975	118771	114582
Clinton	710815	680701	650337	618746	598591	572150	564277	528036	501105	479672	455337
Crawford	186351	175601	166739	163165	152228	147589	139862	129678	122784	120115	122280
Dallas	692627	628832	567554	520513	485942	446094	419354	382382	363991	337190	325793
Davis	87157	81880	78599	76679	75422	71770	66207	62308	59957	56369	52863
Decatur	68872	64437	58589	57015	58047	54999	52576	51408	51674	52181	46976
Delaware	208044	196967	184978	176977	168741	159988	151514	144747	139327	130227	118215
Des Moines	643325	602965	576525	561814	551526	521558	506641	482639	466092	440742	419283
Dickinson	244956	231731	218873	206193	189806	180444	166906	149714	144107	131679	119549
Dubuque	1325399	1257252	1201880	1220419	1156469	1066177	1020452	933778	891190	848925	813762
Emmet	134598	123950	113999	108840	105005	104630	99439	93769	88335	81478	79440
Fayette	215331	208022	195737	190479	182509	167367	160374	150223	145717	140642	136131
Floyd	174375	169140	164081	155980	150054	150759	146681	140817	136579	131565	124863
Franklin	120292	110320	106037	101583	98976	93247	89194	83091	80327	76318	73238
Fremont	73034	71643	68017	66651	64224	61051	59475	56115	54918	54470	54355
Greene	100238	92607	89400	85029	81607	79112	76080	69714	65293	63693	62679
Grundy	164232	157938	143722	141245	137367	129728	124983	114990	108827	100917	94266
Guthrie	135908	126627	118588	112635	105632	101574	96563	91736	87749	81227	75827
Hamilton	217730	204623	194525	186342	184453	169609	161220	158130	149393	145901	139779
Hancock	139988	129536	122762	121330	119370	112461	104679	95919	96996	98048	99539
Hardin	231703	205487	195900	190277	185033	176355	167849	158498	155450	140841	137110
Harrison	178699	165822	157351	148358	140414	131787	125952	116825	112235	105413	99826
Henry	287165	266518	252698	244263	235737	220188	213125	197703	190200	176530	165348
Howard	111674	101174	91847	87714	86892	77474	72976	67553	63090	59192	57181
Humboldt	128155	121368	111474	105111	101607	94852	89883	83900	80295	77559	73856
Ida	89776	85668	81538	76745	75927	73044	69199	64509	61605	57826	57156
Iowa	260303	241474	209640	198219	194333	182641	172483	157215	142764	134179	125123
Jackson	220623	208790	199293	194271	194125	184154	177304	166497	160555	149919	144591
Jasper	576242	525611	491634	466786	457980	420113	400162	385099	374999	356993	340022

Table 3. Nonfarm Earnings (in \$1,000s) in Iowa's Counties, 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Jefferson	232016	222888	200910	188072	181139	170599	167441	155455	149850	143084	141661
Johnson	2067709	1917664	1824229	1749427	1673281	1553739	1466083	1368362	1292832	1213055	1104082
Jones	214955	200504	190103	185802	178978	169362	164499	154268	146760	137771	129584
Keokuk	111578	106158	96347	90148	88074	84048	81923	78708	75272	72836	70139
Kossuth	188492	176802	167498	159014	154833	152363	147830	137131	135356	133375	124752
Lee	532859	499212	480890	462034	439533	412515	401579	381217	373138	357170	339300
Linn	3822068	3449379	3231096	3111107	2953232	2750625	2592507	2438662	2342151	2216429	2056753
Louisa	146121	137580	136553	135151	129084	122946	118153	114340	110931	105386	96077
Lucas	99539	92050	86255	80384	88354	84629	84390	81612	77025	75285	72044
Lyon	116412	110804	102482	97150	95333	91576	85501	78692	73944	71462	67850
Madison	214475	198412	182345	167215	158774	146474	135919	126548	122599	112514	107822
Mahaska	296227	262012	240580	229289	221159	208282	200300	184883	182676	168649	162922
Marion	496330	460748	433358	405287	390602	364556	346872	324322	314998	299105	285038
Marshall	561906	536150	504813	508616	497732	461376	449456	437049	415622	394000	368199
Mills	218882	202907	187046	170176	159836	147834	142245	135714	130682	125487	119990
Mitchell	123434	117945	111348	106746	103527	101011	95410	88470	86193	79028	74472
Monona	99783	95509	89453	88909	84826	80171	73259	68734	63490	62145	57810
Monroe	101110	94439	90555	87601	84172	82224	78529	74307	71529	65102	62407
Montgomery	144849	138315	129934	125199	123279	120253	109337	106248	102457	97128	90636
Muscatine	681271	623970	604610	577727	558739	541500	513543	475805	457012	437355	414047
O'Brien	166567	157813	149386	141169	138348	133160	126612	118859	113337	106790	106081
Osceola	68143	64740	62779	58806	56833	54407	51584	49067	46065	41837	40497
Page	212723	201919	189444	185211	174167	161625	153553	141324	137154	130237	119961
Palo Alto	107181	100507	93795	87752	82078	80330	75459	70035	67192	67132	64480
Plymouth	308911	290733	274887	264441	258144	247326	230049	213855	197532	183554	167439
Pocahontas	88034	81915	76198	74699	73201	71317	69645	66935	65543	63461	59300
Polk	7919804	7386784	6959293	6637789	6296465	5959232	5681712	5231274	4963272	4611304	4300264
Pottawattamie	1295833	1231268	1159513	1077793	1020926	961807	928859	883052	853341	838738	817839
Poweshiek	270764	251397	236547	229666	224893	213343	204944	196648	189705	179365	172191
Ringgold	47273	43899	41114	39005	38116	36583	34851	32720	31727	30815	28521
Sac	111970	104008	95432	90973	89336	83609	80483	76505	71762	68901	65343
Scott	2833373	2673940	2503223	2367054	2251763	2155642	2126535	2015646	1939077	1823463	1725141
Shelby	137048	131594	124674	117135	110353	108880	105104	101032	95148	87688	86448
Sioux	381205	354916	327822	307826	299745	284868	264255	243860	231682	212991	199269
Story	1286938	1205790	1140670	1081752	1042377	990477	938341	885807	842805	791382	731985
Tama	213975	199419	187481	189720	182641	169759	155594	151579	147196	140765	135047
Taylor	58188	52950	49698	47535	46052	43840	41605	39963	37444	34681	34461
Union	150449	140278	129984	126670	120591	116912	112818	104161	101821	97576	92880
Van Buren	86187	80569	69744	65184	63612	59547	58094	53793	52633	49271	45268
Wapello	441739	417904	408416	401254	387443	364239	354225	343122	333095	313592	291135
Warren	702061	651921	612115	578161	548182	517680	492148	455761	432680	404742	381266
Washington	267789	251621	237222	225060	218126	203741	198519	186256	175939	165670	155106
Wayne	53023	51607	49545	47269	47817	45571	44275	42832	42612	40484	38723
Webster	538384	501647	481106	464065	446941	417176	399539	377986	360028	340661	322520
Winnebago	152569	140823	136096	130091	126568	115778	110484	106353	104373	104127	103135
Winneshiek	274186	255918	240564	232050	219596	208582	199506	185842	172259	160183	150212
Woodbury	1703876	1605333	1563069	1471396	1368540	1282526	1223449	1112486	1078467	1028647	971864
Worth	80821	76669	72542	70388	67363	63661	61874	59049	59008	55645	54781
Wright	155796	147416	141958	136317	130875	119949	115712	110192	105882	106203	101368

State of Iowa 44752102 41806276 39398631 37718991 36086302 34063587 32575992 30462127 29162033 27577354 26032653

Table 4. Adjusted Nonfarm Earnings (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Nonfarm Earnings in Iowa's Counties, 1988, 1993, 1997, and 1998.

County	Adjusted Nonfarm Earnings (1998 \$s in \$1,000s)				% of Total Personal Income from Nonfarm Earnings			
	1998	1997	1993	1988	1998	1997	1993	1988
Adair	88522	82377	78297	73049	51.1	48.4	53.2	47.8
Adams	43973	42628	40028	40098	48.6	45.2	52.2	47.9
Allamakee	146330	140912	128241	121876	50.9	50.9	52.4	51.0
Appanoose	138762	131447	124242	112406	53.6	51.7	54.1	50.8
Audubon	62516	59608	59131	58972	43.8	38.1	47.0	43.3
Benton	364967	327901	272289	252401	63.0	59.0	61.9	60.2
Black Hawk	1878973	1829423	1695417	1600376	63.5	63.5	65.1	64.5
Boone	371262	352320	313009	295807	57.9	55.1	57.0	55.2
Bremer	337586	323924	293242	256122	59.6	58.6	61.7	60.2
Buchanan	260105	245665	220110	208307	58.4	55.7	58.8	57.0
Buena Vista	235290	224303	210168	201673	52.3	48.3	54.9	50.2
Butler	165140	157936	156707	143016	51.0	48.7	54.2	50.8
Calhoun	104445	101097	100439	94900	45.9	41.4	51.1	41.1
Carroll	295188	268908	243638	222372	55.6	50.6	54.0	48.2
Cass	166657	157844	147127	146229	52.0	50.3	51.6	49.7
Cedar	240917	229067	212275	201701	54.8	52.7	59.3	56.8
Cerro Gordo	685997	655179	592214	596070	59.8	58.7	61.1	60.1
Cherokee	144573	140404	137162	132828	49.7	46.8	52.5	45.7
Chickasaw	162901	154328	138715	138736	54.4	51.6	58.0	56.5
Clarke	95529	87219	75161	78256	57.8	55.3	56.4	56.2
Clay	252826	246799	213250	206131	58.3	57.1	62.5	55.2
Clayton	197205	193053	163962	156416	48.4	48.1	49.4	47.4
Clinton	710815	689839	643145	621579	61.7	61.0	62.6	61.3
Crawford	186351	177958	165902	166924	55.6	52.0	55.9	53.0
Dallas	692627	637274	501447	444739	69.6	67.8	68.5	67.9
Davis	87157	82979	80676	72163	57.6	54.3	57.4	56.1
Decatur	68872	65302	61824	64127	53.4	48.8	51.0	53.0
Delaware	208044	199611	179840	161375	54.8	52.1	55.3	50.3
Des Moines	643325	611059	586275	572362	62.1	60.8	63.3	63.0
Dickinson	244956	234842	202834	163196	55.7	55.1	58.8	49.1
Dubuque	1325399	1274130	1198473	1110865	61.6	61.2	62.8	62.1
Emmet	134598	125614	117613	108443	53.3	50.7	58.7	50.0
Fayette	215331	210815	188135	185832	49.1	47.9	51.8	50.6
Floyd	174375	171411	169466	170450	48.4	47.8	53.0	51.0
Franklin	120292	111801	104817	99977	49.1	45.1	54.8	44.8
Fremont	73034	72605	68626	74200	46.1	43.0	53.1	45.3
Greene	100238	93850	88929	85563	47.4	42.6	47.8	42.5
Grundy	164232	160058	145825	128682	52.4	49.6	56.7	50.9
Guthrie	135908	128327	114178	103511	55.8	53.3	55.7	50.0
Hamilton	217730	207370	190655	190812	54.9	50.9	58.6	57.8
Hancock	139988	131275	126416	135880	53.5	49.0	59.0	52.2
Hardin	231703	208246	198238	187169	52.6	47.3	52.7	49.7
Harrison	178699	168048	148140	136272	59.0	53.8	57.0	53.2
Henry	287165	270096	247510	225716	64.8	62.2	63.7	60.6
Howard	111674	102532	87087	78058	50.3	47.1	51.9	46.7
Humboldt	128155	122997	106622	100821	52.6	48.5	53.0	46.6
Ida	89776	86818	82108	78024	49.8	46.9	55.0	46.7
Iowa	260303	244716	205304	170805	62.3	59.4	60.8	57.6
Jackson	220623	211593	207005	197381	55.8	54.5	57.4	55.6
Jasper	576242	532667	472242	464163	63.5	60.7	62.4	61.5

Table 4. Adjusted Nonfarm Earnings (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Nonfarm Earnings in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Adjusted Nonfarm Earnings (1998 \$s in \$1,000s)				% of Total Personal Income from Nonfarm Earnings			
	1998	1997	1993	1988	1998	1997	1993	1988
Jefferson	232016	225880	191768	193381	60.5	58.7	61.5	62.2
Johnson	2067709	1943407	1746533	1507180	72.6	71.6	73.2	73.9
Jones	214955	203196	190377	176895	57.0	54.4	57.3	55.3
Keokuk	111578	107583	94477	95747	50.5	45.7	47.5	45.0
Kossuth	188492	179175	171269	170299	49.0	44.8	56.3	44.3
Lee	532859	505914	463702	463178	61.0	59.3	60.6	60.3
Linn	3822068	3495684	3091934	2807669	70.5	69.2	70.5	69.8
Louisa	146121	139427	138202	131154	60.8	57.2	63.2	61.1
Lucas	99539	93286	95130	98347	55.2	52.5	56.8	55.2
Lyon	116412	112291	102939	92622	48.7	44.4	50.7	44.2
Madison	214475	201076	164649	147188	68.4	66.1	67.7	62.9
Mahaska	296227	265529	234126	222404	59.6	54.8	57.7	54.9
Marion	496330	466933	409792	389105	65.4	63.3	63.6	62.2
Marshall	561906	543347	518625	502628	60.0	58.9	62.1	61.1
Mills	218882	205631	166178	163798	58.5	55.3	56.8	52.9
Mitchell	123434	119528	113545	101662	47.6	44.2	52.6	45.5
Monona	99783	96791	90119	78916	50.0	46.0	51.3	43.2
Monroe	101110	95707	92427	85192	57.9	56.0	60.4	58.0
Montgomery	144849	140172	135174	123727	53.1	51.3	55.1	50.8
Muscatine	681271	632346	608692	565215	65.1	63.6	64.6	63.6
O'Brien	166567	159932	149683	144811	48.0	44.9	52.8	43.2
Osceola	68143	65609	61158	55282	44.9	41.4	50.9	40.0
Page	212723	204630	181680	163758	56.8	54.2	55.2	50.4
Palo Alto	107181	101856	90298	88021	49.0	43.5	53.3	42.3
Plymouth	308911	294636	278015	228571	55.2	52.4	56.0	51.6
Pocahontas	88034	83015	80166	80950	44.7	40.1	54.1	42.3
Polk	7919804	7485946	6698678	5870280	72.3	71.8	72.2	71.1
Pottawattamie	1295833	1247797	1081152	1116430	67.2	66.3	66.4	67.5
Poweshiek	270764	254772	239815	235058	59.3	56.6	61.3	60.5
Ringgold	47273	44488	41122	38934	47.8	42.7	50.0	44.4
Sac	111970	105404	93984	89200	47.5	40.2	44.3	37.2
Scott	2833373	2709836	2423123	2354986	68.3	67.9	67.8	69.0
Shelby	137048	133361	122390	118010	48.9	45.4	51.0	46.5
Sioux	381205	359680	320216	272022	54.0	49.8	53.6	49.8
Story	1286938	1221977	1113379	999231	67.9	67.0	70.1	68.6
Tama	213975	202096	190823	184352	56.8	53.5	57.5	53.1
Taylor	58188	53661	49280	47043	46.0	41.3	47.4	43.2
Union	150449	142161	131419	126790	58.7	56.8	57.9	54.3
Van Buren	86187	81651	66936	61795	57.6	53.5	54.4	51.0
Wapello	441739	423514	409435	397428	59.0	57.9	60.7	59.7
Warren	702061	660673	581916	520465	74.5	73.2	75.2	73.2
Washington	267789	254999	229022	211735	55.3	51.5	54.9	54.4
Wayne	53023	52300	51226	52861	47.1	43.6	49.6	45.4
Webster	538384	508381	468941	440271	59.3	56.3	58.6	55.8
Winnebago	152569	142713	130144	140789	57.1	55.3	60.0	52.2
Winneshiek	274186	259354	234464	205054	59.4	58.3	59.5	55.5
Woodbury	1703876	1626883	1441667	1326689	67.5	66.5	66.2	64.3
Worth	80821	77698	71560	74781	48.3	44.8	54.3	47.6
Wright	155796	149395	134833	138377	47.7	43.2	52.0	46.2
State of Iowa	44752102	42367494	38290338	35537112	63.2	61.3	63.8	61.4

Table 5. Farm Earnings (in \$1,000s) in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Adair	8810	13934	19355	-1170	17856	64	14289	9651	11094	17156	6595
Adams	4758	11610	13393	-2463	10669	2257	10758	8765	10253	10814	3644
Allamakee	23831	21616	25052	14153	20802	12170	20551	17171	26016	23416	11179
Appanoose	1632	6323	5565	-1213	6372	63	3930	963	4885	3508	703
Audubon	11129	29308	29657	13474	18603	6592	19503	17779	16932	20742	11418
Benton	15923	34780	40435	17472	23497	11212	25913	15099	25016	28564	7029
Black Hawk	29874	39060	44717	29157	29714	7225	27504	15736	23527	14636	7554
Boone	12936	27780	31654	23319	22958	1431	22939	12813	12589	23392	8049
Bremer	28989	35171	39383	23658	25280	6864	22673	13230	19265	10631	2158
Buchanan	22297	36908	39662	13380	24950	4286	26428	19877	26903	21387	7442
Buena Vista	36842	64687	66199	37908	44671	14502	33723	26671	31710	33512	30200
Butler	28247	39759	50156	25712	26448	8163	31245	24234	27951	13145	14005
Calhoun	10414	32807	48746	25171	36846	-3302	25135	7566	14810	26019	26793
Carroll	22065	53198	58269	40060	41799	23186	48651	28952	31830	44757	41490
Cass	11753	17896	22546	6068	19260	-1030	19361	11857	14480	20180	8803
Cedar	22010	32722	36899	13898	23036	5242	17337	11771	24104	26198	12658
Cerro Gordo	25567	38221	44068	26272	32582	-1107	22547	13975	28077	11804	21042
Cherokee	21129	36035	42963	23544	25576	13451	27308	28895	30152	32215	32291
Chickasaw	25799	36007	36598	24464	25199	5348	21366	16187	19974	13557	6166
Clarke	6581	9010	2039	715	9227	1990	5703	3086	5944	4393	1577
Clay	25354	33217	44346	24904	34101	-3571	21480	14247	24225	26102	22743
Clayton	35726	39276	40300	19032	29321	19599	39182	34424	48495	42659	21482
Clinton	25026	38275	45991	26431	32476	11068	28477	14376	29535	32379	15035
Crawford	11829	28295	30404	10704	22510	-833	19576	14089	20734	22152	19848
Dallas	28509	37335	51940	25376	26562	9062	20148	13662	15459	24509	5490
Davis	3301	10240	9209	-3007	5396	851	5948	2805	6390	3120	1058
Decatur	-108	9371	8800	1129	9161	3972	7601	5435	5356	6509	597
Delaware	35223	51248	57797	22942	38460	22553	40246	27960	43733	42728	27790
Des Moines	6804	18816	16974	7437	14729	8482	11795	6575	13738	9655	11932
Dickinson	11459	12510	24081	10640	15774	-6106	10441	8909	13453	18281	15795
Dubuque	33802	39664	48672	24976	38069	30347	45035	27816	37495	44880	23994
Emmet	19309	26478	31850	18832	25679	-5067	16511	7162	16047	18558	14691
Fayette	43184	54002	59453	36128	40164	15870	38195	34160	43107	36797	16794
Floyd	19921	25080	28602	15913	20440	3822	23422	18252	27263	8675	16092
Franklin	21833	33209	49748	24204	27251	-3233	26054	10326	23114	25686	24092
Fremont	6879	18593	25403	2729	14975	-4618	16555	11076	9432	11929	16478
Greene	11887	29793	42384	27743	29343	4618	30214	16022	15824	26457	15337
Grundy	31692	48005	40688	38790	31364	13575	30816	20875	21416	14902	17748
Guthrie	7635	15054	29319	8912	17448	2194	17606	13033	14886	21108	11002
Hamilton	34011	56269	64624	35463	41186	4242	26514	17791	18457	36881	6234
Hancock	18996	36770	41536	18274	23768	-5308	21505	5773	21330	17724	19667
Hardin	34970	60453	63912	43874	39449	11763	34526	21411	26062	20994	9088
Harrison	6630	28761	40584	8431	20669	4135	20238	4905	7300	6115	8456
Henry	3183	14533	15510	2134	14515	5554	13617	9278	14435	6827	6743
Howard	17537	24223	25404	13665	17475	322	13623	12502	18703	18502	5847
Humboldt	13527	30984	42125	25610	23827	-1498	21130	4758	15179	26898	16236
Ida	16283	24894	27182	16052	19132	5837	19150	12536	17746	20571	17689
Iowa	15651	28317	24240	8890	23992	7357	21478	13147	18656	19129	5661
Jackson	6655	12343	13265	181	7628	-2826	4214	493	14800	15361	7636
Jasper	29185	49919	39938	28029	32469	13226	30061	21317	27667	27014	15253



Table 5. Farm Earnings (in \$1,000s) in Iowa's Counties, 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Jefferson	8428	19276	15673	2988	16963	4595	12023	8988	12993	11183	4619
Johnson	10067	24066	21338	4489	20430	4423	17961	14343	23762	22341	6164
Jones	16933	28529	32156	13423	23234	9863	23506	12635	20116	20040	4336
Keokuk	1640	23451	17337	2433	20152	7664	19090	17232	20956	23262	10447
Kossuth	32762	59965	64616	32774	50640	-9360	35190	7380	36135	46809	48530
Lee	4103	19265	19952	3361	15330	3324	14270	7759	10702	5897	7109
Linn	13543	25204	29177	6013	20402	2439	17469	6635	17299	22245	-1091
Louisa	12753	23803	22362	9341	21646	10113	12595	4416	13235	9754	7789
Lucas	-1645	3665	3700	412	4490	-906	3216	1519	2554	2560	1491
Lyon	27400	45815	58568	33071	38240	18467	36226	32499	33332	35888	24951
Madison	-645	5336	7102	-4864	6304	-5881	7286	4917	6952	12052	559
Mahaska	17708	42499	35637	18323	29307	12682	23214	21366	26210	27594	15467
Marion	3107	16826	8838	1114	15285	1802	11107	9398	13115	12968	11129
Marshall	21538	33149	32022	24304	24172	8590	27099	20393	22877	26045	10768
Mills	3680	13995	18261	226	11818	-6267	9854	7163	7515	7861	10317
Mitchell	29005	45355	44832	28795	29948	6690	24941	23307	31805	27447	16120
Monona	5959	20930	26432	1511	20330	1776	20749	1902	10776	15878	14076
Monroe	2067	5969	3818	-1450	4366	-2471	826	-810	1308	2366	-1523
Montgomery	10863	19711	25381	1829	15883	4219	17796	13460	12605	15260	8933
Muscatine	8994	16460	16752	7903	19347	2645	12364	3703	11173	13268	5250
O'Brien	35286	53905	57002	34715	35478	8030	34151	36963	40805	44321	47065
Osceola	25581	35064	39349	24399	28748	4186	19259	20261	19050	18879	18430
Page	5549	21918	26813	-1315	13704	2643	21260	17611	18516	20096	10556
Palo Alto	24555	46832	51991	25687	32213	-2924	28245	7110	26330	23796	23330
Plymouth	47003	69582	79324	43677	50824	36534	52065	37667	38339	48341	28632
Pocahontas	25398	42036	48523	24154	32485	-6546	21850	8351	12881	25344	20496
Polk	13889	23728	24072	18395	19342	2623	15837	6928	10446	16880	5831
Pottawattamie	9208	31703	33501	10787	31496	6296	39000	29085	24926	15758	13483
Poweshiek	18739	32204	22461	12806	21761	6421	18406	13084	18583	19204	8168
Ringgold	3234	12474	7574	-3691	10176	-1039	6060	4073	5201	10374	3817
Sac	14338	48729	55443	24094	34341	12765	33287	18554	24748	29936	30662
Scott	13416	21266	22645	12952	20346	12077	22136	15770	21646	23163	10382
Shelby	15160	34909	38296	18429	27758	7285	26034	22718	25089	25111	16469
Sioux	74367	118222	124001	78966	77462	63813	86306	64781	72368	79182	56836
Story	21391	36913	38215	28436	28478	3143	27221	16422	18554	28955	10048
Tama	20512	35856	31077	19327	25619	5676	21568	13480	21120	16905	14024
Taylor	10948	19775	17457	-2228	14740	1312	9040	6689	5955	8644	3169
Union	2883	6439	6360	-1673	8987	-671	5937	5572	5851	5954	1937
Van Buren	1791	11068	10887	-1938	8332	1479	8718	6242	9121	5093	2671
Wapello	1764	9806	11316	-560	11362	1478	9900	5822	6842	7461	2611
Warren	2511	11975	5532	-3890	9305	-7225	4963	1754	6008	7410	3741
Washington	22815	50888	45667	20610	33564	21573	29552	21695	26364	26218	15877
Wayne	850	10219	6683	-2797	7664	-3449	3028	1704	2870	5551	2280
Webster	8367	40975	51922	35733	37453	-1183	34299	19352	19529	41588	15206
Winnebago	17455	20375	21309	12974	20982	-5113	16080	4882	18459	15306	18582
Winneshiek	25960	28810	33704	16716	27887	13947	30027	25339	39066	34740	15238
Woodbury	12518	28006	33962	6901	17514	1952	25524	8149	18978	26712	13071
Worth	21751	31279	26666	18608	21544	-51	16583	11369	20474	17159	13555
Wright	21660	49966	55807	34538	30903	-1429	25411	6448	20575	32094	23634
State of Iowa	1693638	3030950	3313150	1588805	2371433	542006	2160751	1405473	1969663	2094021	1332546

Table 6. Adjusted Farm Earnings (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Farm Earnings in Iowa's Counties, 1988, 1993, 1997, and 1998.

County	Adjusted Farm Earnings (1998 \$s in \$1,000s)				% of Total Personal Income from Farm Earnings			
	1998	1997	1993	1988	1998	1997	1993	1988
Adair	8810	14121	72	9003	5.1	8.3	0.0	5.9
Adams	4758	11766	2537	4974	5.3	12.5	3.3	5.9
Allamakee	23831	21906	13680	15260	8.3	7.9	5.6	6.4
Appanoose	1632	6408	71	960	0.6	2.5	0.0	0.4
Audubon	11129	29701	7410	15587	7.8	19.0	5.9	11.4
Benton	15923	35247	12603	9595	2.7	6.3	2.9	2.3
Black Hawk	29874	39584	8122	10312	1.0	1.4	0.3	0.4
Boone	12936	28153	1609	10988	2.0	4.4	0.3	2.1
Bremer	28989	35643	7716	2946	5.1	6.4	1.6	0.7
Buchanan	22297	37403	4818	10159	5.0	8.5	1.3	2.8
Buena Vista	36842	65555	16301	41226	8.2	14.1	4.3	10.3
Butler	28247	40293	9176	19118	8.7	12.4	3.2	6.8
Calhoun	10414	33247	-3712	36575	4.6	13.6	-1.9	15.8
Carroll	22065	53912	26063	56638	4.2	10.1	5.8	12.3
Cass	11753	18136	-1158	12017	3.7	5.8	-0.4	4.1
Cedar	22010	33161	5892	17279	5.0	7.6	1.6	4.9
Cerro Gordo	25567	38734	-1244	28724	2.2	3.5	-0.1	2.9
Cherokee	21129	36519	15120	44080	7.3	12.2	5.8	15.2
Chickasaw	25799	36490	6012	8417	8.6	12.2	2.5	3.4
Clarke	6581	9131	2237	2153	4.0	5.8	1.7	1.5
Clay	25354	33663	-4014	31046	5.8	7.8	-1.2	8.3
Clayton	35726	39803	22031	29325	8.8	9.9	6.6	8.9
Clinton	25026	38789	12441	20524	2.2	3.4	1.2	2.0
Crawford	11829	28675	-936	27094	3.5	8.4	-0.3	8.6
Dallas	28509	37836	10186	7494	2.9	4.0	1.4	1.1
Davis	3301	10377	957	1444	2.2	6.8	0.7	1.1
Decatur	-108	9497	4465	815	-0.1	7.1	3.7	0.7
Delaware	35223	51936	25351	37936	9.3	13.5	7.8	11.8
Des Moines	6804	19069	9534	16288	0.7	1.9	1.0	1.8
Dickinson	11459	12678	-6864	21562	2.6	3.0	-2.0	6.5
Dubuque	33802	40196	34113	32754	1.6	1.9	1.8	1.8
Emmet	19309	26833	-5696	20055	7.6	10.8	-2.8	9.2
Fayette	43184	54727	17839	22925	9.8	12.4	4.9	6.2
Floyd	19921	25417	4296	21967	5.5	7.1	1.3	6.6
Franklin	21833	33655	-3634	32888	8.9	13.6	-1.9	14.7
Fremont	6879	18843	-5191	22494	4.3	11.2	-4.0	13.7
Greene	11887	30193	5191	20937	5.6	13.7	2.8	10.4
Grundy	31692	48649	15259	24228	10.1	15.1	5.9	9.6
Guthrie	7635	15256	2466	15019	3.1	6.3	1.2	7.3
Hamilton	34011	57024	4768	8510	8.6	14.0	1.5	2.6
Hancock	18996	37264	-5967	26847	7.3	13.9	-2.8	10.3
Hardin	34970	61265	13223	12406	7.9	13.9	3.5	3.3
Harrison	6630	29147	4648	11543	2.2	9.3	1.8	4.5
Henry	3183	14728	6243	9205	0.7	3.4	1.6	2.5
Howard	17537	24548	362	7982	7.9	11.3	0.2	4.8
Humboldt	13527	31400	-1684	22164	5.6	12.4	-0.8	10.2
Ida	16283	25228	6561	24147	9.0	13.6	4.4	14.5
Iowa	15651	28697	8270	7728	3.7	7.0	2.4	2.6
Jackson	6655	12509	-3177	10424	1.7	3.2	-0.9	2.9
Jasper	29185	50589	14867	20822	3.2	5.8	2.0	2.8

Table 6. Adjusted Farm Earnings (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Farm Earnings in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Adjusted Farm Earnings (1998 \$s in \$1,000s)				% of Total Personal Income from Farm Earnings			
	1998	1997	1993	1988	1998	1997	1993	1988
Jefferson	8428	19535	5165	6305	2.2	5.1	1.7	2.0
Johnson	10067	24389	4972	8414	0.4	0.9	0.2	0.4
Jones	16933	28912	11087	5919	4.5	7.7	3.3	1.9
Keokuk	1640	23766	8615	14261	0.7	10.1	4.3	6.7
Kossuth	32762	60770	-10521	66248	8.5	15.2	-3.5	17.2
Lee	4103	19524	3736	9704	0.5	2.3	0.5	1.3
Linn	13543	25542	2742	-1489	0.2	0.5	0.1	0.0
Louisa	12753	24123	11368	10633	5.3	9.9	5.2	5.0
Lucas	-1645	3714	-1018	2035	-0.9	2.1	-0.6	1.1
Lyon	27400	46430	20758	34061	11.5	18.4	10.2	16.2
Madison	-645	5408	-6611	763	-0.2	1.8	-2.7	0.3
Mahaska	17708	43070	14256	21114	3.6	8.9	3.5	5.2
Marion	3107	17052	2026	15192	0.4	2.3	0.3	2.4
Marshall	21538	33594	9656	14699	2.3	3.6	1.2	1.8
Mills	3680	14183	-7045	14084	1.0	3.8	-2.4	4.6
Mitchell	29005	45964	7520	22005	11.2	17.0	3.5	9.9
Monona	5959	21211	1996	19215	3.0	10.1	1.1	10.5
Monroe	2067	6049	-2778	-2079	1.2	3.5	-1.8	-1.4
Montgomery	10863	19976	4743	12194	4.0	7.3	1.9	5.0
Muscatine	8994	16681	2973	7167	0.9	1.7	0.3	0.8
O'Brien	35286	54629	9026	64248	10.2	15.3	3.2	19.2
Osceola	25581	35535	4705	25159	16.8	22.4	3.9	18.2
Page	5549	22212	2971	14410	1.5	5.9	0.9	4.4
Palo Alto	24555	47461	-3287	31848	11.2	20.3	-1.9	15.3
Plymouth	47003	70516	41067	39085	8.4	12.6	8.3	8.8
Pocahontas	25398	42600	-7358	27979	12.9	20.6	-5.0	14.6
Polk	13889	24047	2948	7960	0.1	0.2	0.0	0.1
Pottawattamie	9208	32129	7077	18406	0.5	1.7	0.4	1.1
Poweshiek	18739	32636	7218	11150	4.1	7.3	1.8	2.9
Ringgold	3234	12641	-1168	5211	3.3	12.1	-1.4	5.9
Sac	14338	49383	14349	41857	6.1	18.8	6.8	17.4
Scott	13416	21551	13576	14172	0.3	0.5	0.4	0.4
Shelby	15160	35378	8189	22482	5.4	12.0	3.4	8.9
Sioux	74367	119809	71731	77587	10.5	16.6	12.0	14.2
Story	21391	37409	3533	13717	1.1	2.1	0.2	0.9
Tama	20512	36337	6380	19144	5.4	9.6	1.9	5.5
Taylor	10948	20040	1475	4326	8.7	15.4	1.4	4.0
Union	2883	6525	-754	2644	1.1	2.6	-0.3	1.1
Van Buren	1791	11217	1663	3646	1.2	7.4	1.4	3.0
Wapello	1764	9938	1661	3564	0.2	1.4	0.2	0.5
Warren	2511	12136	-8122	5107	0.3	1.3	-1.0	0.7
Washington	22815	51571	24250	21674	4.7	10.4	5.8	5.6
Wayne	850	10356	-3877	3112	0.8	8.6	-3.8	2.7
Webster	8367	41525	-1330	20758	0.9	4.6	-0.2	2.6
Winnebago	17455	20649	-5747	25366	6.5	8.0	-2.6	9.4
Winneshiek	25960	29197	15678	20801	5.6	6.6	4.0	5.6
Woodbury	12518	28382	2194	17843	0.5	1.2	0.1	0.9
Worth	21751	31699	-57	18504	13.0	18.3	0.0	11.8
Wright	21660	50637	-1606	32263	6.6	14.7	-0.6	10.8
State of Iowa	1693638	3071638	609260	1819055	2.4	4.4	1.0	3.1

Table 7. Dividends, Interest, and Rent (in \$1,000s) in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Adair	45715	43542	41085	39606	36292	36158	37770	37913	39259	37450	34694
Adams	22724	21652	20135	18941	15029	15675	16363	17501	16679	16850	16351
Allamakee	68203	64848	60568	57293	50918	51418	53132	52502	50875	49179	46037
Appanoose	57860	54900	52289	49249	45400	41060	43378	44826	42946	42961	40261
Audubon	40798	38939	37058	35214	29531	28564	30466	32246	30919	31331	29174
Benton	121788	116156	104862	97917	78566	77913	75462	79680	75298	74835	72969
Black Hawk	584381	554336	508907	485627	440784	416843	419046	429470	416605	412189	367081
Boone	137293	130670	117217	106581	97877	93457	93899	94672	92226	91431	82504
Bremer	121155	115273	104266	97111	91189	89328	91245	89817	87544	87604	79696
Buchanan	96572	91740	85568	79890	77130	75839	75622	79537	74103	73104	65913
Buena Vista	105011	100100	95013	88146	79577	79783	81207	81352	82556	81901	71973
Butler	73125	69734	63847	59109	61640	59473	56800	58063	56961	56982	53085
Calhoun	63608	60694	55855	52516	47152	47385	46075	46880	48316	48327	44743
Carroll	135356	128875	115555	107024	101860	98745	104658	103288	96856	95960	89493
Cass	80024	76073	75820	72233	71283	73022	71788	75511	71724	72027	64688
Cedar	121780	116324	101357	91192	85373	78939	79870	80771	74931	73638	69518
Cerro Gordo	254107	241357	220667	207923	188961	180577	183259	190614	185246	178785	161807
Cherokee	72915	69432	65228	60252	56859	53536	56617	58602	57332	55033	51717
Chickasaw	64682	61650	56885	55181	47028	45615	48675	48108	46812	48056	45477
Clarke	31649	29950	27511	26118	23471	23487	25749	27077	26838	25947	25193
Clay	95453	90799	83087	78304	70782	67134	69213	69201	67729	68096	64111
Clayton	105620	100623	92943	87852	77149	75163	73666	72853	69426	70255	65720
Clinton	222626	211358	199422	191446	173856	169298	175618	177314	171209	168271	158331
Crawford	76106	72442	66924	66061	67960	65053	62881	59297	67426	59884	54531
Dallas	175085	166590	152045	142803	121099	115349	111048	110921	104610	101960	90819
Davis	31537	30001	28169	27496	29116	27873	26485	24854	27625	23908	22096
Decatur	27289	25879	24105	22876	20710	20169	21727	22966	22743	22902	21069
Delaware	83658	79729	74945	68659	67531	65340	65781	64159	63806	63105	59190
Des Moines	220692	209264	188179	173662	162543	156167	155813	157633	152499	150744	137878
Dickinson	120557	114801	106061	96672	88477	83926	84761	84646	81817	81493	73283
Dubuque	500330	474905	447611	410172	372216	362603	365162	360126	343771	331695	307606
Emmet	50325	47803	44949	42742	38763	38362	39827	41817	41559	39521	36846
Fayette	97783	93137	87522	81264	75296	72267	74418	78734	74122	74829	69388
Floyd	94793	90291	80232	76405	73429	71202	73199	76803	71481	72700	63424
Franklin	59334	56544	49943	45185	45684	44838	48146	49025	47607	46187	41614
Fremont	45605	43393	38763	35704	30418	30018	31709	32995	31988	32548	29202
Greene	58656	55851	55203	51566	49108	47657	49160	49375	46724	47420	44062
Grundy	74731	71521	66705	62877	52795	51808	56568	54693	53477	52641	48780
Guthrie	53907	51325	47121	45098	41056	40344	42505	44160	42455	40969	37780
Hamilton	87013	82867	78664	75065	67633	63999	67146	70510	66517	66477	60706
Hancock	60857	57954	55192	51242	47798	47824	50006	52493	52565	51184	47521
Hardin	96412	91740	85116	81432	83234	79775	83393	84184	85547	86650	83116
Harrison	56121	53354	48783	48204	44396	43567	45955	48197	46323	48051	44732
Henry	90084	85517	80333	74377	68643	67074	68399	70680	67791	66746	62911
Howard	56818	54160	48416	46489	39570	39320	42620	43004	40998	40376	38841
Humboldt	59572	56737	55538	52914	46691	48555	50410	50356	48726	48914	43375
Ida	45373	43251	38246	34791	32060	29849	31144	33237	32864	32427	30768
Iowa	92655	88054	78905	67666	66928	70004	71909	64693	57227	58148	58507
Jackson	93048	88544	80823	76562	72856	76476	73988	70755	69169	70697	66528
Jasper	178161	168905	166435	156142	145365	136612	143825	143130	146499	132238	127031

Table 7. Dividends, Interest, and Rent (in \$1,000s) in Iowa's Counties, 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Jefferson	93611	88947	77767	74667	67738	61896	62992	62054	62261	59892	51375
Johnson	562763	537345	492100	464957	441664	406819	368608	357803	339433	325461	279430
Jones	83524	79513	75646	72321	67523	66806	68859	70829	72106	72508	66669
Keokuk	61590	58715	54460	54442	46354	46812	51003	51345	49548	49790	46580
Kossuth	99309	94710	86831	83343	75887	73658	73819	78026	77639	77036	70246
Lee	188796	178900	164690	152147	146903	136939	139966	137761	135998	136702	125263
Linn	1034067	980414	876402	820030	754693	713471	702759	715245	673395	671204	588964
Louisa	43804	41642	36947	33643	31186	30038	32633	34444	33082	33660	32074
Lucas	44923	42760	40704	38533	39851	33717	34851	34317	33628	34329	33093
Lyon	56108	53567	47870	45727	40175	40075	42329	43388	42358	43804	39060
Madison	56131	53368	48026	45211	40165	39577	41271	42432	40189	39228	37897
Mahaska	105049	99929	88931	82869	76805	74481	75364	79372	75036	73660	71121
Marion	161289	153471	139505	137837	134413	125354	125405	124063	119093	113485	104676
Marshall	197904	187966	178432	173204	155343	153044	157295	159640	156226	160350	138170
Mills	53870	51231	45895	41658	37765	35670	36323	37118	35968	35828	34061
Mitchell	66587	63483	58060	53998	52559	51139	54252	53492	51595	51705	48747
Monona	46027	43836	39981	36251	33319	34385	34897	36937	36116	37562	34585
Monroe	35895	34113	32042	30278	28632	27307	29122	29304	27352	26214	24827
Montgomery	64174	60899	56000	52071	50172	49512	51584	54293	51468	52798	47414
Muscatine	230965	219236	203144	195330	201095	191321	194094	197511	194762	162569	158449
O'Brien	84918	80925	74219	70961	68214	63628	65566	66947	64961	63036	58552
Osceola	35094	33451	31158	30018	28517	27603	29519	30164	29697	29230	27257
Page	85542	81242	81470	78457	72525	71468	72536	75945	73305	72829	65386
Palo Alto	46013	43755	42272	39233	37747	37970	40729	43457	42670	41395	39016
Plymouth	130666	124462	118113	110119	94221	97230	99740	100658	96308	94344	85256
Pocahontas	46405	44171	41476	38819	36026	35755	39490	40962	39379	39784	37845
Polk	1948190	1844813	1750080	1678442	1534987	1404160	1392300	1391077	1510413	1272278	1135800
Pottawattamie	317806	301550	277329	260660	251504	228091	230089	236329	225444	204722	203504
Poweshiek	102878	97732	92220	83950	80650	75990	78187	80790	75494	74862	68995
Ringgold	24896	23655	21758	20179	19288	18846	19347	20313	19204	18959	18240
Sac	65284	62191	57420	53487	51115	51667	52834	56142	54274	54465	49586
Scott	824224	781481	714029	668718	616975	599205	578172	588988	564762	530828	490027
Shelby	76992	73388	66728	63738	56891	55977	57729	60542	59316	59269	55468
Sioux	162518	154986	139654	130805	117218	111013	112325	113239	105397	97325	95302
Story	397199	378955	351934	328549	304264	271427	271349	279647	262711	235523	223766
Tama	79793	75963	67329	64368	68175	65973	68340	71988	69197	70422	67401
Taylor	29175	27779	26400	24846	21997	22631	25205	26012	25294	24930	24234
Union	53582	50891	47765	45083	46458	44195	45174	47786	47956	46108	44981
Van Buren	31246	29666	26827	25933	23640	23458	24810	25764	23384	23291	22076
Wapello	146595	138822	130104	119621	107450	102355	107050	115071	108586	105841	96340
Warren	132493	125934	113039	108021	110292	98720	97859	102033	92249	89259	82407
Washington	119266	113659	101371	97913	89517	85050	88072	86836	83339	81735	73762
Wayne	28236	26839	27031	25789	22682	23148	25147	27974	27068	27348	25440
Webster	198599	188170	179035	171348	159575	155505	162393	167265	160617	145165	141287
Winnebago	55803	53054	50775	49261	45638	46763	49143	46804	49677	52924	49391
Winneshiek	100046	95056	87541	82021	80532	78183	78983	78373	74852	74352	68904
Woodbury	464820	440258	426035	397392	361520	349709	377531	371785	354769	307304	300328
Worth	37498	35742	33695	32007	29244	28444	30432	31805	30901	29824	28275
Wright	88311	84121	77320	64376	59925	61033	65030	66134	62777	67282	59115
State of Iowa	14609421	13880340	12857633	12111482	11218111	10701661	10810070	10941445	10711580	10197045	9372782

Table 8. Adjusted Dividends, Interest, and Rent (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Dividends, Interest, and Rent in Iowa's Counties, 1988, 1993, 1997, and 1998.

County	Adjusted Dividends, Interest, and Rent (1998 \$s in \$1,000s)				% of Total Personal Income from Dividends, Interest, and Rent			
	1998	1997	1993	1988	1998	1997	1993	1988
Adair	45715	44127	40645	47361	26.4	25.9	27.6	31.0
Adams	22724	21943	17620	22321	25.1	23.3	23.0	26.7
Allamakee	68203	65719	57798	62845	23.7	23.7	23.6	26.3
Appanoose	57860	55637	46155	54960	22.3	21.9	20.1	24.8
Audubon	40798	39462	32108	39825	28.6	25.2	25.5	29.3
Benton	121788	117715	87581	99610	21.0	21.2	19.9	23.8
Black Hawk	584381	561778	468567	501101	19.7	19.5	18.0	20.2
Boone	137293	132424	105054	112626	21.4	20.7	19.1	21.0
Bremer	121155	116820	100412	108793	21.4	21.1	21.1	25.6
Buchanan	96572	92972	85249	89978	21.7	21.1	22.8	24.6
Buena Vista	105011	101444	89683	98250	23.3	21.9	23.4	24.4
Butler	73125	70670	66853	72466	22.6	21.8	23.1	25.7
Calhoun	63608	61509	53265	61079	28.0	25.2	27.1	26.4
Carroll	135356	130605	110998	122167	25.5	24.6	24.6	26.5
Cass	80024	77094	82083	88305	25.0	24.6	28.8	30.0
Cedar	121780	117886	88734	94899	27.7	27.1	24.8	26.7
Cerro Gordo	254107	244597	202984	220882	22.1	21.9	21.0	22.3
Cherokee	72915	70364	60179	70599	25.1	23.4	23.0	24.3
Chickasaw	64682	62478	51275	62081	21.6	20.9	21.4	25.3
Clarke	31649	30352	26401	34391	19.2	19.2	19.8	24.7
Clay	95453	92018	75464	87518	22.0	21.3	22.1	23.5
Clayton	105620	101974	84490	89714	25.9	25.4	25.4	27.2
Clinton	222626	214195	190305	216137	19.3	18.9	18.5	21.3
Crawford	76106	73414	73125	74440	22.7	21.5	24.7	23.6
Dallas	175085	168826	129662	123977	17.6	18.0	17.7	18.9
Davis	31537	30404	31332	30163	20.8	19.9	22.3	23.5
Decatur	27289	26226	22672	28761	21.2	19.6	18.7	23.8
Delaware	83658	80799	73448	80800	22.0	21.1	22.6	25.2
Des Moines	220692	212073	175545	188217	21.3	21.1	18.9	20.7
Dickinson	120557	116342	94340	100038	27.4	27.3	27.3	30.1
Dubuque	500330	481280	407596	419912	23.2	23.1	21.4	23.5
Emmet	50325	48445	43122	50298	19.9	19.6	21.5	23.2
Fayette	97783	94387	81234	94721	22.3	21.4	22.3	25.8
Floyd	94793	91503	80037	86580	26.3	25.5	25.0	25.9
Franklin	59334	57303	50402	56807	24.2	23.1	26.4	25.4
Fremont	45605	43976	33743	39864	28.8	26.0	26.1	24.4
Greene	58656	56601	53570	60149	27.7	25.7	28.8	29.9
Grundy	74731	72481	58237	66589	23.9	22.5	22.6	26.3
Guthrie	53907	52014	45350	51573	22.1	21.6	22.1	24.9
Hamilton	87013	83979	71940	82870	21.9	20.6	22.1	25.1
Hancock	60857	58732	53758	64871	23.3	21.9	25.1	24.9
Hardin	96412	92972	89674	113461	21.9	21.1	23.8	30.1
Harrison	56121	54070	48973	61064	18.5	17.3	18.9	23.8
Henry	90084	86665	75397	85880	20.3	19.9	19.4	23.0
Howard	56818	54887	44199	53022	25.6	25.2	26.4	31.7
Humboldt	59572	57499	54580	59211	24.5	22.7	27.1	27.4
Ida	45373	43832	33553	42001	25.2	23.7	22.5	25.2
Iowa	92655	89236	78690	79868	22.2	21.7	23.3	26.9
Jackson	93048	89733	85965	90817	23.5	23.1	23.8	25.6
Jasper	178161	171172	153563	173410	19.6	19.5	20.3	23.0

Table 8. Adjusted Dividends, Interest, and Rent (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Dividends, Interest, and Rent in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Adjusted Dividends, Interest, and Rent (1998 \$s in \$1,000s)				% of Total Personal Income from Dividends, Interest, and Rent			
	1998	1997	1993	1988	1998	1997	1993	1988
Jefferson	93611	90141	69576	70132	24.4	23.4	22.3	22.5
Johnson	562763	544558	457299	381449	19.7	20.1	19.2	18.7
Jones	83524	80580	75096	91010	22.2	21.6	22.6	28.5
Keokuk	61590	59503	52621	63586	27.9	25.3	26.5	29.9
Kossuth	99309	95981	82798	95893	25.8	24.0	27.2	24.9
Lee	188796	181302	153931	170996	21.6	21.3	20.1	22.3
Linn	1034067	993575	802001	803993	19.1	19.7	18.3	20.0
Louisa	43804	42201	33765	43784	18.2	17.3	15.4	20.4
Lucas	44923	43334	37901	45175	24.9	24.4	22.6	25.4
Lyon	56108	54286	45048	53321	23.5	21.5	22.2	25.4
Madison	56131	54084	44488	51733	17.9	17.8	18.3	22.1
Mahaska	105049	101270	83723	97087	21.1	20.9	20.6	23.9
Marion	161289	155531	140908	142893	21.2	21.1	21.9	22.8
Marshall	197904	190489	172034	188616	21.1	20.6	20.6	22.9
Mills	53870	51919	40096	46497	14.4	14.0	13.7	15.0
Mitchell	66587	64335	57485	66544	25.7	23.8	26.6	29.8
Monona	46027	44424	38652	47212	23.1	21.1	22.0	25.8
Monroe	35895	34571	30695	33891	20.5	20.2	20.0	23.1
Montgomery	64174	61717	55656	64725	23.5	22.6	22.7	26.6
Muscatine	230965	222179	215061	216298	22.1	22.3	22.8	24.4
O'Brien	84918	82011	71523	79929	24.5	23.0	25.2	23.9
Osceola	35094	33900	31028	37208	23.1	21.4	25.8	27.0
Page	85542	82333	80336	89258	22.9	21.8	24.4	27.5
Palo Alto	46013	44342	42681	53261	21.0	18.9	25.2	25.6
Plymouth	130666	126133	109295	116383	23.4	22.5	22.0	26.3
Pocahontas	46405	44764	40192	51662	23.6	21.6	27.1	27.0
Polk	1948190	1869578	1578394	1550478	17.8	17.9	17.0	18.8
Pottawattamie	317806	305598	256393	277803	16.5	16.2	15.7	16.8
Poweshiek	102878	99044	85419	94185	22.5	22.0	21.8	24.2
Ringgold	24896	23973	21184	24899	25.2	23.0	25.8	28.4
Sac	65284	63026	58078	67690	27.7	24.1	27.3	28.2
Scott	824224	791972	673557	668935	19.9	19.9	18.8	19.6
Shelby	76992	74373	62923	75719	27.5	25.3	26.2	29.8
Sioux	162518	157067	124788	130097	23.0	21.7	20.9	23.8
Story	397199	384042	305107	305462	21.0	21.1	19.2	21.0
Tama	79793	76983	74159	92009	21.2	20.4	22.3	26.5
Taylor	29175	28152	25439	33082	23.1	21.7	24.5	30.4
Union	53582	51574	49679	61403	20.9	20.6	21.9	26.3
Van Buren	31246	30064	26369	30136	20.9	19.7	21.4	24.9
Wapello	146595	140686	115056	131514	19.6	19.2	17.1	19.8
Warren	132493	127625	110970	112494	14.1	14.1	14.3	15.8
Washington	119266	115185	95603	100692	24.6	23.3	22.9	25.9
Wayne	28236	27199	26020	34728	25.1	22.7	25.2	29.8
Webster	198599	190696	174801	192871	21.9	21.1	21.9	24.4
Winnebago	55803	53766	52566	67424	20.9	20.8	24.2	25.0
Winneshiek	100046	96332	87884	94061	21.7	21.6	22.3	25.5
Woodbury	464820	446168	393102	409977	18.4	18.2	18.1	19.9
Worth	37498	36222	31973	38598	22.4	20.9	24.3	24.6
Wright	88311	85250	68606	80698	27.0	24.7	26.5	26.9
State of Iowa	14609421	14066673	12029567	12794762	20.6	20.4	20.0	22.1

Table 9. Transfer Payments (in \$1,000s) in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Adair	30214	29182	28401	26438	25603	24982	23459	21222	20080	18386	17220
Adams	19067	17730	17191	16157	15449	14654	13916	12967	12216	11614	11911
Allamakee	48877	47600	44783	42785	40149	40005	37828	34007	32136	30138	28423
Appanoose	60836	59796	59978	56012	53371	52637	49422	46433	43344	41063	38824
Audubon	28373	27369	26206	25618	24189	24077	23007	21321	19720	18625	15941
Benton	76777	74244	70578	67129	64182	59774	58176	54069	48849	45367	42208
Black Hawk	467349	443213	433982	421353	405349	386086	363157	335065	310083	289702	270695
Boone	119687	124441	116013	111991	123039	115178	107192	101701	93776	86246	85312
Bremer	78930	75325	72104	67964	61811	65536	56063	52211	47742	45224	42159
Buchanan	66267	64451	62828	61259	58362	56915	54290	51148	46257	44866	41726
Buena Vista	72910	71856	68362	64375	62556	59151	55979	51756	47917	46205	44620
Butler	57034	54807	55914	54971	52288	49941	47490	42962	39603	37145	34433
Calhoun	49011	47544	45820	43979	42801	41567	39264	35942	33932	30795	28121
Carroll	78013	76812	73020	69393	65655	62802	59473	54670	50187	47738	43797
Cass	61976	59713	58328	55954	53369	50954	48678	44713	41271	38010	34837
Cedar	54526	53877	53333	49933	47136	45495	43587	38885	35361	32866	30310
Cerro Gordo	181654	175703	171249	163424	159950	155511	146967	135290	125141	113404	106883
Cherokee	52142	52118	49264	48707	44916	43393	39654	37249	35597	33469	31722
Chickasaw	46260	44916	42835	40902	39298	38335	35954	33281	30480	28121	26587
Clarke	31395	30727	29987	28267	26424	26200	24013	22129	19451	18371	17906
Clay	60023	59172	58256	55379	52291	50044	47233	43981	40572	38532	35535
Clayton	69277	65452	63464	60278	55745	54894	52753	49366	45199	42330	39840
Clinton	192871	185952	184899	176745	168202	161937	152364	143317	132566	123068	114133
Crawford	60591	61068	59574	57554	54290	52081	47795	44509	39800	37490	34125
Dallas	98992	94927	91567	87444	83334	80646	76054	70401	64314	61273	57993
Davis	29299	28662	27834	26374	24827	24524	23333	21675	20127	19002	18192
Decatur	32954	32471	31011	29964	29086	28691	27512	24787	22774	20931	19923
Delaware	52933	50433	48879	45966	42856	41445	39565	36439	33401	31256	29724
Des Moines	165640	159904	156505	149572	140878	138226	132630	121314	113230	102986	95923
Dickinson	63191	61363	55359	52790	50895	48815	45523	42746	38020	35649	35095
Dubuque	293460	282297	272566	255412	243157	237882	221479	204856	189466	177340	164460
Emmet	48387	46228	44578	44534	40548	40378	38029	34835	32098	30998	28034
Fayette	82240	79405	78571	74828	70879	67867	64297	60251	55436	51831	46736
Floyd	71436	69419	64329	63617	61485	58887	54895	50850	46648	42655	40633
Franklin	43728	44520	39373	37846	35702	35234	33878	31054	28016	26023	24693
Fremont	32947	33028	32949	31924	30715	28474	27544	25607	23018	22120	19850
Greene	40897	39078	38807	38059	35515	34065	32207	30302	28007	25760	25499
Grundy	42474	41012	39543	37580	33935	33740	32435	30342	28106	26953	24340
Guthrie	45950	44504	42554	41080	38387	38115	35270	32766	30156	28613	27142
Hamilton	57802	58492	55115	55064	53486	51774	49634	44857	41147	37426	35159
Hancock	41709	40258	39313	38000	35841	35589	33943	31239	28767	26001	24009
Hardin	77206	76730	75006	72128	68018	66906	63382	58368	53289	49828	46368
Harrison	61405	60502	58817	58354	52376	51602	48952	45230	39845	38191	34685
Henry	63014	62209	59166	56752	53802	52914	49760	47917	44219	41205	37953
Howard	36053	35428	34413	33883	33284	32063	30519	27227	24587	22652	20490
Humboldt	42178	41158	40763	39047	38058	37085	33734	31525	28950	26706	25007
Ida	28946	28868	27281	25452	23924	24166	23052	21515	19698	18386	16705
Iowa	49365	48535	46512	44740	41003	40640	38585	35658	33858	30576	27833
Jackson	75003	73479	70560	65842	60215	62858	56230	51572	46493	43747	41376
Jasper	124366	121788	117312	110830	105040	102836	96713	88466	80356	73840	70980



Table 9. Transfer Payments (in \$1,000s) in Iowa's Counties, 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Jefferson	49316	48536	47048	44832	42185	40448	38582	35857	33499	30797	30260
Johnson	209019	199496	187153	176609	166833	158538	145949	133857	122028	112995	104953
Jones	61463	59808	56932	54973	50060	49551	46814	42477	39972	37503	33537
Keokuk	46172	44019	43529	41609	40124	38350	37831	35989	33477	31379	28754
Kossuth	64449	63413	59909	58567	55634	53848	50548	47158	43958	40590	38044
Lee	147977	144223	141846	135887	129805	127516	121156	111140	100010	96102	90646
Linn	550889	527680	504372	480731	454372	435686	411168	377730	350125	319483	302224
Louisa	37798	37319	35540	33273	30438	31451	28770	27409	25343	23724	21370
Lucas	37481	37004	35907	34278	33034	31477	29949	28387	26280	24520	23803
Lyon	39253	39266	37135	33979	31573	30472	28824	27654	25254	23289	21704
Madison	43826	42902	42333	39883	37015	36285	33514	31113	28981	26450	25093
Mahaska	77766	74111	71490	68958	67758	65247	61812	57356	52998	49288	47502
Marion	98699	97020	93797	89568	84620	81797	77686	71631	65488	60146	57527
Marshall	155259	153701	140039	134619	125989	120134	112516	104952	95961	90103	85013
Mills	97714	98730	83185	81070	83607	83141	81913	76613	71118	64281	62297
Mitchell	40196	40002	38346	34914	33806	33122	31050	28854	26774	26170	24222
Monona	47870	47457	44161	42655	40197	39997	37113	34981	31908	29138	27395
Monroe	35679	34047	32482	32044	30786	29159	28054	26866	24473	22943	21841
Montgomery	52745	50451	49855	47678	44037	44110	40402	37196	34183	32240	31374
Muscatine	125330	121348	117867	112066	106079	102714	98309	92145	84316	78574	72793
O'Brien	59962	59205	55158	52682	49955	47549	45771	42267	39071	36604	33644
Osceola	23111	23049	22120	21491	20830	20712	19483	17711	16356	16036	14941
Page	70523	67553	65211	62650	58947	57162	55149	51999	47935	44740	42241
Palo Alto	40965	40112	38894	37272	36429	35459	33113	31261	28481	27132	25480
Plymouth	72736	69542	66789	65340	62828	60556	56704	52483	48196	45775	43041
Pocahontas	37207	36151	34825	34006	32641	31222	30260	27323	25672	23958	22578
Polk	1077900	1033544	1006178	955703	913072	886006	832637	766546	697836	639443	608507
Pottawattamie	304054	292637	285382	277813	263865	252967	238631	217579	201661	186235	175944
Poweshiek	64085	62751	60092	57033	54668	52239	49796	45689	41882	39486	35339
Ringgold	23438	22842	21663	20475	19742	18772	18116	16688	15060	13368	13615
Sac	44271	43597	45906	43595	41679	40886	38822	36653	33796	32358	30202
Scott	475169	459365	454484	445063	416342	412004	381508	343597	318428	294778	275216
Shelby	51007	50004	47565	45246	42857	41198	38168	34751	31446	30026	27658
Sioux	88229	84841	81007	77847	73462	71433	66843	61054	55945	53229	48391
Story	188514	177860	167422	161107	151932	147508	136191	128197	117890	109204	101054
Tama	62643	61313	59416	57706	55760	54011	52243	48071	43660	40449	37896
Taylor	28053	27650	27035	25466	24851	24650	23149	22091	20141	18593	17916
Union	49450	49456	47891	46362	41910	41593	39111	37861	35809	33765	31343
Van Buren	30338	29164	28139	27315	25733	24955	23376	22239	20244	19681	18816
Wapello	158964	155208	151871	143879	135415	131519	127878	117043	107167	102027	97297
Warren	104856	100257	94255	90804	81865	79546	73078	67135	60207	55999	53653
Washington	74627	72478	69429	66258	62384	60701	56362	53129	48660	44952	40302
Wayne	30520	29596	30040	28438	27490	26622	25324	23580	21686	20778	18874
Webster	162169	159831	155761	151286	143700	140103	131181	121826	111504	104662	99329
Winnebago	41294	40361	38624	37686	36445	35636	33032	31186	28732	26843	26515
Winneshiek	61635	59315	55597	53379	51285	50028	46595	42952	39908	38030	36167
Woodbury	343531	339645	333525	322481	309225	301771	291017	272706	248466	233308	225057
Worth	27343	27256	26287	25804	25012	25239	24086	22871	21720	19232	18375
Wright	60855	59440	58475	55619	51092	50957	47780	43696	40263	37955	35468
State of Iowa	9741985	9452322	9127019	8751648	8323039	8083618	7614233	7039542	6469274	6019084	5661281

Table 10. Adjusted Transfer Payments (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Transfer Payments in Iowa's Counties, 1988, 1993, 1997, and 1998.

County	Adjusted Transfer Payments (1998 \$s in \$1,000s)				% of Total Personal Income from Transfer Payments			
	1998	1997	1993	1988	1998	1997	1993	1988
Adair	30214	29574	28082	23507	17.4	17.4	19.1	15.4
Adams	19067	17968	16472	16260	21.1	19.1	21.5	19.4
Allamakee	48877	48239	44969	38800	17.0	17.4	18.4	16.2
Appanoose	60836	60599	59168	52999	23.5	23.8	25.8	23.9
Audubon	28373	27736	27065	21761	19.9	17.7	21.5	16.0
Benton	76777	75241	67191	57618	13.2	13.5	15.3	13.7
Black Hawk	467349	449163	433993	369525	15.8	15.6	16.7	14.9
Boone	119687	126112	129470	116459	18.7	19.7	23.6	21.7
Bremer	78930	76336	73668	57551	13.9	13.8	15.5	13.5
Buchanan	66267	65316	63977	56960	14.9	14.8	17.1	15.6
Buena Vista	72910	72821	66491	60911	16.2	15.7	17.4	15.1
Butler	57034	55543	56138	47004	17.6	17.1	19.4	16.7
Calhoun	49011	48182	46725	38388	21.5	19.7	23.8	16.6
Carroll	78013	77843	70595	59787	14.7	14.7	15.6	13.0
Cass	61976	60515	57277	47556	19.3	19.3	20.1	16.2
Cedar	54526	54600	51140	41376	12.4	12.6	14.3	11.6
Cerro Gordo	181654	178062	174807	145906	15.8	15.9	18.0	14.7
Cherokee	52142	52818	48777	43304	17.9	17.6	18.7	14.9
Chickasaw	46260	45519	43092	36294	15.4	15.2	18.0	14.8
Clarke	31395	31139	29451	24443	19.0	19.7	22.1	17.6
Clay	60023	59966	56254	48509	13.8	13.9	16.5	13.0
Clayton	69277	66331	61705	54385	17.0	16.5	18.6	16.5
Clinton	192871	188448	182031	155803	16.8	16.7	17.7	15.4
Crawford	60591	61888	58543	46584	18.1	18.1	19.7	14.8
Dallas	98992	96201	90653	79166	9.9	10.2	12.4	12.1
Davis	29299	29047	27567	24834	19.4	19.0	19.6	19.3
Decatur	32954	32907	32251	27197	25.5	24.6	26.6	22.5
Delaware	52933	51110	46588	40576	13.9	13.3	14.3	12.7
Des Moines	165640	162051	155378	130944	16.0	16.1	16.8	14.4
Dickinson	63191	62187	54872	47908	14.4	14.6	15.9	14.4
Dubuque	293460	286087	267399	224504	13.6	13.7	14.0	12.6
Emmet	48387	46849	45388	38269	19.2	18.9	22.6	17.6
Fayette	82240	80471	76288	63799	18.8	18.3	21.0	17.4
Floyd	71436	70351	66194	55468	19.8	19.6	20.7	16.6
Franklin	43728	45118	39606	33708	17.8	18.2	20.7	15.1
Fremont	32947	33471	32007	27097	20.8	19.8	24.8	16.6
Greene	40897	39603	38292	34809	19.3	18.0	20.6	17.3
Grundy	42474	41563	37927	33226	13.6	12.9	14.7	13.1
Guthrie	45950	45101	42844	37051	18.9	18.7	20.9	17.9
Hamilton	57802	59277	58198	47995	14.6	14.5	17.9	14.5
Hancock	41709	40798	40005	32775	15.9	15.2	18.7	12.6
Hardin	77206	77760	75208	63297	17.5	17.7	20.0	16.8
Harrison	61405	61314	58005	47348	20.3	19.6	22.3	18.5
Henry	63014	63044	59480	51810	14.2	14.5	15.3	13.9
Howard	36053	35904	36042	27971	16.2	16.5	21.5	16.7
Humboldt	42178	41711	41687	34137	17.3	16.4	20.7	15.8
Ida	28946	29256	27165	22804	16.0	15.8	18.2	13.7
Iowa	49365	49187	45683	37995	11.8	11.9	13.5	12.8
Jackson	75003	74465	70658	56482	19.0	19.2	19.6	15.9
Jasper	124366	123423	115596	96895	13.7	14.1	15.3	12.8

Table 10. Adjusted Transfer Payments (1998 dollars in \$1,000s) and Percentage of Total Personal Income from Transfer Payments in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Adjusted Transfer Payments (1998 \$s in \$1,000s)				% of Total Personal Income from Transfer Payments			
	1998	1997	1993	1988	1998	1997	1993	1988
Jefferson	49316	49188	45467	41308	12.9	12.8	14.6	13.3
Johnson	209019	202174	178210	143271	7.3	7.4	7.5	7.0
Jones	61463	60611	55699	45781	16.3	16.2	16.8	14.3
Keokuk	46172	44610	43109	39252	20.9	18.9	21.7	18.4
Kossuth	64449	64264	60530	51934	16.7	16.1	19.9	13.5
Lee	147977	146159	143339	123741	16.9	17.1	18.7	16.1
Linn	550889	534764	489748	412565	10.2	10.6	11.2	10.3
Louisa	37798	37820	35354	29172	15.7	15.5	16.2	13.6
Lucas	37481	37501	35383	32493	20.8	21.1	21.1	18.2
Lyon	39253	39793	34253	29628	16.4	15.7	16.9	14.1
Madison	43826	43478	40787	34254	14.0	14.3	16.8	14.6
Mahaska	77766	75106	73343	64845	15.7	15.5	18.1	16.0
Marion	98699	98322	91947	78530	13.0	13.3	14.3	12.6
Marshall	155259	155764	135041	116051	16.6	16.9	16.2	14.1
Mills	97714	100055	93457	85041	26.1	26.9	31.9	27.5
Mitchell	40196	40539	37232	33065	15.5	15.0	17.3	14.8
Monona	47870	48094	44960	37397	24.0	22.8	25.6	20.5
Monroe	35679	34504	32777	29815	20.4	20.2	21.4	20.3
Montgomery	52745	51128	49583	42829	19.3	18.7	20.2	17.6
Muscatine	125330	122977	115459	99370	12.0	12.4	12.3	11.2
O'Brien	59962	60000	53449	45927	17.3	16.8	18.8	13.7
Osceola	23111	23358	23282	20396	15.2	14.7	19.4	14.8
Page	70523	68460	64255	57663	18.8	18.1	19.5	17.7
Palo Alto	40965	40650	39859	34783	18.7	17.3	23.5	16.7
Plymouth	72736	70476	68070	58755	13.0	12.5	13.7	13.3
Pocahontas	37207	36636	35096	30821	18.9	17.7	23.7	16.1
Polk	1077900	1047419	995945	830671	9.8	10.0	10.7	10.1
Pottawattamie	304054	296565	284356	240181	15.8	15.8	17.5	14.5
Poweshiek	64085	63593	58721	48241	14.0	14.1	15.0	12.4
Ringgold	23438	23149	21101	18586	23.7	22.2	25.7	21.2
Sac	44271	44182	45959	41229	18.8	16.9	21.6	17.2
Scott	475169	465532	463127	375697	11.5	11.7	13.0	11.0
Shelby	51007	50675	46310	37756	18.2	17.2	19.3	14.9
Sioux	88229	85980	80297	66058	12.5	11.9	13.4	12.1
Story	188514	180248	165811	137949	10.0	9.9	10.4	9.5
Tama	62643	62136	60713	51732	16.6	16.5	18.3	14.9
Taylor	28053	28021	27709	24457	22.2	21.6	26.7	22.5
Union	49450	50120	46754	42786	19.3	20.0	20.6	18.3
Van Buren	30338	29556	28052	25686	20.3	19.4	22.8	21.2
Wapello	158964	157292	147838	132820	21.2	21.5	21.9	20.0
Warren	104856	101603	89416	73242	11.1	11.3	11.5	10.3
Washington	74627	73451	68233	55016	15.4	14.8	16.4	14.1
Wayne	30520	29993	29925	25765	27.1	25.0	29.0	22.1
Webster	162169	161977	157488	135594	17.9	17.9	19.7	17.2
Winnebago	41294	40903	40058	36196	15.5	15.9	18.5	13.4
Winneshiek	61635	60111	56236	49371	13.3	13.5	14.3	13.4
Woodbury	343531	344204	339216	307225	13.6	14.1	15.6	14.9
Worth	27343	27622	28371	25084	16.3	15.9	21.5	16.0
Wright	60855	60238	57280	48417	18.6	17.4	22.1	16.2
State of Iowa	9741985	9579212	9086667	7728201	13.8	13.9	15.1	13.4

billion was more than twice that of Linn's \$3.8 billion; Black Hawk, Dubuque, Johnson, Pottawattamie, Scott, Story, and Woodbury also reported earnings in this category of at least \$1 billion in 1998. Adams and Ringgold were the only counties with nonfarm earnings of less than \$50 million in 1998, although another 15 were under \$100 million that year.

The state had an inflation-adjusted increase in nonfarm earnings of \$9.2 billion (25.9%) from 1988 to 1998; only Fremont failed to follow that pattern (Table 4). In the remaining 98 counties, changes in nonfarm earnings exceeded the rate of inflation. Polk's increase of \$2.0 billion was followed by a \$1.0 billion gain in Linn. Fourteen others reported at least \$100 million more in adjusted nonfarm earnings in 1998 than in 1988. Inflation-adjusted changes in nonfarm earnings across counties ranged from a decline of 1.6 percent in Fremont to gains greater than 50 percent in Dallas, Dickinson, and Iowa counties when 1988 and 1998 were compared.

In 1988, nonfarm earnings accounted for 61.4 percent of total personal income in Iowa. This percentage increased somewhat between that year and 1998, when the figure was 63.2 percent (Table 4, Figure 1). Substantial differences occurred across counties, however (Figure 2). In 1998, for example, more than 70 percent of total income was derived from nonfarm earnings in Johnson, Linn, Polk, and Warren counties, while this source of income accounted for less than half of the total in 25 counties. Ten years earlier, nonfarm earnings accounted for more than 70 percent of total income in three counties and it was less than half of the total in 33 counties. Overall, nonfarm earnings were a larger portion of total earnings in 1998 than in 1988 in 77 counties.

### **Farm Earnings**

Iowa's farm earnings totaled \$1.7 billion in 1998 (Table 5). Farm earnings declined in 6 of the 10 year-to-year comparisons. Of the 11 years examined, farm earnings were the highest in 1996. The lowest figure—\$542 million—occurred in 1993, a year when flooding greatly affected farms.

Farm earnings were negative in 27 counties in 1993 (earnings can be negative because losses can exceed gains in a particular year). That didn't occur in any county in 1994, 1996, or 1997, although it happened in 14 counties in 1995 and three in 1998. Inflation-adjusted farm earnings (Table 6) also showed significant year-to-year variations.

Farm earnings constituted a relatively small percentage of Iowa's total personal income (Table 6, Figure 1). In 1998, farm earnings accounted for 2.4 percent of total income in the state. Earnings from farms were at least 10 percent of total income in nine counties that year, with Osceola the only one in which farm earnings accounted for more than 15 percent of total income (Figure 2).

### **Dividends, Interest, and Rent**

Income from dividends, interest, and rent decreased only from 1991 to 1993 in the 1988-1998 period and increased since then to reach the 1998 figure of \$14.6 billion (Table 7). Over the period, income from this source increased by \$5.2 billion. In 1998, dividends, interest, and rent provided income of \$1.9 billion in Polk and \$1.0 billion in Linn; income from this source was more than \$500 million in Black Hawk, Dubuque, Johnson, and Scott. After adjustments were made for inflation, income from dividends, interest, and rent was \$1.8 billion dollars higher in 1998 than 10 years earlier (Table 8).

The percentage that income from this source constituted of total personal income declined during this period. In 1988, 22.1 percent of total personal income came from dividends, interest, and rent (Table 8). It was 20.0 in 1993 and increased to 20.6 in 1998 (Figure 1).

Again, differences occur across counties (Figure 2). In 1998, dividends, interest, and rent accounted for at least 25.0 percent of total personal income in 23 counties but less than 15.0 percent in Mills and Warren.

## Transfer Payments

The final category of income includes transfer payments, which increased annually from \$5.7 billion in 1988 to \$9.7 billion 10 years later (Table 9). Twenty counties listed at least \$100 million in transfer payments in 1998, although only Polk reported a total greater than \$1 billion. Adams (\$19.1 million) was the only county with less than \$20 million in transfer payments.

Substantial gains occurred among transfer payments even after controlling for inflation (Table 10). These adjusted payments increased 26.1 percent from 1988 to 1998. Although it has fluctuated, the percentage of total personal income that comes from transfer payments also has increased slightly (Table 10). The 1988 figure of 13.4 percent increased to 15.1 percent in 1993 but dropped to 13.8 percent in 1998 (Figure 1).

Only in Dallas, Johnson, and Polk did less than 10 percent of total personal income come from transfer payments in 1998 (Figure 2). Decatur, Mills, and Wayne were the only counties with at least 25 percent of income generated by this source. Caution is urged in interpreting these and all numbers and percentages in this report, of course; the location of a state institution in Mills could have influenced these results, for example.

## Concluding Comments

In 1998, 63.2 percent of total statewide personal income came from nonfarm earnings; 2.4 percent from farm earnings; 20.6 percent from dividends, interest, and rent; and 13.8 percent from transfer payments (Figure 1). The percentages for 1988 were 61.4, 3.1, 22.1, and 13.4, respectively. While nonfarm earnings and transfer payments increased their shares, the percentages of income derived from farm earnings and dividends, interest, and rent declined.

**Note:** Additional information on transfer payments received by individuals is reported in the next section in this volume ("Government Payments to Individuals in Iowa's Counties: 1988, 1993, 1997, and 1998").

**Figure 1. Percent of personal income from selected sources, 1988–1998.**

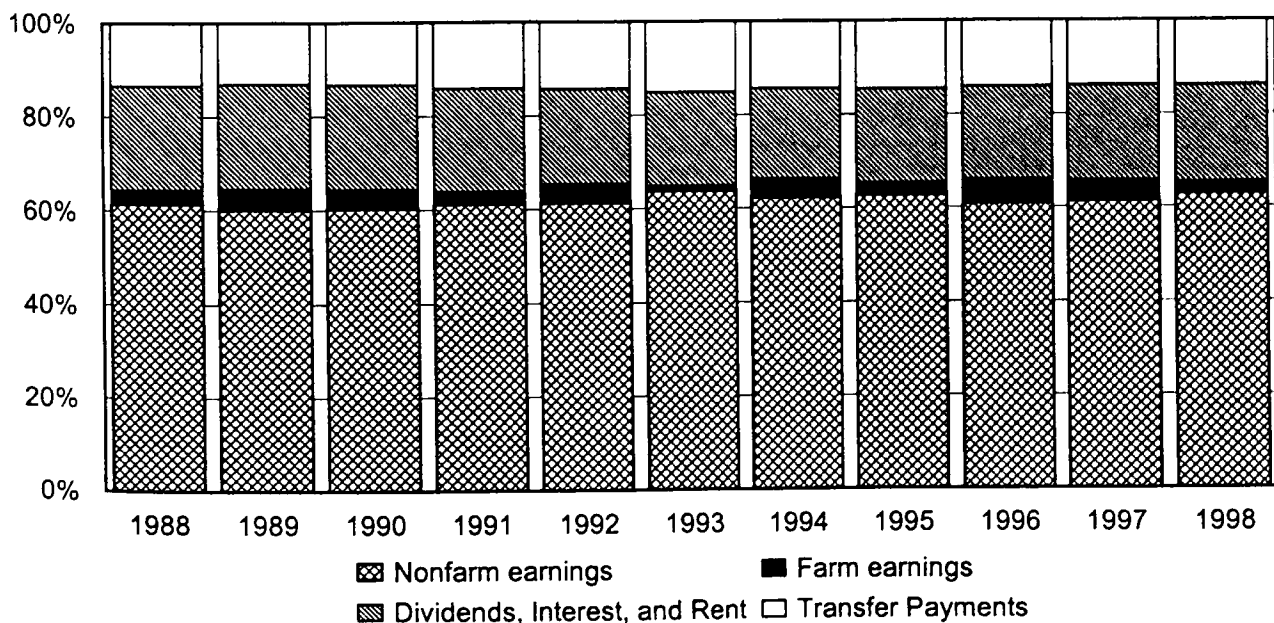
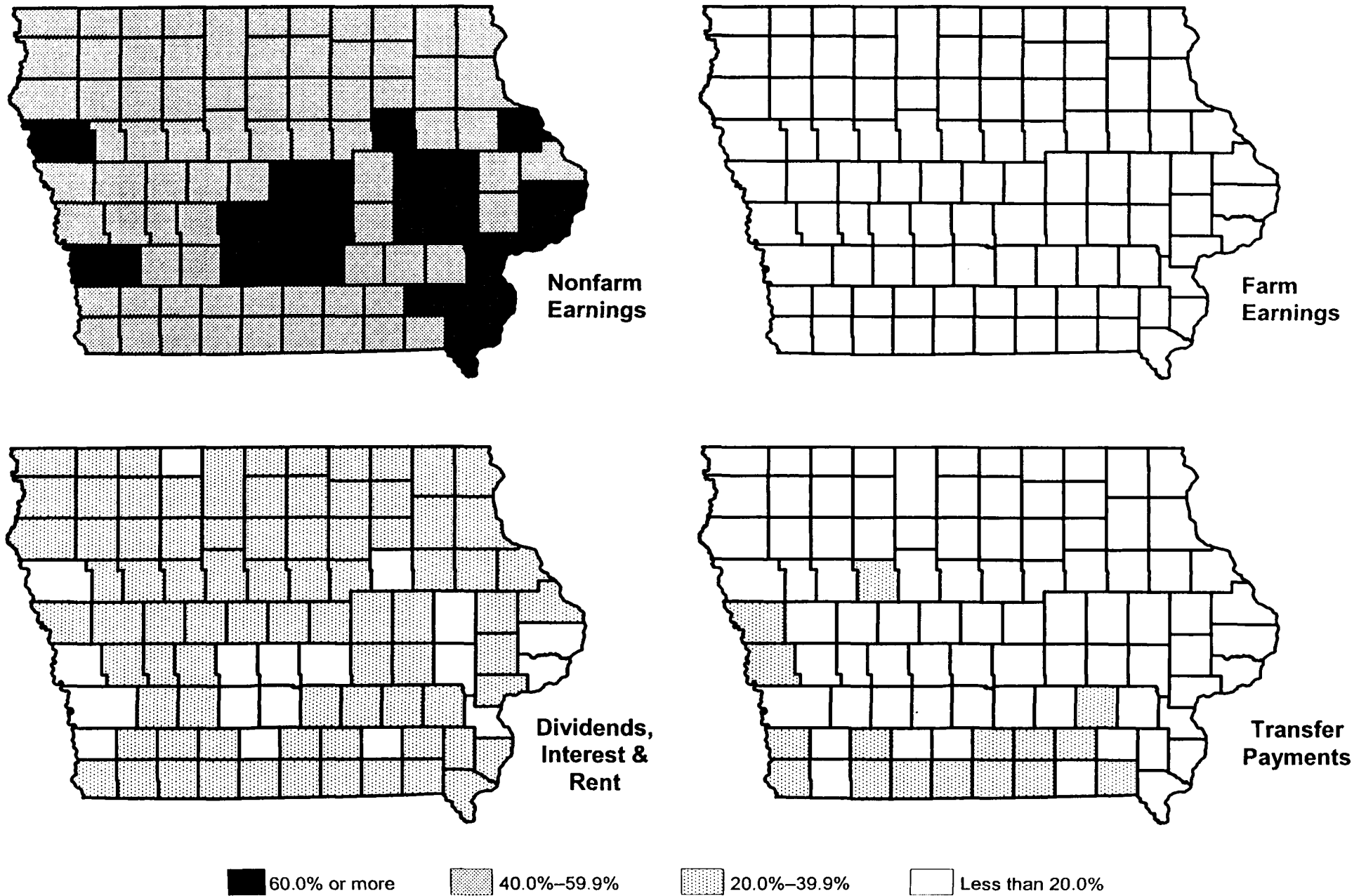


Figure 2. Percent of personal income from selected sources, Iowa, 1998.



## Government Payments to Individuals in Iowa's Counties: 1988, 1993, 1997, and 1998

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The Bureau of Economic Analysis of the U.S. Department of Commerce reports annually on income received from a variety of sources. In this section, detailed information is provided on what usually are referred to as transfer payments. These are government payments to individuals. A major portion of these transfer payments come through Old Age, Survivors, and Disability Insurance (OASDI), or what is more commonly known as Social Security (Table 1). Railroad retirement and disability payments, worker compensation payments (federal and state), and other government disability insurance and retirement payments also are available to selected residents; these are labeled other retirement and disability payments in the table. The Bureau of Economic Analysis reports Medicare as a separate category; public assistance medical care and other medical payments also are reported. Income maintenance benefit payments include supplemental security income payments, aid to families with dependent children, food stamps, and other smaller programs. Unemployment insurance benefit payments include state unemployment insurance compensation and unemployment compensation for federal civilian employees, railroad employees, and veterans. Another general category includes veterans benefit payments, which consists of pensions and compensation payments for veterans, life insurance benefit payments for veterans, and educational assistance to veterans, dependents, and survivors. The final category reported in Table 1 includes transfer payments not noted elsewhere, with nearly all for education and training assistance payments.

### Total Transfer Payments

Transfer payments totaled nearly \$9.2 billion in 1998 (Table 1), up from \$8.9 billion in 1997 (Table 2), \$7.6 billion in 1993 (Table 3), and \$5.3 billion in 1988 (Table 4). When inflation was taken into account, however, the increases were less substantial. The increase from 1988 to 1998 in unadjusted dollars was \$3.9 billion; after including inflation, the increase was \$1.9 billion.

Total transfer payments generally were correlated with population size; counties with larger numbers of residents received substantially greater amounts than those with smaller populations. Polk, for example, reported \$1.0 billion in government payments to individuals in 1998, while Adams noted \$18 million; these counties have the highest and lowest populations in the state, respectively. Eighteen other counties had at least \$100 million in transfer payments in 1998, with Black Hawk, Linn, and Scott in the \$400-\$550 million range. Totals in 43 counties including Adams were below \$50 million, although Osceola and Ringgold were the only ones joining Adams with less than \$25 million received through transfer payments in 1998. After adjusting for inflation, all counties received higher transfer payments in 1998 than in 1988. In Boone, Sac, and Worth, gains were less than 10 percent; increases exceeded 40 percent in Johnson and Warren.

### Retirement and Disability Payments

More than half (50.3%, \$4.6 billion) of total government payments to individuals in Iowa arrived through OASDI (Social Security) alone in 1998 (Table 1). In 1988, 55.7 percent of the total transfer payments came from OASDI (Table 4). Unadjusted OASDI payments increased by \$1.6 billion between 1988 and 1998; after adjusting for inflation, however, the increase was \$580 million.

At least \$100 million in OASDI payments were received in Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, and Woodbury in 1998. On the other hand, 19 counties reported payments of less

Table 1. Government Payments (in \$1,000s) to Individuals in Iowa's Counties, 1998.

County	Total	OASDI*	Other Retirement/ Disability Payments	Medicare	Other Medical Payments	Income Maintenance Benefit Payments	Unemployment Insurance Benefit Payments	Veterans Benefit Payments	Other Payments
Adair	28554	15224	107	5618	4363	2186	340	566	121
Adams	18171	8953	291	3588	3243	1455	262	298	65
Allamakee	45997	24347	319	8017	7706	2893	1252	1200	263
Appanoose	58039	26273	2957	10537	8468	6602	1076	1871	255
Audubon	26976	14328	86	6033	4015	1363	341	682	102
Benton	71546	39619	1115	14270	8660	4481	1341	1582	478
Black Hawk	442431	203206	5945	82329	79580	41483	9951	8466	11471
Boone	114289	45651	4359	16095	40154	4533	1207	1796	494
Bremer	74112	38148	481	19623	8616	3346	1542	1092	1264
Buchanan	61906	32342	758	13110	7812	4580	1759	1145	400
Buena Vista	68906	35740	281	13371	11731	3480	705	1216	2382
Butler	53805	29517	338	12551	6142	2687	1389	884	297
Calhoun	46669	25292	380	9393	7816	2184	471	919	172
Carroll	73547	39297	445	14579	13224	3375	949	1268	410
Cass	58973	30271	320	12200	9923	3635	1183	1164	277
Cedar	50826	29613	375	10699	5124	2858	870	949	338
Cerro Gordo	172156	89568	3409	32409	26510	9803	3023	3348	4086
Cherokee	49427	27794	796	9812	6793	2369	664	950	200
Chickasaw	43494	23736	182	9348	5515	2340	1253	868	252
Clarke	29675	14495	338	5824	5117	2489	629	625	126
Clay	56416	31804	250	10525	6995	3392	1205	1370	875
Clayton	65424	32653	786	12639	11831	3923	1893	1347	352
Clinton	182603	88419	5366	37194	30201	13919	3161	3183	1160
Crawford	57206	28619	643	12932	8963	3915	829	994	311
Dallas	91397	48788	2433	19400	11556	4531	1547	2448	694
Davis	27570	12616	392	5518	5036	2560	586	704	126
Decatur	31262	14508	176	5056	5960	3191	651	720	969
Delaware	49109	25543	481	9161	7426	3674	1511	963	350
Des Moines	157009	77132	5827	31260	21567	13083	3433	2851	1856
Dickinson	59850	35441	282	11680	6836	2484	1463	1356	308
Dubuque	275396	141336	2421	58149	40538	16928	6251	5453	4320
Emmet	46147	21761	872	9240	9125	2234	757	926	1192
Fayette	77762	38937	2665	15083	11018	5408	2129	1538	984
Floyd	68071	34736	351	12974	12550	4092	1403	1656	309
Franklin	41493	22407	286	7318	7619	2258	672	729	164
Fremont	31352	16088	354	6398	4929	2552	219	665	118
Greene	38826	22479	376	7040	4822	2549	578	793	152
Grundy	39967	25076	232	8347	3374	1444	610	657	183
Guthrie	43568	23986	414	8704	6394	2498	639	716	174
Hamilton	54508	30797	512	12694	5068	3093	916	1126	302
Hancock	39231	22203	304	8032	4947	1915	424	680	682
Hardin	73407	39560	766	15338	9878	3656	1453	1054	1702
Harrison	58243	26453	2186	12690	10272	4044	690	1617	291
Henry	58901	31911	702	11131	8181	3685	1549	862	880
Howard	34060	18648	153	6937	4760	1993	605	781	147
Humboldt	40053	22647	251	8473	5532	1887	394	675	156
Ida	27317	16063	118	5682	2998	1549	335	424	119
Iowa	46165	26967	190	9633	5388	2033	798	862	294
Jackson	70871	33838	1172	17518	10282	4624	1727	1332	378
Jasper	116966	65354	597	23730	16483	6328	1921	1872	681

\*OASDI: Old-Age, Survivors, and Disability Insurance Payments (usually called Social Security)



Table 1. Government Payments (in \$1,000s) to Individuals in Iowa's Counties, 1998 (continued).

County	Total	OASDI*	Other Retirement/ Disability Payments	Medicare	Other Medical Payments	Income Maintenance Benefit Payments	Unemployment Insurance Benefit Payments	Veterans Benefit Payments	Other Payments
Jefferson	45794	22610	241	8271	7920	4088	1260	750	654
Johnson	187884	94619	1411	33259	26109	13413	3312	5257	10504
Jones	57275	32544	201	11515	6829	3457	1157	1189	383
Keokuk	43805	22023	200	9035	7161	3255	910	1005	173
Kossuth	60799	35765	236	11641	7127	3657	726	1313	334
Lee	140068	65783	5888	29459	20422	11307	3408	2917	884
Linn	513307	271780	6662	93114	77929	34489	9247	11069	9017
Louisa	35341	18469	384	6913	5113	2846	714	678	180
Lucas	35598	17499	971	7127	5017	3372	529	911	139
Lyon	36780	20541	130	7103	5813	1855	363	750	181
Madison	40971	21677	292	9242	5550	2115	842	994	259
Mahaska	73259	37345	823	12858	11441	6324	1063	1920	1485
Marion	92245	49578	1290	18093	10097	5358	1426	4248	2155
Marshall	147288	70703	2158	23127	28921	9242	2343	9076	1718
Mills	94735	21318	1700	10052	56399	3202	362	1430	272
Mitchell	37930	21497	305	8820	4024	1751	667	660	166
Monona	45789	21629	391	11367	7651	2845	709	1007	153
Monroe	34025	15070	1130	7393	6090	2327	593	1272	121
Montgomery	50295	24443	537	11479	8681	3100	862	971	179
Muscatine	116866	62325	950	20980	17575	10051	2176	2031	778
O'Brien	56893	31217	346	11203	9215	2709	703	961	539
Osceola	21674	13298	49	4694	1510	1204	331	457	105
Page	66969	34113	302	13120	12237	4809	841	1216	331
Palo Alto	38903	21079	160	7918	6337	1934	536	751	151
Plymouth	67628	40768	582	14442	4749	3571	1266	1191	1059
Pocahontas	35400	19174	145	7900	5006	1923	321	765	133
Polk	1003930	476397	12007	195377	174412	81452	19580	28459	16246
Pottawattamie	286320	124015	24426	57767	41312	23938	3107	7784	3971
Poweshiek	60204	33551	340	12417	7271	3428	1174	1224	799
Ringgold	22336	10616	187	4079	4289	2210	340	515	80
Sac	41815	25208	151	8898	3726	2148	654	806	180
Scott	442536	212913	5432	83072	69169	47202	7091	9391	8266
Shelby	48336	25591	311	11949	6044	2651	610	936	195
Sioux	81791	46347	230	16469	9906	3830	1258	1257	2494
Story	173033	85881	803	33046	23065	8883	2211	3694	15450
Tama	58992	32893	637	12179	7545	3252	1096	973	417
Taylor	26582	13680	237	5636	3878	2148	256	612	108
Union	46867	21712	2580	9297	6895	3746	1066	836	688
Van Buren	28715	14962	239	6533	3544	2335	454	500	119
Wapello	151672	69326	5757	29632	23340	14849	2821	4172	1775
Warren	96585	51517	1274	18806	14114	4753	1897	2776	1448
Washington	70313	38398	442	14266	10570	4191	1111	939	396
Wayne	29150	14112	487	6393	4173	2623	499	736	101
Webster	154204	77731	2779	30574	23803	11292	2231	2868	2926
Winnebago	38838	22238	208	8319	5161	1658	345	685	180
Winneshiek	57326	30437	384	10615	7824	3068	1606	1148	2244
Woodbury	322609	152924	6749	63937	53367	26595	5234	7625	6178
Worth	25743	14483	861	5360	2600	1208	564	521	117
Wright	57972	30702	1622	12673	8472	2717	652	871	263
State of Iowa	9153039	4602685	150467	1797301	1450444	641965	163080	205360	141737

Table 2. Government Payments (in 1997 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1997.

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$
Adair	27577	27947	14765	14963	107	108	5544	5618	3850	3902	2203	2233	422	428	484	490	172	174
Adams	16862	17088	8505	8619	311	315	3447	3493	2438	2471	1421	1440	320	324	311	315	93	94
Allamakee	44842	45444	23935	24256	327	331	7837	7942	7144	7240	2935	2974	1215	1231	1102	1117	347	352
Appanoose	57133	57900	25752	26098	3162	3204	10443	10583	8170	8280	6538	6626	1077	1091	1658	1680	285	289
Audubon	26028	26377	14051	14240	87	88	5939	6019	3618	3667	1316	1334	430	436	419	425	144	146
Benton	69324	70255	38460	38976	1121	1136	14026	14214	7563	7665	4402	4461	1577	1598	1559	1580	616	624
Black Hawk	419287	424916	198350	201013	6047	6128	81599	82694	64421	65286	40985	41535	8689	8806	8354	8466	10842	10988
Boone	119287	120888	44542	45140	4310	4368	16091	16307	45666	46279	4631	4693	1519	1539	1882	1907	646	655
Bremer	70740	71690	36572	37063	509	516	19298	19557	7484	7584	3258	3302	1183	1199	1160	1176	1276	1293
Buchanan	60282	61091	31417	31839	751	761	13062	13237	7332	7430	4609	4671	1485	1505	1104	1119	522	529
Buena Vista	68011	68924	34946	35415	300	304	13339	13518	11736	11894	3388	3433	769	779	1332	1350	2201	2231
Butler	51710	52404	29267	29660	389	394	12513	12681	4431	4490	2646	2682	1181	1197	893	905	390	395
Calhoun	45301	45909	24824	25157	383	388	9410	9536	6772	6863	2153	2182	484	490	994	1007	240	243
Carroll	72549	73523	38602	39120	452	458	14477	14671	12624	12793	3360	3405	1322	1340	1177	1193	535	542
Cass	56809	57572	29885	30286	340	345	12032	12194	7962	8069	3593	3641	1456	1476	1176	1192	365	370
Cedar	50336	51012	29148	29539	374	379	10642	10785	5001	5068	2822	2860	954	967	951	964	444	450
Cerro Gordo	166570	168806	87314	88486	3397	3443	32014	32444	23745	24064	9664	9794	3293	3337	3253	3297	3890	3942
Cherokee	49491	50155	27070	27433	820	831	9717	9847	7467	7567	2361	2393	703	712	1023	1037	283	287
Chickasaw	42274	42841	23067	23377	192	195	9303	9428	4814	4879	2423	2456	1385	1404	759	769	283	287
Clarke	29107	29498	14218	14409	331	335	5887	5966	4799	4863	2438	2471	607	615	624	632	173	175
Clay	55707	56455	31036	31453	272	276	10485	10626	7213	7310	3392	3438	1161	1177	1248	1265	900	912
Clayton	61755	62584	31880	32308	821	832	12567	12736	9077	9199	3865	3917	1806	1830	1276	1293	463	469
Clinton	176098	178462	86221	87378	5326	5397	36850	37345	25854	26201	13685	13869	3637	3686	3099	3141	1426	1445
Crawford	57827	58603	27580	27950	623	631	12840	13012	10360	10499	3890	3942	1045	1059	1083	1098	406	411
Dallas	87882	89062	46917	47547	2462	2495	19046	19302	10149	10285	4389	4448	1694	1717	2343	2374	882	894
Davis	27002	27364	12376	12542	344	349	5480	5554	4620	4682	2595	2630	671	680	708	718	178	180
Decatur	30860	31274	13909	14096	225	228	5016	5083	6479	6566	3166	3209	476	482	666	675	893	905
Delaware	46799	47427	24777	25110	497	504	9033	9154	6050	6131	3657	3706	1405	1424	925	937	455	461
Des Moines	151618	153653	74903	75909	5895	5974	30886	31301	18794	19046	12340	12506	3845	3897	3003	3043	1952	1978
Dickinson	58202	58983	33994	34450	249	252	11440	11594	6635	6724	2373	2405	1844	1869	1270	1287	397	402
Dubuque	264956	268513	137034	138874	2465	2498	57049	57815	35358	35833	16424	16644	6941	7034	5233	5303	4452	4512
Emmet	44068	44660	21274	21560	856	867	9201	9325	7457	7557	2222	2252	1033	1047	876	888	1109	1124
Fayette	75089	76097	38057	38568	2742	2779	15041	15243	10035	10170	5251	5321	1428	1447	1503	1523	1032	1046

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Table 2. Government Payments (in 1997 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1997 (continued).

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$
Floyd	66172	67060	33947	34403	356	361	12879	13052	11417	11570	3827	3878	1593	1614	1746	1769	407	412
Franklin	42372	42941	21891	22185	291	295	7278	7376	8882	9001	2301	2332	713	723	746	756	230	233
Fremont	31494	31917	15952	16166	356	361	6422	6508	5288	5359	2374	2406	227	230	682	691	165	167
Greene	37096	37594	22212	22510	373	378	6945	7038	3573	3621	2480	2513	465	471	798	809	213	216
Grundy	38594	39112	24231	24556	208	211	8269	8380	3011	3051	1371	1389	546	553	655	664	259	262
Guthrie	42247	42814	23245	23557	412	418	8735	8852	5647	5723	2490	2523	691	700	744	754	242	245
Hamilton	55336	56079	30038	30441	518	525	12689	12859	6490	6577	3109	3151	1060	1074	1035	1049	397	402
Hancock	37892	38401	21606	21896	226	229	7958	8065	4252	4309	1890	1915	562	570	675	684	680	689
Hardin	73074	74055	39067	39591	709	719	15203	15407	9984	10118	3815	3866	1749	1772	1073	1087	1474	1494
Harrison	57491	58263	26119	26470	2168	2197	12710	12881	10067	10202	4108	4163	791	802	1149	1164	379	384
Henry	58301	59084	31226	31645	655	664	11036	11184	8693	8810	3571	3619	1350	1368	851	862	919	931
Howard	33517	33967	18328	18574	157	159	6927	7020	4607	4669	2021	2048	513	520	724	734	205	208
Humboldt	39122	39647	22473	22775	282	286	8557	8672	4609	4671	1868	1893	408	413	668	677	219	227
Ida	27292	27658	15798	16010	140	142	5623	5698	3189	3232	1558	1579	400	405	387	392	169	171
Iowa	45488	46099	26286	26639	202	205	9413	9539	5324	5395	1992	2019	927	939	960	973	384	389
Jackson	69534	70467	32605	33043	1180	1196	17165	17395	9965	10099	4859	4924	1960	1986	1305	1323	495	502
Jasper	114748	116288	63177	64025	619	627	23533	23849	16704	16928	5973	6053	2006	2033	1849	1874	887	899
Jefferson	45174	45780	22687	22992	286	290	8316	8428	7152	7248	3908	3960	1333	1351	786	797	706	715
Johnson	179440	181849	90509	91724	1274	1291	32437	32872	23164	23475	13388	13568	3814	3865	5027	5094	9827	9959
Jones	55818	56567	31630	32055	201	204	11455	11609	6047	6128	3440	3486	1387	1406	1158	1174	500	507
Keokuk	41751	42311	21309	21595	240	243	9006	9127	5677	5753	3293	3337	1012	1026	930	942	243	246
Kossuth	59889	60693	34744	35210	234	237	11526	11681	7458	7558	3520	3567	703	712	1262	1279	442	448
Lee	136618	138452	64069	64929	5828	5906	29243	29636	18330	18576	10998	11146	4242	4299	2817	2855	1091	1106
Linn	492004	498609	261907	265423	6740	6830	90953	92174	66390	67281	33799	34253	12200	12364	10774	10919	9241	9365
Louisa	34981	35451	18078	18321	339	344	6864	6956	4843	4908	2808	2846	1000	1013	755	765	251	254
Lucas	35210	35683	17306	17538	1003	1016	7028	7122	4940	5006	3216	3259	629	637	862	874	193	196
Lyon	36906	37401	19920	20187	156	158	6914	7007	6750	6841	1889	1914	283	287	698	707	253	256
Madison	40198	40738	20797	21076	269	273	9152	9275	5383	5455	2231	2261	1086	1101	943	956	289	293
Mahaska	69825	70762	36358	36846	891	903	12662	12832	9387	9513	6123	6205	1159	1175	1791	1815	1454	1474
Marion	90876	92096	47915	48558	1334	1352	17806	18045	10778	10923	5326	5397	1698	1721	3913	3966	2106	2134
Marshall	146062	148023	69000	69926	2138	2167	22957	23265	30487	30896	9104	9226	2559	2593	8026	8134	1791	1815
Mills	95907	97194	20809	21088	1710	1733	9907	10040	58111	58891	3117	3159	529	536	1372	1390	352	357
Mitchell	37822	38330	21025	21307	286	290	8719	8836	4720	4783	1732	1755	544	551	522	529	234	237

Table 2. Government Payments (in 1997 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1997 (continued).

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$	1997\$	Adj to 1998\$
Monona	45464	46074	21238	21523	379	384	11417	11570	7812	7917	2774	2811	626	634	967	980	214	217
Monroe	32457	32893	14170	14360	1163	1179	7313	7411	5350	5422	2309	2340	739	749	1214	1230	170	172
Montgomery	48114	48760	23971	24293	559	567	11503	11657	6568	6656	3047	3088	1212	1228	961	974	250	253
Muscatine	113291	114812	60673	61487	903	915	20580	20856	14842	15041	9846	9978	3388	3433	2045	2072	1014	1028
O'Brien	56256	57011	30550	30960	337	342	11091	11240	9444	9571	2654	2690	656	665	934	947	590	598
Osceola	21659	21950	13374	13554	50	51	4689	4752	1193	1209	1264	1281	325	329	591	599	149	151
Page	64179	65041	33662	34114	318	322	12997	13171	9975	10109	4553	4614	942	955	1304	1322	428	434
Palo Alto	38130	38642	20941	21222	162	164	7853	7958	5563	5638	2079	2107	537	544	745	755	213	216
Plymouth	64644	65512	39601	40133	622	630	14374	14567	2622	2657	3516	3563	1547	1568	1245	1262	1117	1132
Pocahontas	34413	34875	18529	18778	150	152	7832	7937	4735	4799	1905	1931	327	331	717	727	187	190
Polk	963515	976449	462287	468493	12085	12247	192262	194843	148225	150215	80473	81553	24019	24341	27272	27638	16892	17119
Pottawattamie	275850	279553	120394	122010	24019	24341	56955	57720	35407	35882	23833	24153	4147	4203	6985	7079	4110	4165
Poweshiek	59023	59815	32700	33139	370	375	12271	12436	6851	6943	3370	3415	1442	1461	1172	1188	847	858
Ringgold	21788	22080	10477	10618	164	166	4035	4089	4103	4158	2121	2149	272	276	484	490	113	115
Sac	41248	41802	24647	24978	158	160	8838	8957	3682	3731	2173	2202	662	671	793	804	252	255
Scott	428302	434052	206664	209438	5179	5249	81518	82612	61743	62572	47646	48286	8455	8569	8689	8806	8408	8521
Shelby	47430	48067	24849	25183	319	323	11984	12145	5538	5612	2683	2719	876	888	859	871	275	279
Sioux	78735	79792	45099	45704	232	235	16238	16456	8626	8742	3738	3788	1141	1156	1270	1287	2391	2423
Story	163173	165363	82492	83599	809	820	32391	32826	19085	19341	8704	8821	2338	2369	3541	3589	13813	13998
Tama	57837	58613	31904	32332	691	700	11959	12120	7268	7366	3328	3373	1130	1145	1038	1052	519	526
Taylor	26247	26599	13434	13614	222	225	5617	5692	3558	3606	2164	2193	469	475	607	615	150	152
Union	46992	47623	21356	21643	2593	2628	9173	9296	7390	7489	3908	3960	977	990	860	872	690	699
Van Buren	27622	27993	14253	14444	226	229	6494	6581	3165	3207	2227	2257	575	583	489	496	165	167
Wapello	148218	150208	68522	69442	5728	5805	29265	29658	19785	20051	13812	13997	5419	5492	3864	3916	1823	1847
Warren	92431	93672	49067	49726	1213	1229	18220	18465	13054	13229	4709	4772	1847	1872	2748	2785	1573	1594
Washington	68365	69283	37142	37641	414	420	13971	14159	10054	10189	4059	4113	1251	1268	959	972	515	522
Wayne	28264	28643	13802	13987	524	531	6375	6461	3540	3588	2610	2645	543	550	703	712	143	145
Webster	152226	154270	76018	77038	2743	2780	30520	30930	23288	23601	11496	11650	2484	2517	2848	2886	2829	2867
Winnebago	37997	38507	21640	21931	246	249	8197	8307	4787	4851	1746	1769	483	489	602	610	253	256
Winneshiek	55215	55956	29362	29756	398	403	10420	10560	7374	7473	3049	3090	1467	1487	1054	1068	2091	2119
Woodbury	319581	323871	150588	152610	6813	6904	63829	64686	51666	52360	26345	26699	6623	6712	7550	7651	6167	6250
Worth	25724	26069	14194	14385	886	898	5418	5491	2837	2875	1158	1174	490	497	549	556	164	166
Wright	56659	57420	29802	30202	1553	1574	12641	12811	7991	8098	2728	2765	763	773	832	843	349	354
State of Iowa	8890683	9010034	4478314	4538432	150496	152516	1776081	1799924	1323558	1341326	633921	642431	185368	187856	197622	200275	145323	147274

Table 3. Government Payments (in 1993 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1993.

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$
Adair	23610	26540	13166	14800	117	132	4688	5270	2913	3274	1487	1672	601	676	541	608	70	79
Adams	13904	15629	7452	8377	271	305	2761	3104	1663	1869	1191	1339	236	265	277	311	0	0
Allamakee	37718	42398	21018	23626	347	390	6512	7320	4975	5592	2241	2519	1617	1818	862	969	117	132
Appanoose	50382	56634	22782	25609	3842	4319	8590	9656	6523	7332	5624	6322	1291	1451	1587	1784	115	129
Audubon	22934	25780	12705	14281	88	99	5030	5654	3105	3490	1023	1150	411	462	486	546	59	66
Benton	55947	62889	31998	35968	1150	1293	10665	11988	4903	5511	3795	4266	1833	2060	1346	1513	257	289
Black Hawk	365811	411202	175523	197303	5978	6720	65549	73683	49229	55338	38826	43644	11650	13096	7473	8400	11583	13020
Boone	111066	124848	39082	43931	4341	4880	13365	15023	45776	51456	4757	5347	1554	1747	1876	2109	315	354
Bremer	61756	69419	31714	35649	535	601	17996	20229	4987	5606	2777	3122	1477	1660	1108	1245	1162	1306
Buchanan	53468	60103	28167	31662	775	871	10761	12096	6409	7204	4288	4820	1788	2010	1048	1178	232	261
Buena Vista	55852	62782	31901	35859	328	369	10637	11957	5278	5933	2860	3215	988	1111	1381	1552	2479	2787
Butler	47383	53262	25895	29108	361	406	9701	10905	6246	7021	2253	2533	1862	2093	901	1013	132	148
Calhoun	39690	44615	23082	25946	417	469	7621	8567	4959	5574	1784	2005	816	917	892	1003	96	108
Carroll	59278	66633	33225	37348	561	631	11188	12576	7993	8985	3029	3405	1732	1947	1311	1474	239	269
Cass	48502	54520	26633	29938	315	354	9379	10543	5950	6688	3186	3581	1770	1990	1107	1244	127	143
Cedar	42638	47929	25045	28153	370	416	8773	9862	3894	4377	2259	2539	1290	1450	816	917	147	165
Cerro Gordo	147916	166270	77738	87384	3129	3517	24892	27981	18389	20671	9803	11019	6323	7108	3576	4020	4066	4571
Cherokee	41125	46228	23516	26434	811	912	7564	8503	5468	6146	1850	2080	803	903	965	1085	116	130
Chickasaw	36165	40653	20333	22856	209	235	7731	8690	3127	3515	1979	2225	1859	2090	780	877	111	125
Clarke	24840	27922	12011	13501	356	400	4765	5356	3397	3819	2128	2392	1399	1573	693	779	69	78
Clay	47160	53012	26833	30163	324	364	8196	9213	5426	6099	3195	3591	1126	1266	1259	1415	755	849
Clayton	51821	58251	27257	30639	868	976	10035	11280	5629	6327	3113	3499	3340	3754	1368	1538	211	237
Clinton	153577	172633	77524	87143	4877	5482	29592	33264	18395	20678	13384	15045	5839	6564	3173	3567	793	891
Crawford	49388	55516	24195	27197	642	722	10836	12181	7670	8622	3028	3404	1802	2026	976	1097	239	269
Dallas	75453	84816	41347	46478	2504	2815	15033	16898	7435	8358	4350	4890	2199	2472	2236	2513	349	392
Davis	23157	26030	11406	12821	327	368	4823	5421	2864	3219	2198	2471	755	849	695	781	70	79
Decatur	27379	30776	12503	14054	278	312	4065	4569	5041	5667	2736	3075	1012	1138	703	790	1012	1138
Delaware	38459	43231	20601	23157	450	506	6923	7782	4267	4796	2911	3272	2111	2373	1005	1130	153	172
Des Moines	131233	147517	65152	73236	5637	6336	25391	28542	12150	13658	11790	13253	6604	7423	2773	3117	1736	1951
Dickinson	46306	52052	28760	32329	310	348	9005	10122	3887	4369	1742	1958	1327	1492	1087	1222	188	211
Dubuque	223549	251288	119274	134074	2387	2683	43744	49172	26135	29378	15028	16893	8212	9231	4846	5447	3923	4410
Emmet	38516	43295	19313	21709	896	1007	7638	8586	5487	6168	2112	2374	806	906	991	1114	1245	1399
Fayette	64288	72265	33171	37287	2766	3109	11826	13293	7363	8277	4531	5093	2245	2524	1514	1702	825	927

\*OASDI: Old-Age, Survivors, and Disability Insurance Payments (usually called Social Security)

Table 3. Government Payments (in 1993 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1993 (continued).

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$
Floyd	56146	63113	29194	32817	391	440	10063	11312	8157	9169	3486	3919	3252	3656	1422	1598	141	158
Franklin	33398	37542	19355	21757	274	308	6210	6981	3740	4204	1863	2094	1078	1212	761	855	94	106
Fremont	27147	30516	14588	16398	322	362	4924	5535	3403	3825	2029	2281	1107	1244	661	743	69	78
Greene	32412	36434	19662	22102	422	474	5355	6019	2898	3258	1901	2137	1233	1386	817	918	85	96
Grundy	31772	35714	20392	22922	190	214	6714	7547	1673	1881	1232	1385	790	888	656	737	101	114
Guthrie	36289	40792	20012	22495	413	464	7046	7920	4601	5172	2234	2511	1080	1214	768	863	94	106
Hamilton	49156	55255	27327	30718	444	499	10148	11407	5282	5937	3020	3395	1677	1885	1073	1206	185	208
Hancock	33606	37776	19021	21381	205	230	6775	7616	3477	3908	1783	2004	983	1105	679	763	661	743
Hardin	63870	71795	35344	39730	650	731	12280	13804	7095	7975	3744	4209	1638	1841	1206	1356	1913	2150
Harrison	49187	55290	23102	25969	1921	2159	10479	11779	7602	8545	3386	3806	1328	1493	1153	1296	216	243
Henry	49724	55894	27505	30918	595	669	8953	10064	5977	6719	3322	3734	1713	1926	889	999	725	815
Howard	30449	34227	17398	19557	162	182	6099	6856	3640	4092	1608	1808	877	986	541	608	83	93
Humboldt	35376	39766	20247	22759	255	287	7080	7959	4288	4820	1828	2055	849	954	711	799	88	99
Ida	22811	25641	13551	15232	152	171	4442	4993	2686	3019	1076	1210	450	506	370	416	69	78
Iowa	38214	42956	22619	25426	190	214	7749	8711	3893	4376	1583	1779	1166	1311	837	941	177	199
Jackson	59574	66966	28272	31780	993	1116	15466	17385	6938	7799	4192	4712	2301	2587	1200	1349	168	189
Jasper	97124	109176	53906	60595	712	800	18647	20961	11758	13217	5876	6605	3745	4210	2084	2343	396	445
Jefferson	37715	42395	19290	21684	365	410	6178	6945	5200	5845	3406	3829	1853	2083	879	988	512	576
Johnson	142404	160074	73324	82422	1294	1455	24779	27854	13535	15214	10834	12178	3929	4417	4001	4497	10708	12037
Jones	46314	52061	26394	29669	190	214	9238	10384	4307	4841	2996	3368	1767	1986	1200	1349	222	250
Keokuk	36454	40977	20226	22736	260	292	6672	7500	4220	4744	2801	3149	1220	1371	935	1051	97	109
Kossuth	50888	57202	30200	33947	331	372	9557	10743	5213	5860	2870	3226	1256	1412	1271	1429	152	171
Lee	121177	136213	56376	63371	5891	6622	23905	26871	14308	16083	10468	11767	6586	7403	2998	3370	645	725
Linn	407121	457638	218596	245720	6964	7828	69856	78524	47266	53131	33127	37238	13689	15388	9550	10735	8073	9075
Louisa	29534	33199	14688	16511	313	352	6101	6858	3611	4059	2616	2941	1341	1507	707	795	157	176
Lucas	30000	33723	15165	17047	1069	1202	5371	6037	3804	4276	2518	2830	1152	1295	824	926	76	85
Lyon	28521	32060	17310	19458	187	210	5386	6054	2917	3279	1400	1574	473	532	704	791	100	112
Madison	34185	38427	17856	20072	248	279	7351	8263	4349	4889	1985	2231	1394	1567	865	972	107	120
Mahaska	61712	69369	32219	36217	1019	1145	9817	11035	8427	9473	5307	5966	1815	2040	1666	1873	1442	1621
Marion	76832	86366	40923	46001	1649	1854	13801	15513	7576	8516	5204	5850	2205	2479	3401	3823	2073	2330
Marshall	113952	128092	60424	67922	2174	2444	18601	20909	12296	13822	8923	10030	3340	3754	6682	7511	1512	1700
Mills	80961	91007	17667	19859	1440	1619	7564	8503	49752	55925	2663	2993	559	628	1172	1317	111	125
Mitchell	31324	35211	17840	20054	303	341	6709	7541	3560	4002	1314	1477	961	1080	514	578	92	103

Table 3. Government Payments (in 1993 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1993 (continued).

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$	1993\$	Adj to 1998\$
Monona	38352	43111	18559	20862	368	414	9256	10405	5836	6560	2412	2711	810	911	991	1114	85	96
Monroe	27828	31281	12768	14352	1411	1586	5635	6334	3737	4201	2220	2495	951	1069	1025	1152	68	76
Montgomery	42146	47376	21554	24229	484	544	9227	10372	6189	6957	2618	2943	1104	1241	830	933	100	112
Muscatine	96017	107931	53577	60225	870	978	16211	18223	10436	11731	9145	10280	3426	3851	1897	2132	455	511
O'Brien	45037	50625	26959	30304	365	410	8512	9568	4508	5067	2274	2556	931	1047	1042	1171	417	469
Osceola	19540	21965	11884	13359	83	93	3737	4201	1999	2247	881	990	456	513	422	474	60	67
Page	54449	61205	30187	33933	325	365	10451	11748	6852	7702	4024	4523	1271	1429	1140	1281	199	224
Palo Alto	33757	37946	19094	21463	199	224	6224	6996	4547	5111	2207	2481	651	732	715	804	87	98
Plymouth	56648	63677	33605	37775	545	613	11211	12602	5409	6080	2514	2826	1254	1410	1203	1352	861	968
Pocahontas	29729	33418	16848	18939	115	129	6421	7218	3491	3924	1489	1674	551	619	694	780	77	87
Polk	830073	933072	393977	442863	12469	14016	147682	166007	118801	133542	84620	95120	31582	35501	26205	29457	14737	16566
Pottawattamie	239341	269039	102961	115737	22856	25692	43847	49288	30870	34700	24172	27171	4927	5538	6172	6938	3536	3975
Poweshiek	49161	55261	28328	31843	406	456	9290	10443	4635	5210	2874	3231	1819	2045	1118	1257	654	735
Ringgold	17896	20117	9412	10580	156	175	3087	3470	2798	3145	1493	1678	394	443	480	540	0	0
Sac	38918	43747	21979	24706	201	226	7077	7955	4425	4974	1769	1989	2486	2794	858	964	100	112
Scott	386619	434592	176774	198709	4782	5375	65785	73948	58540	65804	48715	54760	16489	18535	7939	8924	7595	8537
Shelby	39049	43894	21343	23991	209	235	9070	10195	4202	4723	1985	2231	1300	1461	785	882	110	124
Sioux	66393	74631	39130	43985	236	265	12662	14233	6857	7708	2539	2854	1218	1369	1303	1465	2448	2752
Story	135325	152117	69007	77570	879	988	24110	27102	11469	12892	7274	8177	2907	3268	2978	3348	16701	18773
Tama	51138	57483	29307	32944	622	699	9157	10293	6095	6851	3060	3440	1536	1727	1042	1171	319	359
Taylor	23495	26410	12702	14278	167	188	4880	5486	2647	2975	1722	1936	595	669	676	760	59	66
Union	39545	44452	18452	20742	2472	2779	7466	8392	4815	5412	3663	4118	1058	1189	914	1027	664	746
Van Buren	23688	26627	12896	14496	169	190	5280	5935	2140	2406	1820	2046	808	908	475	534	65	73
Wapello	125637	141227	60269	67747	5706	6414	23756	26704	13506	15182	12810	14400	4185	4704	3684	4141	1721	1935
Warren	73365	82468	37254	41877	1155	1298	13639	15331	9978	11216	4901	5509	2728	3067	2530	2844	1180	1326
Washington	57395	64517	32598	36643	436	490	11356	12765	6735	7571	3136	3525	1811	2036	1113	1251	169	190
Wayne	25483	28645	12939	14545	645	725	5265	5918	3082	3464	1993	2240	763	858	724	814	58	65
Webster	133596	150173	67410	75775	2809	3158	23902	26868	18634	20946	11132	12513	3965	4457	2845	3198	2899	3259
Winnebago	33704	37886	19755	22206	182	205	6489	7294	4447	4999	1572	1767	572	643	562	632	99	111
Winneshiek	46600	52382	25152	28273	434	488	8101	9106	5283	5939	2378	2673	1962	2205	996	1120	2294	2579
Woodbury	285327	320732	137086	154096	7017	7888	52093	58557	43085	48431	26562	29858	6376	7167	7249	8148	5859	6586
Worth	23940	26911	12570	14130	1090	1225	4518	5079	2919	3281	1205	1355	1060	1192	495	556	66	74
Wright	48647	54683	26985	30333	1475	1658	10779	12117	4459	5012	2482	2790	1378	1549	940	1057	118	133
State of Iowa	7623458	8569408	3893636	4376774	149893	168492	1410767	1585821	1007808	1132861	593514	667160	250809	281930	186891	210081	130140	146288

Table 4. Government Payments (in 1988 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1988.

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$
Adair	16072	21940	9892	13504	122	167	2920	3986	1176	1605	1139	1555	214	292	539	736	66	90
Adams	11223	15320	6334	8647	146	199	2494	3405	847	1156	881	1203	101	138	378	516	0	0
Allamakee	26511	36190	16379	22359	322	440	4538	6195	2152	2938	1431	1953	780	1065	792	1081	111	152
Appanoose	36940	50427	17430	23794	3904	5329	5763	7867	3394	4633	4151	5667	650	887	1533	2093	109	149
Audubon	14927	20377	9344	12755	93	127	2870	3918	1216	1660	680	928	229	313	434	592	58	79
Benton	39199	53510	23458	32022	1072	1463	7486	10219	2441	3332	2499	3411	848	1158	1211	1653	175	239
Black Hawk	254172	346970	132394	180731	5311	7250	42269	57701	24828	33893	28894	39443	5929	8094	5977	8159	8570	11699
Boone	81913	111819	28665	39131	4040	5515	8851	12082	34442	47017	3138	4284	903	1233	1666	2274	196	268
Bremer	39118	53400	24813	33872	447	610	7319	9991	2062	2815	1909	2606	699	954	1005	1372	855	1167
Buchanan	38923	53134	21562	29434	676	923	7181	9803	4283	5847	3305	4512	701	957	1044	1425	162	221
Buena Vista	41897	57193	26066	35583	327	446	6901	9421	2834	3869	2011	2745	618	844	1313	1792	1818	2482
Butler	32277	44061	19545	26681	300	410	6294	8592	2647	3613	1808	2468	710	969	840	1147	125	171
Calhoun	26550	36243	16553	22596	301	411	4716	6438	2380	3249	1298	1772	337	460	870	1188	90	123
Carroll	40864	55783	25894	35348	455	621	7056	9632	3249	4435	1866	2547	982	1341	1183	1615	170	232
Cass	32768	44732	20813	28412	258	352	5676	7748	2332	3183	1838	2509	706	964	1018	1390	120	164
Cedar	27970	38182	17488	23873	282	385	5154	7036	2172	2965	1460	1993	634	865	637	870	135	184
Cerro Gordo	100509	137205	57464	78444	2650	3618	16382	22363	7921	10813	6736	9195	3053	4168	3270	4464	3011	4110
Cherokee	29793	40670	18073	24671	766	1046	4967	6780	3145	4293	1373	1874	447	610	904	1234	112	153
Chickasaw	24759	33798	14784	20182	205	280	5151	7032	1604	2190	1384	1889	774	1057	745	1017	106	145
Clarke	16771	22894	9635	13153	253	345	2780	3795	1571	2145	1361	1858	471	643	631	861	65	89
Clay	33214	45340	19648	26821	318	434	5781	7892	2943	4017	2307	3149	510	696	1117	1525	582	794
Clayton	37225	50816	21191	28928	769	1050	6918	9444	3085	4211	2211	3018	1585	2164	1306	1783	151	206
Clinton	107199	146337	60325	82350	4199	5732	18863	25750	8357	11408	8711	11891	3327	4542	2818	3847	575	785
Crawford	31766	43364	18153	24781	530	724	5839	7971	2632	3593	2107	2876	1427	1948	934	1275	136	186
Dallas	54054	73789	30959	42262	2369	3234	10220	13951	4182	5709	3061	4179	1106	1510	1917	2617	227	310
Davis	17061	23290	9497	12964	348	475	2990	4082	1510	2061	1563	2134	454	620	630	860	65	89
Decatur	18781	25638	9677	13210	251	343	2992	4084	2296	3134	1669	2278	359	490	770	1051	763	1042
Delaware	27297	37263	15801	21570	343	468	4708	6427	2181	2977	2299	3138	761	1039	1056	1442	140	191
Des Moines	90146	123058	49376	67403	4242	5791	14299	19520	7381	10076	7450	10170	3447	4705	2726	3721	1205	1645
Dickinson	33107	45194	21946	29958	232	317	6256	8540	1555	2123	1342	1832	657	897	996	1360	116	158
Dubuque	152675	208416	88223	120433	1868	2550	26180	35738	12638	17252	11217	15312	5135	7010	4501	6144	2871	3919
Emmet	26458	36118	14777	20172	768	1048	4700	6416	2306	3148	1562	2132	528	721	875	1194	937	1279
Fayette	43782	59767	23818	32514	2477	3381	8281	11304	3252	4439	3003	4099	973	1328	1323	1806	646	882

\*OASDI: Old-Age, Survivors, and Disability Insurance Payments (usually called Social Security)



Table 4. Government Payments (in 1988 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1988 (continued).

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$
Floyd	38283	52260	22539	30768	380	519	6691	9134	3320	4532	2799	3821	1160	1584	1250	1706	136	186
Franklin	23137	31584	13960	19057	233	318	4484	6121	1926	2629	1202	1641	564	770	673	919	90	123
Fremont	18711	25542	10274	14025	271	370	4041	5516	1789	2442	1277	1743	400	546	589	804	66	90
Greene	24107	32908	16195	22108	335	457	3620	4942	1336	1824	1165	1590	598	816	773	1055	80	109
Grundy	22683	30965	14503	19798	113	154	4897	6685	1260	1720	766	1046	414	565	629	859	95	130
Guthrie	25649	35013	15923	21736	405	553	4410	6020	2161	2950	1446	1974	359	490	854	1166	86	117
Hamilton	32936	44961	19436	26532	427	583	7084	9670	2172	2965	1957	2671	729	995	994	1357	129	176
Hancock	22272	30403	14403	19662	150	205	3817	5211	1518	2072	981	1339	408	557	476	650	513	700
Hardin	43750	59723	27175	37097	547	747	7292	9954	3183	4345	2118	2891	1148	1567	1144	1562	1134	1548
Harrison	32649	44569	16942	23127	1323	1806	6964	9507	3190	4355	2212	3020	708	966	1185	1618	118	161
Henry	35372	48286	21287	29059	557	760	5981	8165	3376	4609	1859	2538	922	1259	817	1115	564	770
Howard	19131	26116	11459	15643	87	119	3616	4936	1428	1949	1201	1639	612	835	644	879	79	108
Humboldt	23539	32133	15263	20835	271	370	4129	5636	1697	2317	1196	1633	321	438	572	781	85	116
Ida	15579	21267	9187	12541	147	201	3670	5010	1233	1683	665	908	214	292	394	538	65	89
Iowa	25848	35285	16232	22158	203	277	5382	7347	1639	2237	963	1315	481	657	826	1128	115	157
Jackson	38597	52689	21010	28681	723	987	7246	9891	3424	4674	3303	4509	1567	2139	1154	1575	161	220
Jasper	66289	90491	39917	54491	721	984	12233	16699	5452	7443	3854	5261	1814	2476	2010	2744	271	370
Jefferson	28054	38296	16395	22381	399	545	4852	6623	2355	3215	2050	2798	874	1193	720	983	401	547
Johnson	92463	126221	51341	70085	922	1259	14871	20300	5793	7908	6222	8494	2123	2898	3374	4606	7772	10610
Jones	30953	42254	18602	25394	226	309	5980	8163	2063	2816	2148	2932	678	926	1098	1499	149	203
Keokuk	27157	37072	15801	21570	281	384	5407	7381	2224	3036	1809	2469	603	823	935	1276	92	126
Kossuth	35474	48425	22473	30678	337	460	6910	9433	2086	2848	1712	2337	713	973	1087	1484	148	202
Lee	85364	116530	44433	60655	5072	6924	14961	20423	7600	10375	7043	9614	3249	4435	2555	3488	432	590
Linn	279823	381986	163062	222596	5946	8117	45234	61749	22227	30342	23229	31710	6968	9512	7243	9887	5914	8073
Louisa	19799	27028	11257	15367	322	440	3425	4675	2008	2741	1575	2150	468	639	649	886	90	123
Lucas	22548	30780	11739	16025	1007	1375	4496	6137	2210	3017	1827	2494	386	527	805	1099	73	100
Lyon	20091	27426	12762	17421	217	296	3816	5209	1483	2024	826	1128	216	295	673	919	93	127
Madison	23429	31983	13513	18447	225	307	4447	6071	2332	3183	1353	1847	658	898	799	1091	96	131
Mahaska	44591	60871	25647	35011	812	1108	6778	9253	4228	5772	3456	4718	716	977	1893	2584	1052	1436
Marion	53493	73023	30644	41832	1790	2444	9217	12582	3719	5077	3201	4370	1046	1428	2338	3192	1524	2080
Marshall	79829	108974	46873	63986	1773	2420	11496	15693	5112	6978	5692	7770	1434	1958	6331	8642	1099	1500
Mills	60500	82588	12558	17143	902	1231	4341	5926	39514	53940	2099	2865	248	339	728	994	104	142
Mitchell	22721	31016	15027	20513	261	356	4051	5530	1418	1936	895	1222	445	607	533	728	86	117

Table 4. Government Payments (in 1988 \$1,000s and adjusted to 1998 \$1,000s) to Individuals in Iowa's Counties, 1988 (continued).

County	Total		OASDI*		Other Retirement/ Disability Payments		Medicare		Other Medical Payments		Income Maintenance Benefit Payments		Unemployment Insurance Benefit Payments		Veterans Benefit Payments		Other Payments	
	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$	1988\$	Adj to 1998\$
Monona	26005	35499	14460	19739	358	489	5642	7702	2274	3104	1673	2284	451	616	1062	1450	80	109
Monroe	20741	28313	9870	13474	1515	2068	3819	5213	2197	2999	1880	2566	502	685	891	1216	63	86
Montgomery	29746	40606	17941	24491	516	704	6255	8539	2139	2920	1481	2022	445	607	870	1188	94	128
Muscatine	67428	92046	39904	54473	768	1048	11160	15234	5154	7036	6279	8571	1893	2584	1940	2648	311	425
O'Brien	31544	43061	19785	27008	364	497	6103	8331	2114	2886	1542	2105	426	582	871	1189	332	453
Osceola	13949	19042	9397	12828	70	96	2323	3171	928	1267	477	651	311	425	383	523	57	78
Page	39982	54579	23616	32238	423	577	7589	10360	3507	4787	2978	4065	563	769	1166	1592	131	179
Palo Alto	24017	32786	14784	20182	136	186	4534	6189	2021	2759	1432	1955	368	502	653	891	84	115
Plymouth	39844	54391	24811	33869	409	558	7626	10410	2487	3395	1837	2508	784	1070	1207	1648	672	917
Pocahontas	21245	29001	14143	19307	148	202	3862	5272	1368	1867	795	1085	244	333	603	823	77	105
Polk	565747	772300	298784	407869	11082	15128	99107	135291	57003	77815	52007	70995	15567	21250	21837	29810	10360	14142
Pottawattamie	164695	224825	76910	104990	18063	24658	28934	39498	15180	20722	14978	20446	2437	3327	5579	7616	2574	3514
Poweshiek	32785	44755	20442	27905	300	410	6187	8446	2176	2970	1671	2281	711	971	776	1059	514	702
Ringgold	12883	17587	7260	9911	81	111	2234	3050	1565	2136	1059	1446	191	261	447	610	0	0
Sac	28531	38948	17773	24262	191	261	5062	6910	1782	2433	1140	1556	1669	2278	812	1108	96	131
Scott	254940	348018	130253	177808	4208	5744	41149	56172	26661	36395	32240	44011	9051	12355	5839	7971	5539	7561
Shelby	25847	35284	15342	20943	226	309	5672	7743	1714	2340	1395	1904	639	872	748	1021	105	143
Sioux	44344	60534	27578	37647	217	296	8122	11087	2666	3639	1991	2718	733	1001	1219	1664	1804	2463
Story	91084	124339	51180	69866	786	1073	13915	18995	4775	6518	4263	5819	1366	1865	2634	3596	12129	16557
Tama	35510	48475	21322	29107	440	601	6730	9187	3066	4185	2196	2998	655	894	944	1289	138	188
Taylor	16939	23123	10115	13808	124	169	3414	4660	1303	1779	1097	1498	220	300	607	829	56	76
Union	29622	40437	15160	20695	2069	2824	5012	6842	2756	3762	2585	3529	532	726	991	1353	511	698
Van Buren	17757	24240	10524	14366	205	280	3637	4965	1299	1773	1193	1629	429	586	405	553	61	83
Wapello	92492	126261	47021	64188	5163	7048	15602	21298	8509	11616	9173	12522	2237	3054	3584	4893	1186	1619
Warren	48903	66757	27027	36894	927	1265	8392	11456	5070	6921	3061	4179	1384	1889	2183	2980	842	1149
Washington	37651	51397	23195	31663	362	494	7240	9883	2779	3794	2065	2819	855	1167	993	1356	153	209
Wayne	17918	24460	9780	13351	555	758	3614	4933	1666	2274	1275	1740	272	371	698	953	55	75
Webster	93835	128094	54179	73960	2356	3216	14805	20210	8068	11014	7571	10335	1914	2613	2798	3820	2124	2899
Winnebago	24889	33976	16577	22629	148	202	4529	6183	1742	2378	969	1323	273	373	553	755	93	127
Winneshiek	33326	45493	19605	26763	318	434	5654	7718	2170	2962	1668	2277	1175	1604	1040	1420	1687	2303
Woodbury	211889	289249	109030	148837	5807	7927	37518	51216	25391	34661	18923	25832	5196	7093	5793	7908	4231	5776
Worth	17273	23579	10164	13875	994	1357	3172	4330	1033	1410	824	1125	583	796	436	595	63	86
Wright	33535	45779	20989	28652	1308	1786	5672	7743	2339	3193	1617	2207	626	855	865	1181	113	154
State of Iowa	5287638	7218142	2946730	4022574	128666	175642	914920	1248955	512392	699465	397100	542080	128001	174734	165131	225420	94698	129272

than \$20 million, although Adams was the only one of these below \$10 million. While all counties had larger amounts in 1998 than in 1988, payments in five counties did not keep up with inflation.

Retirement and disability payments other than OASDI totaled \$150 million in 1998. When adjusted for inflation, they decreased between each of the years noted in the tables.

### **Medical Payments**

Medical payments to individuals totaled \$3.2 billion in 1998, with more than half (55.3%, \$1.8 billion) related to Medicare and the remainder from other medical programs (Table 1). The two medical categories together accounted for 35.5 percent of government payments to individuals in Iowa in 1998. Ten years earlier, 27.0 percent of total transfer payments were from the two medical categories (Table 4). Thus, the percentage of total payments contributed by medical payments increased from 1988 to 1998 while it decreased for the retirement/disability payments. In addition, the two medical categories had the highest growth rates of any type of transfer payment, even after adjusting for inflation.

In 1998, Polk was the only county reporting at least \$100 million in either the Medicare or the other medical payment programs. Residents in Black Hawk, Linn, Scott, and Woodbury received at least \$50 million in each of them. All counties except Boone kept pace with inflation in both of these programs.

The four categories of retirement/disability and medical payments to individuals accounted for \$8.0 billion (or 87.4%) of the nearly \$9.2 billion of total transfer payments in 1998. For each year reported, at least 84 percent of transfer payments statewide came from these four categories as did more than three-fourths of the transfer payments to any county (Tables 1-4).

### **Income Maintenance, Unemployment Insurance, Veterans Benefits, and Other Payments**

Income maintenance benefit payments were nearly \$642 million in 1998; they represented 7.0 percent of total government payments to individuals that year. Payments of income maintenance benefits increased from \$397 million in 1988 to \$594 million in 1993 and \$634 million in 1997. The statewide percentage gain from 1988 to 1998 was 18.4 percent after inflation was taken into account.

As with previous categories, these payments were higher in counties with larger numbers of residents. Fourteen counties noted income maintenance payments of at least \$10 million in 1998, with Polk highest at \$81.5 million. Payments to residents of less than \$2 million occurred in 14 counties; Osceola and Worth were lowest at \$1.2 million. The dollar increases between 1988 and 1998 exceeded the effects of inflation in 97 counties.

Unemployment insurance benefit payments increased by nearly \$35 million when 1988 (\$128 million) and 1998 (\$163 million) were compared, although the 1993 and 1997 figures were larger than those at the beginning or the end of the period studied. Payments related to unemployment tend to change more dramatically than any of the other categories because they reflect annual changes in the economy. Although statewide unemployment benefits were higher in 1998 than in 1988, 13 counties received lower payments of this type in the later year. In only 53 counties did increases match or exceed inflation.

Benefit payments for veterans increased when 1988, 1993, and 1998 were compared. This category accounted for 2.2 percent (\$205 million) of all transfer payments in 1998. Eighty-six counties had higher veteran benefits in 1998 than in 1988, but in only 15 were payments larger after adjusting for inflation.

In each of the four years reported, the "other payments" category was the smallest, totaling \$142 million in 1998, an increase of \$47 million from 1988 (Tables 1-4). While Black Hawk, Johnson, Polk, and Story each received more than \$10 million in 1998, 33 counties had less than \$200,000 in these payments.

In 1998, unemployment insurance benefit payments, benefit payments for veterans, and "other payments" generally varied across counties in manners similar to those for other payment categories. Some exceptions were evident. For example, Johnson and Story had unusually high amounts in the "other payment" category; that's because of federal education and training assistance payments that were received by residents. And Marshall County was relatively high on benefits for veterans, in part because of a facility located in that county. Usually, population size was the key, as counties with larger populations received higher totals in each category.

**Note:** Information on other categories of income received by individuals is reported in the previous section in this volume ("Personal Income in Iowa's Counties: 1988-1998").

## Old-age, Survivors, and Disability Insurance (Social Security) Recipients and Benefits in Iowa's Counties for December: 1990-1998

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The Old-age, Survivors, and Disability Insurance program (OASDI), more commonly known as Social Security, provides monthly benefits for retired and disabled insured workers and their dependents, and to survivors of insured workers. To be eligible for OASDI benefits, a worker must have had a specified period of employment in which full OASDI taxes were paid. A worker becomes eligible for full retirement benefits at age 65. Survivor benefits are payable to dependents of deceased insured workers. Disability benefits are payable to insured workers under age 65 with a prolonged absence from work due to a disability.

Beneficiaries and benefits paid reported in this section reflect the numbers as of December for each of the years reported. With the exception of widows and widowers, benefits to spouses and children are not included in this section. The numbers reported here were made available by the U.S. Social Security Administration.

### **Total Recipients, Benefits, and Average Benefits**

In December of 1998, more than 537,000 Iowans received OASDI benefits (Table 1). That was 535 fewer than in 1997 but 13,156 more than were reported in 1990. Black Hawk, Linn, Polk, and Scott each had more than 20,000 OASDI recipients in 1998. Six others (Cerro Gordo, Clinton, Dubuque, Johnson, Pottawattamie, Woodbury) had at least 10,000. Fifteen counties had fewer than 2,000 beneficiaries with Adams and Ringgold the only two below 1,500 that month.

Forty-nine counties had fewer OASDI beneficiaries in 1998 than in 1990; Woodbury was the only county to decline by more than 300. Johnson, Linn, Polk, Pottawattamie, Scott, and Warren all had at least 1,000 more recipients of OASDI benefits in December of 1998 than eight years earlier. In percentage terms, Johnson, Linn, and Warren all experienced gains of 10 percent or more in their OASDI beneficiaries from 1990 to 1998. Only Taylor reported a decline of that magnitude.

OASDI benefits paid out in Iowa totaled nearly \$385 million in December of 1998. More than a third (34.4%) of those benefits were to residents of Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, and Woodbury, with each reporting more than \$10 million. At least \$5 million came to those living in another 11 counties. Adams and Ringgold were the only counties in which recipients obtained fewer than \$1 million in benefits.

The average OASDI benefit received per recipient (total benefits divided by total recipients) ranged from \$612 (Wayne) to \$775 (Johnson). Average benefits were at least \$700 in 45 counties; the state averaged \$716 in 1998.

### **Retired Worker Recipients, Benefits, and Average Benefits**

There were 346,700 retired workers receiving retirement benefits in 1998 (Table 2). Black Hawk, Dubuque, Linn, Polk, Scott, and Woodbury each reported more than 10,000 recipients, while Adams, Osceola, and Ringgold each had fewer than 1,000 in the last month of that year. There were nearly 14,100 more retired workers receiving benefits in 1998 than in 1990. One-third (35) of the counties reported lower numbers in 1998, while nine (Dubuque, Jasper, Johnson, Linn, Polk, Pottawattamie,

Table 1. Total OASDI Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998.

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Adair	1915	1911	1935	1900	1955	2010	1995	1985	1940	1272	1243	1230	1151	1153	1134	1095	1043	983	664	651	636	606	590	564	549	525	507
Adams	1192	1159	1176	1197	1155	1165	1160	1130	1185	748	716	702	688	649	623	602	565	567	628	617	597	575	562	535	519	500	478
Allamakee	3199	3237	3212	3238	3290	3285	3330	3280	3240	2034	2015	1943	1880	1845	1777	1744	1652	1556	636	623	605	581	561	541	524	504	480
Appanoose	3418	3461	3541	3567	3535	3590	3645	3590	3600	2195	2168	2145	2071	1990	1947	1905	1807	1737	642	627	606	581	563	542	523	503	483
Audubon	1869	1881	1867	1901	1950	1935	1945	1995	1950	1197	1183	1143	1125	1111	1060	1030	1016	962	640	629	612	592	570	548	530	509	493
Benton	4688	4651	4628	4579	4495	4445	4375	4335	4265	3310	3238	3130	2984	2821	2691	2559	2449	2312	706	696	676	652	628	605	585	565	542
Black Hawk	22831	22901	23102	23259	23265	23370	23430	23225	22870	16977	16699	16335	15852	15401	14933	14519	13948	13194	744	729	707	682	662	639	620	601	577
Boone	5291	5315	5306	5370	5445	5300	5240	5110	4925	3814	3750	3641	3548	3472	3247	3107	2949	2734	721	706	686	661	638	613	593	577	555
Bremer	4389	4340	4334	4283	4340	4320	4335	4320	4455	3187	3079	2982	2827	2763	2649	2556	2451	2425	726	709	688	660	637	613	590	567	544
Buchanan	3824	3829	3882	3892	3970	4015	4030	3965	4030	2702	2645	2599	2507	2459	2401	2330	2226	2164	707	691	670	644	619	598	578	561	537
Buena Vista	4174	4205	4298	4328	4370	4420	4480	4475	4470	2986	2942	2934	2861	2784	2728	2679	2585	2471	715	700	683	661	637	617	598	578	553
Butler	3673	3759	3781	3779	3805	3840	3915	3885	3765	2466	2464	2411	2338	2269	2209	2176	2078	1942	671	656	638	619	596	575	556	535	516
Calhoun	3039	3062	3139	3161	3255	3245	3245	3280	3145	2113	2090	2084	2032	2031	1961	1901	1849	1688	695	682	664	643	624	604	586	564	537
Carroll	4788	4847	4839	4863	4815	4785	4820	4770	4870	3283	3250	3154	3044	2905	2795	2715	2602	2552	686	671	652	626	603	584	563	545	524
Cass	3685	3737	3785	3837	3805	3675	3650	3645	3845	2529	2516	2476	2414	2323	2169	2097	2015	2027	686	674	654	629	611	590	575	553	527
Cedar	3505	3551	3581	3557	3525	3445	3385	3320	3220	2474	2454	2395	2305	2228	2092	1996	1889	1755	706	691	669	648	632	607	590	569	545
Cerro Gordo	10247	10294	10372	10414	10570	10505	10335	10235	10055	7483	7351	7210	6972	6860	6581	6283	6007	5674	730	714	695	669	649	626	608	587	564
Cherokee	3258	3270	3274	3265	3255	3185	3175	3135	3110	2322	2279	2230	2141	2071	1962	1897	1808	1721	713	697	681	656	636	616	597	577	553
Chickasaw	2954	2955	2955	2956	3030	3010	2890	2855	2855	1983	1942	1887	1812	1795	1709	1595	1521	1457	671	657	639	613	592	568	552	533	510
Clarke	1913	1923	1924	1881	1875	1880	1875	1860	1825	1211	1197	1165	1091	1056	1025	987	944	894	633	623	606	580	563	545	526	508	490
Clay	3726	3734	3772	3754	3735	3705	3610	3525	3590	2657	2613	2557	2451	2369	2259	2135	2011	1964	713	700	678	653	634	610	591	570	547
Clayton	4328	4353	4384	4397	4270	4265	4300	4300	4370	2728	2684	2622	2522	2376	2290	2247	2163	2093	630	616	598	574	556	537	523	503	479
Clinton	10144	10206	10289	10392	10455	10430	10315	10140	10245	7387	7259	7119	6965	6797	6560	6303	5982	5814	728	711	692	670	650	629	611	590	567
Crawford	3637	3616	3658	3667	3645	3630	3620	3630	3630	2391	2322	2286	2200	2121	2044	1965	1887	1812	657	642	625	600	582	563	543	520	499
Dallas	5526	5475	5469	5546	5650	5565	5470	5540	5375	4076	3950	3828	3739	3655	3473	3312	3184	2955	738	721	700	674	647	624	605	575	550
Davis	1666	1697	1698	1727	1735	1750	1790	1765	1815	1054	1042	1017	1008	989	954	938	898	892	633	615	599	584	570	545	524	509	491
Decatur	1929	1925	1950	2011	2005	1980	1975	1955	2030	1212	1171	1140	1129	1091	1031	1001	969	946	628	608	585	561	544	521	507	496	466
Delaware	3292	3266	3208	3174	3105	3080	3095	3050	3000	2134	2086	1993	1915	1815	1735	1685	1601	1512	648	639	621	603	585	563	544	525	504
Des Moines	8569	8543	8595	8675	8570	8530	8410	8325	8405	6444	6306	6173	5990	5721	5496	5260	5016	4841	752	738	718	690	668	644	625	603	576
Dickinson	4085	4057	3984	3959	3980	3965	3905	3855	3765	2961	2862	2733	2624	2548	2458	2338	2223	2073	725	706	686	663	640	620	599	577	551
Dubuque	16279	16219	16097	16132	16245	16180	15950	15710	15635	11808	11537	11154	10771	10507	10103	9669	9210	8782	725	711	693	668	647	624	606	586	562
Emmet	2525	2531	2586	2649	2645	2680	2725	2725	2675	1818	1791	1767	1744	1692	1644	1619	1557	1464	720	708	683	658	640	613	594	571	547
Fayette	4905	4955	5008	5011	5000	4995	4935	4900	4885	3253	3204	3140	3040	2918	2799	2668	2550	2447	663	647	627	607	584	560	541	520	501

Table 1. Total OASDI Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Floyd	4126	4108	4135	4156	4065	4050	4070	4080	4055	2902	2858	2794	2709	2559	2463	2404	2324	2220	703	696	676	652	630	608	591	570	547
Franklin	2652	2652	2694	2710	2700	2630	2655	2645	2560	1872	1843	1823	1775	1710	1611	1580	1517	1402	706	695	677	655	633	613	595	574	548
Fremont	1936	1973	2043	2051	2080	2105	2140	2160	2125	1344	1343	1350	1303	1277	1241	1213	1174	1099	694	682	661	635	614	590	567	544	517
Greene	2651	2681	2718	2768	2705	2730	2685	2645	2655	1878	1870	1841	1810	1720	1677	1604	1530	1480	708	698	677	654	636	614	597	578	557
Grundy	2868	2866	2891	2883	2755	2725	2765	2720	2750	2095	2040	1996	1926	1785	1712	1683	1606	1546	730	712	690	668	648	628	609	590	562
Guthrie	2959	2955	2975	2957	2925	2915	2990	2960	2900	2004	1957	1900	1822	1754	1694	1671	1595	1497	677	662	639	616	600	581	559	539	516
Hamilton	3613	3617	3630	3686	3810	3735	3625	3570	3540	2573	2529	2475	2417	2420	2299	2163	2067	1961	712	699	682	656	635	616	597	579	554
Hancock	2616	2603	2676	2691	2640	2605	2660	2665	2630	1855	1819	1810	1752	1672	1598	1580	1524	1440	709	700	676	651	633	613	594	572	548
Hardin	4602	4669	4766	4816	4855	4945	4960	4995	4890	3305	3289	3254	3155	3088	3033	2933	2853	2687	718	704	683	655	636	613	591	571	549
Harrison	3277	3322	3311	3375	3410	3370	3365	3345	3260	2210	2199	2145	2099	2033	1942	1886	1814	1689	674	662	648	622	596	576	560	542	518
Henry	3728	3757	3763	3791	3780	3795	3810	3820	3795	2666	2629	2565	2489	2407	2339	2260	2188	2086	715	700	682	657	637	616	593	573	550
Howard	2478	2513	2544	2690	2820	2860	2855	2865	2500	1558	1543	1515	1549	1558	1520	1468	1419	1180	629	615	596	576	552	531	514	495	477
Humboldt	2581	2628	2664	2689	2725	2720	2780	2810	2580	1892	1892	1860	1814	1783	1723	1704	1664	1470	733	719	698	675	654	633	613	592	570
Ida	1971	1996	1964	1945	1950	1955	1960	1960	1990	1342	1330	1285	1221	1182	1132	1100	1060	1023	681	667	654	628	606	579	561	541	514
Iowa	3193	3190	3231	3205	3165	3140	3155	3155	3125	2253	2213	2165	2077	1984	1907	1846	1776	1684	706	694	670	648	627	607	585	563	539
Jackson	4257	4242	4269	4277	4235	4200	4245	4145	4170	2827	2745	2696	2596	2482	2386	2325	2201	2105	664	647	632	607	586	568	548	531	505
Jasper	7383	7327	7333	7327	7285	7265	7225	7105	6905	5460	5319	5166	4973	4770	4584	4413	4187	3906	740	726	704	679	655	631	611	589	566
Jefferson	2692	2773	2782	2730	2650	2640	2760	2750	2755	1889	1910	1865	1782	1677	1611	1629	1574	1505	702	690	670	653	633	610	590	572	546
Johnson	10195	10023	9825	9708	9520	9295	9210	8920	8595	7905	7620	7250	6925	6552	6193	5921	5529	5113	775	760	738	713	688	666	643	620	595
Jones	3940	3935	3898	3874	3770	3735	3700	3665	3645	2719	2663	2572	2456	2323	2217	2123	2031	1929	690	677	660	634	616	594	574	554	529
Keokuk	2769	2775	2861	2985	2985	2975	3010	3020	3065	1840	1794	1790	1816	1754	1695	1655	1601	1571	664	646	626	608	588	570	550	530	513
Kossuth	4304	4294	4261	4262	4270	4195	4120	4075	4120	2988	2925	2819	2740	2659	2523	2397	2297	2216	694	682	662	643	623	601	582	564	538
Lee	7632	7656	7709	7738	7710	7735	7700	7635	7640	5496	5394	5271	5096	4938	4796	4636	4440	4255	720	705	684	659	640	620	602	582	557
Linn	29616	29354	29053	28629	28510	28145	27715	27140	26680	22706	22050	21183	20124	19378	18531	17695	16754	15760	767	751	729	703	680	658	638	617	591
Louisa	2152	2155	2147	2025	1960	2055	2175	2120	2040	1543	1522	1483	1349	1275	1296	1326	1240	1141	717	706	691	666	651	631	610	585	559
Lucas	2225	2261	2272	2285	2280	2265	2240	2230	2250	1462	1457	1425	1379	1328	1282	1229	1187	1130	657	645	627	604	582	566	549	532	502
Lyon	2572	2557	2557	2553	2570	2545	2510	2475	2495	1716	1677	1624	1567	1526	1443	1371	1315	1268	667	656	635	614	594	567	546	531	508
Madison	2572	2551	2579	2496	2520	2525	2495	2485	2485	1811	1751	1715	1604	1563	1506	1451	1390	1331	704	685	665	643	620	596	582	559	536
Mahaska	4571	4566	4586	4615	4645	4625	4620	4560	4510	3120	3061	3004	2911	2834	2716	2620	2509	2371	683	671	655	631	610	587	567	550	526
Marion	6042	6008	6041	6062	5975	5925	5815	5730	5690	4142	4034	3922	3806	3613	3458	3301	3119	2956	686	671	649	628	605	584	568	544	520
Marshall	8007	8023	8139	8152	8035	8020	7955	7895	8025	5907	5809	5728	5535	5294	5114	4916	4724	4601	738	724	704	679	659	638	618	598	573
Mills	2613	2623	2598	2577	2555	2525	2545	2565	2470	1781	1752	1686	1615	1555	1481	1441	1395	1292	682	667	649	627	609	587	566	544	523
Mitchell	2608	2620	2651	2500	2495	2485	2495	2490	2785	1796	1770	1741	1588	1531	1474	1437	1375	1463	689	676	657	635	614	593	576	552	525

Table 1. Total OASDI Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Monona	2702	2729	2685	2718	2740	2750	2785	2760	2725	1807	1788	1704	1664	1620	1568	1528	1465	1388	669	655	635	612	591	570	549	531	509
Monroe	1958	1896	1909	1939	1935	1940	1940	1945	1985	1259	1193	1167	1141	1107	1076	1046	1008	990	643	630	611	588	572	555	539	518	499
Montgomery	2961	2998	3063	3038	3060	3040	3010	3045	3005	2042	2018	2008	1937	1888	1819	1747	1709	1627	690	674	656	638	617	598	580	561	541
Muscatine	7014	7018	7028	7098	7185	7175	7075	7025	6830	5207	5108	4957	4829	4724	4575	4360	4187	3902	742	728	705	680	657	638	616	596	571
O'Brien	3768	3795	3776	3804	3825	3815	3900	3855	3795	2608	2572	2498	2434	2369	2276	2246	2143	2012	692	678	662	640	619	597	576	556	530
Osceola	1607	1650	1663	1686	1705	1690	1685	1675	1690	1111	1126	1102	1073	1041	1000	961	922	888	691	682	663	636	611	592	570	550	525
Page	4160	4234	4281	4338	4330	4335	4320	4310	4295	2850	2834	2779	2719	2641	2552	2475	2392	2286	685	669	649	627	610	589	573	555	532
Palo Alto	2533	2599	2665	2654	2705	2745	2790	2750	2685	1761	1763	1763	1700	1671	1623	1597	1530	1439	695	678	662	641	618	591	572	556	536
Plymouth	4875	4890	4924	4900	4785	4715	4720	4745	4655	3406	3334	3249	3123	2965	2820	2729	2630	2467	699	682	660	637	620	598	578	554	530
Pocahontas	2277	2254	2284	2320	2300	2295	2325	2320	2470	1602	1560	1544	1514	1452	1411	1377	1335	1356	704	692	676	653	631	615	592	575	549
Polk	52223	52080	51751	51657	51440	50975	50275	49230	48760	39801	38920	37540	36138	34797	33382	31944	30299	28833	762	747	725	700	676	655	635	615	591
Pottawattamie	14860	14853	14774	14845	14715	14505	14305	13895	13675	10361	10136	9825	9503	9129	8712	8321	7846	7390	697	683	665	640	620	601	582	565	540
Poweshiek	3829	3854	3852	3858	3850	3795	3750	3730	3735	2803	2753	2676	2579	2495	2369	2266	2184	2098	732	715	695	668	648	624	604	586	562
Ringgold	1445	1464	1504	1520	1530	1505	1495	1470	1425	887	882	874	859	836	784	758	715	661	614	602	581	565	546	521	507	486	464
Sac	3029	3040	3085	3082	3125	3135	3120	3100	3190	2106	2075	2038	1964	1912	1853	1787	1710	1697	695	683	661	637	612	591	573	552	532
Scott	24122	24046	24017	23932	23700	23460	22965	22755	22640	17788	17399	16866	16248	15616	14993	14259	13640	13014	737	724	702	679	659	639	621	599	575
Shelby	3106	3109	3115	3102	3050	3005	2880	2870	2975	2138	2092	2043	1958	1882	1786	1656	1599	1583	688	673	656	631	617	594	575	557	532
Sioux	5652	5658	5644	5684	5670	5585	5510	5430	5350	3872	3797	3683	3581	3457	3293	3148	2997	2829	685	671	653	630	610	590	571	552	529
Story	9290	9177	9131	9019	8885	8935	8915	8855	8640	7175	6945	6710	6381	6083	5902	5693	5470	5121	772	757	735	708	685	661	639	618	593
Tama	3989	3990	4004	4058	4185	4195	4165	4180	3980	2748	2686	2639	2580	2590	2489	2401	2319	2107	689	673	659	636	619	593	576	555	529
Taylor	1835	1869	1904	1905	2010	2015	2040	2090	2050	1143	1131	1121	1084	1108	1063	1040	1034	970	623	605	589	569	551	528	510	495	473
Union	2799	2831	2828	2915	2760	2820	2850	2855	3050	1814	1798	1751	1732	1586	1563	1543	1495	1525	648	634	619	594	575	554	541	524	500
Van Buren	1947	1912	1917	1990	1985	1980	1995	1980	1960	1250	1200	1169	1169	1130	1084	1063	1015	958	642	627	610	587	569	547	533	513	489
Wapello	8354	8502	8524	8466	8450	8455	8450	8415	8450	5792	5769	5650	5429	5257	5097	4944	4757	4589	693	679	663	641	622	603	585	565	543
Warren	5848	5726	5640	5593	5150	5075	4945	4835	4630	4304	4131	3926	3728	3330	3166	2963	2805	2555	736	722	696	667	647	624	599	580	552
Washington	4557	4522	4464	4569	4630	4655	4600	4465	4340	3208	3127	3000	2950	2884	2792	2675	2507	2358	704	692	672	646	623	600	582	561	543
Wayne	1928	1958	2025	2058	2095	2105	2135	2145	2130	1179	1162	1170	1143	1124	1102	1087	1053	1007	612	594	578	555	537	524	509	491	473
Webster	8961	8999	9114	9134	9120	9080	9035	8990	9045	6494	6400	6310	6097	5904	5704	5515	5328	5144	725	711	692	668	647	628	610	593	569
Winnebago	2733	2742	2732	2794	2865	2895	2855	2860	2810	1858	1822	1771	1745	1732	1697	1624	1573	1483	680	664	648	625	605	586	569	550	528
Winneshek	3850	3835	3793	3822	3800	3810	3755	3695	3755	2543	2472	2370	2300	2210	2143	2048	1942	1887	661	645	625	602	582	562	545	526	503
Woodbury	17909	18148	18457	18635	18930	19050	19105	19015	19000	12776	12678	12531	12193	11986	11695	11375	10946	10507	713	699	679	654	633	614	595	576	553
Worth	1787	1801	1818	1833	1805	1805	1835	1835	1850	1210	1195	1167	1140	1094	1051	1040	1002	965	677	664	642	622	606	582	567	546	522
Wright	3564	3554	3656	3666	3650	3665	3580	3535	3665	2565	2509	2508	2438	2356	2283	2148	2048	2043	720	706	686	665	645	623	600	579	557
State of Iowa	537341	539232	539094	533510	524185	537876	540171	536624	527881	384543	367160	342549	317686	288985	377036	354601	329845	303623	716	701	681	656	635	615	595	575	551



Table 2. OASDI Retired Worker Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998.

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Adair	1250	1245	1230	1190	1215	1250	1245	1220	1205	902	888	858	798	788	783	760	713	674	722	713	698	671	649	626	610	584	559
Adams	730	705	710	730	705	700	705	690	725	504	477	466	462	438	424	411	387	388	690	677	656	633	621	606	583	561	535
Allamakee	2125	2140	2120	2115	2120	2115	2140	2110	2050	1470	1455	1397	1344	1308	1256	1231	1168	1085	692	680	659	635	617	594	575	554	529
Appanoose	2055	2045	2080	2100	2095	2140	2185	2150	2160	1454	1419	1401	1366	1323	1301	1278	1213	1164	708	694	674	650	632	608	585	564	539
Audubon	1225	1215	1200	1235	1235	1230	1235	1285	1265	854	832	804	803	779	749	725	725	691	697	685	670	650	631	609	587	564	546
Benton	2910	2905	2855	2785	2720	2680	2645	2630	2605	2254	2219	2128	2009	1893	1802	1717	1647	1572	775	764	745	721	696	672	649	626	603
Black Hawk	14485	14465	14430	14450	14495	14545	14590	14495	14250	11877	11642	11309	10939	10641	10316	10033	9627	9073	820	805	784	757	734	709	688	664	637
Boone	3385	3400	3345	3390	3445	3315	3275	3295	3180	2653	2606	2497	2442	2400	2229	2129	2058	1913	784	766	746	720	697	672	650	625	602
Bremer	2810	2760	2720	2695	2720	2730	2750	2720	2805	2225	2135	2047	1954	1905	1834	1781	1697	1676	792	774	753	725	700	672	648	624	598
Buchanan	2325	2330	2350	2335	2375	2410	2405	2385	2425	1808	1773	1746	1669	1638	1605	1547	1486	1445	778	761	743	715	690	666	643	623	596
Buena Vista	2695	2710	2770	2795	2820	2860	2885	2855	2835	2123	2088	2082	2033	1977	1941	1904	1824	1732	788	770	752	727	701	679	660	639	611
Butler	2210	2220	2215	2185	2190	2215	2230	2210	2170	1640	1617	1578	1516	1466	1431	1399	1340	1260	742	728	712	694	669	646	627	606	581
Calhoun	1865	1865	1875	1880	1935	1925	1930	1955	1845	1406	1380	1356	1314	1317	1268	1234	1199	1079	754	740	723	699	681	659	639	613	585
Carroll	2970	2985	2965	2945	2885	2845	2850	2860	2935	2214	2182	2113	2026	1925	1838	1784	1731	1706	745	731	713	688	667	646	626	605	581
Cass	2340	2305	2315	2350	2330	2245	2240	2230	2360	1758	1707	1671	1635	1569	1462	1414	1357	1375	751	741	722	696	673	651	631	609	583
Cedar	2260	2255	2265	2255	2235	2180	2125	2075	2000	1743	1710	1667	1603	1553	1459	1385	1304	1208	771	758	736	711	695	669	652	628	604
Cerro Gordo	6685	6675	6675	6645	6730	6680	6550	6460	6330	5274	5169	5036	4846	4762	4569	4350	4145	3901	789	774	754	729	708	684	664	642	616
Cherokee	2055	2040	2025	2025	2010	1960	1965	1930	1900	1602	1567	1516	1464	1414	1336	1293	1225	1161	780	768	749	723	703	682	658	635	611
Chickasaw	1825	1820	1790	1780	1800	1795	1740	1720	1715	1368	1332	1276	1225	1202	1152	1080	1031	984	750	732	713	688	668	642	621	599	574
Clarke	1250	1255	1235	1200	1185	1195	1185	1180	1165	855	844	810	753	719	706	679	654	620	684	673	656	628	607	591	573	554	532
Clay	2420	2430	2410	2385	2360	2315	2265	2200	2245	1865	1840	1782	1702	1636	1552	1473	1380	1353	771	757	739	714	693	670	650	627	603
Clayton	2745	2720	2725	2700	2615	2615	2655	2655	2680	1887	1835	1789	1712	1610	1553	1527	1472	1427	687	675	657	634	616	594	575	554	532
Clinton	6600	6575	6550	6615	6665	6675	6615	6510	6610	5195	5074	4934	4828	4734	4576	4394	4177	4074	787	772	753	730	710	686	664	642	616
Crawford	2150	2145	2135	2135	2135	2130	2140	2145	2130	1553	1520	1473	1425	1389	1341	1299	1248	1191	722	709	690	667	651	630	607	582	559
Dallas	3670	3600	3540	3590	3650	3575	3535	3520	3415	2912	2797	2671	2612	2564	2427	2325	2220	2057	793	777	755	728	702	679	658	631	602
Davis	1035	1035	1035	1045	1070	1075	1085	1080	1105	715	698	679	668	663	642	624	605	596	691	674	656	639	620	597	575	560	539
Decatur	1250	1250	1255	1290	1295	1290	1290	1305	1355	839	819	797	791	767	735	713	697	691	671	655	635	613	592	570	553	534	510
Delaware	2010	1980	1920	1900	1860	1860	1855	1840	1790	1451	1407	1335	1281	1220	1176	1130	1077	1008	722	711	695	674	656	632	609	585	563
Des Moines	5815	5810	5770	5760	5710	5695	5635	5585	5610	4705	4604	4460	4303	4126	3978	3809	3647	3501	809	792	773	747	723	699	676	653	624
Dickinson	2750	2705	2650	2605	2615	2615	2570	2530	2490	2147	2054	1957	1860	1811	1754	1667	1582	1493	781	759	738	714	693	671	649	625	600
Dubuque	10620	10520	10355	10290	10380	10330	10175	10005	9930	8315	8083	7745	7435	7266	6990	6669	6347	6054	783	768	748	723	700	677	655	634	610
Emmet	1615	1625	1630	1640	1645	1640	1680	1660	1640	1266	1246	1214	1182	1153	1114	1104	1051	993	784	767	745	721	701	679	657	633	605
Fayette	3065	3070	3090	3085	3070	3030	2990	2955	2985	2224	2185	2136	2069	1994	1899	1811	1722	1664	726	712	691	671	650	627	606	583	557

Table 2. OASDI Retired Worker Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Floyd	2505	2505	2510	2520	2480	2465	2485	2485	2480	1955	1929	1888	1824	1736	1669	1636	1577	1506	780	770	752	724	700	677	658	635	607
Franklin	1660	1640	1660	1665	1650	1600	1605	1580	1535	1277	1246	1234	1197	1153	1084	1059	1008	937	769	760	743	719	699	678	660	638	610
Fremont	1265	1285	1320	1310	1320	1335	1365	1380	1360	955	954	950	914	888	869	856	841	791	755	742	720	698	673	651	627	609	582
Greene	1720	1740	1735	1775	1750	1770	1735	1680	1680	1325	1317	1279	1261	1200	1181	1125	1059	1021	770	757	737	710	686	667	648	630	608
Grundy	1865	1840	1835	1830	1745	1730	1735	1685	1690	1468	1423	1383	1334	1235	1187	1161	1093	1051	787	773	754	729	708	686	669	649	622
Guthrie	1950	1935	1925	1905	1885	1880	1920	1900	1820	1432	1383	1336	1282	1228	1183	1166	1112	1025	734	715	694	673	651	629	607	585	563
Hamilton	2415	2405	2395	2430	2505	2475	2375	2335	2295	1865	1827	1776	1741	1743	1664	1551	1473	1387	772	760	742	716	696	672	653	631	604
Hancock	1630	1620	1635	1610	1555	1540	1580	1595	1585	1258	1227	1211	1159	1099	1061	1051	1022	970	772	757	741	720	707	689	665	641	612
Hardin	2960	3005	3005	3025	3070	3130	3110	3100	3055	2304	2296	2242	2172	2135	2102	2027	1958	1851	778	764	746	718	695	672	652	632	606
Harrison	2020	2040	2020	2045	2010	2005	2010	2010	1970	1501	1482	1434	1402	1333	1290	1253	1205	1129	743	726	710	686	663	643	623	600	573
Henry	2475	2480	2465	2480	2460	2480	2480	2485	2495	1913	1886	1824	1768	1695	1657	1602	1550	1492	773	760	740	713	689	668	646	624	598
Howard	1510	1520	1545	1635	1710	1745	1745	1745	1510	1053	1037	1025	1055	1065	1045	1009	974	807	697	682	663	645	623	599	578	558	534
Humboldt	1610	1635	1635	1640	1670	1680	1715	1735	1620	1286	1288	1257	1220	1204	1166	1156	1134	1019	799	788	769	744	721	694	674	654	629
Ida	1215	1230	1200	1180	1175	1165	1155	1155	1170	911	904	864	818	787	751	718	690	667	750	735	720	693	670	645	622	597	570
Iowa	2185	2165	2145	2135	2080	2060	2065	2075	2045	1646	1606	1549	1493	1412	1357	1313	1266	1198	753	742	722	699	679	659	636	610	586
Jackson	2680	2655	2640	2635	2585	2560	2575	2540	2540	1930	1873	1824	1759	1671	1602	1558	1482	1416	720	705	691	668	646	626	605	583	557
Jasper	4925	4885	4815	4775	4690	4675	4615	4530	4410	3936	3838	3683	3528	3360	3240	3104	2940	2752	799	786	765	739	716	693	673	649	624
Jefferson	1780	1815	1815	1770	1730	1725	1795	1815	1805	1349	1354	1320	1257	1196	1154	1169	1139	1076	758	746	727	710	691	669	651	628	596
Johnson	6685	6530	6355	6265	6150	6080	6000	5790	5640	5700	5465	5160	4933	4671	4465	4261	3966	3695	853	837	812	787	760	734	710	685	655
Jones	2505	2490	2445	2405	2365	2360	2330	2295	2280	1904	1866	1791	1704	1619	1562	1492	1414	1342	760	749	733	709	685	662	640	616	589
Keokuk	1705	1675	1700	1780	1770	1770	1805	1820	1860	1244	1197	1179	1211	1165	1128	1111	1079	1060	730	715	694	680	658	637	616	593	570
Kossuth	2670	2635	2565	2575	2570	2505	2460	2435	2440	2024	1964	1870	1825	1774	1675	1590	1521	1461	758	745	729	709	690	669	646	625	599
Lee	4900	4930	4935	4955	4990	5010	5035	5000	5015	3808	3756	3652	3536	3458	3366	3272	3143	3022	777	762	740	714	693	672	650	629	603
Linn	20240	20010	19595	19255	19085	18840	18590	18310	17965	16784	16260	15481	14709	14136	13501	12899	12285	11531	829	813	790	764	741	717	694	671	642
Louisa	1370	1385	1375	1290	1250	1320	1415	1385	1325	1059	1059	1028	932	883	904	935	883	812	773	765	748	722	706	685	661	638	613
Lucas	1425	1440	1435	1455	1465	1495	1475	1445	1445	1016	1009	974	953	924	915	876	831	791	713	701	679	655	631	612	594	575	547
Lyon	1590	1570	1550	1525	1535	1505	1455	1430	1425	1161	1124	1085	1035	1012	959	899	856	822	730	716	700	679	659	637	618	599	577
Madison	1665	1635	1635	1580	1600	1615	1625	1615	1630	1250	1204	1175	1094	1075	1048	1028	988	955	751	736	719	692	672	649	633	612	586
Mahaska	2970	2975	2975	2985	3005	2990	2975	2920	2910	2212	2169	2118	2058	2007	1937	1859	1769	1684	745	729	712	689	668	648	625	606	579
Marion	3835	3755	3720	3735	3680	3670	3595	3520	3455	2830	2715	2625	2542	2418	2326	2214	2082	1960	738	723	706	681	657	634	616	591	567
Marshall	5340	5380	5445	5400	5340	5350	5310	5290	5370	4273	4219	4155	3988	3830	3715	3566	3425	3329	800	784	763	739	717	694	672	647	620
Mills	1480	1465	1460	1435	1415	1390	1405	1405	1330	1141	1115	1073	1019	986	937	916	885	807	771	761	735	710	697	674	652	630	607
Mitchell	1685	1655	1665	1585	1575	1580	1585	1570	1765	1264	1129	1206	1111	1069	1034	1003	960	1024	750	682	724	701	679	654	633	611	580

Table 2. OASDI Retired Worker Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Monona	1640	1650	1630	1630	1635	1645	1640	1635	1620	1192	1170	1120	1091	1062	1029	996	962	914	727	709	687	669	650	626	607	588	564
Monroe	1225	1175	1180	1185	1180	1195	1210	1210	1245	857	803	786	767	749	734	717	692	684	700	683	666	647	635	614	593	572	549
Montgomery	1915	1930	1970	1990	2005	2010	2000	2010	1985	1452	1431	1424	1394	1359	1321	1266	1230	1166	758	741	723	701	678	657	633	612	587
Muscatine	4535	4495	4480	4530	4590	4600	4545	4545	4440	3656	3560	3455	3380	3306	3212	3067	2958	2766	806	792	771	746	720	698	675	651	623
O'Brien	2275	2285	2250	2260	2275	2270	2310	2275	2240	1730	1704	1647	1600	1563	1508	1484	1409	1323	760	746	732	708	687	664	642	619	591
Osceola	965	980	980	995	990	985	970	970	980	736	740	718	706	674	652	623	601	580	763	755	733	710	681	662	642	620	592
Page	2775	2795	2800	2830	2840	2870	2845	2845	2820	2062	2038	1988	1950	1902	1866	1795	1742	1657	743	729	710	689	670	650	631	612	588
Palo Alto	1555	1585	1595	1600	1605	1610	1625	1605	1565	1183	1184	1170	1132	1107	1071	1049	999	937	761	747	734	708	690	665	646	622	599
Plymouth	3080	3065	3050	2990	2935	2890	2880	2855	2810	2356	2300	2228	2116	2022	1918	1850	1771	1672	765	750	730	708	689	664	642	620	595
Pocahontas	1415	1415	1420	1445	1410	1400	1435	1435	1485	1079	1059	1040	1027	976	945	938	908	910	763	748	732	711	692	675	654	633	613
Polk	34900	34750	34185	34060	33910	33780	33455	33005	32665	28879	28195	27046	26056	25146	24207	23215	22114	21008	827	811	791	765	742	717	694	670	643
Pottawattamie	9260	9260	9185	9130	9030	8945	8890	8710	8555	7094	6951	6717	6447	6187	5915	5676	5375	5046	766	751	731	706	685	661	638	617	590
Poweshiek	2630	2620	2610	2610	2605	2560	2500	2495	2500	2070	2017	1958	1888	1833	1739	1650	1587	1528	787	770	750	723	704	679	660	636	611
Ringgold	955	965	965	980	975	955	940	915	875	626	627	607	599	580	548	525	493	451	655	650	629	611	595	574	559	539	515
Sac	1930	1945	1955	1950	1960	1955	1950	1930	1995	1472	1455	1423	1368	1328	1280	1235	1182	1169	763	748	728	702	678	655	633	612	586
Scott	15375	15305	15075	15010	14885	14860	14635	14545	14530	12387	12118	11605	11180	10751	10370	9922	9526	9101	806	792	770	745	722	698	678	655	626
Shelby	2000	1985	1970	1925	1895	1855	1785	1760	1820	1497	1461	1423	1343	1291	1224	1139	1088	1071	749	736	722	698	681	660	638	618	588
Sioux	3475	3465	3410	3405	3350	3260	3180	3125	3060	2643	2594	2486	2398	2285	2161	2045	1948	1830	761	749	729	704	682	663	643	623	598
Story	6470	6390	6290	6175	6055	6085	6060	6010	5905	5357	5181	4957	4694	4481	4346	4198	4027	3788	828	811	788	760	740	714	693	670	641
Tama	2525	2500	2475	2510	2575	2595	2565	2565	2430	1897	1834	1780	1745	1745	1696	1629	1570	1419	751	734	719	695	678	654	635	612	584
Taylor	1160	1175	1185	1200	1285	1280	1285	1320	1275	786	779	765	754	780	748	729	723	670	678	663	646	628	607	584	567	548	525
Union	1760	1765	1750	1785	1685	1705	1750	1775	1890	1253	1237	1198	1184	1076	1054	1052	1026	1048	712	701	685	663	639	618	601	578	554
Van Buren	1265	1245	1230	1270	1265	1265	1275	1270	1240	885	851	816	815	789	761	747	713	664	700	684	663	642	624	602	586	561	535
Wapello	5070	5150	5120	5105	5115	5145	5155	5120	5170	3885	3867	3752	3618	3519	3426	3332	3196	3111	766	751	733	709	688	666	646	624	602
Warren	3930	3845	3750	3680	3390	3335	3205	3135	3025	3092	2968	2800	2649	2377	2259	2095	1974	1813	787	772	747	720	701	677	654	630	599
Washington	3025	2965	2910	2950	2960	2965	2930	2865	2770	2310	2229	2146	2097	2037	1965	1883	1767	1658	764	752	737	711	688	663	643	617	599
Wayne	1200	1205	1245	1250	1275	1315	1335	1340	1325	798	781	795	773	766	766	756	732	696	665	648	639	618	601	583	566	546	525
Webster	5770	5750	5805	5820	5775	5770	5770	5750	5790	4594	4498	4432	4294	4130	3989	3873	3739	3613	796	782	763	738	715	691	671	650	624
Winnebago	1825	1810	1800	1835	1885	1915	1900	1885	1860	1351	1313	1271	1244	1235	1217	1171	1124	1069	740	725	706	678	655	636	616	596	575
Winneshiek	2505	2500	2460	2460	2440	2450	2415	2350	2400	1809	1761	1684	1622	1563	1522	1449	1362	1330	722	704	685	659	641	621	600	580	554
Woodbury	11275	11425	11520	11675	11845	11995	11990	11960	12020	8881	8824	8660	8471	8340	8167	7910	7617	7339	788	772	752	726	704	681	660	637	611
Worth	1140	1155	1150	1170	1145	1155	1150	1155	1165	840	835	806	789	754	729	706	685	663	737	723	701	674	659	631	614	593	569
Wright	2255	2200	2260	2260	2250	2270	2240	2225	2270	1770	1706	1714	1656	1603	1557	1477	1415	1392	785	775	758	733	712	686	659	636	613
State of Iowa	346715	343050	341222	338329	332664	270574	255797	238447	221377	201406	345506	342370	340257	335112	264515	246739	229893	211680	780	766	746	721	699	676	654	632	605

Table 3. OASDI Disabled Worker Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998.

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)									
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90	
Adair	80	75	80	60	65	60	55	60	60	57	51	53	38	42	36	32	35	31	705	680	663	633	646	600	582	583	517	
Adams	85	75	65	70	60	60	55	50	50	53	46	40	42	35	33	28	26	25	665	613	615	600	583	550	509	520	500	
Allamakee	170	160	155	150	155	150	140	130	125	118	111	104	97	95	88	80	75	70	661	694	671	647	613	587	571	577	560	
Appanoose	320	310	305	285	250	235	230	220	220	222	209	198	176	149	137	130	123	118	649	674	649	618	596	583	565	559	536	
Audubon	90	95	90	85	90	80	80	75	70	62	65	61	54	56	44	42	40	37	680	684	678	635	622	550	525	533	529	
Benton	350	315	315	310	270	265	235	230	205	256	230	224	212	178	169	143	137	115	752	730	711	684	659	638	609	596	561	
Black Hawk	2335	2275	2270	2280	2195	2135	2075	2025	1980	1645	1591	1549	1510	1421	1340	1277	1228	1168	783	699	682	662	647	628	615	606	590	
Boone	420	405	405	385	375	345	310	300	265	303	288	289	263	246	222	194	185	158	781	711	714	683	656	643	626	617	596	
Bremer	235	215	215	200	190	170	170	160	170	174	163	156	134	125	112	107	102	100	760	758	726	670	658	659	629	638	588	
Buchanan	275	260	270	265	265	250	260	250	235	205	189	193	190	179	165	169	156	142	742	727	715	717	675	660	650	624	604	
Buena Vista	235	205	195	185	180	180	185	190	200	157	137	127	116	113	112	110	110	112	779	668	651	627	628	622	595	579	560	
Butler	195	200	195	180	185	180	180	155	150	136	139	133	121	125	116	112	94	84	721	695	682	672	676	644	622	606	560	
Calhoun	165	170	175	165	150	140	130	125	115	118	122	124	114	100	93	83	80	70	771	718	709	691	667	664	638	640	609	
Carroll	260	260	240	250	235	230	230	210	215	177	175	158	163	146	139	135	120	115	752	673	658	652	621	604	587	571	535	
Cass	260	260	255	245	235	210	185	185	170	168	172	163	148	140	122	105	98	87	744	662	639	604	596	581	568	530	512	
Cedar	195	200	190	190	170	160	140	135	130	145	149	135	133	117	107	90	85	79	748	745	711	700	688	669	643	630	608	
Cerro Gordo	870	865	870	860	845	805	790	745	710	598	587	584	553	532	493	476	435	406	781	679	671	643	630	612	603	584	572	
Cherokee	230	235	225	210	220	220	210	205	205	162	164	156	142	142	135	124	119	114	777	698	693	676	645	614	590	580	556	
Chickasaw	170	165	170	160	160	150	135	130	125	121	115	118	110	106	95	82	77	71	685	697	694	688	663	633	607	592	568	
Clarke	130	130	130	125	125	110	110	110	100	89	91	87	85	84	70	69	65	57	680	700	669	680	672	636	627	591	570	
Clay	285	275	275	270	250	255	220	225	215	194	180	176	164	149	146	125	126	118	751	655	640	607	596	573	568	560	549	
Clayton	255	270	255	245	225	220	195	190	190	174	185	167	153	138	132	113	107	105	667	685	655	624	613	600	579	563	553	
Clinton	885	870	845	845	790	745	685	645	615	636	622	599	585	532	486	437	402	373	778	715	709	692	673	652	638	623	607	
Crawford	315	280	295	285	255	230	210	210	210	221	191	196	182	159	141	123	118	116	699	682	664	639	624	613	586	562	552	
Dallas	415	400	400	385	355	345	335	300	280	319	303	301	285	252	231	219	191	174	767	758	753	740	710	670	654	637	621	
Davis	135	130	120	120	115	105	110	105	110	92	88	81	76	75	66	67	61	62	673	677	675	633	652	629	609	581	564	
Decatur	150	140	140	130	130	115	110	95	90	105	95	89	79	78	66	59	52	45	681	679	636	608	600	574	536	547	500	
Delaware	215	210	210	195	175	170	165	160	165	142	139	135	125	107	98	95	93	92	703	662	643	641	611	576	576	581	558	
Des Moines	755	725	700	715	680	645	585	535	555	545	517	489	479	443	410	366	330	328	793	713	699	670	651	636	626	617	591	
Dickinson	235	230	210	195	190	175	155	150	135	168	165	145	132	125	114	97	92	79	788	717	690	677	658	651	626	613	585	
Dubuque	1285	1270	1240	1205	1175	1135	1080	1040	1005	935	912	882	843	803	745	700	658	619	778	718	711	700	683	656	648	633	616	
Emmet	170	155	160	165	160	170	150	150	135	118	107	109	109	102	103	93	92	80	755	690	681	661	638	606	620	613	593	
Fayette	325	310	300	275	260	260	245	230	215	218	208	199	178	161	154	139	127	117	701	671	663	647	619	592	567	552	544	

Table 3. OASDI Disabled Worker Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Floyd	375	345	315	290	255	240	225	225	210	263	242	215	195	165	149	138	136	123	728	701	683	672	647	621	613	604	586
Franklin	155	150	145	135	125	120	120	105	110	111	106	97	91	83	77	74	62	62	770	707	669	674	664	642	617	590	564
Fremont	160	150	150	150	150	145	140	125	110	110	102	103	97	95	88	82	70	55	721	680	687	647	633	607	586	560	500
Greene	180	170	170	165	140	130	120	120	115	118	112	110	106	85	76	69	69	65	775	659	647	642	607	585	575	575	565
Grundy	155	140	135	130	125	110	105	100	95	120	106	98	91	85	74	67	62	56	810	757	726	700	680	673	638	620	589
Guthrie	195	175	170	165	150	145	140	125	130	141	123	115	105	95	87	81	74	74	703	703	676	636	633	600	579	592	569
Hamilton	240	235	215	215	220	190	180	175	180	158	153	136	130	131	112	99	98	98	758	651	633	605	595	589	550	560	544
Hancock	145	135	145	145	130	115	110	100	95	103	96	98	95	81	71	65	57	50	790	711	676	655	623	617	591	570	526
Hardin	265	245	260	255	235	215	200	210	190	189	173	182	170	149	134	121	124	107	779	706	700	667	634	623	605	590	563
Harrison	255	235	235	230	235	200	200	190	170	175	159	157	154	148	124	122	116	94	715	677	668	670	630	620	610	611	553
Henry	275	275	270	245	235	225	215	220	185	189	185	178	156	146	137	126	123	98	770	673	659	637	621	609	586	559	530
Howard	130	125	115	120	120	115	110	110	95	86	82	74	75	70	65	60	60	51	655	656	643	625	583	565	545	545	537
Humboldt	170	160	150	145	135	125	115	100	95	119	111	100	94	84	73	68	58	53	797	694	667	648	622	584	591	580	558
Ida	105	100	95	85	80	75	75	75	65	73	70	62	54	48	42	41	41	34	743	700	653	635	600	560	547	547	523
Iowa	180	175	175	165	160	140	135	130	130	129	124	122	110	105	89	81	76	72	741	709	697	667	656	636	600	585	554
Jackson	305	280	280	275	270	260	260	235	235	222	198	197	186	179	170	166	146	140	698	707	704	676	663	654	638	621	596
Jasper	570	540	525	525	530	495	455	415	375	411	379	364	347	333	297	271	246	219	787	702	693	661	628	600	596	593	584
Jefferson	230	225	220	210	190	180	185	165	170	152	147	142	134	115	106	106	91	94	745	653	645	638	605	589	573	552	553
Johnson	1105	1060	1020	950	920	825	795	730	660	774	729	683	609	572	496	460	411	360	809	688	670	641	622	601	579	563	545
Jones	250	235	230	205	185	170	155	150	160	186	170	161	138	123	105	92	91	96	696	723	700	673	665	618	594	607	600
Keokuk	180	190	195	180	175	175	155	140	145	125	130	131	119	115	111	95	81	82	691	684	672	661	657	634	613	579	566
Kossuth	240	240	230	215	200	190	160	150	130	163	161	152	138	122	110	91	82	70	768	671	661	642	610	579	569	547	538
Lee	695	655	640	625	565	545	505	455	445	509	471	449	426	370	345	322	286	264	765	719	702	682	655	633	638	629	593
Linn	2525	2415	2365	2280	2245	2125	2025	1850	1760	1834	1735	1669	1558	1493	1381	1286	1138	1043	794	718	706	683	665	650	635	615	593
Louisa	190	175	175	160	135	125	140	115	115	144	131	131	116	95	88	93	73	70	774	749	749	725	704	704	664	635	609
Lucas	185	185	185	180	175	150	125	130	125	125	124	125	116	109	92	77	80	70	680	670	676	644	623	613	616	615	560
Lyon	120	115	115	110	110	100	90	95	85	88	84	81	73	72	61	52	52	45	731	730	704	664	655	610	578	547	529
Madison	185	170	165	155	140	125	105	105	90	143	127	121	110	97	82	66	65	52	751	747	733	710	693	656	629	619	578
Mahaska	350	320	310	305	285	265	270	255	240	244	224	214	201	179	159	157	146	132	744	700	690	659	628	600	581	573	550
Marion	535	555	535	530	505	475	445	425	405	401	415	389	377	346	312	286	263	244	722	748	727	711	685	657	643	619	602
Marshall	685	650	640	625	570	545	510	475	460	491	456	443	421	369	341	317	289	279	797	702	692	674	647	626	622	608	607
Mills	205	200	180	175	170	170	170	165	145	149	143	127	118	106	101	99	91	77	745	715	706	674	624	594	582	552	531
Mitchell	145	140	130	105	105	95	100	100	105	103	98	93	72	72	60	64	60	60	732	700	715	686	686	632	640	600	571

Table 3. OASDI Disabled Worker Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Monona	165	155	140	140	135	140	140	130	120	113	103	95	91	85	84	82	74	65	717	665	679	650	630	600	586	569	542
Monroe	155	155	155	160	145	135	125	120	120	116	112	110	106	94	85	78	71	72	650	723	710	663	648	630	624	592	600
Montgomery	250	250	245	230	205	185	175	170	160	163	162	159	144	129	109	100	100	93	761	648	649	626	629	589	571	588	581
Muscatine	670	655	645	620	590	565	510	480	450	503	486	463	434	404	373	327	295	266	782	742	718	700	685	660	641	615	591
O'Brien	200	205	195	185	185	180	165	150	145	135	140	127	121	116	104	92	83	80	759	683	651	654	627	578	558	553	552
Osceola	85	95	85	90	95	95	80	85	80	58	65	58	58	61	58	48	49	46	755	684	682	644	642	611	600	576	575
Page	295	285	285	290	270	245	240	230	215	199	187	180	174	157	135	133	121	107	738	656	632	600	581	551	554	526	498
Palo Alto	155	160	165	170	170	175	170	165	140	100	102	105	105	101	100	95	93	77	743	638	636	618	594	571	559	564	550
Plymouth	325	310	310	280	255	255	245	225	210	222	211	203	178	155	152	141	129	114	749	681	655	636	608	596	576	573	543
Pocahontas	125	120	115	105	105	95	90	80	85	90	82	81	70	68	61	54	47	46	761	683	704	667	648	642	600	588	541
Polk	5440	5300	5195	5095	4840	4490	4225	3900	3720	3981	3837	3655	3470	3177	2879	2644	2379	2193	801	724	704	681	656	641	626	610	590
Pottawattamie	1730	1680	1575	1555	1505	1425	1325	1215	1180	1186	1134	1049	1012	952	882	801	727	684	746	675	666	651	633	619	605	598	580
Poweshiek	230	220	225	220	200	185	180	180	165	168	158	158	144	129	112	107	104	92	755	718	702	655	645	605	594	578	558
Ringgold	95	90	95	95	95	85	80	70	75	67	61	65	63	61	52	46	40	40	656	678	684	663	642	612	575	571	533
Sac	155	155	160	155	150	150	145	145	135	105	103	103	96	95	91	87	83	76	738	665	644	619	633	607	600	572	563
Scott	2405	2330	2335	2230	2150	2005	1860	1745	1635	1769	1684	1656	1546	1451	1323	1185	1084	984	784	723	709	693	675	660	637	621	602
Shelby	165	155	140	130	125	120	105	105	95	111	99	88	82	76	70	60	58	53	760	639	629	631	608	583	571	552	558
Sioux	280	270	265	270	270	245	255	225	210	185	180	171	169	163	142	138	119	113	746	667	645	626	604	580	541	529	538
Story	650	620	595	575	540	545	510	465	415	449	426	399	377	338	322	296	265	230	840	687	671	656	626	591	580	570	554
Tama	205	200	195	175	180	165	155	150	135	149	140	138	119	120	102	94	89	81	738	700	708	680	667	618	606	593	600
Taylor	125	120	120	100	95	90	90	90	95	87	82	83	64	60	54	50	53	53	651	683	692	640	632	600	556	589	558
Union	250	235	230	230	215	200	180	170	185	162	151	140	136	124	110	98	91	95	696	643	609	591	577	550	544	535	514
Van Buren	130	120	105	110	105	105	95	80	75	94	86	75	75	67	64	56	46	43	653	717	714	682	638	610	589	575	573
Wapello	865	865	855	820	795	750	725	680	640	603	597	578	544	509	475	449	407	366	732	690	676	663	640	633	619	599	572
Warren	560	510	495	485	415	380	360	330	285	438	400	377	351	290	253	235	216	178	760	784	762	724	699	666	653	655	625
Washington	290	275	260	260	245	240	225	215	200	202	191	174	168	152	147	136	125	116	769	695	669	646	620	613	604	581	580
Wayne	130	125	115	110	105	95	95	90	95	91	88	78	73	66	55	55	51	51	668	704	678	664	629	579	579	567	537
Webster	820	790	770	750	730	710	670	650	620	565	538	512	489	468	443	405	388	359	778	681	665	652	641	624	604	597	579
Winnebago	135	130	130	120	120	120	100	100	90	96	89	86	77	77	72	59	57	49	716	685	662	642	642	600	590	570	544
Winneshiek	215	195	190	185	180	165	160	155	140	139	124	121	116	108	95	92	87	78	697	636	637	627	600	576	575	561	557
Woodbury	1835	1780	1785	1730	1685	1635	1590	1545	1480	1241	1193	1174	1109	1041	982	944	893	827	758	670	658	641	618	601	594	578	559
Worth	125	115	110	100	95	95	100	95	90	91	80	74	65	62	58	61	55	49	706	696	673	650	653	611	610	579	544
Wright	195	195	195	185	160	170	150	135	140	132	124	121	116	99	101	89	78	79	783	636	621	627	619	594	593	578	564
State of Iowa	43645	42170	41312	40098	38313	36209	34317	32327	30897	30998	29594	28381	26720	24751	22702	21012	19341	17872	757	702	687	666	646	627	612	598	578

Table 4. OASDI Survivor Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998.

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Adair	295	290	310	325	340	340	340	340	325	208	201	206	206	212	202	195	189	176	705	693	665	634	624	594	574	556	542
Adams	185	180	185	180	175	165	175	175	185	123	120	119	112	107	95	97	91	94	665	667	643	622	611	576	554	520	508
Allamakee	410	420	435	450	460	470	480	490	495	271	268	268	267	265	262	258	252	242	661	638	616	593	576	557	538	514	489
Appanoose	510	550	575	565	580	585	590	575	575	331	346	347	329	324	319	308	289	275	649	629	603	582	559	545	522	503	478
Audubon	250	260	260	260	275	280	285	285	275	170	173	167	162	167	165	162	155	140	680	665	642	623	607	589	568	544	509
Benton	665	670	685	710	720	715	720	710	690	500	489	483	477	466	450	437	414	385	752	730	705	672	647	629	607	583	558
Black Hawk	2725	2810	2895	2925	2985	3040	3045	3040	3045	2135	2146	2147	2083	2047	2005	1939	1872	1796	783	764	742	712	686	660	637	616	590
Boone	635	645	660	685	695	690	705	715	695	496	494	485	487	472	448	439	428	398	781	766	735	711	679	649	623	599	573
Bremer	670	680	710	705	705	715	685	695	725	509	503	507	482	464	454	420	406	404	760	740	714	684	658	635	613	584	557
Buchanan	585	590	590	595	610	615	625	615	610	434	428	410	397	391	381	374	354	339	742	725	695	667	641	620	598	576	556
Buena Vista	560	590	620	630	625	620	635	645	665	436	449	456	446	423	406	398	387	377	779	761	735	708	677	655	627	600	567
Butler	610	635	640	670	670	675	705	700	685	440	447	433	434	418	406	409	388	363	721	704	677	648	624	601	580	554	530
Calhoun	510	510	540	565	595	605	605	615	620	393	383	393	396	398	390	376	367	354	771	751	728	701	669	645	621	597	571
Carroll	705	730	750	765	775	795	795	775	800	530	535	534	519	502	498	478	446	440	752	733	712	678	648	626	601	575	550
Cass	540	580	600	605	615	595	615	625	665	402	423	423	412	401	375	377	367	368	744	729	705	681	652	630	613	587	553
Cedar	485	500	515	515	530	515	530	515	520	363	360	359	344	342	319	319	297	286	748	720	697	668	645	619	602	577	550
Cerro Gordo	1315	1310	1360	1395	1430	1460	1435	1470	1475	1027	997	999	985	971	955	906	894	855	781	761	735	706	679	654	631	608	580
Cherokee	440	450	470	485	475	470	480	485	485	342	337	340	334	316	306	303	294	279	777	749	723	689	665	651	631	606	575
Chickasaw	435	445	455	450	480	480	480	465	480	298	295	291	279	287	275	264	246	244	685	663	640	620	598	573	550	529	508
Clarke	225	225	235	240	255	260	260	255	265	153	149	150	147	152	148	142	133	133	680	662	638	613	596	569	546	522	502
Clay	510	505	530	540	580	580	570	565	560	383	377	379	375	387	371	351	330	311	751	747	715	694	667	640	616	584	555
Clayton	625	625	665	690	675	685	715	705	695	417	408	416	413	389	382	386	362	336	667	653	626	599	576	558	540	513	483
Clinton	1270	1305	1370	1385	1405	1430	1465	1460	1470	988	986	1001	975	952	932	924	883	845	778	756	731	704	678	652	631	605	575
Crawford	555	560	585	575	575	595	600	590	585	388	382	387	361	347	343	334	317	301	699	682	662	628	603	576	557	537	515
Dallas	670	700	735	750	775	785	755	730	730	514	520	535	522	517	502	468	435	417	767	743	728	696	667	639	620	596	571
Davis	245	250	265	280	265	270	285	265	280	165	166	171	176	163	159	161	146	147	673	664	645	629	615	589	565	551	525
Decatur	260	260	270	280	280	270	270	270	265	177	170	169	167	159	147	142	139	126	681	654	626	596	568	544	526	515	475
Delaware	435	455	455	455	450	450	480	460	455	306	311	302	290	278	268	276	253	238	703	684	664	637	618	596	575	550	523
Des Moines	965	970	1035	1080	1075	1060	1075	1060	1080	765	755	780	776	742	704	691	652	629	793	778	754	719	690	664	643	615	582
Dickinson	490	505	515	535	520	530	540	545	515	386	385	381	377	354	344	338	326	290	788	762	740	705	681	649	626	598	563
Dubuque	2035	2075	2140	2210	2250	2270	2275	2255	2225	1584	1580	1586	1566	1535	1491	1445	1376	1295	778	761	741	709	682	657	635	610	582
Emmet	375	385	405	415	420	440	435	450	440	283	285	288	285	278	276	263	261	248	755	740	711	687	662	627	605	580	564
Fayette	730	755	775	800	785	790	785	790	795	512	511	504	499	475	463	441	427	412	701	677	650	624	605	586	562	541	518

Table 4. OASDI Survivor Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Floyd	570	600	630	640	630	630	630	630	650	415	429	438	431	409	390	378	363	361	728	715	695	673	649	619	600	576	555
Franklin	395	405	415	430	435	435	450	475	445	304	304	301	300	292	280	278	282	253	770	751	725	698	671	644	618	594	569
Fremont	240	250	275	285	295	285	285	265	275	173	178	188	182	182	171	168	149	147	721	712	684	639	617	600	589	562	535
Greene	360	370	395	400	415	420	430	435	450	279	280	287	281	283	272	272	266	260	775	757	727	703	682	648	633	611	578
Grundy	400	420	430	445	425	435	450	470	475	324	326	322	318	290	286	284	287	276	810	776	749	715	682	657	631	611	581
Guthrie	400	420	430	440	460	465	475	465	475	281	291	287	281	284	281	277	258	252	703	693	667	639	617	604	583	555	531
Hamilton	455	465	485	475	495	500	515	520	515	345	342	350	326	326	316	315	307	292	758	735	722	686	659	632	612	590	567
Hancock	385	390	425	440	445	445	455	450	445	304	301	313	309	302	287	280	266	252	790	772	736	702	679	645	615	591	566
Hardin	710	715	735	755	770	795	825	830	815	553	543	536	524	517	513	508	489	464	779	759	729	694	671	645	616	589	569
Harrison	485	510	525	525	560	560	565	565	555	347	359	358	343	351	339	329	316	301	715	704	682	653	627	605	582	559	542
Henry	470	470	505	525	540	540	545	555	555	362	353	367	366	369	354	343	335	320	770	751	727	697	683	656	629	604	577
Howard	415	430	435	445	460	465	475	470	400	272	274	268	263	262	253	251	239	195	655	637	616	591	570	544	528	509	488
Humboldt	395	420	445	450	450	460	470	460	400	315	322	327	321	313	311	305	287	240	797	767	735	713	696	676	649	624	600
Ida	300	305	340	340	340	350	365	365	370	223	218	238	228	221	218	221	211	204	743	715	700	671	650	623	605	578	551
Iowa	440	440	480	470	470	490	495	490	500	326	319	332	315	306	306	298	284	274	741	725	692	670	651	624	602	580	548
Jackson	605	610	645	640	650	645	640	640	640	422	418	421	400	391	376	358	345	326	698	685	653	625	602	583	559	539	509
Jasper	860	860	900	925	930	950	985	980	965	677	661	669	660	643	626	622	595	554	787	769	743	714	691	659	631	607	574
Jefferson	345	355	375	365	355	360	365	370	395	257	260	264	249	232	223	218	214	216	745	732	704	682	654	619	597	578	547
Johnson	995	1030	1050	1080	1075	1060	1080	1075	1015	805	812	807	801	758	722	704	673	605	809	788	769	742	705	681	652	626	596
Jones	575	580	590	590	585	570	570	565	560	400	393	390	377	363	340	328	315	291	696	678	661	639	621	596	575	558	520
Keokuk	450	445	460	480	480	490	500	500	505	311	304	305	303	296	290	287	281	269	691	683	663	631	617	592	574	562	533
Kossuth	665	675	695	700	710	725	735	755	765	511	506	500	488	475	464	452	445	431	768	750	719	697	669	640	615	589	563
Lee	1000	1015	1060	1050	1065	1075	1090	1090	1095	765	759	768	733	714	693	676	646	617	765	748	725	698	670	645	620	593	563
Linn	3145	3190	3305	3335	3335	3360	3370	3325	3310	2498	2492	2496	2408	2316	2259	2184	2066	1966	794	781	755	722	694	672	648	621	594
Louisa	265	270	275	265	270	280	280	280	270	205	205	203	189	187	188	178	172	156	774	759	738	713	693	671	636	614	578
Lucas	300	310	320	320	315	305	320	325	320	204	208	208	199	188	173	177	176	164	680	671	650	622	597	567	553	542	513
Lyon	390	390	395	410	405	410	435	445	455	285	280	275	274	260	250	254	252	245	731	718	696	668	642	610	584	566	538
Madison	350	350	370	375	375	375	370	370	370	263	256	261	257	245	234	224	216	204	751	731	705	685	653	624	605	584	551
Mahaska	540	565	580	590	605	600	610	625	610	402	409	407	396	390	367	360	355	331	744	724	702	671	645	612	590	568	543
Marion	760	775	820	825	805	805	830	850	855	549	547	551	536	506	487	487	480	461	722	706	672	650	629	605	587	565	539
Marshall	900	930	975	995	1010	1010	1025	1040	1045	717	720	725	713	697	669	650	635	608	797	774	744	717	690	662	634	611	582
Mills	255	265	280	290	290	280	270	275	295	190	194	201	199	192	178	165	159	164	745	732	718	686	662	636	611	578	556
Mitchell	365	380	395	385	390	390	395	395	445	267	271	269	252	245	237	232	222	236	732	713	681	655	628	608	587	562	530



Table 4. OASDI Survivor Recipients, Benefits, and Average Benefits in Iowa's Counties for December, 1990-1998 (continued).

County	Total December Recipients									Total December Benefits (in \$1,000s)									Avg. Dec. Benefits Per Recipient (\$s)								
	1998	1997	1996	1995	1994	1993	1992	1991	1990	1998	1997	1996	1995	1994	1993	1992	1991	1990	'98	'97	'96	'95	'94	'93	'92	'91	'90
Monona	480	510	505	515	515	520	520	515	505	344	360	343	333	323	315	303	287	272	717	706	679	647	627	606	583	557	539
Monroe	280	265	275	275	290	305	305	315	320	182	174	175	167	167	170	165	163	159	650	657	636	607	576	557	541	517	497
Montgomery	360	370	385	385	395	400	410	415	435	274	273	270	260	255	251	248	242	241	761	738	701	675	646	628	605	583	554
Muscatine	840	865	890	900	935	945	955	955	940	657	660	650	632	630	613	599	575	538	782	763	730	702	674	649	627	602	572
O'Brien	585	595	605	620	620	625	660	670	665	444	440	433	427	411	401	408	397	374	759	739	716	689	663	642	618	593	562
Osceola	265	270	290	290	300	300	305	305	305	200	199	207	197	196	188	184	173	164	755	737	714	679	653	627	603	567	538
Page	470	505	535	550	560	555	575	580	600	347	362	372	368	361	338	339	330	329	738	717	695	669	645	609	590	569	548
Palo Alto	420	425	445	445	455	450	470	470	485	312	307	310	297	291	276	278	270	268	743	722	697	667	640	613	591	574	553
Plymouth	670	680	695	735	725	725	735	745	720	502	495	491	500	470	448	441	425	390	749	728	706	680	648	618	600	570	542
Pocahontas	380	380	395	405	405	425	415	425	465	289	286	288	280	270	272	253	251	262	761	753	729	691	667	640	610	591	563
Polk	5310	5420	5620	5670	5740	5815	5835	5770	5840	4253	4220	4226	4079	3986	3886	3752	3577	3448	801	779	752	719	694	668	643	620	590
Pottawattamie	1690	1700	1770	1830	1830	1820	1805	1765	1760	1260	1241	1253	1240	1201	1157	1105	1038	980	746	730	708	678	656	636	612	588	557
Poweshiek	485	490	495	505	505	520	525	525	530	366	361	353	347	333	329	321	311	299	755	737	713	687	659	633	611	592	564
Ringgold	195	200	220	220	220	220	235	230	230	128	126	134	128	123	116	120	114	109	656	630	609	582	559	527	511	496	474
Sac	450	455	450	470	465	480	475	470	510	332	328	314	313	302	301	287	272	285	738	721	698	666	649	627	604	579	559
Scott	2835	2860	2980	3030	3065	3080	3035	3000	3030	2223	2194	2218	2174	2115	2045	1944	1847	1787	784	767	744	717	690	664	641	616	590
Shelby	425	440	465	470	475	475	465	475	505	323	323	330	320	315	303	284	279	285	760	734	710	681	663	638	611	587	564
Sioux	835	830	865	900	935	945	960	950	945	623	597	606	608	612	595	584	552	523	746	719	701	676	655	630	608	581	553
Story	1035	1035	1095	1105	1095	1120	1115	1140	1115	869	849	865	840	799	788	751	734	680	840	820	790	760	730	704	674	644	610
Tama	610	625	650	670	690	680	695	690	680	450	454	460	455	453	429	421	404	377	738	726	708	679	657	631	606	586	554
Taylor	255	265	290	280	290	295	300	310	315	166	168	175	162	164	161	158	151	151	651	634	603	579	566	546	527	510	479
Union	365	385	405	400	400	430	445	440	465	254	259	265	248	238	247	246	232	236	696	673	654	620	595	574	553	527	508
Van Buren	245	250	265	285	290	290	295	295	305	160	162	165	171	169	162	161	153	149	653	648	623	600	583	559	546	519	489
Wapello	1130	1140	1205	1200	1205	1215	1230	1270	1255	827	815	840	803	778	755	742	740	699	732	715	697	669	646	621	603	583	557
Warren	620	610	630	645	610	635	630	630	605	471	451	444	439	394	396	373	361	330	760	739	705	681	646	624	592	573	545
Washington	550	570	560	585	620	630	635	635	620	423	428	402	404	409	398	384	368	345	769	751	718	691	660	632	605	580	556
Wayne	265	280	285	300	310	310	320	320	330	177	180	173	175	174	169	167	161	160	668	643	607	583	561	545	522	503	485
Webster	1040	1085	1125	1125	1175	1195	1210	1230	1280	809	829	826	792	798	779	757	740	735	778	764	734	704	679	652	626	602	574
Winnebago	345	360	365	410	415	415	425	440	425	247	253	248	268	260	254	251	252	231	716	703	679	654	627	612	591	573	544
Winneshiak	505	520	515	530	530	530	535	545	550	352	354	340	339	325	314	302	296	282	697	681	660	640	613	592	564	543	513
Woodbury	2155	2180	2280	2300	2380	2410	2490	2500	2525	1634	1619	1651	1596	1592	1549	1541	1489	1434	758	743	724	694	669	643	619	596	568
Worth	265	265	275	280	285	285	300	310	305	187	185	186	188	184	178	181	176	163	706	698	676	671	646	625	603	568	534
Wright	545	570	590	615	610	600	575	585	635	427	438	436	436	418	398	365	354	367	783	768	739	709	685	663	635	605	578
State of Iowa	68001	69459	72097	73347	74197	74866	75606	75588	75842	51486	51327	51499	50293	49000	47639	46346	44521	42593	757	739	714	686	660	636	613	589	562

Scott, Story, Warren) had at least 500 more. Increased recipients translated into gains of 10-19 percent in 12 counties and nearly 30 percent in Warren.

Seventy percent (\$271 million) of the total 1998 OASDI benefits (\$385 million) in Iowa were paid to retired workers. Recipients in Black Hawk, Linn, Polk, and Scott received more than \$10 million in retired worker benefits in 1998; Cerro Gordo, Clinton, Dubuque, Johnson, Pottawattamie, Story, and Woodbury each had \$5-\$9 million. Fifteen counties received less than \$1 million in retired worker benefits in the last month of 1998. Retired worker benefits averaged \$780 in December of 1998. Payments per recipient ranged from less than \$700 in 11 counties to at least \$800 in 9 others.

### **Disabled Worker Recipients, Benefits, and Average Benefits**

In December of 1998, recipients of disabled worker benefits numbered 43,600 (Table 3). While Adair, Adams, Audubon, Osceola, and Ringgold each had fewer than 100 such recipients, Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, and Woodbury all had more than 1,000. All 99 counties reported increases in their disabled worker recipients from 1990 to 1998. These increases ranged from fewer than 20 (Osceola, Palo Alto) to 500 or more (Linn, Polk, Pottawattamie, Scott). Statewide, the increase was 12,700. In 33 counties, increases from 1990 to 1998 among disabled workers exceeded 50 percent; Floyd, Humboldt, Kossuth, Madison, and Warren had percentage gains of 75 percent or more.

Disabled worker benefits totaled \$31.0 million in the last month of 1998. Average benefits per recipient ranged from a low of \$624 (Adams) to a high of \$782 (Warren). Statewide, disabled benefits averaged \$710 per recipient in December of 1998.

### **Survivor Recipients, Benefits, and Average Benefits**

Survivor benefits were paid to 68,000 widows and widowers in December of 1998 (Table 4). Adams, Clarke, Davis, Fremont, Ringgold, and Van Buren were the only counties with fewer than 250 recipients of survivor benefits; Black Hawk, Linn, Polk, and Scott had more than 2,500. Only Howard, Jones, and Warren reported more recipients of survivor benefits in 1998 than in 1990; Adams had the same number both years and the remaining 95 counties had declines. Statewide, survivor beneficiaries declined by 7,800 over that period. Although in no county did recipients increase by 10 percent, 62 counties had declines of that magnitude.

The survivors shared \$51.5 million in benefits in 1998. The two counties with the lowest numbers of recipients (Adams, Ringgold) each received less than \$150,000, while those in Black Hawk, Linn, Polk, and Scott were sent at least \$2 million in benefits.

Widows and widowers (\$757) averaged slightly higher payments in 1998 than disabled workers (\$710), but not as much as retired workers (\$780). Twenty-two counties averaged less than \$700 while Grundy, Johnson, Polk, and Story averaged more than \$800. Story's average of \$840 was the highest reported that year.

**Note:** These data, although originally from the U.S. Social Security Administration, were taken from a CD-ROM from the U.S. Bureau of the Census called "USA Counties 1998: A Statistical Abstract Supplement." Rounded figures were reported for all data categories except total recipients in the four most recent years.

## State Personal Income Tax in Iowa's Counties: 1988, 1993, 1997, and 1998

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Each year, individuals file personal income tax returns with the State of Iowa. The Iowa Department of Revenue and Finance summarizes some of the information provided on tax returns and reports it for the state and its counties. In this section, details on the number of returns and the credits claimed are noted along with adjusted gross income, net taxable income, and tax paid. Four points in an 11-year period were selected for examination: 1988, 1993, 1997, and 1998. The 1998 data, which were filed in 1999, are the most recent that are available. In the analysis that follows, discussion will be limited to returns filed by residents of Iowa. Information for nonresident returns is included at the end of each table as well as data on the total returns (returns from Iowa residents plus returns from nonresidents).

### Returns and Credits

In 1998, nearly 1.7 million returns were received from Iowans (Table 1); the increase was 21,700 from 1997 (Table 2), 93,000 from 1993 (Table 3), and 106,000 from 1988 (Table 4). The number of returns varied substantially across Iowa's counties, with population size the primary cause of differences. Polk had nearly 219,000 returns in 1998; Linn was the only other county with at least 100,000 returns. Black Hawk, Dubuque, Johnson, Scott, and Woodbury had at least 50,000 tax returns filed that year. More than half (54) of the counties reported fewer than 10,000 returns, with Adams and Ringgold below 3,000.

Higher numbers of returns occurred in 1998 than in 1988 in two-thirds (64) of Iowa's 99 counties as well. Gains between 1988 and 1998 exceeded 10,000 returns in Linn and Polk. Another 15 counties reported increases of 1,000 to 9,999 returns. No county decreased by at least 1,000 among the 35 counties with fewer tax returns in 1998 than in 1988; only Kossuth and Pocahontas declined by more than 500 returns. Claims of personal credits dropped in 50 counties in this period; this trend was even more pronounced for the dependent credits, which were lower in 60 counties in 1998 than 10 years earlier.

### Income and Tax Paid

On personal income tax forms for the state, income first is requested in a variety of categories. Then adjustments are allowed (for example, certain types of retirement savings, health insurance, alimony, moving expenses) for those qualified, the sum of which is subtracted from gross income. The result of these calculations generally is called adjusted gross income, which totaled \$46.2 billion on state tax forms returned by Iowa filers for 1998 (Table 1). This represented an increase of \$17.5 billion from the 1988 figure of \$28.6 billion (Table 4). When inflation was taken into account, however, the \$7.1 billion change from 1988 (\$39.1 billion when adjusted to 1998 dollars) to 1998 (\$46.2 billion) reflected substantially smaller real growth in adjusted gross income.

Adjusted gross income totaled \$7.7 billion in Polk County in 1998; others above \$1 billion included Black Hawk, Dubuque, Johnson, Linn, Pottawattamie, Scott, Story, and Woodbury. Less than \$100 million in adjusted gross income was noted in 11 counties. From 1988 to 1998, adjusted gross income increased in every county. When inflation was taken into account, all but 18 counties continued to have higher gross income at the end of the period than at the beginning; the magnitude of the increases were much lower after inflation was accounted for, however. Increases after inflation greater than \$50 million occurred in 20 counties, with Polk's gain exceeding \$1.8 billion.

Table 1. Personal Income Tax for 1998 (filed in 1999) in Iowa's Counties.

County	Number of Returns	Adjusted Gross Income (in \$1,000s)	Net Taxable Income (in \$1,000s)	Tax Paid (in \$1,000s)	Person Credits	Dependent Credits
Adair	4674	102065	77682	3351	6694	2112
Adams	2507	47285	36121	1500	3594	1208
Allamakee	8092	162427	122681	4629	11210	4177
Appanoose	7002	147888	115043	5227	9866	3387
Audubon	3885	74358	56587	2350	5606	1884
Benton	14407	352423	266722	12309	18934	7181
Black Hawk	68643	1924006	1421473	71030	90190	31594
Boone	14925	389658	291452	14198	19763	6858
Bremer	13970	369259	276593	13318	18410	6710
Buchanan	11443	279830	210137	9704	15395	6409
Buena Vista	11408	273717	203219	9156	15945	6281
Butler	8986	195951	149764	6632	12439	4151
Calhoun	6516	135103	101576	4423	9227	2900
Carroll	13573	319839	237676	10918	17977	6969
Cass	8795	188734	140595	6020	12439	4031
Cedar	10806	266720	201445	9431	14434	4901
Cerro Gordo	26969	695021	517521	24869	36149	12109
Cherokee	7915	173099	132112	5882	10928	3687
Chickasaw	8009	174788	132537	5828	10732	3979
Clarke	4960	100520	76851	3191	6868	2449
Clay	10842	267180	199737	9406	14472	5006
Clayton	10859	219058	165171	6516	14871	5261
Clinton	28608	701371	532062	25075	38265	13861
Crawford	9526	202603	154856	6963	12980	4920
Dallas	22467	735477	532574	28072	28750	11578
Davis	4269	86789	65779	2780	6094	2370
Decatur	3860	70621	53634	2067	5529	2017
Delaware	10559	228378	172747	7593	14136	6057
Des Moines	24702	659612	493296	23857	33202	11403
Dickinson	10433	295617	212414	10332	14190	4067
Dubuque	53001	1467562	1075683	52063	68305	26338
Emmet	6326	138874	104994	4461	8670	2978
Fayette	11933	248479	189812	8153	16571	6120
Floyd	9647	218032	164808	7475	13194	4621
Franklin	6238	142808	107068	4956	8802	2905
Fremont	4354	96430	73667	2893	6119	2113
Greene	6088	130653	97719	4313	8628	3010
Grundy	7286	189616	143465	7142	10059	3349
Guthrie	6652	153427	114799	5235	9256	2951
Hamilton	9720	260705	192966	9564	13154	4483
Hancock	7167	152637	115525	4946	9739	3498
Hardin	11309	263986	198041	9187	15680	4966
Harrison	8419	199172	147599	4984	11427	4217
Henry	11356	279413	211850	9827	15149	5441
Howard	5985	121673	92844	3696	8276	3079
Humboldt	6334	153385	115202	5436	8775	3044
Ida	4760	106706	81349	3631	6685	2409
Iowa	9824	301318	210096	10498	13009	4536
Jackson	11635	247379	190045	8226	15846	5757
Jasper	21800	590629	443308	21601	28779	9886

Table 1. Personal Income Tax for 1998 (filed in 1999) in Iowa's Counties (continued).

County	Number of Returns	Adjusted Gross Income (in \$1,000s)	Net Taxable Income (in \$1,000s)	Tax Paid (in \$1,000s)	Person Credits	Dependent Credits
Jefferson	8543	266003	193198	9912	11616	3994
Johnson	58035	1932957	1406297	74309	71824	23229
Jones	11196	260199	197274	9029	14955	5134
Keokuk	6433	132113	101156	4402	9057	3214
Kossuth	10309	221341	165645	7146	14301	5143
Lee	21492	526594	397994	18572	28889	10369
Linn	113662	3756809	2737548	145543	145513	51578
Louisa	6571	157671	120592	5596	8910	3666
Lucas	4879	123381	93690	4740	6834	2394
Lyon	6875	140011	105904	4339	9439	3734
Madison	7922	199029	148886	6970	10496	3965
Mahaska	12357	295509	222682	10217	16638	5998
Marion	18542	497100	369418	17320	24441	9083
Marshall	23020	597321	451067	21520	30919	11429
Mills	7468	200771	148179	5273	9890	3820
Mitchell	6374	137618	103983	4381	8804	3133
Monona	5502	121478	92012	4036	7848	2540
Monroe	4308	93678	71145	3128	6057	2183
Montgomery	6822	155802	118040	5250	9568	3162
Muscatine	24389	701460	520814	26127	32032	12514
O'Brien	9307	204998	154222	6680	12962	4612
Osceola	3891	81501	62761	2503	5305	1910
Page	9230	225927	173375	8204	12836	4088
Palo Alto	5761	121199	91698	4091	8129	2765
Plymouth	14874	389245	291285	13806	19897	8082
Pocahontas	5045	107340	81749	3567	7161	2467
Polk	218910	7748115	5571769	298444	277325	99386
Pottawattamie	47884	1253343	910056	28672	63604	23217
Poweshiek	11055	286778	213949	10251	14836	4842
Ringgold	2819	56312	42341	1864	4110	1314
Sac	6836	145480	109819	4927	9793	3304
Scott	89405	2934199	2141265	111516	118081	44496
Shelby	7934	168479	126186	5255	10924	3788
Sioux	17670	440528	324325	14505	23284	10124
Story	40652	1308279	955107	50215	51816	16792
Tama	10410	232375	176541	7832	14529	4864
Taylor	3563	65404	50187	1927	5189	1736
Union	7317	156790	119776	5152	10120	3317
Van Buren	4227	82771	63670	2653	6005	2098
Wapello	19328	451336	337872	15541	26632	8941
Warren	23238	661648	488762	24083	29347	11486
Washington	12173	285753	213962	9830	16420	5945
Wayne	3421	65571	49922	1948	5159	1651
Webster	22444	560631	419226	19927	30431	10718
Winnebago	7347	166074	126434	5465	10026	3504
Winneshiek	11446	264584	199120	8964	15199	5496
Woodbury	57254	1577369	1165475	53133	75632	31726
Worth	4503	102535	78634	3446	6155	2005
Wright	8395	191967	143419	6528	11577	3840
IA Resident Returns	1664482	46155657	34069326	1653656	2205927	794014
Nonresident Returns	142225	17808968	12419856	84848	200132	71423
Total Returns	1806707	63964625	46489183	1738503	2406059	865437

Table 2. Personal Income Tax for 1997 (filed in 1998) (in 1997 \$1,000s and in 1998 \$1,000s after accounting for inflation) in Iowa's Counties.

County	Number of Returns	Adjusted Gross Income (in \$1,000s)		Net Taxable Income (in \$1,000s)		Tax Paid (in \$1,000s)		Person Credits	Dependent Credits
		1997 \$s	1998 \$s	1997 \$s	1998 \$s	1997 \$s	1998 \$s		
Adair	4643	95782	97068	73199	74182	3580	3628	6796	2119
Adams	2441	45113	45719	35085	35556	1658	1680	3601	1140
Allamakee	8096	155073	157155	117965	119549	5069	5137	11386	4143
Appanoose	7027	134045	135844	102828	104208	4905	4971	10096	3400
Audubon	3857	74156	75151	57105	57872	2767	2804	5689	1908
Benton	14191	344137	348757	262449	265972	14163	14353	18837	6972
Black Hawk	68040	1872576	1897714	1394246	1412963	79718	80788	90777	31513
Boone	14680	364100	368988	274031	277710	14860	15059	19868	6759
Bremer	13959	358773	363589	270544	274176	14862	15062	18599	6690
Buchanan	11399	272898	276561	209402	212213	11352	11504	15434	6371
Buena Vista	11325	264337	267886	200582	203275	10492	10633	15978	6162
Butler	9128	195087	197706	150685	152708	7637	7740	12780	4277
Calhoun	6572	137494	139340	104391	105792	5256	5327	9512	2984
Carroll	13510	303631	307707	228964	232038	11929	12089	18225	6974
Cass	8742	181978	184421	137118	138959	6879	6971	12645	4108
Cedar	10799	277808	281537	213393	216258	12120	12283	14590	4931
Cerro Gordo	26807	670693	679697	504229	510998	27669	28040	36468	12096
Cherokee	7969	173124	175448	133800	135596	6865	6957	11118	3747
Chickasaw	7977	171497	173799	131474	133239	6608	6697	10887	4052
Clarke	4855	95484	96766	73679	74668	3525	3572	6757	2391
Clay	10970	260656	264155	197742	200397	10548	10690	14713	5068
Clayton	10779	212256	215105	161211	163375	7365	7464	15085	5380
Clinton	28274	679079	688195	514908	521820	27487	27856	38457	13801
Crawford	9607	189736	192283	145593	147547	7126	7222	13218	4839
Dallas	21988	668730	677707	488299	494854	28442	28824	28480	11422
Davis	4201	83772	84897	64799	65669	3183	3226	6034	2337
Decatur	3841	68363	69281	52059	52758	2268	2298	5668	2040
Delaware	10558	220954	223920	168886	171153	8485	8599	14242	6058
Des Moines	24172	637598	646157	481698	488164	26487	26843	33078	11380
Dickinson	10399	276753	280468	202552	205271	11022	11170	14258	4012
Dubuque	52198	1378715	1397223	1018864	1032541	55959	56710	68233	26389
Emmet	6315	137391	139235	104418	105820	4988	5055	8802	3026
Fayette	12071	245044	248334	189147	191686	9315	9440	16972	6189
Floyd	9742	211344	214181	160312	162464	8138	8247	13451	4646
Franklin	6324	140126	142007	106811	108245	5649	5725	9001	2981
Fremont	4377	95076	96352	73619	74607	3314	3358	6235	2115
Greene	6083	131188	132949	99618	100955	5042	5110	8785	2977
Grundy	7261	179612	182023	137369	139213	7412	7512	10094	3378
Guthrie	6549	145866	147824	110364	111846	5731	5808	9344	2953
Hamilton	9738	242137	245388	181438	183874	9960	10094	13416	4521
Hancock	7119	147994	149981	114474	116011	5709	5786	9810	3495
Hardin	11306	253440	256842	193898	196501	10203	10340	15935	5008
Harrison	8216	188005	190529	141899	143804	5685	5761	11313	4116
Henry	11195	263893	267436	200969	203667	10505	10646	15141	5371
Howard	5968	117735	119316	90027	91236	4073	4128	8473	3147
Humboldt	6435	152792	154843	117072	118644	6360	6445	9034	3057
Ida	4648	103086	104470	77578	78619	4018	4072	6578	2306
Iowa	9656	291690	295606	220721	223684	11928	12088	13012	4586
Jackson	11557	238805	242011	182977	185433	9073	9195	16088	5785
Jasper	21470	558269	565763	420344	425987	23079	23389	28829	9816

Table 2. Personal Income Tax for 1997 (filed in 1998) (in 1997 \$1,000s and in 1998 \$1,000s after accounting for inflation) in Iowa's Counties (continued).

County	Number of Returns	Adjusted Gross Income (in \$1,000s)		Net Taxable Income (in \$1,000s)		Tax Paid (in \$1,000s)		Person Credits	Dependent Credits
		1997 \$s	1998 \$s	1997 \$s	1998 \$s	1997 \$s	1998 \$s		
Jefferson	8613	287259	291115	207220	210002	12231	12395	11782	4035
Johnson	56367	1881518	1906776	1391460	1410139	79347	80412	70103	22745
Jones	11097	251652	255030	192101	194680	10051	10186	15041	5223
Keokuk	6542	129878	131622	99632	100969	4900	4966	9379	3220
Kossuth	10360	214695	217577	162232	164410	8010	8118	14504	5127
Lee	21054	501877	508614	381530	386652	20006	20275	28976	10324
Linn	111521	3442689	3488905	2524067	2557951	148483	150476	144082	50531
Louisa	6547	152296	154340	117712	119292	6078	6160	8982	3662
Lucas	4810	115574	117125	87275	88447	4956	5023	6890	2358
Lyon	6971	141578	143479	108652	110111	5216	5286	9630	3810
Madison	7767	183591	186056	138703	140565	7303	7401	10509	3897
Mahaska	12258	281124	284898	213525	216391	11159	11309	16708	6030
Marion	18384	464829	471069	348040	352712	18770	19022	24471	8985
Marshall	22669	571446	579117	432995	438808	23435	23750	30918	11323
Mills	7320	185454	187944	138192	140047	5624	5699	9784	3694
Mitchell	6383	140552	142439	107538	108982	5393	5465	9011	3110
Monona	5512	117897	119480	89994	91202	4550	4611	7988	2502
Monroe	4251	85678	86828	66612	67506	3266	3310	6150	2171
Montgomery	6834	147499	149479	112261	113768	5569	5644	9838	3204
Muscatine	23900	666932	675885	499790	506499	28390	28771	31760	12200
O'Brien	9406	203360	206090	154200	156270	7684	7787	13212	4743
Osceola	3887	81011	82099	62261	63097	2892	2931	5370	1954
Page	9187	213207	216069	163170	165360	8428	8541	13052	4149
Palo Alto	5814	118339	119928	90881	92101	4549	4610	8274	2833
Plymouth	14674	379372	384465	281331	285108	14736	14934	19904	7966
Pocahontas	5054	108161	109613	83001	84115	4198	4254	7285	2482
Polk	213516	7226125	7323130	5209366	5279298	312847	317047	272687	96533
Pottawattamie	46978	1183459	1199346	868858	880522	32375	32810	63015	22947
Poweshiek	10904	263985	267529	197321	199970	10472	10613	15011	4818
Ringgold	2762	49807	50476	38102	38613	1707	1730	4267	1308
Sac	6906	146917	148889	112758	114272	5752	5829	10060	3371
Scott	87377	2810247	2847972	2068767	2096539	123179	124833	116664	43756
Shelby	7993	166140	168370	126698	128399	6108	6190	11223	3835
Sioux	17722	442611	448553	328810	333224	18232	18477	23724	10185
Story	39799	1183111	1198993	867660	879308	50133	50806	51310	16560
Tama	10222	223912	226918	173077	175400	8926	9046	14463	4842
Taylor	3551	65583	66463	51266	51954	2389	2421	5366	1774
Union	7121	145850	147808	112166	113672	5743	5820	10001	3292
Van Buren	4189	79904	80977	62095	62929	2923	2962	6040	2114
Wapello	19021	438968	444861	330414	334850	17415	17649	26851	9074
Warren	22841	619594	627912	461173	467364	25401	25742	29126	11443
Washington	12136	272444	276101	205755	208517	10594	10736	16616	5870
Wayne	3485	64369	65233	49722	50389	2169	2198	5370	1685
Webster	21979	534332	541505	403682	409101	21815	22108	30419	10601
Winnebago	7407	158189	160313	121205	122832	5922	6001	10222	3511
Winneshiek	11239	246787	250100	186352	188854	9400	9526	15303	5556
Woodbury	56513	1521216	1541637	1118678	1133695	58215	58996	75609	31170
Worth	4533	100757	102110	77785	78829	3961	4014	6310	1989
Wright	8386	194696	197310	148735	150732	7942	8049	11967	3898
IA Resident Returns	1642796	43914357	44503874	32669655	33108221	1789310	1813330	2207049	787346
Nonresident Returns	137988	14425035	14618680	9737963	9868688	88927	90121	195641	70195
Total Returns	1780784	58339392	59122555	42407618	42976908	1878237	1903451	2402690	857541

Table 3. Personal Income Tax for 1993 (filed in 1994) (in 1993 \$1,000s and in 1998 \$1,000s after accounting for inflation) in Iowa's Counties.

County	Number of Returns	Adjusted Gross Income (in \$1,000s)		Net Taxable Income (in \$1,000s)		Tax Paid (in \$1,000s)		Person Credits	Dependent Credits
		1993 \$\$	1998 \$\$	1993 \$\$	1998 \$\$	1993 \$\$	1998 \$\$		
Adair	4486	79104	88920	61129	68714	2808	3156	6696	2095
Adams	2441	37077	41678	28787	32359	1258	1414	3644	1132
Allamakee	7838	127852	143716	96667	108662	4032	4532	10845	4074
Appanoose	6810	114076	128231	87971	98887	4001	4497	9632	3309
Audubon	3778	62925	70733	48447	54459	2228	2504	5627	1807
Benton	12981	254080	285607	196542	220930	9740	10949	17387	6526
Black Hawk	65490	1545677	1737471	1154064	1297265	63472	71348	87350	31053
Boone	13971	290690	326760	221028	248454	11302	12704	18976	6467
Bremer	13790	296084	332823	225690	253695	11874	13347	18497	7016
Buchanan	10781	213564	240064	163965	184310	8377	9416	14853	6465
Buena Vista	11125	220607	247981	167272	188028	8363	9401	15777	5932
Butler	8776	156169	175547	120406	135346	5748	6461	12561	4373
Calhoun	6720	118496	133199	90521	101753	4304	4838	9793	3210
Carroll	12939	247991	278763	187633	210915	9452	10625	17454	7033
Cass	8681	158111	177730	120009	134900	5631	6330	12540	4140
Cedar	10386	216858	243767	166304	186940	8718	9800	14222	4916
Cerro Gordo	26043	549219	617368	412259	463414	21311	23955	35355	11802
Cherokee	8012	151246	170013	116833	131330	5741	6453	11248	4110
Chickasaw	7748	137527	154592	106039	119197	5036	5661	10708	4085
Clarke	4478	74630	83890	57380	64500	2561	2879	6491	2277
Clay	10336	207925	233725	156383	175788	7996	8988	14098	4996
Clayton	10265	168617	189540	127725	143574	5458	6135	14492	5418
Clinton	27575	570490	641279	438382	492778	22352	25126	37830	13935
Crawford	9412	166101	186711	128038	143925	6196	6965	13123	4947
Dallas	19585	472435	531057	350340	393812	18992	21349	25714	10155
Davis	4139	70119	78820	54032	60737	2476	2783	6041	2311
Decatur	3574	54400	61150	41363	46495	1704	1915	5326	1902
Delaware	10168	181338	203839	138453	155633	6621	7443	13658	6012
Des Moines	23656	532750	598856	404638	454847	21515	24185	32321	11198
Dickinson	9568	211801	238082	156570	175998	8238	9260	13361	3878
Dubuque	51255	1134901	1275724	847438	952592	45117	50715	66342	26540
Emmet	6236	117409	131978	89419	100514	4326	4863	8694	3159
Fayette	11732	204067	229388	156501	175920	7307	8214	16613	6191
Floyd	9513	182215	204825	139882	157239	6996	7864	13323	4585
Franklin	6231	117753	132364	89152	100214	4519	5080	8884	2902
Fremont	4402	81105	91169	62304	70035	2734	3073	6388	2317
Greene	5847	108996	122521	83394	93742	4106	4615	8442	2779
Grundy	7269	146296	164449	112115	126027	5698	6405	10185	3430
Guthrie	6527	120822	135814	91950	103360	4477	5033	9421	2978
Hamilton	9442	191379	215126	145790	163880	7440	8363	13145	4399
Hancock	6981	120631	135599	92298	103751	4285	4817	9780	3590
Hardin	11076	204409	229773	156760	176211	7655	8605	15545	5030
Harrison	7811	147536	165843	112588	126558	4509	5068	10930	3962
Henry	10896	217797	244822	166611	187285	8210	9229	14749	5371
Howard	5482	87741	98628	66988	75300	2833	3185	7998	2956
Humboldt	6170	121612	136702	93906	105558	4746	5335	8800	2931
Ida	4630	87576	98443	66863	75160	3372	3790	6568	2506
Iowa	9289	205037	230479	156221	175606	8521	9578	12579	4263
Jackson	11135	196964	221404	152363	171269	7181	8072	15500	5772
Jasper	20829	451820	507884	344871	387664	18176	20431	27823	9417



Table 3. Personal Income Tax for 1993 (filed in 1994) (in 1993 \$1,000s and in 1998 \$1,000s after accounting for inflation) in Iowa's Counties (continued).

County	Number of Returns	Adjusted Gross Income (in \$1,000s)		Net Taxable Income (in \$1,000s)		Tax Paid (in \$1,000s)		Person Credits	Dependent Credits
		1993 \$s	1998 \$s	1993 \$s	1998 \$s	1993 \$s	1998 \$s		
Jefferson	8274	186060	209147	138973	156217	7548	8485	11322	3786
Johnson	51667	1382999	1554607	1017565	1143829	57985	65180	64275	21300
Jones	10548	195636	219911	151105	169855	7384	8300	14499	5366
Keokuk	6552	110746	124488	85267	95847	3901	4385	9447	3290
Kossuth	10281	176588	198500	133659	150244	6208	6978	14512	5330
Lee	20320	415209	466730	317700	357122	16041	18031	28054	10195
Linn	104285	2657084	2986786	1967240	2211343	109799	123423	134253	47624
Louisa	6460	130053	146191	100848	113362	5054	5681	8847	3837
Lucas	4752	97158	109214	73915	83087	3924	4411	6879	2270
Lyon	6643	116124	130533	88673	99676	4019	4518	9258	3915
Madison	7297	143219	160990	109244	122799	5442	6117	10005	3729
Mahaska	11574	223942	251730	170985	192202	8521	9578	16002	5715
Marion	17106	365727	411108	276935	311298	14337	16116	22983	8577
Marshall	22239	482490	542359	366208	411649	19142	21517	30118	10663
Mills	6909	142000	159620	107117	120409	4220	4744	9269	3465
Mitchell	6247	114430	128629	87659	98536	4096	4604	8897	3161
Monona	5315	102098	114767	77550	87173	3862	4341	7718	2432
Monroe	4048	80712	90727	61611	69256	3252	3656	5927	2019
Montgomery	6790	126352	142030	96786	108796	4557	5122	9721	3169
Muscatine	23012	552431	620979	416338	467999	22964	25813	30618	12397
O'Brien	9199	165565	186109	125161	140691	5966	6706	13104	4738
Osceola	3774	68028	76469	51740	58160	2305	2591	5283	1986
Page	9040	177552	199583	136038	152918	6735	7571	12922	4209
Palo Alto	5798	97187	109246	74366	83594	3395	3816	8442	2985
Plymouth	13867	285520	320949	216236	243067	11056	12428	18835	7643
Pocahontas	5088	90705	101960	69533	78161	3286	3694	7522	2594
Polk	200311	5515469	6199851	4026579	4526214	232510	261361	254793	89236
Pottawattamie	43561	909672	1022548	674664	758379	24124	27117	58289	21632
Poweshiek	10668	243320	273512	176026	197868	9380	10544	14700	4774
Ringgold	2803	39695	44621	30454	34233	1244	1398	4218	1255
Sac	6732	120566	135526	92931	104462	4463	5017	9862	3450
Scott	83505	2181577	2452276	1617511	1818218	91335	102668	110672	42008
Shelby	7957	136372	153294	103421	116254	4687	5269	11238	3963
Sioux	16838	332535	373797	248091	278875	12498	14049	22786	10254
Story	37443	905745	1018134	674858	758597	37186	41800	48223	16005
Tama	10076	187569	210843	144517	162449	7054	7929	14472	5036
Taylor	3586	54117	60832	41930	47133	1733	1948	5422	1814
Union	6871	121608	136698	93066	104614	4353	4893	9596	3278
Van Buren	3959	64774	72811	49647	55807	2182	2453	5810	2006
Wapello	18589	372692	418937	283007	318124	14333	16111	26206	8851
Warren	21251	481423	541160	363193	408259	19103	21473	26973	11055
Washington	11707	230883	259532	174193	195808	8674	9750	16060	5815
Wayne	3514	55171	62017	42239	47480	1813	2038	5509	1683
Webster	21661	449409	505174	339800	381964	17687	19882	29883	10529
Winnebago	7288	133755	150352	102783	115537	4865	5469	10146	3563
Winneshiek	10900	201143	226102	152198	171083	7275	8178	14928	5648
Woodbury	54099	1267768	1425078	942371	1059304	49164	55264	72509	30063
Worth	4298	74584	83839	57137	64227	2524	2837	6121	1957
Wright	8226	155122	174370	118064	132714	5833	6557	11913	3971
IA Resident Returns	1571233	34854611	39179515	26119420	29360426	1368731	1538569	2116370	765893
Nonresident Returns	112780	8677160	9753858	5734736	6446326	61433	69056	164605	60634
Total Returns	1684013	43531771	48933373	31854156	35806752	1430164	1607625	2280975	826527

Table 4. Personal Income Tax for 1988 (filed in 1989) (in 1988 \$1,000s and in 1998 \$1,000s after accounting for inflation) in Iowa's Counties.

County	Number of Returns	Adjusted Gross Income (in \$1,000s)		Net Taxable Income (in \$1,000s)		Tax Paid (in \$1,000s)		Person Credits	Dependent Credits
		1988 \$s	1998 \$s	1988 \$s	1998 \$s	1988 \$s	1998 \$s		
Adair	4525	68509	93521	52913	72231	2470	3372	6769	2036
Adams	2666	36371	49650	27810	37963	1226	1674	4029	1222
Allamakee	8003	112281	153275	85545	116777	3708	5062	11115	4223
Appanoose	6686	92527	126308	69776	95251	3107	4241	9918	3343
Audubon	4136	59560	81305	46268	63160	2228	3041	6125	1924
Benton	12596	206320	281647	158736	216690	7757	10589	17296	6330
Black Hawk	64007	1255661	1714100	935649	1277252	49936	68168	87144	31937
Boone	14195	243917	332971	185621	253391	9206	12567	19377	6448
Bremer	13714	237753	324556	179992	245707	9054	12360	18826	7175
Buchanan	10544	177591	242429	135941	185573	6916	9441	14921	6491
Buena Vista	11371	189789	259081	145085	198055	7290	9952	16041	5621
Butler	8621	130304	177878	100318	136944	4769	6510	12423	4473
Calhoun	6931	109367	149297	84249	115008	4180	5706	10227	3321
Carroll	12803	212246	289737	160649	219302	8070	11016	17370	7419
Cass	9124	142465	194479	107791	147145	5095	6955	13102	4419
Cedar	10199	173445	236769	134864	184103	6832	9326	13976	4916
Cerro Gordo	27112	474773	648111	354099	483380	17720	24190	36868	12370
Cherokee	8177	132777	181254	102375	139752	5088	6946	11601	4283
Chickasaw	7664	117423	160294	90014	122878	4174	5698	10667	4144
Clarke	4587	65779	89795	49951	68188	2259	3084	6632	2283
Clay	10387	183561	250579	138645	189264	7240	9883	14284	5145
Clayton	10418	145887	199150	111208	151810	4903	6693	14666	5628
Clinton	28454	493866	674175	374926	511811	18716	25549	39407	14480
Crawford	9718	149573	204182	114749	156644	5558	7587	13566	5252
Dallas	18133	342346	467336	256370	349970	13339	18209	24220	9315
Davis	4051	57623	78661	43751	59724	1985	2710	6002	2337
Decatur	3789	51569	70397	38979	53210	1710	2334	5544	2049
Delaware	9685	151413	206694	115649	157872	5565	7597	13224	5801
Des Moines	24280	442997	604734	334179	456187	16993	23197	33382	11836
Dickinson	9047	162634	222011	120571	164591	6264	8551	12817	3890
Dubuque	50084	914145	1247897	686395	936996	35677	48703	65464	27479
Emmet	6431	101018	137899	76681	104677	3685	5030	8992	3280
Fayette	11935	177647	242505	135880	185489	6389	8722	16981	6351
Floyd	9993	158598	216502	120053	163884	5859	7998	14013	4894
Franklin	6402	106077	144805	81060	110655	4155	5672	9207	3047
Fremont	4372	72530	99011	55988	76429	2650	3618	6434	2269
Greene	6055	94712	129291	72727	99279	3539	4831	8759	2857
Grundy	7398	126757	173036	97140	132606	4961	6772	10486	3499
Guthrie	6613	99932	136417	76913	104994	3671	5011	9647	3084
Hamilton	10009	169430	231288	127475	174016	6423	8768	13946	4583
Hancock	7285	115004	156992	88118	120290	4239	5787	10220	3760
Hardin	11658	188937	257917	143071	195306	7201	9830	16597	5372
Harrison	7912	124137	169459	94449	128932	3893	5314	11294	4113
Henry	10687	172428	235381	130976	178795	6221	8492	14767	5237
Howard	5800	80664	110114	61415	83837	2729	3725	8485	2988
Humboldt	6316	107296	146470	82726	112929	4190	5720	9226	3096
Ida	4685	76260	104102	58187	79431	2939	4012	6882	2511
Iowa	9288	159639	217923	122144	166738	6338	8652	12685	4068
Jackson	11215	165865	226422	126762	173043	5951	8124	15612	6028
Jasper	21127	397957	543250	304445	415597	16167	22070	28552	9861

Table 4. Personal Income Tax for 1988 (filed in 1989) (in 1988 \$1,000s and in 1998 \$1,000s after accounting for inflation) in Iowa's Counties (continued).

County	Number of Returns	Adjusted Gross Income (in \$1,000s)		Net Taxable Income (in \$1,000s)		Tax Paid (in \$1,000s)		Person Credits	Dependent Credits
		1988 \$s	1998 \$s	1988 \$s	1998 \$s	1988 \$s	1998 \$s		
Jefferson	8280	160319	218851	112458	153516	5796	7912	11586	3964
Johnson	48313	1021015	1393785	752818	1027670	39964	54555	60523	20628
Jones	10495	165653	226133	127139	173557	6247	8528	14644	5338
Keokuk	6666	96854	132215	74269	101384	3448	4707	9788	3239
Kossuth	11116	172804	235894	131400	179374	6329	8640	15478	5764
Lee	20629	361478	493453	273283	373058	13602	18568	28822	10387
Linn	100741	2126830	2903331	1577489	2153426	85153	116242	130794	47437
Louisa	6203	102569	140017	78264	106838	3808	5198	8666	3216
Lucas	5059	79177	108084	59931	81812	2961	4042	7380	2407
Lyon	6614	100731	137508	78263	106837	3633	4959	9283	3930
Madison	7020	110894	151381	84381	115188	4017	5484	9914	3654
Mahaska	11398	181222	247386	137169	187249	6603	9014	16045	5710
Marion	16953	296485	404731	223139	304607	11027	15053	22968	8589
Marshall	22314	409982	559665	308572	421231	16006	21850	30361	10695
Mills	6736	116249	158691	87906	120000	3677	5019	9146	3578
Mitchell	6416	97867	133598	74734	102019	3502	4781	9177	3176
Monona	5424	83315	113733	63361	86494	3081	4206	8204	2591
Monroe	4108	59321	80979	45285	61818	2117	2890	6041	2020
Montgomery	7113	111678	152451	84737	115674	4017	5484	10228	3311
Muscatine	22725	443422	605314	333279	454958	17683	24139	30291	12021
O'Brien	9398	147920	201925	112935	154167	5431	7414	13327	4843
Osceola	3963	62240	84964	48424	66103	2231	3046	5637	1974
Page	9297	149247	203737	112906	154128	5381	7346	13392	4453
Palo Alto	5999	92093	125716	70928	96824	3438	4693	8674	3137
Plymouth	13334	223672	305334	170405	232619	8524	11636	18555	7409
Pocahontas	5609	89875	122688	69343	94660	3439	4695	8255	2778
Polk	192297	4339365	5923657	3172192	4330352	176641	241132	246453	86446
Pottawattamie	44401	778935	1063322	574672	784483	21097	28799	59547	22204
Poweshiek	11109	187537	256006	141706	193443	7020	9583	15165	4958
Ringgold	2851	37972	51835	29232	39905	1325	1809	4352	1343
Sac	6991	105381	143855	81067	110664	3947	5388	10304	3553
Scott	83193	1777561	2426544	1315190	1795363	71044	96982	111048	43014
Shelby	7999	121390	165709	92159	125806	4358	5949	11382	4015
Sioux	15926	261809	357395	197403	269474	9814	13397	21781	9816
Story	36428	706739	964768	525664	717583	27303	37271	47304	15976
Tama	10149	160671	219332	123724	168895	6156	8404	14467	4788
Taylor	3733	48595	66337	37050	50577	1597	2180	5879	1834
Union	7038	106776	145760	80803	110304	3768	5144	9944	3498
Van Buren	4057	54284	74103	41481	56626	1807	2467	6056	2056
Wapello	18331	312669	426824	235408	321355	11799	16107	26487	8874
Warren	20169	369747	504741	277162	378353	13889	18960	25874	10839
Washington	11720	188931	257909	142126	194016	6948	9485	16292	5829
Wayne	3743	49772	67944	37721	51493	1669	2278	5805	1671
Webster	22403	383620	523679	287482	392441	14431	19700	31270	10779
Winnebago	7654	126271	172372	94534	129048	4481	6117	10615	3809
Winneshiek	11027	170907	233305	129696	177048	6115	8348	14907	5764
Woodbury	51343	1025015	1399246	757442	1033982	39826	54366	69411	27930
Worth	4615	69247	94529	52742	71998	2358	3219	6536	2081
Wright	8579	141460	193107	107483	146725	5339	7288	12404	3935
IA Resident Returns	1558567	28616927	39064898	21426231	29248896	1094082	1493529	2120250	769749
Nonresident Returns	85874	5526081	7543640	4043907	5520328	38553	52629	127109	50492
Total Returns	1644441	34143008	46608538	25470138	34769224	1132635	1546157	2247359	820241

Table 5. Average State Gross Personal Income Per Return, Average State Personal Income Tax Paid Per Return, and Average Percentage State Tax Rate in Iowa's Counties, 1988, 1993, 1997, and 1998.

County	Adjusted Gross Personal Income Per Return							Average Personal Income Tax Paid Per Return						Average Tax Rate (Tax Paid/Net Taxable Income)				
	Current \$s				Adjusted to 1998 \$s			Current \$s				Adjusted to 1998 \$s						
	1998	1997	1993	1988	1997	1993	1988	1998	1997	1993	1988	1997	1993	1988	1998	1997	1993	1988
Adair	21837	20629	17633	15140	20906	19821	20668	717	771	626	546	781	704	745	4.3	4.9	4.6	4.7
Adams	18861	18481	15189	13642	18729	17074	18623	598	679	515	460	688	579	628	4.2	4.7	4.4	4.4
Allamakee	20072	19154	16312	14030	19411	18336	19152	572	626	514	463	634	578	632	3.8	4.3	4.2	4.3
Appanoose	21121	19076	16751	13839	19332	18830	18892	746	698	588	465	707	661	635	4.5	4.8	4.5	4.5
Audubon	19140	19226	16656	14400	19484	18723	19657	605	717	590	539	727	663	736	4.2	4.8	4.6	4.8
Benton	24462	24250	19573	16380	24576	22002	22360	854	998	750	616	1011	843	841	4.6	5.4	5.0	4.9
Black Hawk	28029	27522	23602	19618	27891	26531	26780	1035	1172	969	780	1188	1089	1065	5.0	5.7	5.5	5.3
Boone	26108	24802	20807	17183	25135	23389	23456	951	1012	809	649	1026	909	886	4.9	5.4	5.1	5.0
Bremer	26432	25702	21471	17337	26047	24135	23667	953	1065	861	660	1079	968	901	4.8	5.5	5.3	5.0
Buchanan	24454	23941	19809	16843	24262	22267	22992	848	996	777	656	1009	873	896	4.6	5.4	5.1	5.1
Buena Vista	23993	23341	19830	16691	23654	22291	22785	803	926	752	641	938	845	875	4.5	5.2	5.0	5.0
Butler	21806	21372	17795	15115	21659	20003	20633	738	837	655	553	848	736	755	4.4	5.1	4.8	4.8
Calhoun	20734	20921	17633	15779	21202	19821	21540	679	800	640	603	811	719	823	4.4	5.0	4.8	5.0
Carroll	23564	22475	19166	16578	22777	21544	22631	804	883	731	630	895	822	860	4.6	5.2	5.0	5.0
Cass	21459	20817	18213	15614	21096	20473	21315	684	787	649	558	798	730	762	4.3	5.0	4.7	4.7
Cedar	24683	25725	20880	17006	26070	23471	23215	873	1122	839	670	1137	943	915	4.7	5.7	5.2	5.1
Cerro Gordo	25771	25019	21089	17512	25355	23706	23906	922	1032	818	654	1046	920	893	4.8	5.5	5.2	5.0
Cherokee	21870	21725	18877	16238	22017	21219	22166	743	862	717	622	874	806	849	4.5	5.1	4.9	5.0
Chickasaw	21824	21499	17750	15321	21788	19952	20915	728	828	650	545	839	731	744	4.4	5.0	4.7	4.6
Clarke	20266	19667	16666	14340	19931	18734	19575	643	726	572	493	736	643	673	4.2	4.8	4.5	4.5
Clay	24643	23761	20117	17672	24080	22613	24124	868	962	774	697	975	870	951	4.7	5.3	5.1	5.2
Clayton	20173	19692	16426	14003	19956	18464	19115	600	683	532	471	692	598	643	3.9	4.6	4.3	4.4
Clinton	24517	24018	20689	17357	24340	23256	23694	877	972	811	658	985	912	898	4.7	5.3	5.1	5.0
Crawford	21268	19750	17648	15391	20015	19838	21010	731	742	658	572	752	740	781	4.5	4.9	4.8	4.8
Dallas	32736	30413	24122	18880	30821	27115	25773	1249	1294	970	736	1311	1090	1005	5.3	5.8	5.4	5.2
Davis	20330	19941	16941	14224	20209	19043	19417	651	758	598	490	768	672	669	4.2	4.9	4.6	4.5
Decatur	18296	17798	15221	13610	18037	17110	18579	535	591	477	451	599	536	616	3.9	4.4	4.1	4.4
Delaware	21629	20928	17834	15634	21209	20047	21342	719	804	651	575	815	732	785	4.4	5.0	4.8	4.8
Des Moines	26703	26378	22521	18245	26732	25315	24906	966	1096	910	700	1111	1023	956	4.8	5.5	5.3	5.1
Dickinson	28335	26613	22136	17977	26970	24883	24540	990	1060	861	692	1074	968	945	4.9	5.4	5.3	5.2
Dubuque	27689	26413	22142	18252	26768	24889	24916	982	1072	880	712	1086	989	972	4.8	5.5	5.3	5.2
Emmet	21953	21756	18828	15708	22048	21164	21443	705	790	694	573	801	780	782	4.2	4.8	4.8	4.8
Fayette	20823	20300	17394	14885	20573	19552	20319	683	772	623	535	782	700	730	4.3	4.9	4.7	4.7

Table 5. Average State Gross Personal Income Per Return, Average State Personal Income Tax Paid Per Return, and Average Percentage State Tax Rate in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Adjusted Gross Personal Income Per Return							Average Personal Income Tax Paid Per Return							Average Tax Rate (Tax Paid/Net Taxable Income)			
	Current \$s				Adjusted to 1998 \$s			Current \$s				Adjusted to 1998 \$s			1998	1997	1993	1988
	1998	1997	1993	1988	1997	1993	1988	1998	1997	1993	1988	1997	1993	1988				
Floyd	22601	21694	19154	15871	21985	21531	21665	775	835	735	586	846	826	800	4.5	5.1	5.0	4.9
Franklin	22893	22158	18898	16569	22455	21243	22618	795	893	725	649	905	815	886	4.6	5.3	5.1	5.1
Fremont	22148	21722	18425	16590	22014	20711	22647	665	757	621	606	767	698	827	3.9	4.5	4.4	4.7
Greene	21461	21566	18641	15642	21856	20954	21353	708	829	702	585	840	789	799	4.4	5.1	4.9	4.9
Grundy	26025	24737	20126	17134	25069	22623	23390	980	1021	784	671	1035	881	916	5.0	5.4	5.1	5.1
Guthrie	23065	22273	18511	15111	22572	20808	20628	787	875	686	555	887	771	758	4.6	5.2	4.9	4.8
Hamilton	26822	24865	20269	16928	25199	22784	23108	984	1023	788	642	1037	886	876	5.0	5.5	5.1	5.0
Hancock	21297	20789	17280	15786	21068	19424	21549	690	802	614	582	813	690	794	4.3	5.0	4.6	4.8
Hardin	23343	22416	18455	16207	22717	20745	22124	812	902	691	618	914	777	844	4.6	5.3	4.9	5.0
Harrison	23657	22883	18888	15690	23190	21232	21418	592	692	577	492	701	649	672	3.4	4.0	4.0	4.1
Henry	24605	23572	19989	16134	23888	22469	22024	865	938	754	582	951	848	794	4.6	5.2	4.9	4.7
Howard	20330	19728	16005	13908	19993	17991	18986	618	682	517	471	691	581	643	4.0	4.5	4.2	4.4
Humboldt	24216	23744	19710	16988	24063	22156	23190	858	988	769	663	1001	864	905	4.7	5.4	5.1	5.1
Ida	22417	22179	18915	16277	22477	21262	22220	763	864	728	627	876	818	856	4.5	5.2	5.0	5.1
Iowa	30672	30208	22073	17188	30614	24812	23463	1069	1235	917	682	1252	1031	931	5.0	5.4	5.5	5.2
Jackson	21262	20663	17689	14790	20940	19884	20190	707	785	645	531	796	725	725	4.3	5.0	4.7	4.7
Jasper	27093	26002	21692	18836	26351	24384	25713	991	1075	873	765	1089	981	1044	4.9	5.5	5.3	5.3
Jefferson	31137	33352	22487	19362	33800	25277	26431	1160	1420	912	700	1439	1025	956	5.1	5.9	5.4	5.2
Johnson	33307	33380	26768	21133	33828	30089	28849	1280	1408	1122	827	1427	1261	1129	5.3	5.7	5.7	5.3
Jones	23240	22677	18547	15784	22981	20848	21547	806	906	700	595	918	787	812	4.6	5.2	4.9	4.9
Keokuk	20537	19853	16903	14529	20120	19000	19834	684	749	595	517	759	669	706	4.4	4.9	4.6	4.6
Kossuth	21471	20723	17176	15546	21001	19307	21222	693	773	604	569	783	679	777	4.3	4.9	4.6	4.8
Lee	24502	23838	20434	17523	24158	22970	23921	864	950	789	659	963	887	900	4.7	5.2	5.0	5.0
Linn	33052	30870	25479	21112	31284	28641	28820	1280	1331	1053	845	1349	1184	1154	5.3	5.9	5.6	5.4
Louisa	23995	23262	20132	16535	23574	22630	22572	852	928	782	614	940	879	838	4.6	5.2	5.0	4.9
Lucas	25288	24028	20446	15651	24351	22983	21365	971	1030	826	585	1044	928	799	5.1	5.7	5.3	4.9
Lyon	20365	20310	17481	15230	20583	19650	20790	631	748	605	549	758	680	749	4.1	4.8	4.5	4.6
Madison	25124	23637	19627	15797	23954	22062	21564	880	940	746	572	953	839	781	4.7	5.3	5.0	4.8
Mahaska	23914	22934	19349	15899	23242	21750	21704	827	910	736	579	922	827	790	4.6	5.2	5.0	4.8
Marion	26809	25284	21380	17489	25623	24033	23874	934	1021	838	650	1035	942	887	4.7	5.4	5.2	4.9
Marshall	25948	25208	21696	18373	25546	24388	25081	935	1034	861	717	1048	968	979	4.8	5.4	5.2	5.2
Mills	26884	25335	20553	17258	25675	23103	23559	706	768	611	546	778	687	745	3.6	4.1	3.9	4.2
Mitchell	21591	22020	18318	15254	22316	20591	20823	687	845	656	546	856	737	745	4.2	5.0	4.7	4.7

Table 5. Average State Gross Personal Income Per Return, Average State Personal Income Tax Paid Per Return, and Average Percentage State Tax Rate in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Adjusted Gross Personal Income Per Return							Average Personal Income Tax Paid Per Return						Average Tax Rate (Tax Paid/Net Taxable Income)				
	Current \$s				Adjusted to 1998 \$s			Current \$s				Adjusted to 1998 \$s		1998	1997	1993	1988	
	1998	1997	1993	1988	1997	1993	1988	1998	1997	1993	1988	1997	1993					1988
Monona	22079	21389	19209	15361	21676	21593	20969	734	825	727	568	836	817	775	4.4	5.1	5.0	4.9
Monroe	21745	20155	19939	14440	20426	22413	19712	726	768	803	515	778	903	703	4.4	4.9	5.3	4.7
Montgomery	22838	21583	18609	15701	21873	20918	21433	770	815	671	565	826	754	771	4.4	5.0	4.7	4.7
Muscatine	28761	27905	24006	19513	28280	26985	26637	1071	1188	998	778	1204	1122	1062	5.0	5.7	5.5	5.3
O'Brien	22026	21620	17998	15740	21910	20231	21487	718	817	649	578	828	730	789	4.3	5.0	4.8	4.8
Osceola	20946	20842	18025	15705	21122	20262	21439	643	744	611	563	754	687	769	4.0	4.6	4.5	4.6
Page	24477	23208	19641	16053	23520	22078	21914	889	917	745	579	929	837	790	4.7	5.2	5.0	4.8
Palo Alto	21038	20354	16762	15351	20627	18842	20956	710	782	585	573	792	658	782	4.5	5.0	4.6	4.8
Plymouth	26169	25853	20590	16775	26200	23145	22900	928	1004	797	639	1017	896	872	4.7	5.2	5.1	5.0
Pocahontas	21277	21401	17827	16023	21688	20039	21873	707	831	646	613	842	726	837	4.4	5.1	4.7	5.0
Polk	35394	33843	27535	22566	34297	30952	30805	1363	1465	1161	919	1485	1305	1255	5.4	6.0	5.8	5.6
Pottawattamie	26175	25192	20883	17543	25530	23474	23948	599	689	554	475	698	623	648	3.2	3.7	3.6	3.7
Poweshiek	25941	24210	22808	16882	24535	25638	23046	927	960	879	632	973	988	863	4.8	5.3	5.3	5.0
Ringgold	19976	18033	14162	13319	18275	15919	18182	661	618	444	465	626	499	635	4.4	4.5	4.1	4.5
Sac	21281	21274	17909	15074	21560	20131	20577	721	833	663	565	844	745	771	4.5	5.1	4.8	4.9
Scott	32819	32162	26125	21367	32594	29367	29168	1247	1410	1094	854	1429	1230	1166	5.2	6.0	5.6	5.4
Shelby	21235	20786	17139	15176	21065	19266	20717	662	764	589	545	774	662	744	4.2	4.8	4.5	4.7
Sioux	24931	24975	19749	16439	25310	22200	22441	821	1029	742	616	1043	834	841	4.5	5.5	5.0	5.0
Story	32182	29727	24190	19401	30126	27192	26484	1235	1260	993	750	1277	1116	1024	5.3	5.8	5.5	5.2
Tama	22322	21905	18615	15831	22199	20925	21611	752	873	700	607	885	787	829	4.4	5.2	4.9	5.0
Taylor	18356	18469	15091	13018	18717	16964	17771	541	673	483	428	682	543	584	3.8	4.7	4.1	4.3
Union	21428	20482	17699	15171	20757	19895	20710	704	806	633	535	817	712	730	4.3	5.1	4.7	4.7
Van Buren	19582	19075	16361	13380	19331	18391	18265	628	698	551	445	707	619	607	4.2	4.7	4.4	4.4
Wapello	23351	23078	20049	17057	23388	22537	23284	804	916	771	644	928	867	879	4.6	5.3	5.1	5.0
Warren	28473	27126	22654	18332	27490	25465	25025	1036	1112	899	689	1127	1011	941	4.9	5.5	5.3	5.0
Washington	23474	22449	19722	16120	22750	22169	22005	807	873	741	593	885	833	810	4.6	5.1	5.0	4.9
Wayne	19167	18470	15700	13297	18718	17648	18152	569	622	516	446	630	580	609	3.9	4.4	4.3	4.4
Webster	24979	24311	20747	17124	24637	23321	23376	888	993	817	644	1006	918	879	4.8	5.4	5.2	5.0
Winnebago	22604	21357	18353	16497	21644	20630	22520	744	800	668	585	811	751	799	4.3	4.9	4.7	4.7
Winneshiek	23116	21958	18453	15499	22253	20743	21158	783	836	667	555	847	750	758	4.5	5.0	4.8	4.7
Woodbury	27550	26918	23434	19964	27279	26342	27253	928	1030	909	776	1044	1022	1059	4.6	5.2	5.2	5.3
Worth	22770	22227	17353	15005	22525	19506	20483	765	874	587	511	886	660	698	4.4	5.1	4.4	4.5
Wright	22867	23217	18858	16489	23529	21198	22509	778	947	709	622	960	797	849	4.6	5.3	4.9	5.0
IA Resident Returns	27730	26731	22183	18361	27090	24936	25065	993	1089	871	702	1104	979	958	4.9	5.5	5.2	5.1
Nonresident Returns	125217	104538	76939	64351	105941	86486	87845	597	644	545	449	653	613	613	0.7	0.9	1.1	1.0
Total Returns	35404	32761	25850	20763	33201	29058	28344	962	1055	849	689	1069	954	941	3.7	4.4	4.5	4.4

When deductions authorized by the tax code are removed from adjusted gross income, the result is net taxable income. This is the amount on which tax is calculated. In 1998, net taxable income totaled \$34.1 billion for Iowa residents, which was substantially more than the \$21.4 billion reported in 1988. Net taxable income varied across Iowa's counties in a manner similar to that observed for adjusted gross income, with Black Hawk, Dubuque, Johnson, Linn, Polk, Scott, and Woodbury reporting more than \$1 billion in net taxable income in 1998. Net taxable income increased in every county from 1988 to 1998. Controlling for inflation reduced the gains in net taxable income, although increases still occurred in most (78) counties. Gains were greater than \$100 million in 11 counties even after inflation was included in the calculations.

State taxes paid in 1998 varied from less than \$5 million in 31 counties to more than \$20 million in 17 others. The total paid by Iowa residents was more than \$1.6 billion. Polk was the only county in which filers paid more than \$200 million in state taxes, while the totals in Linn and Scott were the only others greater than \$100 million. Adams, Ringgold, Taylor, and Wayne each recorded less than \$2 million in state taxes paid in 1998. When 1988 and 1998 were compared after adjusting for inflation, half (50) the counties had gains in taxes paid. Increases after inflation exceeded \$10 million in Johnson, Linn, Polk, Scott, and Story.

### **Averages and Rates**

Information available in Tables 1-4 allows the calculation of averages and rates related to state personal income taxes. For example, adjusted gross personal income per tax return for Iowa residents averaged \$27,730 in 1998 (Table 5). That figure increased steadily from 1988 (\$18,361) to that point. When inflation was included, however, then a much smaller change occurred in average adjusted gross personal income per return (+\$2,665) from 1988 to 1998. While counties tended to follow the state pattern, differences in averages were evident. For example, average adjusted gross personal income per 1998 return varied from less than \$20,000 in seven counties to more than \$25,000 in 29 others. The highest was \$35,394 in Polk, which was nearly double the \$18,296 reported in Decatur, which was the lowest figure for the state.

The average state personal income tax paid per return for Iowa residents was \$993 in 1998 (Table 5). This average increased steadily from \$702 in 1988 to \$1,089 in 1997 but decreased in 1998. When inflation was controlled, the average increased by \$35 between 1988 and 1998. In 1998, the average paid varied from \$535 in Decatur to \$1,363 in Polk (Figure 1).

The average state tax rate, which was calculated by dividing state taxes paid by net taxable income in Iowa, was 4.9 percent in 1998 for Iowans (Table 5). It was 5.1 percent in 1988, 5.2 percent in 1993, and 5.5 percent in 1997. The 1997-1998 change was caused at least in part by adjustments in tax laws in Iowa. In 1998, the average Iowa tax rate varied from less than 3.5 percent in Harrison and Pottawattamie to 5.0 percent or more in 13 others. Those in which the rate was relatively high generally were urban counties in which incomes also were relatively high; these higher averages reflect the progressive nature of Iowa's personal income tax. The average was lowest in two counties on Iowa's western border, which indicates that some individuals work in another state and pay some taxes to both.

**Note:** Additional information is available in reports available from the Iowa Department of Revenue and Finance, Hoover Building, 1305 E. Walnut, State Capitol Complex, Des Moines, IA 50319.





## Federal Funds Received in Iowa's Counties: 1989, 1994, 1998, and 1999

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In the middle of the 1980s, the U.S. Bureau of the Census initiated a series of annual publications that summarized federal funds that were provided to counties and subcounty areas. These documents attempt to capture the major categories of federal expenditures for the specified geographic units. The data for these reports are gathered from a variety of sources within the federal government; although these data represent major expenditures in counties, not every dollar is included. In addition, some federal programs allow the State of Iowa to distribute them to counties according to decisions made within the state; these distributions may not be included in the county totals other than Polk, the location of the state capitol. This may inflate the actual totals for Polk and decrease them in other counties. The county totals include amounts to places within them as well as directly to the counties themselves.

Two general areas are listed, the first of which includes direct federal expenditures or obligations. These totaled \$15.6 billion in Iowa for 1999 (Table 1). The second area includes other federal assistance, which amounted to \$6.8 billion. Both of these general areas include subcategories that provide more detailed breakdowns of expenditures.

### Direct Federal Expenditures or Obligations

In 1999, direct federal expenditures or obligations exceeded \$100 million in 28 counties. Polk was the leader with nearly \$3.1 billion; no other county exceeded \$1 billion. In 17 counties, the amount of federal funds received through direct federal expenditures or obligations was less than \$50 million in 1999; they were under \$35 million in Adams and Ringgold. In 1989, \$9.8 billion came to Iowa through direct federal expenditures or obligations (Table 4); this increased to approximately \$13.2 billion in 1994 (Table 3) and \$14.5 billion in 1998 (Table 2). From 1989 to 1999, these expenditures increased by 58.5 percent.

The \$2.6 billion for grants awarded within counties in 1999 accounted for 16.6 percent of the total direct federal expenditures or obligations in Iowa. These funds increased \$326 million from 1994 and \$1.3 billion from 1989 (Tables 1-4). This subcategory includes a large number of federal programs in several areas (see notes at the end of this section). In 1999, 44 counties received at least \$10 million in grant awards from federal sources. Polk (\$735 million) and Johnson (\$177 million) had the largest shares in this subcategory. Adams and Osceola received less than \$3 million in grant awards. Seven counties (Black Hawk, Johnson, Linn, Polk, Scott, Story, Woodbury) had more than half (53.2%) of all grant awards for the state. Polk alone received more than a fourth (28.3%) of the total.

Salaries and wages totaled \$970 million in 1999. These were generated by the Department of Defense, the Postal Service, and other federal agencies for employees in Iowa. The percentage increase in salaries and wages from 1989 to 1999 was 40.2. Salaries and wages paid by federal funds in 1999 exceeded \$10 million in 11 counties, topped by Polk with \$301 million, which accounted for 31.0 percent of all salaries and wages paid by the federal government in Iowa. Polk and three others (Johnson, Linn, Scott) obtained nearly half (49.0%) of all federal funds in this category. On the other hand, 17 counties each received less than \$2 million in federally paid salaries and wages.

Table 1. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1999.

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Indiv.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Adair	42827	7921	1373	16825	6628	313	9769	10880	21431
Adams	25739	2284	1380	10448	4395	313	6920	7084	13280
Allamakee	59151	7428	2999	28932	8988	1348	9456	6740	10448
Appanoose	75538	17966	3870	35379	13197	753	4373	2703	7886
Audubon	42834	7852	1549	16100	6563	355	10415	12686	33340
Benton	104443	9024	3473	45348	16843	7157	22598	24901	59055
Black Hawk	511848	96493	32118	249786	106639	10851	15961	101644	110809
Boone	105980	10255	7519	54446	19034	1084	13642	8817	51593
Bremer	95766	13742	2829	46860	18489	1123	12723	18727	43057
Buchanan	85961	9615	3243	39664	15625	824	16991	23020	40824
Buena Vista	94317	8238	5770	41879	19060	3484	15885	26033	49026
Butler	77026	8693	2388	35101	14979	611	15253	16426	39298
Calhoun	64660	4928	2200	29067	11237	583	16645	9892	51289
Carroll	96688	12352	5103	46239	16639	1366	14989	12127	50392
Cass	75204	7054	3712	36272	15950	739	11476	11340	37111
Cedar	71970	5451	4617	32203	11992	684	17023	19428	47551
Cerro Gordo	220572	44306	9290	107288	38409	4851	16428	34102	59076
Cherokee	66649	6285	2647	31547	11484	669	14017	15283	49010
Chickasaw	118780	5537	2504	27023	10076	60867	12773	20438	33280
Clarke	37144	5074	1522	16549	7392	432	6175	3281	8551
Clay	89862	9565	4116	36426	13135	826	25793	17300	47534
Clayton	87352	11112	4417	39245	14536	1053	16988	13279	27480
Clinton	203307	21530	7152	109306	44269	1788	19261	22479	60219
Crawford	86163	11592	4667	33550	13928	7188	15237	17176	63042
Dallas	127705	24470	5198	62336	22044	1397	12260	15370	51770
Davis	40141	8649	1653	16796	6337	384	6322	6000	11403
Decatur	43815	10055	1871	18012	7553	469	5855	11332	8275
Delaware	69935	8454	2838	29559	10149	786	18148	17937	35703
Des Moines	202307	25272	9713	96138	36700	26244	8239	6077	34711
Dickinson	77629	12556	2368	40721	12626	625	8732	9400	26215
Dubuque	322160	48238	17084	171098	67206	5566	12968	11571	37339
Emmet	61749	7166	2424	26340	11326	3731	10762	22345	31579
Fayette	103466	11500	4743	47331	20120	1170	18602	26514	47234
Floyd	120022	44770	2817	41653	15958	1549	13274	26626	35977
Franklin	59567	9165	2069	22983	8337	512	16503	23621	41279
Fremont	48471	6308	1623	19378	8655	957	11550	10082	43433
Greene	58554	6588	2330	25912	8415	576	14733	8646	52284
Grundy	60584	6865	1831	26915	9444	483	15045	13067	35567
Guthrie	57664	5896	2641	27323	9983	762	11058	9693	33042
Hamilton	76471	7492	2693	35273	14820	696	15496	18428	48711
Hancock	56935	3160	2387	25555	9352	569	15913	20698	49457
Hardin	103776	9504	4214	48240	18185	8013	15620	20163	45202
Harrison	79730	11367	4049	35299	14726	842	13448	13121	52601
Henry	90788	22271	3503	38993	14435	867	10719	8056	22928
Howard	48333	6042	1653	20342	8027	851	11419	16721	31308
Humboldt	55567	4762	2711	25515	9447	583	12548	10942	41492
Ida	41669	3415	1724	18206	6749	398	11178	11604	40481
Iowa	65380	5953	3253	30591	10601	786	14196	9527	30072
Jackson	95352	19129	3562	42573	17310	768	12011	8804	17486
Jasper	140680	15191	5394	73748	27471	1988	16887	11644	55025

Table 1. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1999 (continued).

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Indiv.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Jefferson	60452	8416	4566	26371	11414	815	8871	7105	20192
Johnson	532849	177401	63771	118477	45801	113771	13628	196632	84829
Jones	75550	8233	2740	36249	12625	1071	14631	13962	37752
Keokuk	69222	9456	2974	28237	11266	768	16522	10175	31507
Kossuth	95487	8353	4149	39911	13819	1224	28030	41550	91542
Lee	157220	24054	6532	81810	34554	1844	8426	7133	31816
Linn	962902	104081	55060	330055	111088	346674	15943	49437	149167
Louisa	51312	5799	2456	21831	6891	4667	9667	9930	25692
Lucas	47613	8155	2078	22988	8309	466	5617	3384	7943
Lyon	51325	4303	1738	23180	7984	549	13572	15245	46471
Madison	52230	6110	2152	25729	10689	540	7010	5652	21101
Mahaska	95710	16277	3785	43827	16641	979	14201	8019	33132
Marion	155403	16342	30758	74006	22157	3373	8767	15200	25961
Marshall	190514	29514	6630	90019	27466	21540	15346	12504	49036
Mills	67071	13046	2793	29774	11849	684	8925	5213	35432
Mitchell	55726	4025	1989	26953	9802	526	12430	19285	38625
Monona	66134	9234	2465	26515	12693	569	14659	9691	38631
Monroe	43140	7157	1545	20253	9468	327	4390	1792	10377
Montgomery	60641	6541	2956	28524	13305	611	8703	8232	30638
Muscatine	147305	20811	6148	75898	24551	10061	9836	10988	41827
O'Brien	78859	9605	3356	36072	13819	753	15253	17321	44118
Osceola	35540	2535	1403	14907	5601	341	10752	12506	32939
Page	82493	11731	3607	41452	15528	895	9279	5718	33434
Palo Alto	63864	11284	2113	25432	9492	512	15032	19942	44131
Plymouth	97801	10450	4868	45083	16456	1612	19331	18990	82546
Pocahontas	55989	4336	2214	22820	9452	509	16658	14115	51524
Polk	3064338	734657	300870	655399	252826	98609	1021976	32435	409617
Pottawattamie	791211	63771	11879	182814	71915	2550	458283	22425	161167
Poweshiek	78704	6302	2695	39508	15164	725	14311	11494	31413
Ringgold	32003	4228	1563	12899	4950	384	7979	5024	11831
Sac	61865	4413	2320	29121	10797	661	14553	15289	54271
Scott	610079	86816	55254	323191	103619	27761	13439	31302	193074
Shelby	72601	10305	2616	29807	15004	625	14245	15156	50345
Sioux	117380	15469	4651	51912	20142	2759	22446	15887	71072
Story	359472	100937	43402	109969	50989	39033	15141	116815	84626
Tama	86598	10385	4016	38618	14053	910	18616	19804	39962
Taylor	41171	6337	1887	16612	6376	469	9490	7424	15683
Union	63715	10978	4026	29933	11548	753	6476	9104	10975
Van Buren	38774	4249	2030	18658	7167	483	6188	4342	14073
Wapello	182332	36355	7051	92246	36797	3021	6862	17689	24687
Warren	109483	11736	5366	60873	21458	1209	8841	5691	33343
Washington	88370	8244	3616	45116	15341	753	15300	11568	45508
Wayne	45177	8315	2018	17614	8224	497	8509	3619	11860
Webster	199773	25466	15947	94005	39359	5941	19056	12992	66749
Winnebago	57113	6037	2315	26094	10320	625	11722	31740	35132
Winneshiek	82518	12716	4129	34410	15910	868	14484	35094	18789
Woodbury	443897	80455	44904	198033	80166	21386	18953	23819	131932
Worth	38786	3260	1705	16971	6426	455	9970	22643	36521
Wright	81630	8637	4070	36898	14071	910	17044	14546	49366
Undistributed	553951	109436	0	1171	348521	0	94823	0	241336
State of Iowa	15601525	2595290	969985	5750560	2539325	897901	2848464	1849396	4958850

Table 2. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1998.

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Individ.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Adair	35853	3995	1292	15921	6679	273	7693	7560	23684
Adams	23621	1955	1280	10175	4403	273	5535	4301	12032
Allamakee	55463	6737	2912	27929	9396	837	7652	4230	10645
Appanoose	65941	9801	3534	34751	13435	614	3806	3778	7553
Audubon	35946	4049	1541	15711	6529	335	7780	8457	32632
Benton	83038	8735	3156	43618	16920	865	9744	17827	65021
Black Hawk	488686	81326	29955	243564	115659	7162	11020	39251	92362
Boone	126646	36522	6726	53612	19039	1005	9742	3817	48976
Bremer	81470	6380	2638	43903	18852	969	8728	13481	36612
Buchanan	78803	9875	2769	37726	15301	658	12474	14894	46371
Buena Vista	88951	7368	5573	40333	19038	5484	11156	25447	51867
Butler	69947	6840	2117	33755	14859	519	11857	8900	35834
Calhoun	58160	5160	2119	28157	11453	533	10738	4896	51784
Carroll	94753	14945	4697	44907	19332	1017	9855	7844	49951
Cass	71573	7561	3564	35095	15657	645	9051	9800	36553
Cedar	67252	5606	4289	30766	12163	590	13838	13320	47826
Cerro Gordo	218012	43901	8650	103916	42880	5683	12981	19980	61259
Cherokee	61930	6425	2553	30959	11692	553	9748	8871	48174
Chickasaw	74650	5165	2290	25908	10436	21246	9605	14640	30969
Clarke	34982	4546	1460	16354	6985	379	5258	2879	8299
Clay	85478	7449	3833	35207	13469	756	24764	13296	50296
Clayton	78594	7362	4346	38222	14900	819	12945	10124	24190
Clinton	207128	28421	6677	107174	46797	1612	16448	17433	61417
Crawford	79466	10696	4225	32145	14713	6942	10744	15845	68299
Dallas	115188	16396	4693	60887	22772	1034	9406	18739	50609
Davis	34638	4976	1506	15993	6266	335	5562	4336	27779
Decatur	39833	7688	1777	17342	7451	411	5164	4418	8138
Delaware	66980	6026	2554	28541	10660	5734	13465	12979	37843
Des Moines	230704	28143	9241	94865	39315	52612	6528	5103	34438
Dickinson	66755	4721	2326	39262	12906	583	6956	6181	31046
Dubuque	317393	46811	15716	165574	75126	4208	9957	5967	29703
Emmet	58594	7196	2239	26117	11715	2716	8611	12978	36565
Fayette	96183	10146	4576	45656	19782	1229	14794	15451	47043
Floyd	80927	10013	2753	40302	16880	608	10371	16250	38587
Franklin	51064	4785	1891	22695	8388	440	12865	16783	49022
Fremont	42491	5043	1546	18865	8858	965	7214	7577	43295
Greene	50483	3518	2232	25125	8690	496	10422	4572	51357
Grundy	51066	2780	1788	25493	9456	446	11103	8074	36228
Guthrie	53380	5408	2543	26451	9705	614	8658	5067	31285
Hamilton	70343	5920	2487	34760	14965	632	11579	10704	53559
Hancock	52993	4125	2190	24584	9239	512	12343	13762	50894
Hardin	93760	8308	4032	46592	18174	4631	12023	12477	48637
Harrison	73634	9409	4024	33844	15369	966	10023	8291	54450
Henry	73537	9255	3351	37864	13742	752	8573	5722	22889
Howard	43116	4287	1483	19556	8149	530	9111	11982	29263
Humboldt	53484	7268	2640	24795	9504	558	8718	6807	44352
Ida	42754	8754	1548	17592	6609	335	7916	9331	41834
Iowa	60817	4715	3069	29853	10551	694	11935	6111	30250
Jackson	83444	8374	3514	41193	18689	755	10918	5742	20214
Jasper	137930	14298	4999	71890	28350	5781	12612	13669	49469

Table 2. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1998 (continued).

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Individ.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Jefferson	56854	7176	4193	26325	11560	655	6945	6160	19997
Johnson	562998	153670	63113	115679	51435	168267	10834	48239	77715
Jones	69668	6349	2482	35101	12911	1353	11472	12409	35971
Keokuk	60183	4862	2763	27727	11262	682	12887	9936	30689
Kossuth	84410	6708	3810	37785	14158	931	21017	27633	96641
Lee	157397	24942	6544	81409	36361	1634	6507	5852	31341
Linn	976164	95208	51785	320034	117422	379014	12701	21951	138867
Louisa	49559	6962	2260	21503	7708	2961	8165	6004	26445
Lucas	43417	5174	1865	22464	8773	429	4712	2067	7151
Lyon	45514	3707	1705	21985	8403	741	8973	10883	47091
Madison	49239	5327	2106	24746	10703	508	5848	4069	20561
Mahaska	100520	22016	3659	42989	19220	1833	10804	6677	30673
Marion	147253	11993	31644	71080	23542	2362	6632	17962	23294
Marshall	183283	36721	6346	86182	30278	11878	11878	15495	49531
Mills	89546	38411	2646	29498	12089	613	6289	4786	37338
Mitchell	50603	3339	1883	25735	9909	484	9253	12886	39843
Monona	57956	6066	2295	25830	12790	674	10301	5980	39874
Monroe	40017	4808	1463	19875	10052	285	3534	922	8038
Montgomery	58364	6579	2708	28184	13703	537	6654	5701	29329
Muscatine	139378	15790	5557	73562	27393	9098	7978	8159	42250
O'Brien	67950	5510	3106	34322	13704	675	10633	11069	44694
Osceola	30997	1557	1305	14754	5682	298	7401	6108	36105
Page	76960	9234	3314	40128	16112	769	7404	4345	27320
Palo Alto	55903	7326	2018	24427	9987	524	11621	11806	45637
Plymouth	91382	9034	4672	43345	17168	3088	14075	12435	80462
Pocahontas	49685	3991	1983	22258	9446	409	11598	6057	51316
Polk	2663608	733055	301679	622060	274441	79788	652585	11734	341356
Pottawattamie	650873	52238	11453	179278	72523	2699	332682	11573	163162
Poweshiek	77052	7661	2583	38392	15894	805	11717	10282	29536
Ringgold	29463	3055	1423	12726	4937	347	6974	2894	12773
Sac	56269	4727	2269	28383	10751	508	9631	9431	58492
Scott	632863	97883	57878	316125	110696	39255	11026	13565	162234
Shelby	65700	7992	2529	28170	15628	558	10824	7334	52516
Sioux	101643	8376	4561	49106	21061	3226	15314	12231	68673
Story	332209	82697	40685	106618	48968	42134	11107	13122	83246
Tama	79577	9758	3529	36714	14551	744	14281	13165	42954
Taylor	36507	4506	1768	15906	6578	413	7335	4800	16668
Union	62564	8502	3860	29370	14819	1102	4911	7284	11687
Van Buren	36467	3724	1952	17651	7361	434	5345	2932	14568
Wapello	175447	31920	6697	90196	39325	1896	5414	5913	24570
Warren	110690	17112	5091	58683	22139	1070	6595	14859	28249
Washington	83799	8412	3287	43659	15781	670	11990	8655	35105
Wayne	39269	4601	1879	16928	8260	448	7154	2038	13409
Webster	186788	22756	14945	91228	42549	2365	12946	11657	68692
Winnebago	52483	4323	2176	25443	10037	572	9931	105397	36456
Winneshiek	76084	10335	4177	33528	15245	769	12030	84086	19268
Woodbury	426166	78431	41015	194115	87744	9590	15272	16336	117444
Worth	36946	3364	1562	16767	6399	397	8457	13047	36590
Wright	74236	6471	3571	36214	14655	781	12543	8166	52983
Undistributed	545181	130524	0	1294	312832	0	100531	0	241157
State of Iowa	14534928	2424071	940707	5570979	2616847	929624	2052700	1216037	4851314

Table 3. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1994.

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Individ.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Adair	35792	5587	1376	14845	7960	632	5392	3118	17504
Adams	23541	2254	1792	8976	5624	551	4344	2830	7913
Allamakee	53044	5449	2777	24575	13677	630	5936	3008	4351
Appanoose	70642	12397	4037	31533	16235	2746	3694	1824	6305
Audubon	31989	2025	1647	13815	8338	465	5699	4037	17949
Benton	74438	5911	3006	37378	18143	698	9302	9321	44188
Black Hawk	469134	85447	31338	219121	119319	4551	9358	6031	63276
Boone	97317	7595	8530	47555	26253	763	6621	3347	28682
Bremer	75130	10289	2669	37712	16321	1190	6949	6529	22264
Buchanan	69338	7683	3029	33572	15662	587	8805	7231	18617
Buena Vista	83742	6193	5005	36947	18196	8290	9111	6985	40096
Butler	65575	6491	2376	29580	15440	448	11240	3826	24530
Calhoun	51365	4285	1993	25226	12618	409	6834	2521	29492
Carroll	81425	9554	4580	39630	20403	819	6439	5541	28126
Cass	64972	6168	3253	31899	16951	624	6077	3892	24916
Cedar	59302	4567	4442	27113	13227	577	9376	7018	31445
Cerro Gordo	188816	22095	8605	93067	43005	6118	15926	7119	43288
Cherokee	54949	6428	2568	26981	13458	604	4910	6930	35127
Chickasaw	70412	4624	2180	23255	12404	18333	9616	5297	14005
Clarke	35160	3609	1521	14399	8397	332	6902	2420	5822
Clay	76733	7378	4077	31178	14601	654	18845	5261	39414
Clayton	77839	10464	4289	33961	17545	1656	9924	6632	9619
Clinton	183636	15753	6980	96100	52028	1698	11077	9338	41174
Crawford	76136	12223	4371	28540	17249	5863	7890	8190	38436
Dallas	100077	9387	4576	51641	28513	862	5098	10199	35440
Davis	35280	4320	1663	14657	8578	390	5672	1306	9109
Decatur	45209	9093	1924	15402	12126	422	6242	2380	7526
Delaware	54597	5691	2645	24731	11558	1035	8937	8507	16744
Des Moines	181533	21379	9588	83473	37839	25188	4066	3391	22710
Dickinson	65653	4514	2280	33311	13915	-845	12478	2951	22213
Dubuque	300377	40551	16680	144486	83809	6572	8279	4328	16870
Emmet	65899	5236	2254	23497	12860	3074	18978	1469	29230
Fayette	92899	8468	4625	41119	25597	979	12111	7869	19108
Floyd	75333	10128	2540	36331	15706	478	10150	5542	21309
Franklin	52874	4105	2126	21055	9256	894	15438	4712	30716
Fremont	43796	4499	1671	17354	10266	849	9157	3423	28409
Greene	46098	4713	2183	22676	9990	434	6102	4110	29892
Grundy	46724	2351	1793	22909	10198	370	9103	2469	25708
Guthrie	49156	4337	2617	22813	12468	549	6372	2970	18205
Hamilton	68386	6112	2651	30653	17998	655	10317	4028	38611
Hancock	51647	2515	2197	23090	9276	1434	13135	4008	35091
Hardin	85936	6507	3730	41195	22590	1896	10018	4935	32231
Harrison	69748	9299	3699	29375	18812	1830	6733	4622	30965
Henry	67367	7287	3411	32785	15977	601	7306	3520	20492
Howard	49409	6458	1576	18053	11079	909	11334	3074	16565
Humboldt	48235	3392	2611	22731	11076	544	7881	3032	29607
Ida	31369	3216	1567	15445	6831	352	3958	6441	24134
Iowa	53725	3393	2790	25525	10657	739	10621	3590	21733
Jackson	79892	9396	3498	36056	21734	781	8427	5124	12559
Jasper	123256	15455	5339	62430	30796	999	8237	5716	35985

Table 3. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1994 (continued).

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Individ.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Jefferson	52537	5185	4949	23337	11713	577	6776	3344	19332
Johnson	431772	141019	69753	95501	47167	66753	11579	5927	57253
Jones	65311	7493	2717	30333	15020	886	8862	6018	20786
Keokuk	59946	5255	3042	24701	13529	638	12781	3059	22021
Kossuth	89796	9064	3356	33875	15949	684	26868	7944	76932
Lee	142691	18545	6528	72159	34645	4099	6715	6898	16731
Linn	736749	70336	50406	269055	116406	220117	10429	6706	103909
Louisa	55079	11490	2481	18291	7930	7765	7122	3070	21761
Lucas	45167	5802	2301	19236	12188	523	5117	3141	6729
Lyon	40738	3576	1707	19820	8557	394	6684	4103	30447
Madison	48338	5124	2158	21218	14043	527	5268	2721	12464
Mahaska	83051	12031	3602	37445	19303	1997	8673	3437	23710
Marion	157042	22713	36563	57993	28260	5223	6290	2963	14432
Marshall	157997	32699	6112	76324	29498	4789	8575	4289	32274
Mills	51701	6722	2259	24109	12604	471	5536	5286	23874
Mitchell	48708	3258	1843	22234	9605	402	11366	3279	26320
Monona	54476	6530	2654	23026	13602	574	8090	2693	20677
Monroe	41909	7844	1304	17553	10935	205	4068	1923	5186
Montgomery	56771	5386	2747	25724	17590	629	4695	3516	16633
Muscatine	133313	13364	5588	63963	29691	12067	8640	4403	29427
O'Brien	67760	7017	3138	31074	14790	526	11215	5076	31826
Osceola	37846	3579	1367	13342	6206	259	13093	2326	29244
Page	76204	9208	3170	35733	20689	2017	5387	3049	15080
Palo Alto	61683	7588	2144	22587	11622	532	17210	3845	38584
Plymouth	77246	8643	4285	38202	18233	1204	6679	8576	48103
Pocahontas	43502	3208	2147	20355	8288	341	9163	2514	34190
Polk	2546056	796072	321188	527238	308040	97849	495669	23665	284392
Pottawattamie	509078	55006	13282	155419	81145	2865	201361	7089	109943
Poweshiek	78583	6182	2584	33133	16903	514	19267	7270	23338
Ringgold	31963	4615	1529	11242	5995	409	8173	4067	8666
Sac	49094	4272	2459	25210	11970	403	4780	5877	34301
Scott	529641	79553	28507	273946	124688	16574	6373	8612	131335
Shelby	56190	9588	2507	24726	12717	973	5679	6038	29644
Sioux	94844	11704	4493	43178	22211	5909	7349	10369	42193
Story	338352	102298	39700	89832	52180	43599	10743	6249	51862
Tama	71418	6189	3919	33114	15046	872	12278	6980	30359
Taylor	38420	4851	1977	14489	8490	1494	7119	1504	11152
Union	65088	9743	3769	26197	19565	704	5110	2788	8199
Van Buren	34677	3129	1831	15137	7878	341	6361	1350	10457
Wapello	179416	35707	7263	80856	48254	1703	5633	3069	18972
Warren	93471	10071	4987	46412	24057	933	7011	3130	24742
Washington	81859	16027	3984	35908	14763	890	10287	5427	27742
Wayne	44717	5785	2040	15987	12562	512	7831	1950	9878
Webster	172877	18189	15734	82612	44942	2256	9144	3318	45880
Winnebago	54434	4468	2328	22363	10977	468	13830	3249	32664
Winneshiek	71266	6991	4098	29308	19971	672	10226	2885	6975
Woodbury	407306	57636	43463	177750	109707	8667	10083	6102	86447
Worth	38394	2431	1450	15614	6935	302	11662	3981	34921
Wright	66954	4872	3134	32759	13865	536	11788	3811	37112
Undistributed	426058	104720	659	1107	248116	0	71456	0	384962
State of Iowa	13152387	2269050	953879	4870474	2791599	634875	1632510	480849	3531758

Table 4. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1989.

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Indiv.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Adair	32675	2903	1250	11942	4093	137	12350	2933	20941
Adams	22500	2405	1399	7444	2929	137	8186	2374	11461
Allamakee	52286	2943	1941	19141	6772	10033	11456	1306	10044
Appanoose	52625	6297	3035	26070	8339	2453	6431	6316	8735
Audubon	30106	1774	1590	11336	4147	169	11090	3893	18642
Benton	70322	3487	2511	28842	9373	337	25772	6705	53821
Black Hawk	355684	69855	22680	170471	61700	11008	19970	5766	70787
Boone	81835	4451	5548	38344	13232	4474	15786	2895	43726
Bremer	74340	3932	2314	29242	9406	16042	13404	4226	28227
Buchanan	67506	7413	2616	26703	8796	337	21641	5623	30725
Buena Vista	62055	3191	3958	29333	11164	327	14082	6020	36021
Butler	52747	3258	2053	23292	8268	274	15602	5563	28034
Calhoun	45045	2185	1962	20593	6595	258	13452	5539	26754
Carroll	62497	4610	3742	30635	10082	427	13001	5727	25469
Cass	59195	9884	2519	25161	8572	258	12801	4858	22684
Cedar	60466	2806	3082	20603	6687	1814	25474	5339	42383
Cerro Gordo	136641	12014	7864	71351	22624	3084	19704	9306	42223
Cherokee	46193	3038	2127	21391	6856	316	12465	6571	28616
Chickasaw	46660	2650	1847	18037	6810	1712	15604	4768	18502
Clarke	29251	3944	1320	10950	4571	116	8350	928	6013
Clay	55749	4202	3294	24083	7560	742	15868	8141	27357
Clayton	67707	5560	3298	27056	9778	408	21607	2705	24636
Clinton	151219	9554	6302	75289	26138	1005	32931	4902	44845
Crawford	58335	4118	3755	22544	8977	4746	14195	11327	30953
Dallas	78764	5874	3876	38667	14645	427	15275	3997	39214
Davis	28410	2564	1279	11817	4575	153	8022	528	7748
Decatur	38030	9192	1636	12359	6489	195	8159	714	7579
Delaware	58145	3379	2226	18894	6337	263	27046	2614	36282
Des Moines	181332	4848	7612	64706	19009	74326	10831	2709	24157
Dickinson	46024	2553	1834	24823	7092	704	9018	3814	15006
Dubuque	250058	56867	15063	111150	42064	6706	18208	1723	28284
Emmet	41961	3084	1898	18387	7555	205	10832	6731	22166
Fayette	83238	6653	3738	32390	13685	696	26076	6172	30507
Floyd	60877	5084	2244	29246	8059	263	15981	6844	21318
Franklin	45950	2054	1928	16798	5224	1431	18515	10689	39812
Fremont	32929	2319	1379	14093	5254	179	9705	6314	18344
Greene	43989	2888	1809	18079	5298	216	15699	4659	37281
Grundy	42639	1119	1673	18171	5458	221	15997	5117	38604
Guthrie	41167	3233	1950	18208	6502	242	11032	3512	19461
Hamilton	60135	4183	2287	23845	9696	279	19845	4538	42291
Hancock	41174	1582	1903	16523	5076	243	15847	9480	32333
Hardin	73137	4488	2941	32651	12377	379	20301	7285	46167
Harrison	56265	6775	3068	23110	9591	321	13400	6726	29629
Henry	53823	3259	2852	25583	7971	501	13657	3027	28147
Howard	40623	2695	1271	14326	6020	782	15529	2960	16714
Humboldt	39290	2314	2088	17635	5471	237	11545	4621	26526
Ida	30052	2364	1234	12611	3563	126	10154	5704	24061
Iowa	53823	1831	2489	20056	5694	391	23362	1030	34388
Jackson	68262	5783	2881	28056	10818	2439	18285	2724	23041
Jasper	93495	8293	3880	46939	15253	476	18654	5197	38095



Table 4. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1989 (continued).

County	Direct Federal Expenditures or Obligations						Other Federal Assistance		
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments to Individ.	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Jefferson	44310	3719	3466	18964	6268	357	11536	2545	24436
Johnson	279094	90554	38448	66429	26211	37660	19792	2664	50797
Jones	61709	3316	2231	23646	8036	285	24195	3116	34302
Keokuk	56850	4030	2518	20014	7010	360	22918	2005	32109
Kossuth	69550	3841	2949	26771	8416	332	27241	17255	61762
Lee	103815	10039	5377	57874	18184	821	11520	1724	21533
Linn	620096	36597	41894	195158	60319	247448	38680	2462	100253
Louisa	38996	2513	2147	14474	4113	195	15554	3196	22381
Lucas	33660	3547	1694	15516	6164	360	6379	577	8432
Lyon	36460	1830	1672	15172	4380	211	13195	4800	25065
Madison	38329	2411	1868	16840	7823	211	9176	1930	13073
Mahaska	67896	6146	3118	30164	10285	332	17851	2589	31064
Marion	106014	8101	27041	44082	15160	3387	8243	2770	17882
Marshall	115922	15103	4885	59903	15332	553	20146	3972	40644
Mills	42252	6457	1984	18299	6427	221	8864	3823	20808
Mitchell	41224	2254	1688	17657	5242	227	14156	4589	22252
Monona	45810	4138	2162	18480	6984	253	13793	4751	15103
Monroe	30856	3633	1160	14544	5769	137	5613	594	7841
Montgomery	43498	2746	2187	20294	9328	227	8716	4108	17385
Muscatine	98383	7564	4690	49387	14571	6530	15641	2711	32508
O'Brien	53225	3946	2891	23887	8146	364	13991	9001	24073
Osceola	27195	1408	1133	10495	3311	132	10716	4831	19813
Page	59530	5573	3349	29415	10888	451	9854	3164	18166
Palo Alto	46784	5122	1978	17726	6026	242	15690	6808	24502
Plymouth	71053	5055	4035	29160	10081	348	22374	5375	42906
Pocahontas	40384	2696	1784	16186	4398	259	15061	5313	33097
Polk	1446347	296922	204914	387463	154935	73275	328838	10560	179900
Pottawattamie	220672	29657	10056	116710	39831	3977	20441	9055	80438
Poweshiek	71931	3302	2074	24911	8998	367	32279	3716	32276
Ringgold	26195	2065	1561	8408	3194	190	10777	937	11520
Sac	44345	2362	2192	20430	6311	258	12792	8668	32137
Scott	363790	39964	20975	194033	66166	24057	18595	8047	85758
Shelby	48004	5662	2208	18212	6703	253	14966	6464	29593
Sioux	87336	7986	3649	32711	13001	8687	21302	6142	34489
Story	229974	56499	30060	66472	33524	25190	18229	5367	56605
Tama	64946	6787	3113	25580	7989	967	20510	7050	44772
Taylor	32716	3311	1707	12328	4443	205	10722	1966	12792
Union	45569	5202	3185	20615	9097	316	7154	3725	11294
Van Buren	30270	3206	1558	11848	4204	227	9227	655	10543
Wapello	121155	15390	6454	64524	25099	959	8729	3382	17148
Warren	65239	6035	3849	33151	12407	411	9386	4935	27040
Washington	67780	3450	3156	28092	7900	306	24876	2230	36842
Wayne	35983	3249	1769	13198	6481	249	11037	1167	11007
Webster	133650	13022	11964	64817	22604	1018	20225	4461	48529
Winnebago	42087	2434	1730	17383	5954	232	14354	11329	23037
Winneshiek	59006	3625	3292	22706	11656	392	17335	2225	12048
Woodbury	292839	34339	30968	139242	55647	10957	21686	6943	67239
Worth	34638	3827	1183	12593	3657	163	13215	6299	19570
Wright	57113	3983	2719	25670	7225	306	17210	8174	36285
Undistributed	488708	176838	0	735	180664	0	130471	0	152238
State of Iowa	9840421	1303209	691730	3731346	1508802	607883	1997451	473329	3264040

Table 5. Percentage of Total Direct Federal Funds Received as Retirement and Disability Payments in Iowa's Counties, 1989, 1994, 1998, and 1999.

County	1999	1998	1994	1989	County	1999	1998	1994	1989
Adair	39.3	44.4	41.5	36.5	Jefferson	43.6	46.3	44.4	42.8
Adams	40.6	43.1	38.1	33.1	Johnson	22.2	20.5	22.1	23.8
Allamakee	48.9	50.4	46.3	36.6	Jones	48.0	50.4	46.4	38.3
Appanoose	46.8	52.7	44.6	49.5	Keokuk	40.8	46.1	41.2	35.2
Audubon	37.6	43.7	43.2	37.7	Kossuth	41.8	44.8	37.7	38.5
Benton	43.4	52.5	50.2	41.0	Lee	52.0	51.7	50.6	55.7
Black Hawk	48.8	49.8	46.7	47.9	Linn	34.3	32.8	36.5	31.5
Boone	51.4	42.3	48.9	46.9	Louisa	42.5	43.4	33.2	37.1
Bremer	48.9	53.9	50.2	39.3	Lucas	48.3	51.7	42.6	46.1
Buchanan	46.1	47.9	48.4	39.6	Lyon	45.2	48.3	48.7	41.6
Buena Vista	44.4	45.3	44.1	47.3	Madison	49.3	50.3	43.9	43.9
Butler	45.6	48.3	45.1	44.2	Mahaska	45.8	42.8	45.1	44.4
Calhoun	45.0	48.4	49.1	45.7	Marion	47.6	48.3	36.9	41.6
Carroll	47.8	47.4	48.7	49.0	Marshall	47.3	47.0	48.3	51.7
Cass	48.2	49.0	49.1	42.5	Mills	44.4	32.9	46.6	43.3
Cedar	44.7	45.7	45.7	34.1	Mitchell	48.4	50.9	45.6	42.8
Cerro Gordo	48.6	47.7	49.3	52.2	Monona	40.1	44.6	42.3	40.3
Cherokee	47.3	50.0	49.1	46.3	Monroe	46.9	49.7	41.9	47.1
Chickasaw	22.8	34.7	33.0	38.7	Montgomery	47.0	48.3	45.3	46.7
Clarke	44.6	46.7	41.0	37.4	Muscatine	51.5	52.8	48.0	50.2
Clay	40.5	41.2	40.6	43.2	O'Brien	45.7	50.5	45.9	44.9
Clayton	44.9	48.6	43.6	40.0	Osceola	41.9	47.6	35.3	38.6
Clinton	53.8	51.7	52.3	49.8	Page	50.2	52.1	46.9	49.4
Crawford	38.9	40.5	37.5	38.6	Palo Alto	39.8	43.7	36.6	37.9
Dallas	48.8	52.9	51.6	49.1	Plymouth	46.1	47.4	49.5	41.0
Davis	41.8	46.2	41.5	41.6	Pocahontas	40.8	44.8	46.8	40.1
Decatur	41.1	43.5	34.1	32.5	Polk	21.4	23.4	20.7	26.8
Delaware	42.3	42.6	45.3	32.5	Pottawattamie	23.1	27.5	30.5	52.9
Des Moines	47.5	41.1	46.0	35.7	Poweshiek	50.2	49.8	42.2	34.6
Dickinson	52.5	58.8	50.7	53.9	Ringgold	40.3	43.2	35.2	32.1
Dubuque	53.1	52.2	48.1	44.4	Sac	47.1	50.4	51.3	46.1
Emmet	42.7	44.6	35.7	43.8	Scott	53.0	50.0	51.7	53.3
Fayette	45.7	47.5	44.3	38.9	Shelby	41.1	42.9	44.0	37.9
Floyd	34.7	49.8	48.2	48.0	Sioux	44.2	48.3	45.5	37.5
Franklin	38.6	44.4	39.8	36.6	Story	30.6	32.1	26.5	28.9
Fremont	40.0	44.4	39.6	42.8	Tama	44.6	46.1	46.4	39.4
Greene	44.3	49.8	49.2	41.1	Taylor	40.3	43.6	37.7	37.7
Grundy	44.4	49.9	49.0	42.6	Union	47.0	46.9	40.2	45.2
Guthrie	47.4	49.6	46.4	44.2	Van Buren	48.1	48.4	43.7	39.1
Hamilton	46.1	49.4	44.8	39.7	Wapello	50.6	51.4	45.1	53.3
Hancock	44.9	46.4	44.7	40.1	Warren	55.6	53.0	49.7	50.8
Hardin	46.5	49.7	47.9	44.6	Washington	51.1	52.1	43.9	41.4
Harrison	44.3	46.0	42.1	41.1	Wayne	39.0	43.1	35.8	36.7
Henry	42.9	51.5	48.7	47.5	Webster	47.1	48.8	47.8	48.5
Howard	42.1	45.4	36.5	35.3	Winnebago	45.7	48.5	41.1	41.3
Humboldt	45.9	46.4	47.1	44.9	Winneshiek	41.7	44.1	41.1	38.5
Ida	43.7	41.1	49.2	42.0	Woodbury	44.6	45.5	43.6	47.5
Iowa	46.8	49.1	47.5	37.3	Worth	43.8	45.4	40.7	36.4
Jackson	44.6	49.4	45.1	41.1	Wright	45.2	48.8	48.9	44.9
Jasper	52.4	52.1	50.7	50.2	Undistributed	0.2	0.2	0.3	0.2
					State of Iowa	36.9	38.3	37.0	37.9

More than a third (36.9%) of the total direct federal expenditures or obligations went for retirement and disability payments; nearly \$5.7 billion was received by individuals in Iowa in 1999. This includes federal employee retirement and disability benefits, Social Security payments of all types, selected Veterans Administration programs, and selected other federal programs. The increase in the amount in this subcategory was \$2.0 billion (54.1%) from 1989 to 1999. Retirement or disability payments constituted the largest part of direct federal expenditures and obligations in all but six Iowa counties. Chickasaw, Floyd, Johnson, Linn, Polk, and Pottawattamie, which were the exceptions, received more federal funds in grant or procurement contract awards or in the "other" category. Twenty-three counties received at least \$50 million in the retirement/disability category in 1999, with 11 above \$100 million. Only Adams, Osceola, and Ringgold noted less than \$15 million in this subcategory of payments to individuals.

Another 16.3 percent (\$2.5 billion) of the total direct federal expenditures or obligations were in the form of other payments to individuals. Included here would be federal payments for Medicare, unemployment compensation, some types of veterans compensation, supplemental security income payments, and food stamps, for example. In 1999, other payments received by individuals ranged from \$4.4 million in Adams to \$253 million in Polk. Black Hawk, Linn, and Scott also had more than \$100 million in other payments to individuals from federal sources.

Procurement contract awards totaled nearly \$900 million in 1999. These are contracts with the Department of Defense, Postal Service, and other federal agencies. This subcategory was the most unevenly distributed across counties among the data reported in Tables 1 through 4. In 1999, four counties (Chickasaw, Johnson, Linn, Polk) received more than two-thirds (69.0%) of all dollars for procurement contract awards in the state, with Linn alone accounting for 38.6 percent of the total.

The "other" subcategory among direct federal expenditures or obligations amounted to \$2.8 billion in 1999. This subcategory included a variety of federal programs (National Science Foundation, National Aeronautics and Space Administration, National Endowments for the Arts and for the Humanities, additional Department of Agriculture programs, and National Flood Insurance Claim Payments, among others). Most of these funds in Iowa were related to agriculture (feed grain production stabilization payments, conservation reserve program, crop insurance claims and payments), although none of these were direct payments to individuals. In 1999, Polk (\$1 billion) and Pottawattamie (\$458 million) exceeded \$100 million in this subcategory.

### **Other Federal Assistance**

Data for two other kinds of federal assistance were available. Direct loans from federal sources (commodity loans-price supports, farmers home administration-rural housing loans, water and waste disposal system loans, housing for the elderly or handicapped) accounted for \$1.8 billion of the \$6.8 billion total for other federal assistance. These figures tend to vary by huge amounts from year to year, primarily because direct loans related to agriculture were much greater some years than others. In Iowa, \$1.2 billion of the \$1.8 billion in this subcategory was related to commodity loans in 1999. Direct loans were at least \$20 million in 24 counties in 1999; in 1998, seven counties exceeded that level.

Guaranteed loans and insurance totaled nearly \$5.0 billion in 1999. This subcategory included several loan programs (mortgage insurance for homes, higher education act insured loans, veterans housing loans, small-business loans, for example) and two types of insurance (flood, crop). Figures for these expenditures also vary substantially from one year to the next. Nearly \$3.1 billion of the \$5.0 billion for guaranteed loans and insurance was related to crop insurance in 1999. Totals from all the guaranteed loan and insurance programs exceeded \$50 million in 26 counties, led by Polk with \$410 million. Four others received less than \$10 million in guaranteed loans and insurance from federal sources.

### **Percentage of Total Direct Funds Received as Retirement and Disability Payments**

In 1999, retirement and disability payments accounted for more than \$1 of every \$3 of total direct federal funds sent to Iowa (Table 5). The 1999 figure (36.9%) was slightly lower than those for 1998 (38.3%), 1994 (37.0%), and 1989 (37.9%). In 1999, retirement or disability payments accounted for at

least 50 percent of all the funds from direct federal expenditures or obligations in 13 counties. In 1989, 10 counties had percentages of at least 50 when retirement or disability payments were compared with total federal funds disbursed. The percentage that retirement and disability payments constituted of all federal funds increased in most counties when 1989 and 1999 were compared.

**Notes:** The source of this information is an annual CONSOLIDATED FEDERAL FUNDS REPORT: FISCAL YEAR, Volume 1: County Areas (Washington, DC: U.S. Department of Commerce, Bureau of the Census). See also a companion report on subcounty areas (Volume II) and a state report (FEDERAL EXPENDITURES BY STATE FOR FISCAL YEAR). Information by county for other years 1983-1988, 1990-1993, 1995-1997) were presented in previous editions of our data book.

As an example of the type of programs included, expenditures on grants were accumulated from the following federal sources: Department of Agriculture, Department of Commerce, Department of Defense, Department of Education, Department of Energy, Environmental Protection Agency, Equal Employment Opportunity Commission, Federal Emergency Management Agency, Department of Health and Human Services, Department of Housing and Urban Development, Department of Interior, Department of Justice, Department of Labor, National Foundation on the Arts and the Humanities, Department of Transportation, Department of Treasury, and Department of Veterans Affairs. Each of these has many subdivisions, of course; in agriculture, for example, 22 areas are noted, including the Agricultural Marketing Service, Extension Service, Farmers Home Administration, Food and Nutrition Service, Food Safety and Inspection Service, Forest Service, and Soil Conservation Service. Although these subdivisions contribute to the total figures, information by county is not included on each one of them.

Some negative signs may be included in the tables. That's because initial amounts obligated may be adjusted at a later date, either through enhancements or deobligations. These deobligations appear as negative amounts.

## Chapter 7 Bankruptcy Cases Filed in Iowa's Counties: 1993-1999

Margaret Hanson, Iowa State University  
Willis Goudy, Iowa State University  
George Prentice, Clerk, U.S. Bankruptcy Court (Northern District of Iowa)  
Mary M. Weibel, Clerk, U.S. Bankruptcy Court (Southern District of Iowa)

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Filing for bankruptcy can be done in several manners, although Chapter 7 filings are the most common. An individual can file; joint spouse filings are permitted as well. Nonindividuals (for example, corporations and partnerships) also can file for Chapter 7 bankruptcy. Chapter 7 is designed for debtors in financial difficulty who do not have the ability to pay their existing debts. The purpose of filing a Chapter 7 case is to obtain a discharge of those existing debts; however, some debts (for example, certain taxes, student loans, alimony) may not be discharged under the law. The Northern and Southern Federal District Courts handle records of Chapter 7 filings in the State of Iowa. Cases are recorded according to the county of residence of persons filing them.

In 1999, 7,645 Chapter 7 bankruptcy cases were filed in Iowa. Generally, the higher the population in a county, the greater the number of cases (Table 1). Polk had 1,180, while Linn and Scott were the only others with at least 500 that year. These three counties accounted for nearly 3 of every 10 (29.4%) of Chapter 7 cases. Another 13 counties had at least 100 filings that year. Fewer than 40 cases were listed in more than half (56) of Iowa's counties; Adair, Osceola, and Ringgold were the only counties reporting 10 or fewer in 1999, however. In 1994, 17 counties had 10 or fewer cases, while 10 noted at least 100.

Chapter 7 bankruptcy cases in Iowa increased dramatically from 1993 to 1997. The gain was more than 4,000, which represented nearly an 84.8 percent increase in that relatively brief period. A particularly large gain occurred from 1995 to 1996. From 1997 to 1999, however, a decline occurred; although the drop was relatively small (-280) the first year, it was substantially greater from 1998 to 1999 (-934).

More Chapter 7 bankruptcy cases were filed in 1999 than in 1994 for all counties except Chickasaw, Crawford, Franklin, Iowa, Jefferson, Monroe, and Wayne. Increases were at least 100 in Black Hawk, Des Moines, Linn, Polk, Pottawattamie, Scott, and Woodbury, with the gain of 367 in Polk the only one greater than 250. Statewide, there were 2,785 more Chapter 7 filings in 1999 than five years earlier.

**Notes:** The numbers in Table 1 differ from those published in the 1998 edition of this volume. Only Chapter 7 personal bankruptcies were included then, while all under Chapter 7 are counted in this 2000 edition. Personal bankruptcies greatly outnumber other Chapter 7 types, however.

Table 1. Chapter 7 Bankruptcy Filings in Iowa's Counties, 1993-1999.

County	1999	1998	1997	1996	1995	1994	1993	County	1999	1998	1997	1996	1995	1994	1993
Adair	10	14	28	12	5	4	10	Jefferson	46	59	61	73	50	46	33
Adams	12	9	16	5	3	2	3	Johnson	155	192	193	170	94	90	102
Allamakee	24	25	26	24	18	12	4	Jones	41	31	52	43	26	21	16
Appanoose	45	42	33	32	19	14	15	Keokuk	22	35	28	20	21	9	12
Audubon	15	13	13	12	18	8	8	Kossuth	25	21	23	30	19	13	23
Benton	59	72	68	56	35	42	30	Lee	136	143	136	109	86	67	53
Black Hawk	325	399	380	375	243	225	198	Linn	550	596	616	458	339	305	312
Boone	69	67	94	97	65	51	40	Louisa	36	52	19	25	18	23	16
Bremer	34	35	36	33	31	22	21	Lucas	17	22	22	18	9	14	16
Buchanan	62	66	57	50	37	26	30	Lyon	14	11	17	13	9	9	5
Buena Vista	42	48	47	35	28	33	28	Madison	44	31	34	38	27	25	21
Butler	36	36	40	29	24	11	15	Mahaska	58	75	14	18	8	13	8
Calhoun	17	32	34	34	18	15	15	Marion	78	70	92	77	53	53	46
Carroll	29	37	44	33	24	19	34	Marshall	93	92	125	109	83	64	62
Cass	43	45	40	30	23	25	11	Mills	43	58	55	48	32	25	24
Cedar	38	46	41	29	21	12	16	Mitchell	18	15	10	13	7	9	10
Cerro Gordo	111	122	143	127	89	74	81	Monona	43	39	36	30	20	27	23
Cherokee	31	31	31	39	28	16	26	Monroe	12	22	34	24	9	15	11
Chickasaw	16	23	28	24	12	17	19	Montgomery	35	30	41	34	23	16	23
Clarke	18	27	28	24	9	16	17	Muscatine	143	148	149	151	104	111	102
Clay	44	49	43	35	23	22	32	O'Brien	29	31	24	20	20	17	23
Clayton	40	40	31	40	27	15	13	Osceola	10	10	13	10	16	5	4
Clinton	150	206	172	164	160	114	120	Page	41	38	36	40	21	24	11
Crawford	25	38	49	37	30	26	19	Palo Alto	19	22	10	14	8	11	8
Dallas	93	112	113	87	65	45	47	Plymouth	53	62	67	46	38	24	20
Davis	15	11	21	17	12	8	7	Pocahontas	26	14	11	23	20	12	6
Decatur	13	18	22	22	11	12	6	Polk	1180	1363	1524	1286	1006	813	887
Delaware	32	31	33	34	25	15	11	Pottawattamie	356	378	400	395	232	243	251
Des Moines	226	239	228	222	178	122	132	Poweshiek	37	40	35	34	26	18	21
Dickinson	35	46	52	34	25	29	30	Ringgold	8	7	14	8	7	5	8
Dubuque	203	203	211	151	142	106	121	Sac	28	26	20	25	17	21	20
Emmet	22	23	36	27	25	19	19	Scott	518	600	577	533	487	331	344
Fayette	52	43	57	21	30	21	21	Shelby	23	29	25	21	24	19	8
Floyd	25	58	46	39	24	20	24	Sioux	41	36	36	37	29	18	15
Franklin	18	23	13	21	17	18	18	Story	115	164	157	125	74	83	65
Fremont	23	25	34	19	14	10	14	Tama	35	35	39	41	25	22	23
Greene	19	30	24	15	19	14	10	Taylor	19	8	20	11	5	11	11
Grundy	13	23	22	18	26	10	9	Union	33	33	32	38	23	16	20
Guthrie	27	34	14	27	19	20	21	Van Buren	19	25	23	20	8	10	5
Hamilton	33	34	41	42	32	28	29	Wapello	136	108	138	145	97	82	63
Hancock	18	16	26	39	21	14	14	Warren	91	99	109	124	79	69	65
Hardin	48	42	38	44	39	33	20	Washington	64	55	50	36	45	23	23
Harrison	41	51	49	47	34	33	22	Wayne	21	29	23	21	11	21	7
Henry	67	97	88	59	55	45	42	Webster	114	131	180	143	119	84	84
Howard	18	6	19	16	11	4	10	Winnebago	20	30	24	26	18	14	17
Humboldt	24	36	34	26	24	10	20	Winneshiek	12	23	27	18	16	10	6
Ida	16	11	16	22	14	7	8	Woodbury	429	493	500	378	328	301	274
Iowa	18	41	22	31	17	21	15	Worth	19	17	24	16	8	9	7
Jackson	38	40	45	45	24	24	20	Wright	34	35	34	57	24	20	20
Jasper	74	81	104	103	65	60	66								
State of Iowa									7645	8579	8859	7796	5826	4860	4795

## County Business Patterns in Iowa: 1988, 1993, 1997, and 1998

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Each year, the U.S. Bureau of the Census publishes reports on business patterns for counties in every state. Most of the economic divisions of the economy are covered in these reports, including agricultural services, mining, construction, manufacturing, transportation, public utilities, wholesale trade, retail trade, finance, insurance, real estate, and service industries. The data generally represent 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. Data for employees of establishments totally exempt from FICA are excluded, as are self-employed persons, domestic service workers, railroad employees, agricultural production workers, most government employees, and employees in foreign countries.

The number of establishments, number of employees, and annual payroll are reported. An establishment is a single physical location where business is conducted or where services or industrial operations are performed. Paid employment consists of full- and part-time employees who were on the payroll in the pay period including March 12. This includes salaried officers and executives of corporations and employees on paid sick leave, holidays, or vacations. Total annual payroll is the combined amount of wages, salaries, tips reported, commissions, bonuses, vacation allowances, 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 80,838 of these establishments in 1998, nearly 3,900 more than were reported in 1993 and 9,100 more than the 1988 figure (Table 1). Iowa's most populous counties had the largest number of establishments; Polk's total of 11,307 in 1998 was more than double those of Linn or Scott. Nine counties had fewer than 200. In the span from 1988 to 1998, only Pocahontas declined by more than 20 businesses, although seven others also had fewer establishments in 1998 than in 1988. Polk had nearly 1,700 more firms in 1998 than in 1988. Three others (Johnson, Linn, Scott) increased by at least 500.

### Number of Employees

Employees in these establishments numbered more than 1.2 million in 1998 (Table 1). The gain in employees between 1993 and 1998 was 141,000. The period of 1988 to 1998 saw Iowa's employees increase by 293,000. Not surprisingly, Polk had the most employees in 1998, followed by Linn, Scott, and Black Hawk, respectively. Twelve counties reported fewer than 2,000 workers in their establishments; Adams, Ringgold, and Taylor were the only ones with fewer than 1,000. Even though there were substantial statewide gains in employees between 1988 and 1998, Adams, Floyd, Louisa, and Taylor had fewer at the end of the period than at the beginning. Black Hawk, Johnson, Linn, Polk, Scott, and Woodbury had gains of at least 10,000 employees when 1988 and 1998 were compared.

Table 1. Business Establishments and Employees in Iowa's Counties, 1988, 1993, 1997, and 1998.

County	Number of Business Establishments				Number of Employees				Average No. of Employees Per Business Establishment			
	1998	1997	1993	1988	1998	1997	1993	1988	1998	1997	1993	1988
Adair	212	223	214	226	2064	2075	1763	1862	9.7	9.3	8.2	8.2
Adams	128	126	120	122	945	1009	1000	1016	7.4	8.0	8.3	8.3
Allamakee	439	434	406	396	4526	4378	4083	3371	10.3	10.1	10.1	8.5
Appanoose	346	347	337	318	3571	3406	3260	2908	10.3	9.8	9.7	9.1
Audubon	230	230	210	197	1432	1424	1553	1087	6.2	6.2	7.4	5.5
Benton	611	610	549	530	4421	4330	3672	3323	7.2	7.1	6.7	6.3
Black Hawk	3210	3222	3163	2950	58478	57646	50841	42766	18.2	17.9	16.1	14.5
Boone	574	556	545	521	6785	6781	6475	4680	11.8	12.2	11.9	9.0
Bremer	631	637	616	567	7938	7584	7631	6767	12.6	11.9	12.4	11.9
Buchanan	547	536	482	446	5210	4857	4331	3266	9.5	9.1	9.0	7.3
Buena Vista	627	625	625	624	8282	7977	7508	6394	13.2	12.8	12.0	10.2
Butler	389	390	364	372	2270	2482	2352	1903	5.8	6.4	6.5	5.1
Calhoun	317	317	339	331	2444	2379	2440	2042	7.7	7.5	7.2	6.2
Carroll	842	861	799	718	10289	9660	8903	7000	12.2	11.2	11.1	9.7
Cass	502	497	510	488	5519	5351	5019	4782	11.0	10.8	9.8	9.8
Cedar	496	491	465	438	3896	4036	3625	2940	7.9	8.2	7.8	6.7
Cerro Gordo	1480	1484	1444	1405	22580	22195	18870	17725	15.3	15.0	13.1	12.6
Cherokee	391	390	377	380	4283	4270	4371	3430	11.0	10.9	11.6	9.0
Chickasaw	399	401	393	374	4156	4056	3866	3286	10.4	10.1	9.8	8.8
Clarke	237	224	214	210	3008	2754	2318	2188	12.7	12.3	10.8	10.4
Clay	625	633	619	595	8347	8268	6681	5728	13.4	13.1	10.8	9.6
Clayton	571	571	535	509	5519	5726	4268	4002	9.7	10.0	8.0	7.9
Clinton	1319	1326	1256	1190	19264	18770	17885	15864	14.6	14.2	14.2	13.3
Crawford	477	479	486	477	5508	5542	5065	4951	11.5	11.6	10.4	10.4
Dallas	828	818	718	592	9216	8739	7325	5156	11.1	10.7	10.2	8.7
Davis	179	180	179	179	1654	1663	1460	1147	9.2	9.2	8.2	6.4
Decatur	174	176	178	175	2402	2262	2189	1897	13.8	12.9	12.3	10.8
Delaware	455	451	414	398	4351	4177	3619	2797	9.6	9.3	8.7	7.0
Des Moines	1231	1212	1244	1181	20967	20736	19351	18214	17.0	17.1	15.6	15.4
Dickinson	728	725	647	561	7040	7364	6590	4340	9.7	10.2	10.2	7.7
Dubuque	2599	2621	2496	2255	47588	48464	45017	40225	18.3	18.5	18.0	17.8
Emmet	305	309	316	280	3510	3405	2992	2603	11.5	11.0	9.5	9.3
Fayette	654	659	641	626	7177	7141	6111	4870	11.0	10.8	9.5	7.8
Floyd	462	473	456	440	4416	4435	4896	4504	9.6	9.4	10.7	10.2
Franklin	342	341	312	317	3034	2930	2436	2339	8.9	8.6	7.8	7.4
Fremont	187	193	201	177	1497	1428	1329	1183	8.0	7.4	6.6	6.7
Greene	313	314	291	290	2578	2519	2249	2137	8.2	8.0	7.7	7.4
Grundy	321	317	329	313	2619	2492	2442	2076	8.2	7.9	7.4	6.6
Guthrie	291	293	283	234	1841	1914	1746	1650	6.3	6.5	6.2	7.1
Hamilton	454	447	440	445	6423	6803	6007	5694	14.1	15.2	13.7	12.8
Hancock	331	332	346	319	3033	3004	3440	2838	9.2	9.0	9.9	8.9
Hardin	656	660	635	656	7088	6933	5916	5077	10.8	10.5	9.3	7.7
Harrison	365	379	334	338	2958	2952	2516	2169	8.1	7.8	7.5	6.4
Henry	539	536	517	473	11127	11515	9187	7160	20.6	21.5	17.8	15.1
Howard	293	290	274	241	3449	3198	2438	1736	11.8	11.0	8.9	7.2
Humboldt	315	317	323	314	3944	3767	2744	2407	12.5	11.9	8.5	7.7
Ida	267	280	259	242	3285	3309	2767	2443	12.3	11.8	10.7	10.1
Iowa	519	521	483	407	9196	8515	8126	5972	17.7	16.3	16.8	14.7
Jackson	575	574	532	485	5119	5128	4637	3554	8.9	8.9	8.7	7.3
Jasper	852	844	806	747	13041	11427	9614	10645	15.3	13.5	11.9	14.3



Table 1. Business Establishments and Employees in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Number of Business Establishments				Number of Employees				Average No. of Employees Per Business Establishment			
	1998	1997	1993	1988	1998	1997	1993	1988	1998	1997	1993	1988
Jefferson	685	688	638	515	8048	7798	7343	5797	11.7	11.3	11.5	11.3
Johnson	2607	2549	2298	1997	45266	43385	39905	25941	17.4	17.0	17.4	13.0
Jones	502	494	446	443	4142	4097	3736	3245	8.3	8.3	8.4	7.3
Keokuk	272	275	267	277	1921	1946	1872	1587	7.1	7.1	7.0	5.7
Kossuth	566	567	534	526	5379	5442	4484	4581	9.5	9.6	8.4	8.7
Lee	1062	1073	1054	1022	16666	16527	14754	12820	15.7	15.4	14.0	12.5
Linn	5297	5278	4862	4411	110504	101393	93329	78591	20.9	19.2	19.2	17.8
Louisa	222	227	233	224	2586	2794	3089	2654	11.6	12.3	13.3	11.8
Lucas	209	208	184	192	2603	2423	2716	2433	12.5	11.6	14.8	12.7
Lyon	354	349	329	283	2473	2446	2249	1650	7.0	7.0	6.8	5.8
Madison	337	347	309	286	2705	2561	2158	1831	8.0	7.4	7.0	6.4
Mahaska	594	594	569	551	6375	6353	5826	5274	10.7	10.7	10.2	9.6
Marion	778	768	710	653	15918	15170	12370	9914	20.5	19.8	17.4	15.2
Marshall	928	916	932	946	15521	15194	13720	12978	16.7	16.6	14.7	13.7
Mills	241	243	241	223	2707	2778	3040	1719	11.2	11.4	12.6	7.7
Mitchell	348	349	335	326	3212	3135	2640	2153	9.2	9.0	7.9	6.6
Monona	288	291	285	285	2736	2691	2679	1905	9.5	9.2	9.4	6.7
Monroe	212	211	195	180	2655	2460	2062	1244	12.5	11.7	10.6	6.9
Montgomery	349	357	348	322	4664	4299	4139	3656	13.4	12.0	11.9	11.4
Muscatine	996	983	987	945	19834	17804	18539	16538	19.9	18.1	18.8	17.5
O'Brien	559	551	543	519	5264	5119	5204	4529	9.4	9.3	9.6	8.7
Osceola	213	211	205	199	1825	1756	1664	1385	8.6	8.3	8.1	7.0
Page	507	513	533	496	6714	6594	5996	5079	13.2	12.9	11.2	10.2
Palo Alto	333	330	339	315	2687	2798	2438	1923	8.1	8.5	7.2	6.1
Plymouth	682	669	635	617	8024	7949	7259	5624	11.8	11.9	11.4	9.1
Pocahontas	278	287	297	299	2424	2522	2475	2143	8.7	8.8	8.3	7.2
Polk	11307	11265	10687	9638	229586	225576	207302	184627	20.3	20.0	19.4	19.2
Pottawattamie	1896	1895	1838	1758	28219	27225	22756	21601	14.9	14.4	12.4	12.3
Poweshiek	578	571	562	528	8729	9086	8202	6913	15.1	15.9	14.6	13.1
Ringgold	135	129	123	128	999	996	947	759	7.4	7.7	7.7	5.9
Sac	387	385	387	362	2651	2537	2701	2104	6.9	6.6	7.0	5.8
Scott	4523	4458	4237	3943	78006	74535	65099	58830	17.2	16.7	15.4	14.9
Shelby	411	414	419	388	4457	4417	4035	3261	10.8	10.7	9.6	8.4
Sioux	1095	1089	996	801	15280	14410	12511	9810	14.0	13.2	12.6	12.2
Story	1842	1842	1748	1602	26903	26207	23475	18541	14.6	14.2	13.4	11.6
Tama	400	395	390	381	4689	4373	3940	3054	11.7	11.1	10.1	8.0
Taylor	174	178	169	181	961	1090	1297	1475	5.5	6.1	7.7	8.1
Union	354	354	349	342	4530	4432	3997	3670	12.8	12.5	11.5	10.7
Van Buren	179	180	182	169	1590	1516	1330	1024	8.9	8.4	7.3	6.1
Wapello	883	881	855	804	12664	12587	11868	9866	14.3	14.3	13.9	12.3
Warren	765	730	652	582	6911	6849	5911	4828	9.0	9.4	9.1	8.3
Washington	686	670	608	581	5971	5994	5812	4212	8.7	8.9	9.6	7.2
Wayne	197	205	186	168	1508	1596	1491	1189	7.7	7.8	8.0	7.1
Webster	1219	1246	1176	1147	16687	16218	15194	13536	13.7	13.0	12.9	11.8
Winnebago	354	352	328	327	7342	7187	6325	6267	20.7	20.4	19.3	19.2
Winneshiek	597	596	592	545	8975	8780	7808	6571	15.0	14.7	13.2	12.1
Woodbury	2949	2921	2811	2646	48205	47114	43313	36854	16.3	16.1	15.4	13.9
Worth	191	187	185	180	1579	1479	1369	1222	8.3	7.9	7.4	6.8
Wright	453	457	437	436	4571	4723	4467	3994	10.1	10.3	10.2	9.2
County Unknown	9	8	10	24	131	123	236	526	14.6	15.4	23.6	21.9
State of Iowa	80838	80608	76957	71782	1213285	1179660	1071996	920042	15.0	14.6	13.9	12.8

Table 2. Payrolls from Business Establishments in Iowa's Counties, 1988, 1993, 1997, and 1998.

County	Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in 1998 \$1,000s)			Average Annual Payroll Per Employee for Business Establishments				Adj. Avg. Annual Payroll Per Emp. for Bus. Estab. (in 1998 \$1,000s)		
	1998	1997	1993	1988	1997	1993	1988	1998	1997	1993	1988	1997	1993	1988
Adair	45654	42709	32139	26686	43282	36127	36429	22119	20583	18230	14332	20859	20492	19565
Adams	17997	17953	14091	13407	18194	15839	18302	19044	17793	14091	13196	18032	15839	18014
Allamakee	78256	73570	57849	39848	74558	65027	54396	17290	16804	14168	11821	17030	15926	16137
Appanoose	67649	63788	56042	41869	64644	62996	57155	18944	18728	17191	14398	18980	19324	19655
Audubon	24049	24156	21649	12875	24480	24335	17576	16794	16963	13940	11845	17191	15670	16170
Benton	95379	88533	57502	46551	89721	64637	63547	21574	20446	15660	14009	20721	17603	19124
Black Hawk	1490289	1453852	1133480	867362	1473369	1274127	1184034	25485	25220	22295	20282	25559	25061	27687
Boone	146793	140249	121916	68421	142132	137044	93401	21635	20683	18829	14620	20960	21165	19958
Bremer	181444	167341	146059	112161	169587	164183	153111	22858	22065	19140	16575	22361	21515	22626
Buchanan	117601	110058	78313	44834	111535	88030	61203	22572	22660	18082	13727	22964	20326	18739
Buena Vista	164488	153168	123373	93041	155224	138682	127010	19861	19201	16432	14551	19459	18471	19864
Butler	39165	44678	32669	23465	45278	36723	32032	17253	18001	13890	12331	18242	15614	16833
Calhoun	39084	38608	35785	25896	39126	40225	35351	15992	16229	14666	12682	16447	16486	17312
Carroll	207546	182538	150460	99249	184988	169130	135485	20172	18896	16900	14178	19150	18997	19354
Cass	120261	102656	81029	68146	104034	91083	93026	21790	19184	16144	14251	19442	18147	19454
Cedar	71979	69770	50799	37644	70707	57102	51388	18475	17287	14014	12804	17519	15753	17479
Cerro Gordo	496484	470967	352015	270657	477289	395694	369473	21988	21220	18655	15270	21504	20970	20845
Cherokee	95200	91991	77032	51289	93226	86590	70014	22227	21544	17623	14953	21833	19810	20412
Chickasaw	92670	83953	66846	49511	85080	75141	67587	22298	20698	17291	15067	20976	19437	20568
Clarke	60031	48725	37167	33431	49379	41779	45637	19957	17692	16034	15279	17930	18024	20857
Clay	172337	169063	118843	83257	171333	133590	113654	20647	20448	17788	14535	20722	19995	19842
Clayton	110146	108209	69059	56107	109662	77628	76592	19958	18898	16181	14020	19152	18189	19139
Clinton	426573	421770	340005	269095	427432	382194	367341	22144	22470	19011	16963	22772	21370	23156
Crawford	104389	107763	85633	75211	109210	96259	102670	18952	19445	16907	15191	19706	19005	20737
Dallas	225216	204452	128885	80048	207197	144878	109273	24438	23395	17595	15525	23709	19778	21193
Davis	30813	29231	22753	15400	29623	25576	21023	18629	17577	15584	13426	17813	17518	18328
Decatur	33518	30478	24899	18361	30887	27989	25065	13954	13474	11375	9679	13655	12786	13213
Delaware	92557	89046	63047	44466	90241	70870	60700	21273	21318	17421	15898	21604	19583	21702
Des Moines	508902	493373	413350	331216	499996	464640	452142	24272	23793	21361	18185	24112	24012	24824
Dickinson	154854	148936	116143	62793	150935	130555	85719	21996	20225	17624	14468	20496	19811	19750
Dubuque	1184381	1154844	946592	725479	1170347	1064049	990350	24888	23829	21027	18036	24149	23636	24621
Emmet	72658	68244	51053	34058	69160	57388	46492	20700	20042	17063	13084	20311	19180	17861
Fayette	135534	124981	94210	67784	126659	105900	92532	18884	17502	15416	13919	17737	17329	19001
Floyd	86544	84309	97361	68176	85441	109442	93067	19598	19010	19886	15137	19265	22354	20663
Franklin	67336	58275	41495	34868	59057	46644	47598	22194	19889	17034	14907	20156	19148	20350
Fremont	29896	27654	20424	13962	28025	22958	19059	19971	19366	15368	11802	19626	17275	16111
Greene	52159	48873	37008	27591	49529	41600	37664	20232	19402	16455	12911	19662	18497	17625
Grundy	63629	58362	41278	28702	59145	46400	39181	24295	23420	16903	13826	23734	19000	18874
Guthrie	30771	29935	23256	18921	30337	26142	25829	16714	15640	13320	11467	15850	14973	15654
Hamilton	149594	151305	104530	87423	153336	117501	119341	23290	22241	17401	15354	22539	19560	20960
Hancock	64284	58954	54471	43395	59745	61230	59238	21195	19625	15835	15291	19889	17800	20874
Hardin	147412	137036	100379	69444	138876	112834	94798	20797	19766	16967	13678	20031	19072	18672
Harrison	52986	49300	33879	27203	49962	38083	37135	17913	16701	13465	12542	16925	15136	17121
Henry	254914	245301	157839	116217	248594	177424	158648	22909	21303	17181	16231	21589	19313	22157
Howard	73592	64575	36915	23545	65442	41496	32141	21337	20192	15142	13563	20463	17021	18515
Humboldt	77521	73191	46342	34576	74174	52092	47200	19655	19430	16888	14365	19690	18984	19610
Ida	74738	70873	52533	38972	71824	59052	53201	22751	21418	18986	15953	21706	21342	21777
Iowa	241184	214766	168091	104635	217649	188948	142837	26227	25222	20686	17521	25561	23253	23918
Jackson	84760	82140	63967	40517	83243	71904	55310	16558	16018	13795	11400	16233	15507	15562
Jasper	323650	340290	216434	202970	344858	243290	277074	24818	29779	22512	19067	30179	25305	26028

Table 2. Payrolls from Business Establishments in Iowa's Counties, 1988, 1993, 1997, and 1998 (continued).

County	Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in 1998 \$1,000s)			Average Annual Payroll Per Employee for Business Establishments				Adj. Avg. Annual Payroll Per Emp. for Bus. Estab. (in 1998 \$1,000s)		
	1998	1997	1993	1988	1997	1993	1988	1998	1997	1993	1988	1997	1993	1988
Jefferson	215173	218726	136517	93185	221662	153457	127207	26736	28049	18591	16075	28426	20898	21944
Johnson	1072526	986703	727698	385299	999949	817994	525971	23694	22743	18236	14853	23048	20499	20276
Jones	76237	74780	60329	43772	75784	67815	59753	18406	18252	16148	13489	18497	18152	18414
Keokuk	36168	35935	27724	21866	36417	31164	29849	18828	18466	14810	13778	18714	16648	18808
Kossuth	106051	99567	70633	66638	100904	79397	90967	19716	18296	15752	14547	18542	17707	19858
Lee	407877	386909	310258	240114	392103	348756	327779	24474	23411	21029	18730	23725	23638	25568
Linn	3436117	2858965	2258207	1669391	2897344	2538415	2278882	31095	28197	24196	21242	28575	27198	28997
Louisa	52601	51248	49123	38442	51936	55218	52477	20341	18342	15903	14485	18588	17876	19773
Lucas	60470	53962	52034	42049	54686	58491	57401	23231	22271	19158	17283	22570	21535	23593
Lyon	42374	41397	31545	21133	41953	35459	28849	17135	16924	14026	12808	17152	15766	17484
Madison	49908	43997	31713	21675	44588	35648	29588	18450	17180	14696	11838	17410	16520	16160
Mahaska	126211	123055	94003	70221	124707	105667	95859	19798	19370	16135	13315	19630	18137	18176
Marion	424052	381851	282487	186520	386977	317539	254618	26640	25171	22836	18814	25509	25670	25683
Marshall	385699	356490	308183	254205	361276	346424	347015	24850	23463	22462	19587	23778	25249	26738
Mills	62515	60841	55476	19693	61658	62360	26883	23094	21901	18249	11456	22195	20513	15639
Mitchell	61674	60344	42726	28411	61154	48028	38784	19201	19248	16184	13196	19507	18192	18014
Monona	47228	43507	37475	23518	44091	42125	32104	17262	16168	13988	12345	16385	15724	16852
Monroe	57855	56066	36272	15469	56819	40773	21117	21791	22791	17591	12435	23097	19774	16975
Montgomery	91749	84485	69813	52529	85619	78476	71707	19672	19652	16867	14368	19916	18960	19614
Muscatine	583930	526210	471408	352316	533274	529902	480946	29441	29556	25428	21303	29952	28583	29081
O'Brien	94251	89542	71686	53840	90744	80581	73497	17905	17492	13775	11888	17727	15484	16228
Osceola	34906	33447	26666	19313	33896	29975	26364	19127	19047	16025	13944	19303	18013	19035
Page	151158	145546	106684	73325	147500	119922	100096	22514	22072	17793	14437	22369	20001	19708
Palo Alto	42932	45980	34132	22473	46597	38367	30678	15978	16433	14000	11686	16654	15737	15953
Plymouth	198925	183424	137119	89934	185886	154133	122769	24791	23075	18890	15991	23385	21234	21829
Pocahontas	48396	45375	39583	28329	45984	44495	38672	19965	17992	15993	13219	18233	17977	18045
Polk	6935958	6506222	5026489	3673450	6593563	5650197	5014618	30211	28843	24247	19897	29230	27256	27161
Pottawattamie	622386	561909	403321	317765	569452	453367	433780	22056	20639	17724	14711	20917	19923	20082
Poweshiek	201407	187459	160501	129865	189975	180417	177278	23073	20632	19569	18786	20909	21997	25645
Ringgold	18675	17588	13726	8789	17824	15429	11998	18694	17659	14494	11580	17896	16292	15808
Sac	43700	41110	36529	24488	41662	41062	33429	16484	16204	13524	11639	16422	15202	15888
Scott	2077960	1891629	1476394	1175716	1917023	1659591	1604967	26638	25379	22679	19985	25720	25493	27281
Shelby	79320	76274	57371	41738	77298	64490	56976	17797	17268	14218	12799	17500	15982	17472
Sioux	289376	269868	199953	122377	273491	224764	167057	18938	18728	15982	12475	18979	17965	17030
Story	611074	516480	381480	257841	523413	428816	351978	22714	19708	16250	13907	19972	18266	18984
Tama	90277	84218	60697	48920	85349	68229	66781	19253	19259	15405	16018	19517	17317	21866
Taylor	15684	16833	16436	16387	17059	18475	22370	16320	15443	12672	11110	15650	14244	15166
Union	89344	80550	61735	48867	81631	69395	66708	19723	18175	15445	13315	18419	17361	18176
Van Buren	33064	30611	20937	12293	31022	23535	16781	20795	20192	15742	12005	20463	17695	16388
Wapello	289007	262983	239926	176583	266513	269697	241053	22821	20893	20216	17898	21174	22724	24433
Warren	124429	115997	87581	59272	117554	98448	80912	18004	16936	14817	12277	17164	16656	16759
Washington	125319	115408	98734	59505	116957	110985	81230	20988	19254	16988	14127	19512	19096	19285
Wayne	25286	26064	22155	15797	26414	24904	21564	16768	16331	14859	13286	16550	16703	18137
Webster	398255	379635	288603	211240	384731	324414	288363	23866	23408	18995	15606	23722	21352	21304
Winnebago	179875	158264	126509	103548	160389	142207	141353	24499	22021	20001	16523	22316	22483	22556
Winneshiek	175433	165582	119473	82468	167805	134298	112577	19547	18859	15301	12550	19112	17200	17132
Woodbury	1105719	1058771	850085	624599	1072984	955567	852639	22938	22473	19627	16948	22774	22062	23136
Worth	29843	26489	21417	15537	26845	24075	21210	18900	17910	15644	12714	18151	17585	17356
Wright	99569	96024	77124	64239	97313	86694	87693	21783	20331	17265	16084	20604	19407	21956
County Unknown	2764	2983	4732	12714	3023	5319	17356	21099	24252	20051	24171	24578	22539	32996
State of Iowa	30409574	28192095	21918291	16108393	28570553	24638003	21989528	25064	23898	20446	17508	24219	22983	23900

## Employees Per Establishment

Iowa's establishments averaged 15.0 employees each in 1998, up one employee on average from 1993 and two from 1988 (Table 1). While there was considerable range in the average number of employees per establishment, 40 counties averaged fewer than 10 in 1998. In contrast, Henry, Linn, Marion, Polk, and Winnebago had averages of at least 20. All but Adams, Floyd, Guthrie, Louisa, Lucas, and Taylor averaged more employees per firm in 1998 than in 1988.

## Annual Payroll

Iowa's payroll from these establishments was more than \$30 billion in 1998, more than \$8.4 billion higher than in 1993 (Table 2). The total in 1998 was \$14.3 billion more than the amount 10 years earlier. While the three counties with the lowest payrolls in 1998 (Adams, Ringgold, Taylor) were below \$20 million, half (50) of Iowa's 99 counties ranged from \$20 million to \$99 million. Payrolls exceeded \$1 billion in Black Hawk, Dubuque, Johnson, Linn, Polk, Scott, and Woodbury, with Polk's \$6.9 billion the highest. Only Taylor reported a lower payroll in 1998 than in 1988.

Because inflation has affected the value of a dollar from year to year, comparisons of the 1998 payroll data with those for earlier years are somewhat limited. To determine whether pay was keeping pace with inflation, the figures for previous years were adjusted to 1998 dollars based on the consumer price index for each year. After adjusting for inflation, the payroll in Iowa still was \$5.8 billion higher in 1998 than in 1993 (Table 2). Annual payroll figures increased by more than \$8.4 billion after inflation was taken into account from 1988 to 1998. County adjusted and unadjusted payroll figures also differ. Before adjusting for inflation, only one county had a lower payroll in 1998 than in 1988. After adjustment, Adams and Floyd joined Taylor with lower payrolls in 1998 than in 1988. In Linn and Polk, the totals were more than \$1 billion higher in 1998 than in 1988 even after adjusting for inflation.

## Pay Per Employee

Payrolls may be going up because wages and salaries are higher or because there are more workers. Dividing the annual payroll by the number of employees results in the average pay per employee. Statewide in 1998, employees averaged nearly \$25,100, up about \$4,600 from the 1993 figure. The average pay per person gained more than \$7,500 across the 10 years noted.

In 1998, pay per employee varied from less than \$15,000 in Decatur to more than \$30,000 in Linn and Polk. All counties had higher average pay in 1998 than in 1988, with the increase less than \$4,000 in four counties and greater than \$8,000 in 17 others. As with total payroll, the average pay per worker for 1988 and 1993 was adjusted to 1998 dollars to account for the effects of inflation. When that was done, the state figure in 1998 was \$1,164 higher than that for 1988, which means pay increases outdistanced inflation. Adjusted pay per employee declined between 1988 and 1993, so the 1998 figure indicates that gains were made in recent years after earlier declines.

Among counties, the pattern of change in average pay per employee between 1988 and 1998 differed substantially when adjusted figures were compared. With the unadjusted numbers, all the counties had higher average pay in 1998 than in 1988. With adjustment for inflation, a quarter (25) of the counties were lower in the more recent year. Twelve of these 25 decreased by more than \$1,000 in adjusted average pay over the period, with three (Black Hawk, Poweshiek, Tama) down more than \$2,000. Seventy-four counties had higher adjusted average pay in 1998 than in 1988; 48 increased by at least \$1,000. Gains exceeded \$4,000 in five counties (Grundy, Jefferson, Mills, Monroe, Van Buren) even after inflation was taken into consideration.

**Note:** See annual reports entitled COUNTY BUSINESS PATTERNS: IOWA (Washington, D.C.: U.S. Bureau of the Census; the 1998 volume was published in 2000 under CBP-98-17) for more detailed data for counties, incorporated places with at least 2,500 residents, and the state. Caution is urged in making comparisons between 1998 and previous years. The manner in which data were classified changed somewhat at that point. The changes tend to be minor when the general data reported here are examined; they are more important when specific types of business establishments are studied.

## Retail Sales in Iowa's Counties: 1984 and 1989-1999

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The Iowa Department of Revenue and Finance annually reports retail sales tax receipts by the location of sales. Because these taxes are a set percentage of sales, they can be used to generate the actual dollars received from those sales. These data have been aggregated by county in this report. Adjustments have been made in the figures for counties in which additional sales taxes have been generated through local options approved by voters. Receipts are reported from the department's fiscal year of 1 April through 30 March; thus, the numbers in the tables under 1999 cover the period from 1 April 1998 through 30 March 1999.

### Retail Sales

In 1984, \$16.7 billion in retail sales were reported in Iowa (Table 1). These figures cover all retail sales; estimates are included for the small portion for which sales tax is not paid. By 1999, this figure had increased to nearly \$30.8 billion.

Sales varied greatly among Iowa's counties. In 1999, for example, Polk had retail sales of \$6.7 billion, which was more than a fifth (21.8%) of all retail sales in the state. Six other counties (Black Hawk, Dubuque, Johnson, Linn, Scott, Woodbury) reported at least a billion dollars in sales. Half (54.7%) of all sales in the state were generated in these seven counties in 1999. Sales were less than \$50 million in 17 counties; three of them (Ringgold, Taylor, Wayne) had receipts from sales of less than \$25 million in 1999.

When 1989 and 1999 were compared, 96 counties had sales that were greater at the end of the period than the beginning (Figure 1). The greatest increase was in Polk (+\$2.6 billion); Linn's \$1.3 billion gain was the second highest. Another 15 counties reported at least \$100 million more in sales in 1999 than in 1989. Calhoun, Lucas, and Poweshiek declined in sales.

The state's increase in retail sales from 1989 to 1999 was 56.9 percent, a level exceeded by 24 counties. These sales more than doubled in Iowa County and increased by 75-99 percent in nine others. Two counties deserve special mention. Iowa County began the period at \$97 million; it was \$112 million higher by 1999, with much of the increase due to a major shopping center constructed near an interstate highway. Sales in Dickinson gained \$100 million by 1999 from its base of \$121 million in 1989; this is related to its status as a recreational center.

When adjusted for inflation, retail sales varied in a relatively narrow band in the years from 1989 to 1999 with the highest figure (\$30.8 billion in 1999) \$4.4 billion above the lowest (\$26.4 billion in 1991) (Table 2). Adjusted sales failed to increase in 47 of the counties in the period between 1989 and 1999, which indicates that sales kept pace with inflation in only half of the state's 99 counties (Figure 2).

### Estimated Gains and Losses in Retail Sales

The volume of sales expected in a county can be estimated by relating population figures to retail sales. The first step is to obtain the average sales per person in the state; the total sales figure is divided by the population. This state average then is multiplied by the population estimate for a particular county and the result is compared with the actual sales reported for that county. If the county's actual sales are

Table 1. Retail Sales (in \$1,000s) in Iowa's Counties, 1984 and 1989-1999\*.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	56531	52111	54452	51431	47615	47085	44794	44158	41630	40683	40798	44944
Adams	36041	24127	23407	23113	22899	22261	21142	20202	19390	19600	19780	20044
Allamakee	94732	89408	89431	88453	86950	80958	79335	76400	76268	68683	68593	66812
Appanoose	89079	85616	85220	80982	81773	83133	84566	79520	71767	66834	68339	63322
Audubon	30904	33291	34495	33324	31544	33009	33361	33898	32634	28740	28482	34900
Benton	125936	122711	122107	111402	102923	99719	95356	92304	90474	85157	83217	84497
Black Hawk	1480801	1460874	1378924	1319854	1259540	1199518	1159371	1099887	1063237	1005436	940556	811969
Boone	172980	165327	160518	154169	148923	145523	140752	136507	132792	127000	117378	108428
Bremer	151210	169224	140951	137423	131954	134048	126414	124219	120756	113444	109543	107199
Buchanan	116500	108605	104169	107284	109990	107471	103393	98632	93557	92402	86499	81323
Buena Vista	179682	168474	163791	157696	152603	150104	146352	142910	142795	133518	131636	135402
Butler	65450	59517	57784	55527	59340	57534	57101	54690	53557	51979	53334	59521
Calhoun	48968	48954	49496	45723	44288	46734	45074	42033	42986	46649	62068	53035
Carroll	236451	230619	219656	206239	198360	196771	182835	171669	165652	160253	155566	145997
Cass	116791	111814	112914	106159	103713	101806	99442	99613	97058	93991	92502	99477
Cedar	85457	84949	81070	76532	74095	72715	71584	68862	64865	62519	62293	65441
Cerro Gordo	637561	615887	602761	568991	534815	501078	474966	457949	450533	430451	410350	334994
Cherokee	102562	101339	96549	92970	91890	88924	84406	82744	81155	76089	78368	81172
Chickasaw	77675	72534	77493	70723	69606	66468	63453	61055	57772	55368	56659	61607
Clarke	56843	52706	51422	48825	46218	47843	49833	50298	48344	45941	44588	39612
Clay	210113	198526	193033	181456	172511	164434	152634	146960	146136	141888	138520	136207
Clayton	93658	87484	90328	87940	83671	81083	78309	78141	73662	70078	70007	78598
Clinton	410076	393229	399807	387172	368345	359805	351560	340329	333187	319160	316064	277727
Crawford	111237	107531	108440	104733	103324	99678	97598	95067	88688	84819	83143	82604
Dallas	207624	175921	164126	157618	145980	139815	133466	129483	127506	119478	115311	125069
Davis	41024	41422	40424	36051	34921	34904	34490	33915	33206	30791	31157	28422
Decatur	30416	28950	26692	25888	26467	33149	26239	26259	25956	24149	24668	25147
Delaware	110142	104690	101079	97930	97376	95003	90454	89378	85243	74415	72518	73519
Des Moines	506512	471265	463805	440530	429853	421306	394399	385059	361824	340744	335287	266705
Dickinson	220953	208139	200181	189909	185595	169777	168501	153482	148070	136452	120573	92911
Dubuque	1013828	957033	936663	920570	895062	818488	788170	745005	703878	668050	635491	528239
Emmet	96776	93458	92528	88369	83397	82752	79685	76437	74725	73993	71815	67385
Fayette	140693	139612	138483	133657	131721	128311	125474	122307	120073	114107	111876	117588
Floyd	114420	116018	113504	103069	94625	96646	98589	95646	90844	89561	88823	88630
Franklin	62910	64325	63193	60744	57930	56413	54793	56306	53104	50283	54094	57593
Fremont	51688	46756	46818	47165	41014	44834	42349	36287	30904	30549	31573	34468
Greene	70515	68732	67558	64937	63183	63833	61487	56691	52327	52089	51318	57158
Grundy	58923	55027	54620	52841	51599	50052	48782	46818	44610	41951	43334	53636
Guthrie	61391	56601	56563	55670	53937	50852	47796	48638	46637	45106	44591	43702
Hamilton	101383	98737	98082	101340	97075	94948	92022	90087	93027	88007	86618	85720
Hancock	63206	60396	61207	60690	58787	56937	55084	53407	53380	52951	55864	60703
Hardin	169675	165913	159577	150040	147087	134712	127418	125287	121269	114617	113661	125928
Harrison	72579	64963	63867	60805	59290	56663	60525	57011	53677	51358	50229	57513
Henry	154930	133811	127007	129776	122683	120015	136446	132010	126527	117024	116959	93046
Howard	63007	57789	55426	52647	55211	53338	52079	49973	47472	43960	43774	48219
Humboldt	75169	73321	70105	66124	64101	63376	62787	60039	59530	60935	59778	60688
Ida	50217	55594	53509	50458	47014	47653	44822	45335	43658	45565	45270	47134
Iowa	209661	221690	199092	181811	178728	174072	160638	151840	112269	101882	97437	88903
Jackson	111840	108297	110166	104953	103088	103107	100184	96596	94149	85880	84868	84821
Jasper	237837	226280	228313	212353	210481	205045	219770	227739	224584	211708	189793	180871

\*The fiscal year for these data runs from 1 April through 30 March; thus, 1999 refers to the period from 1 April 1998 through 30 March 1999.

Table 1. Retail Sales (in \$1,000s) in Iowa's Counties, 1984 and 1989-1999\* (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	158374	145269	136100	130884	121207	111587	106444	98528	95047	94566	100221	77579
Johnson	1275894	1071528	1042787	990928	947020	888226	825557	774419	738389	705148	656467	497889
Jones	134518	135357	131621	128566	126388	123460	116655	112303	112409	105949	108813	89342
Keokuk	36092	34585	35800	33840	34101	36883	38334	37380	36145	35445	35652	40782
Kossuth	124815	124037	119668	120377	118822	112712	109526	105949	104626	103791	98556	121174
Lee	342302	315725	324003	315634	311386	300336	284046	274242	263718	251736	245632	222663
Linn	2930701	2786340	2575164	2545158	2390230	2217771	2031936	1907676	1834635	1737351	1631777	1246837
Louisa	30853	30880	29254	30244	30379	30338	31488	30483	29605	29806	30783	32968
Lucas	44178	44901	41307	36868	42027	38177	62960	62463	62313	55286	59295	39997
Lyon	57012	55664	51926	48835	48822	49347	47457	46263	44680	40657	40654	41662
Madison	78935	70687	67730	64123	61355	56897	56209	52047	49925	46773	42930	36101
Mahaska	180972	174445	169918	160253	159174	164390	160278	155131	145140	133378	130331	118403
Marion	228681	220718	213265	204039	192734	184628	172626	165384	161591	156081	153508	126509
Marshall	391814	377590	366384	363306	352792	350465	313405	301437	297446	280758	268442	232617
Mills	46413	40609	40530	40034	39250	39670	42245	42767	42203	40956	39596	40204
Mitchell	59464	62973	62833	59861	58786	56292	54365	52766	51710	47986	46859	49949
Monona	56468	53893	55569	51243	48686	48161	48763	45525	45416	44440	45389	50602
Monroe	43589	38451	40944	42651	42339	39615	38608	34915	36810	35468	33854	32531
Montgomery	102972	88289	93637	91439	96583	95943	93309	87408	87705	86810	85279	72701
Muscatine	393661	361894	342598	324487	322694	314481	302688	283404	272409	261989	249746	225050
O'Brien	104149	104643	101315	96469	92637	92254	89599	86581	86453	86120	88484	81619
Osceola	37549	36945	36454	34727	34175	32206	32215	30862	30326	30639	28905	33807
Page	103925	106448	105613	108146	102513	99411	94002	91498	92622	91696	93088	94414
Palo Alto	65330	64806	57946	53708	50920	48943	43950	42558	42691	41576	41056	48570
Plymouth	160381	160212	152481	142261	137331	135414	131779	127175	119529	112889	109781	99433
Pocahontas	44210	44863	42585	41077	39933	39484	38671	39297	37076	36087	36309	48838
Polk	6725761	6356493	6205982	5942471	5646934	5360643	5007727	4720949	4502306	4358547	4111700	2906398
Pottawattamie	898949	817467	771384	722846	658474	592235	559849	539073	521820	516367	498007	404873
Poweshiek	136613	130894	134429	134308	121707	127026	171640	172050	165222	151782	149521	111770
Ringgold	23580	23068	22253	21376	20304	21556	21870	22082	21318	20106	20100	19758
Sac	65800	65034	63283	59038	57106	55836	53600	55204	53239	50086	49432	55206
Scott	2142455	2057550	1958299	1913996	1807408	1716910	1638392	1616729	1497100	1481015	1294922	1078089
Shelby	84839	80400	79561	73879	72597	72384	70762	67303	67623	64635	65548	67773
Sioux	235784	236723	221950	206073	198590	195676	182904	175896	167023	151036	139978	139892
Story	784432	737787	672914	627577	614286	578424	560705	527998	514331	478348	450646	370258
Tama	92886	95878	88387	86395	85103	82526	78979	78062	74844	73588	72919	80291
Taylor	23678	22663	21612	21011	21038	20798	19994	19263	18782	17669	17514	21649
Union	124506	141223	226724	110097	101190	96527	89581	86036	85367	75755	71149	67832
Van Buren	26177	24677	25171	23325	22738	23887	20842	21538	19147	18889	16667	17141
Wapello	339051	339780	322735	310418	289523	305815	288355	272987	263945	247915	215842	193091
Warren	182181	157919	151252	148693	141207	134492	125687	121462	117155	103684	98670	84468
Washington	138109	127998	128540	121786	117997	120843	116882	114654	112964	104245	101002	101910
Wayne	24530	26097	27575	27071	25236	23511	23318	22154	22066	21005	20549	21075
Webster	541327	481106	462345	452117	445459	418014	398339	386136	374260	377872	317645	301798
Winnebago	77863	70930	71417	72733	71728	66364	63060	61681	61605	60232	59411	59349
Winneshiek	166642	155725	152878	142369	139072	135092	130892	127748	123919	116184	110092	89734
Woodbury	1277964	1217928	1157918	1140375	1089725	1033068	963271	909134	868587	847458	810994	684745
Worth	27653	27341	25952	25165	24451	23668	22040	22137	21766	21090	21978	26370
Wright	100064	94421	99339	95519	89836	87611	83669	81799	78197	73896	71520	86141
State of Iowa		29132661		27064108		24641528		22429291		20646143		16712989
	30786315		28208303		25830411		23471508		21509747		19620270	

Table 2. Adjusted Retail Sales (in 1999 dollars in \$1,000s) in Iowa's Counties, 1984 and 1989-1999\*.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	56531	52874	56236	54703	52040	52841	51592	52387	51093	52545	55281	71543
Adams	36041	24480	24174	24583	25027	24983	24351	23967	23797	25314	26801	31907
Allamakee	94732	90716	92360	94080	95030	90855	91373	90638	93604	88709	92943	106353
Appanoose	89079	86869	88012	86134	89372	93296	97399	94340	88079	86320	92599	100798
Audubon	30904	33778	35625	35444	34475	37044	38424	40215	40052	37120	38592	55554
Benton	125936	124508	126107	118490	112487	111909	109826	109506	111038	109987	112758	134505
Black Hawk	1480801	1482258	1424098	1403821	1376584	1346155	1335300	1304865	1304900	1298590	1274443	1292513
Boone	172980	167747	165777	163978	162762	163313	162111	161947	162974	164029	159046	172599
Bremer	151210	171701	145568	146165	144215	150435	145597	147369	148203	146521	148429	170641
Buchanan	116500	110195	107582	114109	120211	120608	119083	117013	114822	119343	117205	129451
Buena Vista	179682	170940	169156	167728	166784	168454	168560	169543	175250	172447	178365	215537
Butler	65450	60389	59677	59060	64854	64567	65766	64882	65731	67135	72267	94747
Calhoun	48968	49670	51117	48632	48403	52447	51914	49867	52756	60251	84101	84423
Carroll	236451	233995	226852	219360	216792	220826	210579	203661	203303	206977	210790	232402
Cass	116791	113451	116613	112913	113351	114252	114532	118178	119118	121395	125339	158350
Cedar	85457	86192	83726	81401	80981	81604	82447	79323	79608	80748	84407	104171
Cerro Gordo	637561	624902	622508	605189	584513	562333	547040	543294	552934	555957	556019	533252
Cherokee	102562	102822	99711	98884	100429	99794	97215	98164	99600	98274	106188	129212
Chickasaw	77675	73595	80032	75223	76074	74594	73082	72434	70903	71512	76773	98068
Clarke	56843	53477	53107	51931	50513	53691	57395	59672	59332	59337	60416	63055
Clay	210113	201432	199356	193000	188541	184535	175796	174348	179352	183258	187693	216818
Clayton	93658	88764	93287	93535	91447	90995	90192	92703	90404	90511	94859	125114
Clinton	410076	398985	412905	411804	402574	403790	404908	403754	408917	412218	428264	442092
Crawford	111237	109105	111993	111396	112925	111863	112408	112784	108846	109549	112659	131491
Dallas	207624	178497	169503	167646	159546	156907	153719	153613	156487	154314	156245	199087
Davis	41024	42029	41748	38345	38166	39171	39724	40235	40753	39769	42218	45242
Decatur	30416	29373	27566	27535	28927	37202	30221	31152	31856	31190	33425	40029
Delaware	110142	106222	104390	104161	106425	106617	104180	106035	104618	96112	98262	117029
Des Moines	506512	478163	479000	468556	469797	472810	454247	456819	444063	440094	454311	424548
Dickinson	220953	211186	206739	201991	202841	190532	194070	182085	181724	176238	163376	147897
Dubuque	1013828	971041	967348	979136	978237	918546	907771	883847	863862	862832	861084	840863
Emmet	96776	94826	95559	93991	91147	92868	91776	90682	91709	95567	97309	107266
Fayette	140693	141656	143020	142160	143961	143996	144514	145100	147365	147377	151591	187179
Floyd	114420	117716	117222	109626	103419	108460	113549	113470	111492	115674	120354	141083
Franklin	62910	65267	65263	64609	63314	63309	63108	66799	65174	64944	73297	91679
Fremont	51688	47440	48352	50166	44825	50315	48776	43050	37929	39457	42782	54866
Greene	70515	69739	69771	69068	69054	71636	70818	67256	64220	67277	69536	90985
Grundy	58923	55833	56409	56202	56394	56171	56184	55543	54750	54183	58717	85379
Guthrie	61391	57430	58416	59212	58949	57069	55049	57702	57237	58257	60421	69565
Hamilton	101383	100182	101295	107787	106096	106555	105986	106876	114171	113667	117367	136451
Hancock	63206	61280	63212	64552	64250	63897	63443	63360	65513	68390	75695	96629
Hardin	169675	168342	164805	159585	160755	151180	146753	148636	148832	148035	154010	200455
Harrison	72579	65914	65959	64673	64799	63590	69709	67636	65877	66332	68060	91551
Henry	154930	135770	131168	138033	134083	134686	157151	156612	155286	151145	158478	148113
Howard	63007	58635	57241	55996	60342	59859	59982	59286	58263	56778	59313	76757
Humboldt	75169	74394	72402	70330	70057	71124	72315	71228	73060	78701	80999	96605
Ida	50217	56407	55262	53668	51383	53478	51624	53784	53581	58851	61340	75029
Iowa	209661	224935	205615	193377	195337	195352	185014	180138	137787	131587	132026	141518
Jackson	111840	109882	113775	111630	112668	115711	115387	114598	115548	110919	114995	135020
Jasper	237837	229592	235793	225862	230040	230111	253119	270181	275629	273435	257167	287915

\*The fiscal year for these data runs from 1 April through 30 March; thus, 1999 refers to the period from 1 April 1998 through 30 March 1999.



Table 2. Adjusted Retail Sales (in 1999 dollars in \$1,000s) in Iowa's Counties, 1984 and 1989-1999\* (cont.).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	158374	147395	140558	139210	132470	125228	122596	116890	116650	122138	135799	123493
Johnson	1275894	1087213	1076949	1053970	1035023	996808	950832	918742	906217	910747	889507	792552
Jones	134518	137338	135932	136745	138132	138553	134357	133232	137958	136841	147440	142216
Keokuk	36092	35091	36973	35993	37269	41391	44151	44346	44360	45779	48309	64918
Kossuth	124815	125852	123589	128035	129863	126491	126147	125693	128407	134054	133542	192887
Lee	342302	320346	334618	335714	340322	337051	327149	325351	323659	325134	332829	354440
Linn	2930701	2827125	2659527	2707079	2612345	2488885	2340272	2263196	2251629	2243907	2211041	1984746
Louisa	30853	31332	30213	32168	33202	34047	36267	36164	36335	38496	41711	52480
Lucas	44178	45558	42660	39214	45932	42844	72514	74104	76476	71406	80344	63668
Lyon	57012	56479	53627	51942	53359	55379	54658	54885	54835	52511	55086	66318
Madison	78935	71721	69949	68203	67056	63852	64738	61747	61273	60410	58170	57467
Mahaska	180972	176999	175484	170448	173966	184486	184599	184041	178129	172267	176597	188478
Marion	228681	223949	220252	217019	210644	207198	198821	196205	198319	201589	208001	201380
Marshall	391814	383117	378387	386419	385576	393308	360963	357613	365052	362618	363736	370286
Mills	46413	41203	41857	42581	42898	44520	48655	50737	51795	52897	53652	63998
Mitchell	59464	63894	64892	63670	64249	63173	62615	62600	63464	61978	63493	79510
Monona	56468	54682	57390	54503	53211	54049	56163	54009	55739	57397	61501	80550
Monroe	43589	39014	42285	45365	46273	44458	44467	41422	45177	45809	45872	51784
Montgomery	102972	89582	96704	97256	105559	107671	107469	103697	107640	112121	115552	115727
Muscatine	393661	367191	353821	345130	352680	352926	348619	336219	334325	338377	338404	358240
O'Brien	104149	106174	104634	102607	101246	103532	103195	102717	106102	111230	119894	129924
Osceola	37549	37486	37649	36936	37351	36143	37104	36614	37219	39572	39166	53815
Page	103925	108007	109073	115026	112040	111563	108267	108550	113674	118431	126133	150291
Palo Alto	65330	65754	59845	57125	55651	54926	50620	50489	52395	53698	55631	77316
Plymouth	160381	162558	157476	151311	150093	151968	151775	150875	146697	145804	148752	158280
Pocahontas	44210	45520	43980	43690	43644	44311	44539	46621	45503	46609	49199	77741
Polk	6725761	6449536	6409292	6320524	6171683	6015962	5767627	5600758	5525636	5629361	5571312	4626476
Pottawattamie	898949	829432	796654	768833	719663	664633	644804	639536	640424	666923	674795	644486
Poweshiek	136613	132810	138832	142853	133017	142554	197685	204113	202775	196037	202599	177919
Ringgold	23580	23406	22982	22735	22191	24192	25188	26198	26163	25968	27236	31451
Sac	65800	65986	65356	62794	62412	62662	61733	65492	65339	64689	66980	87879
Scott	2142455	2087668	2022454	2035762	1975363	1926796	1887011	1918027	1837376	1912832	1754606	1716129
Shelby	84839	81577	82168	78579	79344	81233	81499	79846	82993	83480	88817	107882
Sioux	235784	240188	229221	219183	217044	219596	210659	208676	204986	195074	189669	222683
Story	784432	748586	694958	667503	671369	649134	645790	626397	631234	617819	610621	589385
Tama	92886	97281	91283	91891	93011	92614	90963	92610	91855	95044	98804	127810
Taylor	23678	22995	22320	22347	22993	23340	23028	22853	23051	22820	23732	34461
Union	124506	143290	234152	117101	110593	108327	103174	102070	104770	97843	96406	107977
Van Buren	26177	25038	25996	24809	24851	26807	24004	25552	23499	24397	22584	27285
Wapello	339051	344753	333307	330166	316427	343200	332111	323862	323937	320199	292464	307367
Warren	182181	160231	156207	158153	154328	150933	144759	144098	143783	133915	133697	134457
Washington	138109	129871	132751	129534	128963	135616	134619	136021	138639	134640	136857	162222
Wayne	24530	26479	28479	28794	27581	26385	26856	26283	27082	27129	27844	33547
Webster	541327	488148	477492	480880	486854	469115	458785	458098	459325	488048	430405	480409
Winnebago	77863	71968	73756	77360	78394	74477	72629	73176	75607	77794	80501	94473
Winneshiek	166642	158004	157886	151426	151995	151607	150755	151556	152085	150060	149174	142841
Woodbury	1277964	1235755	1195852	1212924	1190989	1159357	1109443	1078562	1066008	1094549	1098889	1089995
Worth	27653	27741	26802	26766	26723	26561	25385	26262	26713	27239	29781	41976
Wright	100064	95804	102593	101596	98184	98321	96366	97044	95970	95442	96908	137121
State of Iowa	29559089	28785897	27653865	26609276	26665904	26604152	30786315	29132416	28230732	27033200	26398703	26585264

Table 3. Estimated Dollars of Retail Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1984 and 1989-1999\*.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	-21518	-23438	-18191	-14863	-21275	-19066	-16735	-16404	-15560	-11337	-7808	1027
Adams	-7373	-17418	-15355	-12330	-14419	-13001	-10711	-11386	-10839	-9833	-8494	-5929
Allamakee	-23758	-25256	-23862	-21045	-14429	-18091	-15112	-13220	5757	-77	2750	8731
Appanoose	-23047	-21285	-21313	-23953	-21828	-18997	-10751	-9596	-7755	-9570	-5567	-4180
Audubon	-36843	-33444	-30014	-27206	-32011	-26784	-22475	-21051	-8610	-8999	-7334	729
Benton	-125737	-113833	-101907	-102573	-109964	-96060	-85969	-78189	-60505	-61154	-53614	-40326
Black Hawk	236598	238443	181203	154117	203220	192339	181219	143819	-81759	-61849	-71322	-93442
Boone	-107619	-93694	-90048	-80642	-74087	-70967	-62421	-58553	-61132	-60110	-60687	-50492
Bremer	-90519	-61898	-82413	-78506	-71656	-58168	-56328	-50705	-72214	-67772	-64077	-40495
Buchanan	-81853	-84240	-84546	-73412	-69506	-62326	-55693	-54509	-43039	-37583	-36656	-37168
Buena Vista	-977	-11226	-17742	-12036	-1565	1541	3790	4194	12887	7097	12582	28972
Butler	-95755	-95339	-95191	-89329	-69523	-65506	-59947	-59010	-46973	-40127	-35046	-23959
Calhoun	-67791	-63551	-60292	-55175	-50603	-43714	-39369	-39078	-35192	-29579	-9578	-12284
Carroll	16469	28973	27298	22837	19064	21987	16460	13176	30406	29350	28825	29351
Cass	-10047	-13155	-9217	-9808	-18669	-13264	-10177	-5171	-9579	-12884	-11352	10523
Cedar	-115599	-99972	-96320	-91725	-70316	-70357	-70015	-70316	-44315	-51071	-44562	-36007
Cerro Gordo	150675	142225	139675	124042	114030	92604	80683	80415	82740	73376	70008	36143
Cherokee	-26789	-24350	-29560	-23925	-19020	-15773	-15835	-15997	-13745	-18737	-11781	-764
Chickasaw	-51989	-49818	-41157	-41349	-40509	-36921	-33848	-32076	-21527	-24118	-18659	-7886
Clarke	-22407	-18702	-16677	-15874	-12090	-10695	-7584	-6216	-1405	-3390	-1123	2447
Clay	43957	36215	31496	29855	1835	3778	3170	4600	20545	22372	24704	22278
Clayton	-53013	-56712	-50205	-47262	-62100	-59877	-53851	-49809	-43529	-47355	-43243	-13284
Clinton	-106188	-99972	-81451	-78573	-64146	-55925	-45724	-42284	-64549	-61348	-47608	-42479
Crawford	-45499	-45067	-40923	-32645	-23326	-22389	-18696	-14809	-6429	-13706	-14979	-5456
Dallas	-264137	-229641	-209755	-190087	-144296	-133688	-128266	-115411	-81776	-97875	-85263	-48724
Davis	-31933	-32755	-32601	-35173	-32631	-27218	-23096	-23080	-15599	-17087	-15615	-9378
Decatur	-24569	-25017	-26479	-23604	-26601	-16294	-19827	-19987	-22484	-23111	-20557	-12621
Delaware	-62186	-59632	-54881	-51851	-52615	-48016	-46662	-43094	-30290	-37385	-33787	-14480
Des Moines	77426	50945	52049	35807	49792	55291	41423	45051	701	-9136	4342	-4014
Dickinson	39024	38354	38261	35686	27459	17889	20908	13316	21842	24605	16415	-4801
Dubuque	120228	86171	89529	98366	129774	89608	90264	69963	73406	63710	47367	46675
Emmet	-1556	-1962	-4103	-920	-10014	-6704	-5776	-4145	5094	5926	5212	3702
Fayette	-52163	-42982	-41762	-35287	-28681	-26763	-22286	-20223	-19516	-24913	-18829	-1169
Floyd	-47843	-36923	-37812	-42398	-51164	-38623	-28656	-27471	-20941	-24353	-17478	-1850
Franklin	-54322	-45681	-41640	-34428	-34605	-32227	-27360	-25243	-25769	-28878	-12108	-16249
Fremont	-15400	-22161	-22730	-16100	-24282	-16597	-14139	-17501	-23321	-31436	-28430	-11789
Greene	-33837	-28236	-27839	-21932	-19325	-12803	-11667	-15240	-22293	-23523	-22051	-8481
Grundy	-86890	-91370	-88801	-81157	-57211	-51400	-50445	-50966	-53414	-58801	-51919	-36389
Guthrie	-44959	-45851	-45440	-41871	-45462	-42187	-40416	-34357	-22312	-20238	-18509	-9025
Hamilton	-46285	-40857	-37777	-25002	-50185	-42598	-36088	-33536	-27727	-27771	-23738	-8551
Hancock	-70346	-63257	-57311	-47629	-41313	-41867	-38303	-38740	-36782	-41429	-31933	-13480
Hardin	-27215	-21966	-20410	-19005	-15945	-15835	-17924	-16320	-18057	-17109	-16045	14076
Harrison	-93227	-95548	-92805	-84115	-52543	-49181	-37393	-37460	-28476	-33968	-30997	-14350
Henry	-59028	-69893	-71668	-59781	-37314	-33383	-14862	-15837	-22698	-16019	-12811	-5895
Howard	-23478	-26359	-27264	-22702	-21048	-18133	-16118	-13992	-12857	-16318	-13829	-2484
Humboldt	-29669	-29157	-30287	-26325	-38033	-31806	-24698	-25630	-15373	-15647	-14711	-6982
Ida	-32736	-26058	-24214	-23346	-22378	-18955	-17739	-14495	-7466	-5965	-3754	4725
Iowa	24209	49554	35237	28331	43835	45523	37557	33075	1890	-2725	-3967	4405
Jackson	-63333	-60923	-58864	-59562	-61440	-54133	-49397	-47546	-33034	-40188	-38842	-24897
Jasper	-160161	-144668	-127798	-131608	-110280	-104683	-78309	-58990	-42249	-40549	-54716	-27810

\*The fiscal year for these data runs from 1 April through 30 March; thus, 1999 refers to the period from 1 April 1998 through 30 March 1999.

Table 3. Estimated Dollars of Retail Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1984 and 1989-1999\* (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	-2360	-8827	-13856	-10422	-21450	-25256	-22874	-25161	-32809	-30166	-20919	-4833
Johnson	56236	-108202	-100969	-116201	-108243	-133362	-135055	-134893	-91787	9656	1741	-69498
Jones	-39784	-35357	-35001	-31870	-35397	-39721	-37965	-28785	-7632	-11511	-2025	-6128
Keokuk	-73131	-68640	-60647	-57051	-50492	-46717	-43588	-42854	-39670	-36053	-35266	-21304
Kossuth	-33891	-30602	-30956	-16934	-20752	-18000	-13119	-20222	-14469	-14273	-14214	17534
Lee	-10065	-34424	-19417	-16136	-1312	4244	-3405	-2841	-23071	-50757	-42832	-22968
Linn	740759	686224	559183	601539	488334	416132	299905	273707	265881	267716	263700	121993
Louisa	-104940	-95761	-87947	-80480	-74902	-72241	-61949	-63241	-59290	-53546	-50860	-40992
Lucas	-31984	-26478	-28100	-33978	-27336	-28991	-353	-1207	7723	-3047	2252	-13180
Lyon	-50845	-45988	-47819	-42497	-38623	-33796	-31114	-29378	-14943	-15836	-13607	-10718
Madison	-58563	-61417	-58362	-53847	-54745	-54816	-50668	-48080	-27334	-21818	-21170	-22909
Mahaska	-34252	-28957	-29365	-26546	-16722	-5106	-2453	-3237	10874	1115	2595	5367
Marion	-93430	-86148	-81100	-82271	-81395	-78891	-76548	-72276	-68477	-56084	-50253	-33486
Marshall	-17143	-30095	-25765	-11108	-24393	-5941	-21800	-24271	-30178	-36392	-39128	-47626
Mills	-90790	-91171	-84861	-76123	-69627	-62269	-56348	-54115	-43086	-39455	-38841	-28558
Mitchell	-43149	-36310	-34377	-29750	-38057	-35412	-30502	-29212	-20919	-23285	-20857	-9484
Monona	-49422	-46304	-42170	-39688	-33945	-29559	-23044	-22504	-12022	-14068	-10074	-59
Monroe	-32363	-33836	-28873	-23174	-20263	-19985	-18703	-19588	-28431	-26943	-26232	-11951
Montgomery	-14827	-26722	-16848	-13705	-4444	217	5594	999	6510	3606	6309	-2440
Muscatine	-58884	-73916	-78355	-88684	-64895	-56533	-48390	-49416	-77830	-78444	-76119	-43229
O'Brien	-25619	-22318	-26093	-21012	-33360	-29057	-25980	-23843	-12483	-7218	-1369	-328
Osceola	-24829	-23690	-22988	-19457	-31141	-29541	-25323	-25463	-14820	-13718	-14457	-5102
Page	-54979	-51236	-50776	-39929	-41343	-35727	-33750	-34132	-28778	-30797	-22092	-6047
Palo Alto	-30453	-27741	-34894	-31562	-35089	-30149	-30922	-32525	-25820	-24914	-22875	-14731
Plymouth	-90158	-85424	-92103	-89757	-80929	-67721	-56090	-51208	-27941	-37905	-22349	-22614
Pocahontas	-41206	-37400	-38168	-32345	-40811	-36745	-31807	-30649	-32500	-33470	-29488	-7020
Polk	2129257	1972859	2012831	1870822	1712091	1598440	1403576	1372185	1453813	1499008	1423731	804212
Pottawattamie	32920	12207	-7452	-36545	-56052	-88170	-93281	-94613	-159832	-157220	-141599	-96214
Poweshiek	-51777	-53920	-45754	-39793	-52845	-41355	12792	18446	22655	20869	24153	8648
Ringgold	-16832	-16619	-16660	-13764	-17662	-15482	-13154	-12106	-5468	-5936	-3878	-3997
Sac	-57898	-55299	-51008	-47401	-55084	-48338	-44263	-38636	-17691	-17465	-16198	-7469
Scott	434327	403042	342708	333354	377256	358621	317840	355593	181458	156053	34380	35223
Shelby	-41322	-40657	-41399	-38894	-37112	-33041	-29484	-27397	-17539	-22445	-19171	-8032
Sioux	-51382	-37809	-46157	-52097	-41449	-31319	-29119	-22417	-1606	-18833	-21694	3877
Story	12047	-10573	-62134	-82996	-80638	-86185	-58658	-52615	-91895	-70389	-77679	-90328
Tama	-88207	-83729	-85424	-77932	-56275	-51983	-51345	-51557	-42950	-32095	-28673	-12943
Taylor	-35241	-34156	-31698	-29398	-27754	-25011	-23278	-23934	-21501	-22826	-21944	-13189
Union	15376	37461	128662	15610	4587	2085	985	-778	-9347	-12649	-14592	-6450
Van Buren	-45301	-42096	-38151	-35991	-31634	-27633	-28022	-25390	-21999	-21915	-22713	-15770
Wapello	22335	27611	13180	7707	6877	39872	31145	16804	5964	2546	-23031	-17090
Warren	-257574	-263001	-251188	-238301	-219970	-208870	-200318	-178400	-154426	-169718	-159078	-126514
Washington	-66825	-66323	-60297	-58256	-46464	-37445	-35045	-28492	-20420	-24531	-22431	-1358
Wayne	-27849	-25442	-22407	-19089	-23693	-23594	-21254	-21891	-15596	-13125	-12180	-10309
Webster	149888	106812	99209	102789	91380	77588	77082	78977	97076	107425	59839	62956
Winnebago	-21171	-26308	-21636	-13741	-20782	-20561	-20715	-21360	-38773	-36298	-31489	-14822
Winneshiak	-31312	-29265	-30008	-32797	-22859	-20844	-17797	-16593	-8982	-15624	-14306	-19347
Woodbury	124689	96060	90493	115538	174395	149260	120481	116169	156047	167881	174087	112362
Worth	-44834	-42988	-42664	-38045	-40401	-36590	-34704	-33164	-38339	-39588	-32989	-20289
Wright	-25670	-27171	-17009	-12408	-29536	-22136	-20054	-21454	-49576	-56225	-51468	-11533

Table 4. Adjusted Estimated Dollars of Retail Sales (1999 dollars in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1984 and 1989-1999\*.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	-21518	-23781	-18787	-15808	-23252	-21397	-19275	-19461	-19097	-14643	-10580	1634
Adams	-7373	-17673	-15858	-13114	-15759	-14590	-12337	-13508	-13303	-12700	-11509	-9439
Allamakee	-23758	-25626	-24644	-22384	-15770	-20303	-17405	-15683	7066	-100	3727	13899
Appanoose	-23047	-21597	-22011	-25477	-23857	-21319	-12382	-11385	-9517	-12360	-7544	-6655
Audubon	-36843	-33934	-30998	-28937	-34985	-30058	-25886	-24974	-10567	-11622	-9938	1161
Benton	-125737	-115499	-105245	-109099	-120183	-107803	-99014	-92760	-74257	-78984	-72646	-64192
Black Hawk	236598	241933	187140	163922	222104	215852	208718	170622	-100342	-79882	-96641	-148744
Boone	-107619	-95065	-92998	-85772	-80971	-79642	-71893	-69465	-75027	-77636	-82230	-80375
Bremer	-90519	-62804	-85113	-83500	-78315	-65279	-64876	-60154	-88628	-87532	-86823	-64461
Buchanan	-81853	-85473	-87316	-78083	-75965	-69945	-64144	-64668	-52821	-48540	-49668	-59165
Buena Vista	-977	-11390	-18323	-12801	-1710	1729	4366	4976	15816	9167	17048	46119
Butler	-95755	-96735	-98309	-95012	-75983	-73514	-69044	-70007	-57649	-51827	-47487	-38138
Calhoun	-67791	-64481	-62267	-58685	-55305	-49058	-45342	-46361	-43191	-38203	-12978	-19554
Carroll	16469	29397	28192	24290	20836	24675	18958	15631	37317	37908	39057	46721
Cass	-10047	-13348	-9519	-10432	-20404	-14885	-11721	-6134	-11757	-16640	-15381	16751
Cedar	-115599	-101435	-99475	-97560	-76850	-78958	-80639	-83421	-54387	-65962	-60381	-57317
Cerro Gordo	150675	144307	144251	131933	124626	103925	92926	95402	101546	94771	94860	57534
Cherokee	-26789	-24706	-30528	-25447	-20788	-17701	-18238	-18978	-16869	-24201	-15964	-1216
Chickasaw	-51989	-50547	-42506	-43979	-44273	-41434	-38984	-38054	-26419	-31150	-25283	-12553
Clarke	-22407	-18976	-17224	-16884	-13214	-12003	-8734	-7374	-1724	-4378	-1522	3896
Clay	43957	36745	32528	31754	2005	4240	3651	5457	25215	28895	33474	35463
Clayton	-53013	-57542	-51849	-50269	-67870	-67197	-62023	-59091	-53422	-61162	-58593	-21145
Clinton	-106188	-101435	-84119	-83572	-70107	-62761	-52662	-50164	-79221	-79235	-64509	-67620
Crawford	-45499	-45727	-42263	-34722	-25494	-25126	-21533	-17569	-7890	-17703	-20297	-8686
Dallas	-264137	-233002	-216627	-202180	-157705	-150031	-147730	-136919	-100363	-126412	-115531	-77560
Davis	-31933	-33234	-33669	-37410	-35663	-30545	-26601	-27381	-19144	-22069	-21158	-14928
Decatur	-24569	-25383	-27347	-25105	-29073	-18286	-22836	-23711	-27595	-29850	-27854	-20090
Delaware	-62186	-60505	-56679	-55149	-57505	-53886	-53743	-51125	-37175	-48285	-45781	-23050
Des Moines	77426	51691	53754	38085	54418	62051	47708	53446	860	-11800	5883	-6389
Dickinson	39024	38915	39515	37956	30010	20076	24081	15797	26806	31779	22242	-7643
Dubuque	120228	87432	92462	104623	141834	100562	103962	83002	90091	82286	64181	74298
Emmet	-1556	-1991	-4238	-978	-10945	-7524	-6653	-4918	6252	7654	7063	5892
Fayette	-52163	-43611	-43130	-37532	-31346	-30035	-25668	-23992	-23952	-32177	-25514	-1861
Floyd	-47843	-37463	-39050	-45095	-55919	-43345	-33004	-32590	-25701	-31453	-23682	-2945
Franklin	-54322	-46350	-43004	-36619	-37820	-36166	-31511	-29947	-31626	-37298	-16406	-25866
Fremont	-15400	-22485	-23475	-17124	-26538	-18625	-16285	-20762	-28622	-40601	-38522	-18765
Greene	-33837	-28649	-28751	-23327	-21121	-14368	-13438	-18080	-27360	-30381	-29879	-13501
Grundy	-86890	-92707	-91710	-86320	-62528	-57684	-58099	-60465	-65554	-75945	-70350	-57926
Guthrie	-44959	-46522	-46928	-44535	-49686	-47344	-46549	-40760	-27383	-26139	-25079	-14366
Hamilton	-46285	-41455	-39015	-26593	-54848	-47806	-41564	-39786	-34029	-35869	-32165	-13612
Hancock	-70346	-64183	-59189	-50659	-45152	-46985	-44115	-45959	-45142	-53508	-43269	-21458
Hardin	-27215	-22288	-21078	-20215	-17426	-17771	-20644	-19361	-22162	-22098	-21740	22406
Harrison	-93227	-96947	-95846	-89467	-57426	-55193	-43067	-44441	-34948	-43873	-42000	-22843
Henry	-59028	-70916	-74016	-63584	-40781	-37463	-17117	-18788	-27857	-20689	-17359	-9383
Howard	-23478	-26745	-28157	-24146	-23004	-20350	-18563	-16600	-15780	-21076	-18738	-3955
Humboldt	-29669	-29584	-31279	-28000	-41568	-35694	-28446	-30407	-18867	-20209	-19933	-11114
Ida	-32736	-26439	-25007	-24831	-24457	-21273	-20431	-17196	-9163	-7704	-5086	7522
Iowa	24209	50279	36392	30134	47908	51088	43257	39239	2319	-3519	-5375	7011
Jackson	-63333	-61815	-60793	-63351	-67150	-60750	-56892	-56407	-40542	-51906	-52630	-39632
Jasper	-160161	-146786	-131985	-139981	-120528	-117480	-90192	-69983	-51851	-52372	-74140	-44269

\*The fiscal year for these data runs from 1 April through 30 March; thus, 1999 refers to the period from 1 April 1998 through 30 March 1999.

Table 4. Adjusted Estimated Dollars of Retail Sales (1999 dollars in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1984 and 1989-1999\* (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	-2360	-8956	-14310	-11085	-23443	-28343	-26345	-29850	-40266	-38962	-28345	-7693
Johnson	56236	-109786	-104277	-123594	-118301	-149665	-155549	-160033	-112649	12471	2359	-110629
Jones	-39784	-35875	-36148	-33897	-38686	-44576	-43726	-34149	-9367	-14867	-2744	-9755
Keokuk	-73131	-69645	-62634	-60680	-55184	-52427	-50202	-50840	-48686	-46565	-47785	-33913
Kossuth	-33891	-31050	-31970	-18011	-22680	-20201	-15109	-23990	-17758	-18435	-19259	27912
Lee	-10065	-34928	-20053	-17163	-1434	4763	-3922	-3371	-28315	-65556	-58037	-36560
Linn	740759	696269	577502	639808	533713	467002	345414	324716	326314	345773	357311	194192
Louisa	-104940	-97163	-90828	-85600	-81862	-81072	-71350	-75027	-72766	-69158	-68914	-65252
Lucas	-31984	-26866	-29020	-36140	-29876	-32535	-406	-1432	9478	-3935	3052	-20981
Lyon	-50845	-46661	-49385	-45201	-42212	-37927	-35835	-34853	-18339	-20453	-18437	-17062
Madison	-58563	-62316	-60274	-57273	-59832	-61517	-58357	-57040	-33547	-28180	-28684	-36467
Mahaska	-34252	-29381	-30327	-28234	-18275	-5730	-2825	-3840	13346	1440	3516	8543
Marion	-93430	-87409	-83757	-87505	-88959	-88535	-88164	-85746	-84042	-72436	-68093	-53304
Marshall	-17143	-30536	-26609	-11815	-26660	-6667	-25108	-28794	-37037	-47002	-53018	-75813
Mills	-90790	-92506	-87641	-80965	-76097	-69882	-64899	-64200	-52879	-50958	-52629	-45459
Mitchell	-43149	-36841	-35504	-31643	-41593	-39741	-35130	-34656	-25674	-30074	-28261	-15096
Monona	-49422	-46982	-43551	-42213	-37099	-33172	-26540	-26698	-14755	-18169	-13650	-93
Monroe	-32363	-34331	-29819	-24648	-22146	-22429	-21541	-23239	-34893	-34799	-35544	-19025
Montgomery	-14827	-27113	-17400	-14577	-4857	244	6443	1185	7990	4658	8549	-3884
Muscatine	-58884	-74998	-80922	-94326	-70925	-63444	-55733	-58625	-95521	-101316	-103141	-68813
O'Brien	-25619	-22645	-26948	-22349	-36460	-32609	-29922	-28286	-15320	-9323	-1856	-522
Osceola	-24829	-24037	-23741	-20695	-34034	-33153	-29166	-30208	-18188	-17718	-19589	-8122
Page	-54979	-51986	-52439	-42469	-45185	-40094	-38871	-40493	-35318	-39777	-29934	-9625
Palo Alto	-30453	-28147	-36037	-33570	-38349	-33834	-35615	-38586	-31689	-32178	-30995	-23449
Plymouth	-90158	-86674	-95120	-95468	-88449	-75999	-64601	-60751	-34292	-48957	-30282	-35998
Pocahontas	-41206	-37947	-39418	-34403	-44603	-41237	-36634	-36361	-39887	-43229	-39956	-11175
Polk	2129257	2001737	2078772	1989842	1871189	1793844	1616563	1627909	1784251	1936071	1929141	1280165
Pottawattamie	32920	12386	-7696	-38869	-61261	-98948	-107435	-112245	-196161	-203060	-191865	-153156
Poweshiek	-51777	-54709	-47253	-42325	-57756	-46411	14734	21883	27804	26954	32727	13766
Ringgold	-16832	-16862	-17205	-14639	-19303	-17375	-15150	-14362	-6711	-7667	-5255	-6362
Sac	-57898	-56108	-52679	-50417	-60203	-54247	-50979	-45837	-21712	-22557	-21948	-11889
Scott	434327	408942	353935	354562	412313	402461	366070	421863	222701	201553	46585	56068
Shelby	-41322	-41252	-42756	-41368	-40560	-37080	-33958	-32503	-21526	-28989	-25976	-12785
Sioux	-51382	-38362	-47669	-55411	-45300	-35147	-33538	-26595	-1971	-24323	-29396	6172
Story	12047	-10728	-64169	-88276	-88132	-96721	-67559	-62421	-112782	-90913	-105255	-143786
Tama	-88207	-84955	-88223	-82890	-61505	-58338	-59137	-61165	-52712	-41452	-38852	-20603
Taylor	-35241	-34656	-32736	-31269	-30333	-28068	-26810	-28394	-26388	-29481	-29734	-20995
Union	15376	38009	132877	16603	5014	2340	1134	-923	-11472	-16337	-19772	-10268
Van Buren	-45301	-42712	-39401	-38281	-34574	-31011	-32274	-30122	-26999	-28304	-30775	-25103
Wapello	22335	28015	13612	8197	7516	44746	35871	19936	7320	3288	-31207	-27205
Warren	-257574	-266851	-259417	-253462	-240411	-234403	-230715	-211648	-189526	-219203	-215549	-201389
Washington	-66825	-67294	-62272	-61962	-50781	-42022	-40362	-33802	-25061	-31684	-30394	-2162
Wayne	-27849	-25814	-23141	-20303	-25895	-26478	-24479	-25970	-19141	-16952	-16504	-16410
Webster	149888	108375	102459	109329	99871	87073	88779	93696	119141	138746	81081	100215
Winnebago	-21171	-26693	-22345	-14615	-22713	-23074	-23858	-25341	-47586	-46882	-42667	-23594
Winneshiek	-31312	-29693	-30991	-34884	-24983	-23392	-20498	-19686	-11024	-20180	-19384	-30798
Woodbury	124689	97466	93458	122888	190601	167506	138764	137818	191514	216830	235886	178860
Worth	-44834	-43617	-44062	-40466	-44156	-41063	-39970	-39345	-47053	-51130	-44700	-32297
Wright	-25670	-27569	-17566	-13198	-32280	-24842	-23097	-25453	-60844	-72619	-69739	-18359

greater than what the state average suggests, then that county has gained sales from residents of other counties. If the county's actual sales are less than the figure resulting from multiplying the state's average by the local population, then sales have been lost from that county to others. Because these calculations are based on population estimates for non-decennial census years, caution must be exercised in interpreting them.

Sales above what would be expected from the state average occurred in 18 counties in 1999 (Table 3, Figure 3). These counties were serving residents substantially in excess of those living within their own boundaries. These additional sales ranged from less than \$50 million in eight counties to \$2.1 billion in Polk. Seven other counties (Black Hawk, Cerro Gordo, Dubuque, Linn, Scott, Webster, Woodbury) had figures at least \$100 million above those expected when population is factored into the calculations.

The remaining 81 counties had sales that were lower than their population bases would suggest. Eighteen lost sales of less than \$25 million and 35 were down at least \$50 million in expected sales. Benton, Boone, Cedar, Clinton, Dallas, Jasper, Louisa, and Warren counties had sales at least \$100 million less than expected. Counties with relatively high leakage of retail sales generally are near major metropolitan centers that most likely captured many of those dollars.

Relatively few counties have been above the state average in previous years as well. In 1989, for example, 19 counties were in that category while retail sales in the other 80 were below what would be expected based on their populations. Only five counties had sales at least \$50 million above expectations in 1989; 14 counties were at least \$50 million lower than anticipated.

When controlled for inflation, the gain/loss figures based on county population indicate relative change across the period. For example, 61 counties had greater leakage in 1999 than in 1989 after controlling for the effects of inflation (Table 4). Another seven counties with gains in 1989 had losses in 1999. Carroll and Woodbury reported gains at both times, although those for 1999 were smaller than the adjusted amounts reported for 1989. Thus, 70 counties did not improve their positions when adjusted retail sales figures for 1989 and 1999 were compared.

The remaining 29 counties noted relative improvement in retail sales between 1989 and 1999 after inflation was included. Thirteen counties with losses both times nonetheless had lower leakage in 1999 than in 1989. Black Hawk, Iowa, Pottawattamie, Story, Union, and Wapello, each of which had leakage in 1989, reported gains in 1999. The remaining 10 counties (Cerro Gordo, Clay, Des Moines, Dickinson, Dubuque, Johnson, Linn, Polk, Scott, Webster) had retail sales in excess of what would be expected on the basis of population both years, although they were higher in 1999 than in 1989 even after inflation was taken into account.

Figure 1. Change in retail sales (unadjusted for inflation), 1989 to 1999.

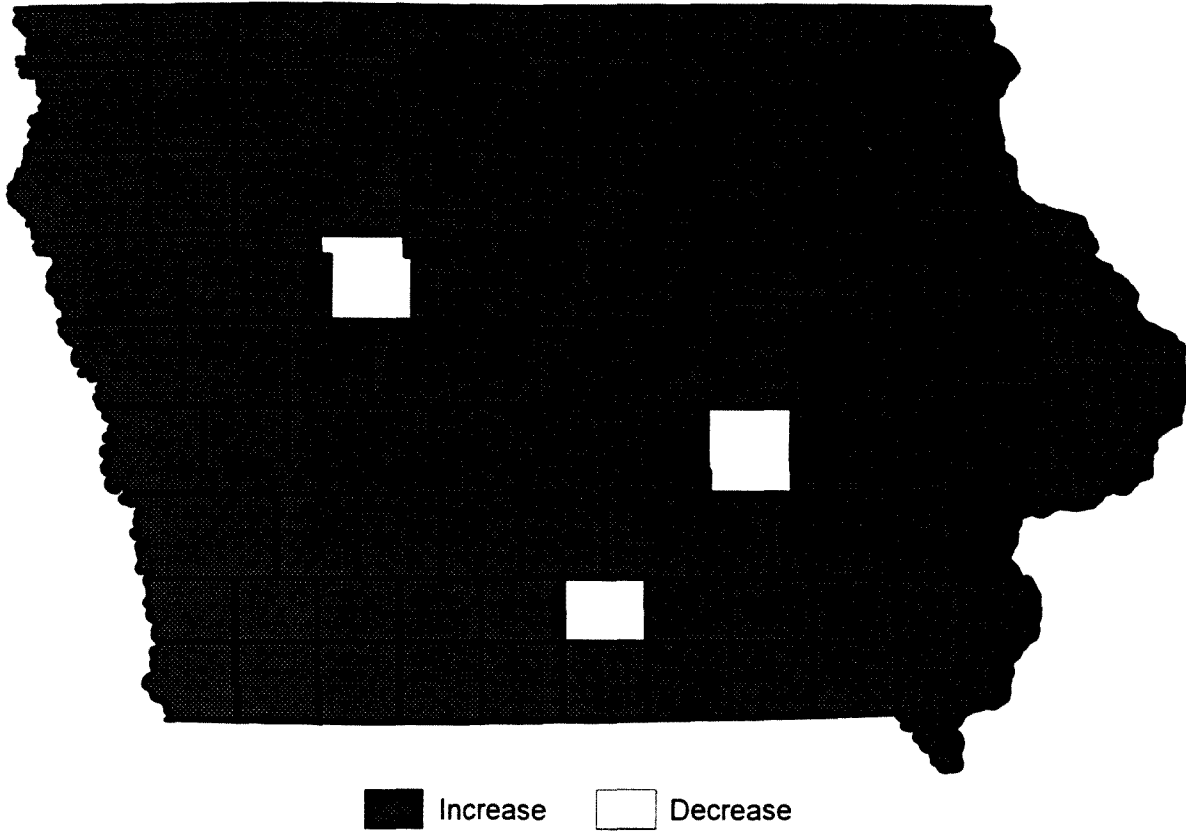


Figure 2. Change in retail sales (adjusted for inflation), 1989 to 1999.

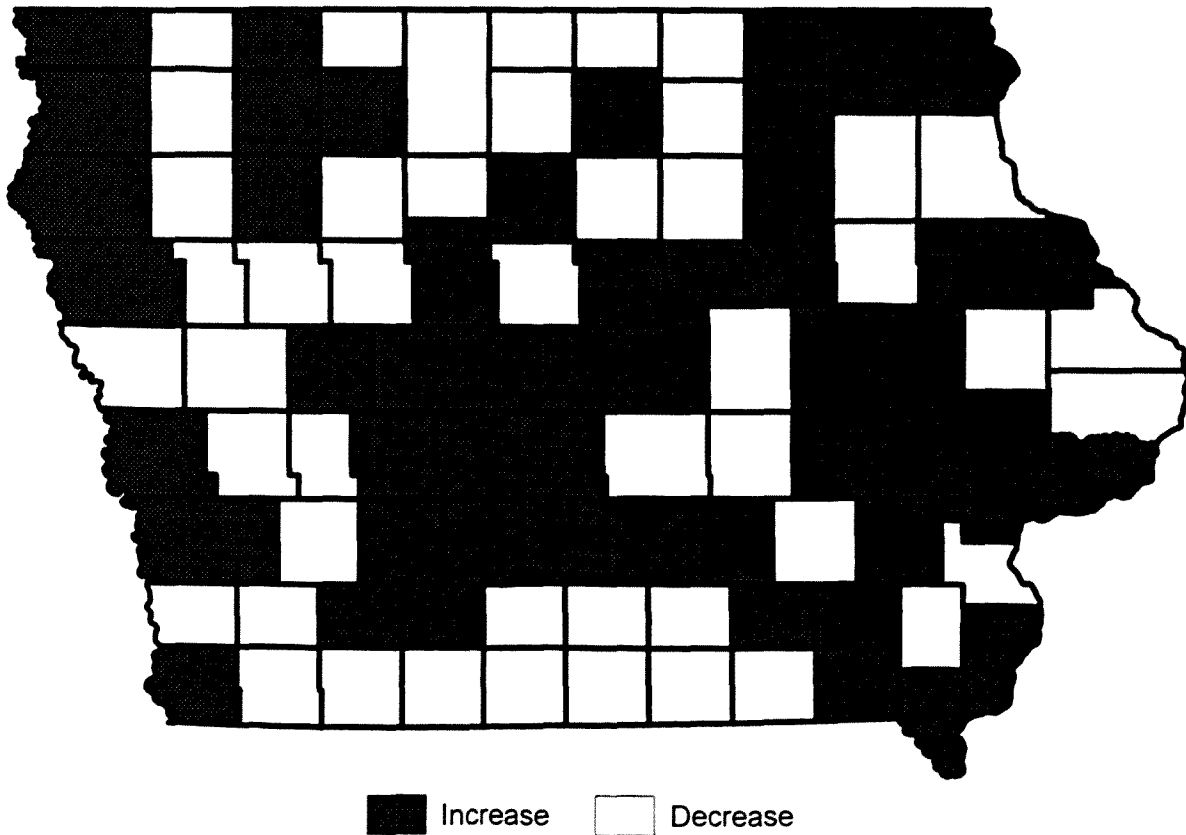
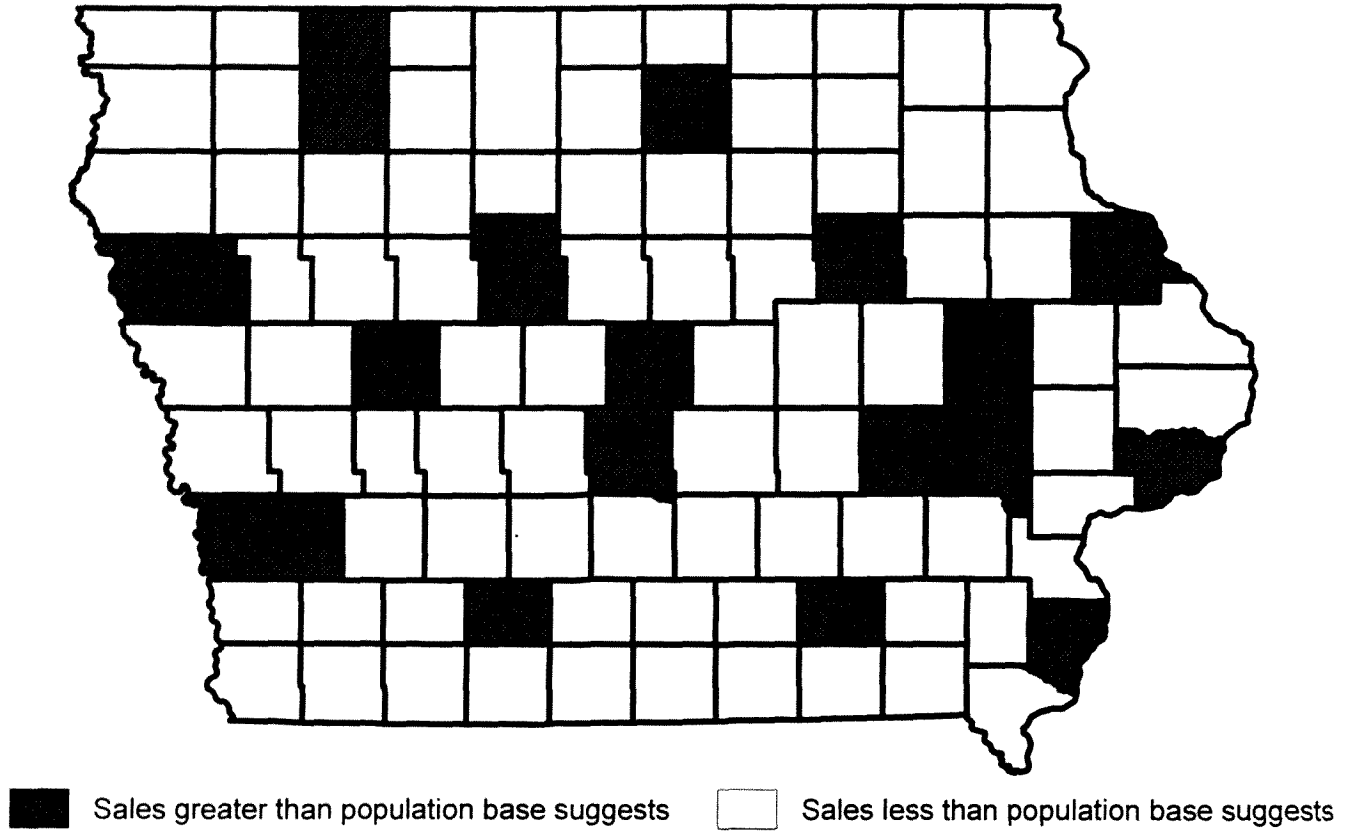


Figure 3. Retail sales compared with population base, 1999.





## Reported Building Permits and Valuations for New Residential Construction in Iowa's Counties: 1990-1999

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Permits covering construction of new residential housing units are obtained from municipal or county offices. Such permits include single-family houses, duplexes, and other types of multi-family dwellings. The information that follows was submitted by those local officials to the Building Permits Branch of the Manufacturing and Construction Division of the U.S. Bureau of the Census. Because counties vary in their reporting methods, especially concerning unincorporated areas, some new residential construction may not be included in the figures in Table 1.

In 1999, 9,951 building permits were reported for new residential construction in Iowa (Table 1). Polk and Linn cataloged more than 1,000 such permits. The eight counties issuing at least 200 permits (Dallas, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, Story) accounted for more than three fifths (62.0%) of the state's total. Fourteen counties issued at least one but no more than nine permits in 1999; Ringgold and Wayne did not grant any.

When 1990 and 1999 were compared, 4,500 more permits were issued in the more recent year. That trend occurred in 86 counties, while 11 others had more permits in 1990 than in 1999; two noted the same number granted in the first and last years listed in Table 1.

Nearly 95 percent of the new residential construction permits issued in 1999 were for single-family houses. Johnson, Linn, Polk, and Scott were the only counties with more than 500 permits of this type. Eleven others issued at least 100 permits for single-family houses; Adams, Ida, Lucas, Taylor, and Union each reported fewer than five while Ringgold and Wayne had none. In the state, 4,200 more single-family housing permits were granted in 1999 than in 1990; 84 counties had the same pattern of more permits issued at the end of the period than at the beginning.

Valuations cited on building permits represent the cost of construction excluding the costs of on- and off-site development and the cost of heat, plumbing, and electrical installations. Dividing the total valuation of single-family houses by the total number of such permits issued results in an average (mean) value. Statewide, newly constructed single-family houses averaged nearly \$124,000 in 1999 and increased between most years in the 1990s (Table 2, Figure 1). Twenty-nine counties exceeded the figure for the state in the most recent year, six of which had average values greater than \$150,000. Caution is urged in examining the average values; inclusion of one or two relatively expensive homes could skew the average in counties with small numbers of newly constructed units.

Table 1. Reported Building Permits for New Residential Construction in Iowa's Counties, 1990-1999.

County	Total Number										Number of Single-Family Units									
	1999	1998	1997	1966	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Adair	14	11	11	12	18	6	9	4	4	8	14	9	10	9	18	6	9	4	4	8
Adams	4	3	4	3	1	3	2	0	0	1	4	2	4	2	1	3	2	0	0	1
Allamakee	56	5	32	19	17	28	27	41	18	15	51	5	29	18	17	27	27	41	18	15
Appanoose	15	9	9	7	9	8	6	8	6	2	15	9	9	6	9	8	6	8	6	2
Audubon	5	7	10	10	5	2	2	2	3	0	5	6	10	10	5	2	2	2	3	0
Benton	98	120	102	98	92	90	42	26	27	18	96	118	97	95	87	85	39	26	27	18
Black Hawk	193	192	156	158	141	175	155	163	181	136	187	171	147	142	135	164	135	153	178	131
Boone	97	102	96	87	55	49	38	25	26	23	94	90	85	79	49	46	23	22	23	21
Bremer	79	54	53	74	66	61	48	68	47	56	78	51	48	70	66	58	48	65	44	56
Buchanan	38	16	21	17	20	27	19	27	19	15	34	15	18	17	19	23	18	25	19	14
Buena Vista	15	19	27	18	21	20	22	32	19	27	13	17	23	13	18	19	22	31	18	24
Butler	31	24	23	15	21	29	13	22	21	9	29	24	23	15	21	29	13	18	20	9
Calhoun	14	7	10	4	16	18	20	17	9	18	14	7	10	4	13	18	20	15	9	18
Carroll	74	75	93	78	63	66	74	61	37	48	66	71	89	77	61	61	71	54	27	45
Cass	11	19	13	32	18	12	10	5	13	17	11	17	11	31	16	11	8	4	13	17
Cedar	47	45	43	60	47	38	27	33	38	12	45	45	42	46	47	37	26	29	38	12
Cerro Gordo	62	105	100	83	64	93	63	80	64	80	60	99	95	74	64	88	59	75	64	79
Cherokee	8	29	16	13	32	10	15	16	12	7	7	28	16	13	31	10	13	15	12	7
Chickasaw	19	20	18	27	27	22	21	38	19	4	18	19	17	25	27	20	21	32	19	4
Clarke	25	27	20	25	0	0	8	2	6	8	25	22	20	22	0	0	5	2	6	7
Clay	35	35	25	21	28	33	21	21	17	19	33	34	24	20	27	32	20	21	17	18
Clayton	49	44	27	46	35	42	38	21	31	26	49	41	27	46	31	40	37	20	29	26
Clinton	108	91	78	103	75	78	83	79	55	59	104	90	74	97	70	77	82	77	54	58
Crawford	32	15	15	23	14	10	16	15	11	3	30	13	13	23	13	10	16	13	11	3
Dallas	341	222	168	161	125	138	201	252	132	114	333	216	157	150	122	124	194	237	130	114
Davis	5	8	5	2	1	12	4	8	6	2	5	8	4	2	1	7	4	8	6	2
Decatur	20	12	11	8	7	9	5	7	2	4	20	11	11	8	7	9	5	7	2	4
Delaware	12	19	15	28	27	39	25	25	32	25	10	18	13	26	26	25	25	25	29	18
Des Moines	39	31	41	53	45	73	39	37	26	30	32	27	39	42	45	59	39	32	24	29
Dickinson	148	100	91	148	88	89	115	118	75	75	144	93	87	143	84	81	102	99	72	72
Dubuque	296	290	227	261	335	310	341	367	266	266	286	277	219	250	309	282	301	344	257	247
Emmet	12	12	10	12	20	15	13	7	4	2	12	11	8	12	19	14	11	6	4	2
Fayette	28	21	21	12	21	21	14	15	9	14	26	17	20	11	19	21	11	15	9	14
Floyd	25	36	26	34	35	14	9	13	13	9	21	33	25	31	35	14	8	12	13	8
Franklin	6	13	5	9	9	6	4	5	6	1	6	13	5	4	9	6	4	5	5	0
Fremont	9	17	7	12	5	6	3	2	3	2	9	17	7	12	5	6	2	2	3	2
Greene	18	17	26	27	50	28	15	15	42	6	17	17	26	27	50	28	15	12	42	6
Grundy	18	26	12	19	21	13	18	13	9	8	16	26	12	15	20	13	17	13	9	7
Guthrie	50	33	49	49	35	29	15	47	36	20	48	32	48	49	34	29	15	46	36	20
Hamilton	23	37	24	21	18	20	9	9	8	6	21	33	21	20	15	16	8	9	7	5
Hancock	24	18	16	73	12	21	7	13	10	7	24	18	14	73	12	19	7	13	9	5
Hardin	19	30	17	31	20	22	21	11	5	7	17	29	17	31	18	20	19	10	5	7
Harrison	87	70	50	66	56	76	35	22	25	10	87	70	48	66	55	75	32	22	25	8
Henry	68	70	37	60	46	69	47	44	42	53	65	64	21	52	45	60	41	40	32	47
Howard	11	17	13	13	8	25	13	5	13	10	10	17	13	10	8	25	10	5	13	10
Humboldt	24	20	23	14	12	14	8	12	9	10	23	20	21	14	12	14	8	11	9	9
Ida	4	4	5	3	3	12	18	9	5	7	4	4	5	3	2	12	18	9	5	5
Iowa	27	15	14	24	15	20	17	20	17	8	22	13	13	22	12	17	14	12	12	7
Jackson	64	44	42	57	50	64	47	46	33	16	63	43	41	55	47	64	47	45	32	14
Jasper	95	106	102	86	65	103	69	68	33	53	85	97	82	85	47	90	61	63	31	41

Table 1. Reported Building Permits for New Residential Construction in Iowa's Counties, 1990-1999 (continued).

County	Total Number										Number of Single-Family Units									
	1999	1998	1997	1966	1995	1994	1993	1992	1991	1990	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Jefferson	58	36	20	19	21	25	30	26	18	8	36	27	19	19	16	24	29	20	16	7
Johnson	681	595	487	503	506	715	696	595	473	405	630	552	432	435	460	640	652	555	445	374
Jones	22	23	33	28	17	18	28	26	16	12	22	20	30	23	16	15	26	20	16	12
Keokuk	14	4	8	11	16	12	6	6	6	3	14	4	8	9	16	12	6	6	6	3
Kossuth	17	21	18	17	16	19	16	9	11	5	16	21	18	17	16	17	15	9	10	5
Lee	20	29	21	20	30	24	25	25	15	12	16	19	21	18	30	24	23	20	15	11
Linn	1002	897	737	766	731	815	850	821	590	533	857	811	676	698	645	734	804	737	531	499
Louisa	34	11	11	17	12	9	8	23	12	17	32	8	10	17	12	8	8	23	11	11
Lucas	5	5	1	3	3	2	1	3	1	3	3	4	1	3	3	2	1	3	1	3
Lyon	34	23	30	19	28	41	30	16	13	9	34	23	30	18	27	40	29	15	13	8
Madison	127	90	73	40	34	82	58	40	42	18	125	88	72	38	30	71	57	38	37	15
Mahaska	32	28	33	34	27	29	38	30	28	21	29	22	26	32	22	20	33	30	28	21
Marion	181	149	129	136	103	115	125	67	57	35	161	145	124	121	101	103	110	60	50	29
Marshall	61	59	61	39	47	36	59	48	40	37	54	55	55	37	41	30	50	44	39	37
Mills	16	18	24	17	18	47	10	26	19	6	15	17	24	15	16	47	10	25	19	6
Mitchell	10	13	12	17	21	14	11	15	15	10	10	12	12	15	20	13	10	12	14	9
Monona	33	35	60	15	21	28	12	23	13	8	29	26	58	15	21	26	12	22	13	8
Monroe	20	10	12	13	14	11	8	21	12	5	20	10	12	13	14	11	8	21	12	5
Montgomery	14	17	17	13	7	12	17	25	11	7	14	17	16	13	6	10	16	23	11	7
Muscatine	104	116	105	112	107	104	95	103	72	72	92	110	105	103	106	103	94	101	72	72
O'Brien	15	25	21	25	20	23	28	26	21	14	14	19	18	22	13	23	27	25	20	10
Osceola	9	11	8	10	7	14	7	8	11	2	8	11	8	10	7	14	7	4	10	1
Page	9	21	10	22	41	21	13	11	11	8	9	17	9	21	39	21	13	10	11	6
Palo Alto	13	11	12	15	9	10	0	7	3	4	12	10	12	12	9	10	0	7	3	4
Plymouth	98	116	110	111	69	105	118	93	81	72	96	110	105	110	67	99	115	92	77	69
Pocahontas	32	3	6	5	4	8	5	6	1	3	32	3	5	4	4	8	5	6	1	3
Polk	2554	2514	1778	2061	1893	2051	1917	1909	1618	1479	2513	2465	1745	2002	1804	1951	1878	1838	1586	1420
Pottawattamie	338	311	281	300	238	206	170	148	117	124	333	288	268	286	204	199	156	140	110	114
Poweshiek	69	50	45	50	39	47	42	27	35	41	62	42	37	40	38	43	33	22	34	38
Ringgold	0	6	6	3	7	6	4	3	1	2	0	6	6	3	7	6	4	3	1	2
Sac	11	10	8	14	8	8	11	6	2	0	8	8	7	13	6	5	11	5	2	0
Scott	619	564	515	482	395	418	589	493	473	439	606	546	483	446	374	418	580	491	472	439
Shelby	29	8	11	12	8	20	23	11	18	11	29	8	11	12	8	20	23	11	18	11
Sioux	63	68	92	84	101	96	80	80	75	72	57	65	92	80	101	94	77	77	70	69
Story	340	363	322	263	246	304	278	265	182	142	293	324	276	243	224	285	254	241	163	133
Tama	30	28	18	22	22	29	34	25	19	15	28	26	16	22	19	27	32	21	18	11
Taylor	4	6	5	6	7	2	0	4	3	1	4	5	5	5	7	2	0	4	1	1
Union	4	11	3	12	11	8	4	4	12	2	4	11	3	6	11	8	4	4	6	2
Van Buren	7	5	6	7	7	5	4	4	5	11	6	5	6	4	7	4	4	4	5	11
Wapello	55	39	42	53	74	59	46	44	50	28	55	36	39	47	69	56	45	43	48	27
Warren	194	148	112	240	233	174	187	199	153	136	184	146	112	220	229	166	179	195	150	125
Washington	23	47	20	29	34	49	35	47	43	39	19	38	20	27	30	45	31	46	42	33
Wayne	0	3	0	1	3	3	1	0	1	0	0	3	0	1	3	3	1	0	1	0
Webster	59	69	47	40	41	33	27	54	37	28	56	66	45	38	38	32	26	54	37	28
Winneshiek	36	17	11	7	8	15	8	8	32	8	35	15	11	5	8	14	5	7	30	7
Winneshiek	42	86	52	66	43	30	27	40	32	28	39	80	49	64	41	29	23	39	28	26
Woodbury	177	150	183	214	193	185	129	194	122	145	175	142	172	203	174	159	120	186	116	131
Worth	6	4	4	4	5	2	8	8	8	9	6	4	4	3	5	2	7	8	8	9
Wright	28	24	9	17	27	13	18	13	12	9	28	23	9	15	26	13	12	12	9	9
State of Iowa	9951	9259	7688	8330	7586	8270	7827	7681	6186	5474	9408	8740	7240	7790	7093	7710	7405	7233	5916	5177

Table 2. Average (Mean) Value of Reported Single-Family Unit Building Permits for New Residential Construction in Iowa's Counties, 1990-1999.

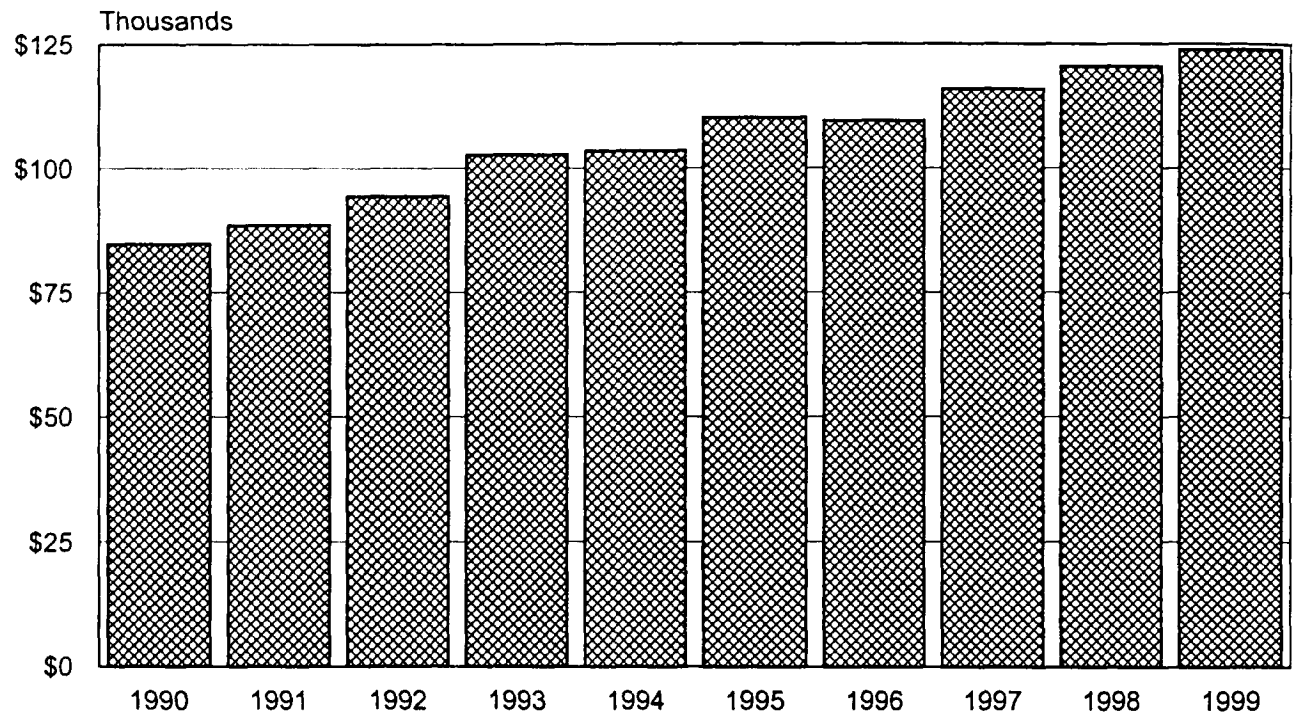
County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Adair	153798	102681	96509	76767	83400	111333	76834	90000	69661	74765
Adams	88750	165000	116552	121600	120000	65667	67500	-	-	100000
Allamakee	65255	56100	62241	83528	68971	58915	69864	54780	42500	61333
Appanoose	51533	60556	52167	79333	54920	75600	63692	51804	65083	34750
Audubon	99400	128333	95600	112500	78870	52500	101950	75500	70000	-
Benton	126937	123606	95879	102487	99859	100121	99264	72746	79814	77400
Black Hawk	146559	146180	120502	125859	122514	109305	121051	110015	90112	97753
Boone	105265	125273	131542	98816	109274	94660	83587	97505	91409	84514
Bremer	131851	141617	125866	120733	111125	108607	107256	93056	98724	86377
Buchanan	112039	139602	86879	84362	76934	86033	81817	71740	71040	67179
Buena Vista	160126	125295	114269	126432	128454	100179	91375	96487	96322	84083
Butler	99880	100415	87649	92757	82336	86597	88510	72957	67073	66248
Calhoun	109838	48005	129405	93750	106740	101215	79025	80937	55056	64278
Carroll	124470	122330	116574	109150	98783	97676	100492	94954	87156	90149
Cass	91718	101676	106123	102177	85038	90182	76000	57008	79749	53420
Cedar	125611	118156	101933	92581	97553	89730	92367	69736	53784	70667
Cerro Gordo	152251	108362	110684	117808	100571	86150	91918	99628	78215	78955
Cherokee	111143	80000	84916	127462	89806	99070	73077	73750	76417	83297
Chickasaw	115299	119584	89016	93487	76276	83560	78497	77463	77576	62783
Clarke	82000	121909	109290	101366	-	-	63302	100000	63178	80000
Clay	123030	123824	113759	106075	105317	107556	95664	68057	77706	61111
Clayton	89254	89244	75052	78554	91323	77150	102049	79375	53776	61643
Clinton	120235	114770	110105	104143	95013	96955	97888	93867	86685	97155
Crawford	95067	103615	104692	79425	98948	77750	86164	82154	67909	72000
Dallas	151116	150128	155023	133345	120006	142041	120329	107494	119776	120883
Davis	86000	90625	46250	100000	45000	54071	56750	89250	62702	42500
Decatur	94327	88636	81182	70000	75000	77778	96730	79000	50000	53500
Delaware	118673	107509	107719	87448	85643	76311	87973	80800	77302	63861
Des Moines	115257	121961	118558	102368	135939	96119	110974	92292	85971	90213
Dickinson	133028	127136	158778	86495	106531	104493	103082	92651	102088	73539
Dubuque	142124	130536	121197	118075	98783	100450	99615	93836	87859	84206
Emmet	103506	92796	98653	98725	84354	77406	69707	75349	65911	41559
Fayette	102007	121182	117902	117818	88045	100571	63345	73467	82556	77643
Floyd	115502	86776	95873	89508	69194	91755	70650	66517	70660	87438
Franklin	115250	66662	73800	54862	69556	79500	74750	46600	83000	-
Fremont	64778	87056	101429	64875	54600	70167	57500	95000	60000	42000
Greene	122588	86765	77308	109419	87788	76937	75333	79558	65738	63167
Grundy	163208	167560	117042	90276	86330	92922	80542	66638	82389	75143
Guthrie	120854	113125	115823	94045	108676	99138	104867	90609	94014	93143
Hamilton	84148	114299	94023	85914	89097	97119	97906	68886	60500	38200
Hancock	101042	126333	115571	26161	88583	60737	122286	64615	80000	58000
Hardin	124588	94983	85412	80212	77444	106250	81928	59950	72845	65374
Harrison	127538	95010	111077	95430	87116	63340	68406	64178	43600	58625
Henry	119399	106966	115123	78569	63407	58408	70992	60476	66049	60086
Howard	88000	96912	88769	53350	86500	57759	68500	73000	64462	64880
Humboldt	126446	152050	115643	100929	83455	93260	93516	74136	80897	83778
Ida	122544	89266	84609	85379	82620	77976	74397	73580	69971	63117
Iowa	97356	89902	88784	89611	85080	78742	74127	69031	68196	63117
Jackson	107573	99469	89977	93826	91326	74555	80021	74630	71629	61835
Jasper	142938	130318	115299	117062	103941	111783	96462	92854	92412	79646

- No such units were reported.

Table 2. Average (Mean) Value of Reported Single-Family Unit Building Permits for New Residential Construction in Iowa's Counties, 1990-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Jefferson	103883	120175	182512	102279	131000	102569	92241	69550	69308	99286
Johnson	141517	141212	137565	122961	204155	123286	114095	103927	103889	104818
Jones	96500	87450	115650	88226	86949	95467	76462	75370	75438	69792
Keokuk	87786	81508	80087	91042	76294	85988	49938	61182	77702	71039
Kossuth	146733	143433	152833	90111	112838	79353	95800	78444	73448	52800
Lee	108483	90633	92459	122183	98905	84891	75166	69655	80988	67912
Linn	99149	101965	96324	99139	87783	90028	89960	85126	86034	75940
Louisa	86359	52625	88000	37235	59667	79188	29688	69153	60208	61984
Lucas	98333	153500	104000	105000	103333	100000	57000	92000	56000	95333
Lyon	114735	123530	92970	91203	89173	92353	71179	70812	71330	71323
Madison	105853	111878	113401	115184	105317	95351	84725	77377	78687	59420
Mahaska	116793	119991	115808	125756	88545	99600	82394	65350	67559	71477
Marion	148525	133677	129854	109963	102971	112085	110957	104850	85742	77410
Marshall	115490	120109	110859	104470	91079	103920	86873	83070	84854	81459
Mills	111042	119590	110333	104027	93858	64192	73700	58264	64782	45067
Mitchell	109000	111663	97675	79667	80750	88823	102450	78513	59186	59444
Monona	104069	72462	54275	90142	80557	94567	93511	68727	79324	80500
Monroe	95921	92916	79047	71824	80570	87309	64875	66274	64565	61000
Montgomery	131500	79376	114250	97308	98305	71450	82186	62518	64248	78714
Muscatine	111518	94738	94313	85574	88361	87253	81592	76039	73298	72489
O'Brien	129571	142105	136889	93886	107308	101957	102685	94240	79652	113560
Osceola	98206	79730	88500	82738	73231	73071	68857	72500	63100	48000
Page	93667	93121	95000	81529	81985	92223	86673	64150	61766	57475
Palo Alto	105912	87416	92696	94440	67778	72119	-	55393	49833	66304
Plymouth	127973	140301	127165	110836	107655	99596	91490	79021	87050	57820
Pocahontas	49094	126700	80000	112845	70200	89375	56000	95667	80000	104333
Polk	129380	127625	128379	125583	122825	118510	121582	109255	96772	89152
Pottawattamie	108189	107242	108538	98693	96789	91708	91987	86913	87543	88152
Poweshiek	113036	105999	133197	82286	92832	75508	79869	82451	82197	59878
Ringgold	-	45167	113667	100800	66286	66667	78250	65000	70000	42500
Sac	91875	108860	123571	99615	94707	95600	78398	77000	69000	-
Scott	130871	123991	117886	106444	110226	111584	98908	104751	104787	104365
Shelby	108384	123750	120909	111920	99185	92314	85087	67227	75472	80818
Sioux	141747	115650	92041	105881	71465	104837	90086	83335	79691	70866
Story	109319	102200	99937	95978	90575	84759	85646	79162	79133	79867
Tama	106225	92400	72630	97318	69867	93167	76041	87716	75345	68091
Taylor	61250	85000	106800	106000	62086	80000	-	53750	325000	50000
Union	90375	63955	100000	86222	63950	88745	57250	53750	85083	67500
Van Buren	76833	71000	56667	71250	66357	71250	44500	57500	62000	41818
Wapello	96855	65059	78594	97920	70949	80672	78784	60507	56715	48450
Warren	141046	121149	122061	127065	112978	115050	106749	99047	84495	85068
Washington	112421	114074	109300	105852	85650	86778	100435	78663	70664	58030
Wayne	-	120000	-	80000	77667	65000	85000	-	80000	-
Webster	120100	116753	108989	120829	131419	101733	106263	76996	87703	74197
Winnebago	103291	123067	95091	111800	82015	68367	74425	74604	41653	94286
Winneshiek	141287	134738	132192	102981	95918	92835	112228	103349	79348	91596
Woodbury	124799	120694	102840	105158	99225	101123	98784	80629	39704	43643
Worth	111333	102250	75000	106667	102400	77500	93127	75875	70304	27140
Wright	155009	70911	90333	105787	83538	74192	61083	49708	56222	65389
State of Iowa	123814	120477	115946	109543	110180	103514	102734	94364	88596	84836

**Figure 1. Average valuations cited on building permits for single-family houses in Iowa, 1990–1999.**



## Housing Sales and Average Sales Prices in Iowa's Counties: 1988-1998

Margaret Hanson, Iowa State University  
Willis Goudy, Iowa State University  
Dick Davidson, Iowa Department of Revenue and Finance

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Housing sales and sales prices are compiled annually by the Iowa Department of Revenue and Finance. Buyers, sellers, or their agents report declarations of value on transfers of real estate to county recorders. Declarations of value are then forwarded to the appropriate city or county assessor for completion. The real estate numbers included in this section are "arm's length" transactions of single-unit and two-unit (duplexes) dwellings. Due to special considerations and financing of contract sales, the numbers that follow include only deed sales.

### Housing Sales

In 1998, there were 35,964 deed sales of single- and two-unit homes in the state (Table 1). This marked an increase of 3,352 from the previous year. The only declines in deed sales from 1988 through 1998 occurred from 1994 to 1995 and from 1996 to 1997. Overall, annual sales of homes increased 45.9 percent (+11,318) between 1988 and 1998.

Dictated largely by population, numbers of housing sales varied greatly across the state. Nearly a third (32.0%) of all sales in 1998 occurred in Linn, Polk, and Scott counties. Black Hawk, Johnson, Pottawattamie, and Woodbury were the only others with more than 1,000 sales. Twenty-three counties reported fewer than 100 deed transactions; of these 23, Adams and Taylor had fewer than 50. In 1988, only Linn, Polk, and Scott had sales numbering more than 1,000 while 46 counties had fewer than 100.

When change over the decade was examined, only Ida and Washington reported fewer sales in 1998 than in 1988. Gains ranged from less than 10 in Clarke, Fremont, and Henry to more than 2,000 in Polk. About half (45) of the counties with increases had fewer than 50 more deed sales at the end of the period than at the beginning. Four others (Black Hawk, Linn, Polk, Scott) counted at least 500 more sales in 1998 than in 1988; these four counties accounted for nearly two-fifths (38.7%) of the gain in the number of units sold.

### Average Sale Prices

The Iowa Department of Revenue and Finance reports the total value of sales across all units sold for deed. An arithmetic mean price can be calculated by dividing the total sales value by the number of sales. The result will be called the average price in this section. The average sales price of Iowa homes sold in 1998 was \$88,100, up from the average of \$50,800 ten years earlier (+\$37,300; +73.4%) (Table 2).

Eleven counties reported average housing prices under \$44,000, which was less than half the state's average. Eight others (Dallas, Dickinson, Johnson, Linn, Polk, Scott, Story, Warren) had average prices of more than \$100,000. Johnson's average of \$134,600 was \$12,400 higher than Dallas' \$122,200, which was in second place. In 1988, Keokuk, Pocahontas, Sac, and Van Buren had averages less than \$25,000 (or less than half the state's figure); Johnson again was highest at \$76,000.

Between 1988 and 1998, increases in the average prices for housing ranged from less than 25 percent in Pocahontas and Winnebago to more than 125 percent in Dallas and Van Buren. The gain of \$68,000 in the average sales price in Dallas exceeded all others. Gains from \$50,000 to \$59,999

Table 1. Number of Deed Sales of Residential Units in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Adair	64	49	61	35	45	55	66	33	44	41	40
Adams	33	41	48	31	29	31	36	25	27	23	20
Allamakee	120	122	111	118	119	105	93	99	75	97	76
Appanoose	109	106	116	99	111	126	99	103	91	87	94
Audubon	67	65	62	57	60	41	60	50	33	35	38
Benton	270	241	269	252	241	215	225	197	186	144	151
Black Hawk	1562	1461	1469	1372	1455	1427	1393	1286	1170	1182	991
Boone	319	313	352	257	320	310	266	219	221	223	203
Bremer	265	231	280	247	257	237	233	263	229	221	181
Buchanan	183	190	202	169	197	180	193	167	157	133	155
Buena Vista	263	216	286	243	248	224	221	201	222	152	141
Butler	151	137	125	140	156	122	119	104	76	102	65
Calhoun	99	124	131	103	120	112	86	106	86	87	88
Carrroll	222	235	218	184	210	185	209	177	173	169	167
Cass	174	154	163	126	171	151	135	110	125	149	118
Cedar	181	178	177	144	172	149	145	130	113	104	88
Cerro Gordo	700	608	640	648	719	663	584	559	591	569	472
Cherokee	88	107	129	131	122	121	115	93	97	77	60
Chickasaw	110	118	136	134	114	130	111	100	90	93	69
Clarke	78	84	90	101	88	64	58	73	77	68	72
Clay	186	176	172	183	211	182	204	174	187	180	165
Clayton	162	146	132	131	146	137	134	122	103	109	107
Clinton	645	555	555	533	565	529	537	483	433	459	511
Crawford	155	131	157	151	167	159	143	118	111	104	115
Dallas	665	565	479	516	423	414	392	313	340	366	280
Davis	77	62	66	62	54	62	64	33	42	52	42
Decatur	75	68	70	74	81	50	42	39	54	55	42
Delaware	156	142	166	143	175	153	165	143	162	128	114
Des Moines	524	520	562	523	565	451	511	454	480	406	384
Dickinson	212	222	223	189	196	207	204	158	201	184	179
Dubuque	978	823	838	807	941	905	904	824	800	857	796
Emmet	128	133	130	115	116	113	95	101	89	81	94
Fayette	250	219	201	251	264	142	220	185	140	148	156
Floyd	192	182	189	227	222	171	167	142	164	150	121
Franklin	109	101	114	96	101	84	82	98	65	57	59
Fremont	58	71	63	41	56	65	59	41	42	43	52
Greene	123	115	102	103	94	110	92	73	84	66	70
Grundy	113	121	107	125	106	112	107	89	91	69	75
Guthrie	141	132	131	148	130	111	104	105	126	88	76
Hamilton	223	187	197	199	242	203	222	164	173	158	190
Hancock	134	114	104	101	121	124	99	93	88	114	93
Hardin	251	229	219	236	241	205	207	150	140	129	133
Harrison	158	140	154	144	158	120	122	84	96	117	86
Henry	202	183	184	214	231	213	218	207	224	190	194
Howard	105	89	103	105	115	56	97	82	99	73	59
Humboldt	133	106	107	114	112	79	117	97	89	83	75
Ida	51	67	75	61	67	59	58	50	49	50	53
Iowa	150	123	136	115	168	128	123	80	88	112	99
Jackson	152	155	166	148	164	167	152	157	149	147	128
Jasper	496	421	390	359	395	346	420	338	331	307	341



Table 1. Number of Deed Sales of Residential Units in Iowa's Counties, 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988
Jefferson	192	181	172	149	174	154	211	143	143	167	138
Johnson	1263	1179	1167	1012	1110	1124	1149	1049	977	849	932
Jones	162	149	153	182	138	153	127	131	112	108	84
Keokuk	69	79	85	80	86	99	88	76	80	70	56
Kossuth	159	172	167	149	145	188	157	131	133	109	114
Lee	328	330	358	356	455	398	399	394	374	340	292
Linn	3015	2474	2564	2344	2602	2574	2511	2210	2254	2132	2133
Louisa	88	86	100	117	100	82	105	79	88	77	65
Lucas	92	97	97	79	95	95	79	71	71	74	57
Lyon	103	86	78	96	89	84	70	69	65	73	59
Madison	144	141	122	117	136	117	126	91	108	75	80
Mahaska	283	192	221	235	244	247	227	195	207	218	198
Marion	380	355	337	319	295	293	285	249	274	268	261
Marshall	467	444	502	513	529	467	472	444	405	364	344
Mills	134	163	161	154	160	133	110	108	120	117	106
Mitchell	96	108	101	94	112	99	73	90	90	56	41
Monona	83	85	93	77	92	53	69	62	51	67	48
Monroe	59	70	49	68	85	69	52	40	65	45	42
Montgomery	138	147	145	132	143	134	151	131	120	130	124
Muscatine	508	478	436	420	541	423	437	365	382	305	322
O'Brien	147	137	187	185	164	193	172	129	164	134	113
Osceola	65	52	76	65	55	50	71	55	52	47	49
Page	188	191	188	178	194	158	135	103	119	124	126
Palo Alto	109	111	94	117	97	105	92	84	75	62	56
Plymouth	251	238	211	196	225	245	217	201	226	170	176
Pocahontas	70	76	68	71	86	73	50	56	52	39	39
Polk	6064	5486	5188	5050	4988	5334	4973	4281	4060	3887	4018
Pottawattamie	1006	968	967	861	874	905	806	767	815	791	753
Poweshiek	200	191	181	184	220	200	193	163	191	180	175
Ringgold	52	55	51	40	25	39	49	32	22	34	26
Sac	106	120	91	98	108	104	91	95	97	89	73
Scott	2415	2154	2103	2115	2225	2245	2157	1949	1829	1637	1539
Shelby	115	97	126	119	126	123	104	102	119	85	104
Sioux	335	259	285	300	264	249	325	268	297	281	211
Story	970	825	750	705	766	809	805	700	662	683	632
Tama	153	151	171	155	175	126	132	112	109	95	81
Taylor	45	59	55	55	69	43	46	31	44	20	23
Union	149	150	127	135	140	141	130	114	100	112	96
Van Buren	61	41	51	59	59	59	70	45	47	39	36
Wapello	389	324	377	369	445	419	382	420	376	341	308
Warren	482	442	481	434	476	469	499	409	448	406	357
Washington	173	170	175	202	262	229	212	204	243	198	175
Wayne	59	58	59	46	42	42	34	33	45	28	32
Webster	593	521	533	488	512	511	576	472	466	473	407
Winnebago	151	126	133	131	131	129	123	85	98	100	94
Winneshiek	170	128	173	130	158	151	127	132	123	123	131
Woodbury	1359	1144	1252	1249	1288	1262	1200	1033	1015	970	987
Worth	93	80	77	98	75	72	72	61	48	47	42
Wright	169	164	153	175	176	129	130	128	136	112	113
State of Iowa	35964	32612	32848	31508	33337	32105	31379	27684	27320	25789	24646

Table 2. Average (Mean) Sales Price of Deed Sales of Residential Units in Iowa's Counties, 1988-1998.

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	Inflation Adjusted (1998 \$s)	
												1993	1988
Adair	46900	56800	38600	40600	40800	34300	33100	38500	30400	28300	29000	39000	39300
Adams	42600	37200	32900	45500	34700	33900	29800	28100	28600	24300	31000	38500	41900
Allamakee	58200	53200	45000	42100	42000	42100	39800	37800	37500	39200	36900	47800	50000
Appanoose	42100	47500	38300	39200	41200	35500	30700	28500	34600	31100	30000	40400	40600
Audubon	41500	42900	33600	34500	33100	23900	29800	25600	23600	24900	29400	27100	39900
Benton	77000	74800	66000	60900	52000	49900	45500	41800	40900	39400	35300	56700	47800
Black Hawk	80400	71900	67400	62700	61000	58600	57400	54700	51800	52100	47400	66500	64200
Boone	70700	66500	58500	57300	49400	47800	46000	41500	41300	44400	38900	54300	52600
Bremer	84800	82800	73700	68700	65600	62200	59200	51800	48700	51000	45200	70600	61200
Buchanan	59500	55700	54000	53300	47300	43500	39200	36800	36900	30800	31500	49400	42600
Buena Vista	65800	64000	57100	53000	51900	47400	47600	45500	43700	46900	48700	53900	66000
Butler	57400	54000	44100	46800	40000	35800	34400	31000	35400	26700	27100	40700	36600
Calhoun	54400	47500	52000	38000	35400	39100	34100	31300	32100	29100	26600	44500	36000
Carroll	70200	65400	63900	60600	58000	50300	47100	47600	43900	44200	45700	57100	61900
Cass	53300	51000	46700	46100	41200	41500	39300	41300	38000	38500	39400	47100	53300
Cedar	79900	72200	71500	65900	63000	54700	51100	47400	44300	46200	46000	62100	62300
Cerro Gordo	79700	68600	66700	65400	58200	58700	56900	57700	52400	51900	49700	66700	67200
Cherokee	53000	55700	50500	44300	39500	37900	40000	33000	32900	31600	31900	43100	43200
Chickasaw	58400	51500	52700	47100	46700	40800	45000	38500	34800	36600	34800	46300	47200
Clarke	65100	58800	55000	46500	43100	43100	41100	40500	40700	37900	35100	49000	47500
Clay	67900	68800	62400	57900	57000	50200	50900	46500	44700	42600	46300	57000	62700
Clayton	55400	55000	48300	45200	43000	39400	38300	32800	31600	33300	31800	44800	43000
Clinton	67700	60900	56400	55500	51500	52300	47500	44700	42700	39800	40900	59400	55300
Crawford	51600	46000	44400	42800	38600	43600	37400	35700	37000	37400	33300	49500	45100
Dallas	122200	117700	104000	93200	83300	75200	64000	64100	57100	54100	54200	85400	73300
Davis	47900	44000	44500	37300	39800	37500	32300	33900	34900	30400	32100	42600	43500
Decatur	38500	31400	32100	28300	27300	26400	22500	25100	30300	25400	28200	30000	38200
Delaware	74900	63300	64800	60700	57600	54600	43700	44300	40000	40000	41000	62000	55500
Des Moines	67400	66800	65500	61400	56100	48700	50000	47800	47600	45700	42400	55300	57400
Dickinson	120400	97200	103500	86400	77100	73900	72900	77600	64000	70200	67400	84000	91300
Dubuque	96600	94600	89800	82800	78500	73100	65600	60600	56600	54600	49700	83000	67300
Emmet	46200	44200	41000	39300	34300	37200	30100	29400	30100	31300	29400	42200	39800
Fayette	49200	45200	43800	37800	35800	30700	31700	29600	29800	28200	27100	34800	36700
Floyd	58000	49800	46900	48300	43200	41700	39100	33400	39100	35800	32700	47400	44200
Franklin	52100	46300	41900	39200	33700	34100	33400	29400	34400	30600	38400	38700	52000
Fremont	50100	55300	40400	38600	37900	38400	36100	28900	32700	27800	32400	43700	43900
Greene	42900	46700	37700	37200	39300	34000	38600	29300	28600	30600	29700	38600	40200
Grundy	63500	58400	55700	49400	45200	49600	40100	39400	38300	37700	35200	56300	47600
Guthrie	71000	75600	76700	57700	56500	58500	49500	39800	47400	45400	34000	66500	46100
Hamilton	62500	59600	53100	47100	49300	49600	45400	38400	43800	39600	42300	56400	57200
Hancock	51800	44800	43200	43600	36900	40200	39200	34400	36100	38000	38700	45700	52400
Hardin	55400	53100	45400	42200	40600	41200	33400	33800	34500	39400	35400	46800	47900
Harrison	71900	60600	57100	51000	41600	42500	39000	36400	35300	34400	32000	48300	43300
Henry	78800	70000	65700	62700	56900	58500	51000	45200	46100	44900	41300	66400	55800
Howard	49700	45800	41400	38500	35500	37100	35500	33200	31200	29800	28700	42200	38900
Humboldt	58300	53000	60500	49300	47900	50600	41400	40500	42200	35700	35800	57500	48400
Ida	40300	41800	43100	38700	40900	41800	33500	34600	35900	31000	30000	47500	40600
Iowa	79300	69800	67000	62200	55600	50600	51300	48100	41100	38800	38600	57500	52300
Jackson	64200	62000	60200	54100	49300	48200	44600	42500	41000	35900	39900	54700	54000
Jasper	82300	73600	71500	63000	57300	57800	57200	53300	49900	48700	45300	65700	61300

Table 2. Average (Mean) Sales Price of Deed Sales of Residential Units in Iowa's Counties, 1988-1998 (continued).

County	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	Inflation Adjusted (1998 \$s)	
												1993	1988
Jefferson	78800	70000	70500	67300	64400	62400	59300	54600	56100	47100	50400	70900	68200
Johnson	134600	125500	123300	119100	111600	104100	98700	92500	85000	80000	76000	118300	102900
Jones	74300	71300	56500	57800	46200	53600	44600	43800	44300	36700	41200	60800	55700
Keokuk	44600	39800	32900	38900	31900	32700	29200	24000	21800	25000	24800	37100	33500
Kossuth	52400	46000	45300	36900	43100	39500	35800	40500	35800	32500	37600	44900	51000
Lee	60200	54100	55200	47000	47900	43800	44500	36500	38200	39300	41800	49800	56500
Linn	109800	104000	101200	95000	87500	83800	78200	70600	67200	63000	60100	95200	81300
Louisa	48500	50200	42100	40700	38200	34300	33200	32200	32900	32700	34100	38900	46200
Lucas	45900	43100	41500	39300	44000	36100	35700	29500	33000	31400	32300	41000	43800
Lyon	55500	48700	45000	45600	41200	37900	35400	37600	29900	27800	31200	43000	42200
Madison	83400	77600	68100	65900	57600	58100	46900	45400	45800	41800	39900	66000	54000
Mahaska	62700	58700	54500	53500	47100	43700	40000	38400	37000	39400	31300	49700	42300
Marion	85500	79100	74500	72500	66000	64900	57900	54800	53500	47700	49300	73700	66700
Marshall	69200	67400	62700	56300	54600	55400	53300	50000	47100	48100	45600	62900	61800
Mills	91900	86100	78700	66900	64300	59300	59400	56500	50200	47900	49600	67300	67100
Mitchell	60700	53000	51100	51800	41000	37600	41000	31700	36100	34700	36600	42700	49500
Monona	50800	44900	39600	39500	34200	34000	32000	29800	24800	33700	27500	38600	37200
Monroe	39700	44700	43200	34300	34400	32700	30700	31200	30100	24200	28500	37100	38600
Montgomery	52200	45100	48700	46500	44200	44700	44500	37600	35400	38600	38000	50800	51400
Muscatine	82800	80200	74000	69200	67200	64000	60100	56100	54900	56600	54100	72700	73300
O'Brien	53100	52100	50700	48300	39800	42700	36800	34500	35400	35100	32900	48500	44500
Osceola	50500	45400	40600	33000	32400	38200	32800	38900	28400	32400	27700	43400	37500
Page	52200	51600	47700	42900	38700	38400	36300	38600	33400	35800	34400	43700	46600
Palo Alto	51200	43900	36700	36100	33700	32800	27600	26000	27700	27700	31300	37300	42400
Plymouth	87000	80900	81000	75300	72000	65800	55700	53300	50400	47200	47500	74800	64200
Pocahontas	30500	36300	34300	34100	28900	31200	29200	30900	28200	24600	24800	35400	33600
Polk	113400	107000	99500	97400	90900	86900	80500	76300	71900	69400	66900	98700	90500
Pottawattamie	82900	76800	69100	62900	59500	57100	55400	51400	48600	47700	47400	64900	64200
Poweshiek	77600	69600	63100	59100	58500	44600	49900	48700	49200	44900	45400	50600	61400
Ringgold	49700	49100	50800	44700	45400	35700	33600	25700	27500	26100	28400	40600	38500
Sac	47500	41600	36400	36700	31200	32400	28200	30500	29000	26700	24500	36800	33200
Scott	104400	94200	91400	88700	82300	78800	75200	68900	65200	61100	60600	89500	82000
Shelby	53300	59100	52600	41100	46200	43000	42100	40400	37500	37000	37900	48800	51300
Sioux	76700	68900	66300	61500	58400	54900	48100	48000	45500	42100	42800	62400	57900
Story	114200	107500	101000	95400	88600	85200	76900	74100	68200	63000	62700	96800	84800
Tama	60000	55500	47800	45100	37300	38000	36600	37300	32700	31100	31600	43200	42700
Taylor	32900	28200	26100	24900	22900	20500	21900	21700	20300	22000	25200	23200	34100
Union	57400	45300	48800	44300	38000	36100	38100	34400	34900	37200	32900	41000	44600
Van Buren	38100	34000	33100	29100	27400	26000	26400	22800	25100	21400	15200	29500	20500
Wapello	58600	55900	52100	48000	44200	39600	37300	41000	35900	36300	36800	45000	49800
Warren	101000	93200	91000	85500	81500	75000	60900	66100	63500	57100	56400	85200	76400
Washington	72000	65100	65100	59200	55600	52700	44000	47200	45600	41500	41300	59900	56000
Wayne	37000	32500	32200	27200	28200	27900	27000	26100	24600	27900	25400	31700	34400
Webster	68100	62700	56500	54900	50400	48800	47400	43500	42800	42400	42900	55400	58100
Winnebago	47900	54600	45700	45100	39600	41800	39200	38200	38000	38000	38900	47500	52700
Winneshiek	86200	77100	73700	61400	58700	56700	55700	53500	51400	48100	43900	64500	59400
Woodbury	84300	78400	76300	68600	65700	62400	60500	55700	52100	51900	46500	70900	62900
Worth	45400	42100	40200	37900	32900	36800	33300	34700	28900	27300	31800	41800	43000
Wright	46200	42900	41600	42800	40800	40900	36500	33600	37200	36200	33700	46500	45600
State of Iowa	88100	81600	76500	72000	67000	65100	60700	57100	54100	52100	50800	73900	68800

occurred in Dickinson, Johnson, and Story. Increases of less than \$10,000 took place in Pocahontas, Taylor, and Winnebago when 1988 and 1998 average sales prices were compared.

When housing sales prices were adjusted for inflation using the Housing Consumer Price Index, prices declined in seven counties from 1988 to 1998 (Table 2). In Winnebago, this decline was nearly \$5,000; only two others exceeded \$1,000. During the same period, average housing costs increased by more than \$20,000 in 23 counties even after inflation was taken into account, with the greatest increase in Dallas (+\$48,900). Gains ranged from \$10,000 to \$19,999 in 35 counties. In real dollars, average prices in Benton, Butler, Calhoun, Dallas, Guthrie, Harrison, Iowa, Madison, and Van Buren increased by more than 50 percent from 1988 to 1998.

**Note:** Caution is urged in comparisons of average housing sales prices from one year to the next. In some instances, the average is based on a relatively small number of deed sales. When that occurs, one or two very low or very high prices can influence the average substantially.

## **Estimated Farm Numbers, Acreage, and Size of Farms in Iowa's Counties: 1979, 1984, and 1989-1999**

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Each year, the Iowa Department of Agriculture and Land Stewardship estimates the number of farms in Iowa's counties. The 96,000 farms reported for 1999, which was the fourth consecutive year the number was less than 100,000, represented a decrease of 5,000 from the total in 1994. Since 1979, farm numbers have declined by 25,000 (Table 1, Figure 1). The number of acres in farms also decreased (Table 2); the 33,000,000 acres reported in 1999 was 800,000 below the 1979 figure, a decline of 2.4 percent. Average farm size (in acres) has increased from 279 acres in 1979 to 344 in 1999, a gain of 65 acres over the 21 years (Table 3, Figure 2).

Counties vary by the number and average size of their farms. This variation is due to the physical size of the county; the terrain, soil, and commodities produced; and historical settlement patterns. Seven counties (Clayton, Dubuque, Kossuth, Linn, Plymouth, Sioux, Winneshiek) each had at least 1,500 farms in 1999. Their totals were more than double the number in the 21 counties with fewer than 750. Dickinson, Emmet, and Mills were the only counties with fewer than 600 farms as of 1999. Acreage in farms varied from less than 250,000 acres in 11 counties to more than 500,000 in Kossuth, Plymouth, Pottawattamie, and Woodbury.

Average size tends to be smaller in eastern and northeastern Iowa; the largest farms generally are located in the southern and western sections of the state (Figure 3). Five counties (Bremer, Dubuque, Johnson, Linn, Sioux) averaged fewer than 250 acres per farm, while six others (Clay, Fremont, Mills, Monona, Ringgold, Wright) had averages of 450 acres or more.

### **Change in Number of Farms**

The number of farms declined in all 99 counties from 1979 to 1999. Twenty-nine counties reported decreases of 300 or more farms by the end of the period; another 45 decreased from 200 to 299, and the remaining 25 lost fewer than 200 farms. Decatur and Dubuque were the only counties that declined by fewer than 100 farms between 1979 and 1999; Fayette, Hamilton, Kossuth, and Pottawattamie had at least 400 fewer farms in 1999 than in 1979.

Farms dropped by 8,000 from 1979 to 1984 and by another 8,000 from 1984 to 1989. The decline was 4,000 during the 1989-1994 period. In 1979, 19 counties had at least 1,500 farms; only seven did in 1999. The number of Iowa's farms decreased by 20.7 percent from 1979 to 1999 (Table 4). The drop was less than 10 percent in Clayton, Decatur, Dubuque, and Jackson; it exceeded 30 percent in Clay, Grundy, and Hamilton. At least 25 percent fewer farms were counted in another 20 counties.

In 48 counties, greater percentage declines occurred from 1984 to 1989 than in the other 5-year periods reported in Table 4. But 41 counties had larger decreases in the 1979-1984 period and another eight had higher declines from 1994 to 1999.

### **Change in Acreage**

The decline of 800,000 acres from 1979 to 1999 did not occur evenly throughout the period. About 400,000 acres were lost from 1989 to 1994, 300,000 from 1979 to 1984, and 100,000 from 1994 to 1999; the estimates for 1984 and 1989 suggest little change during that time.

Table 1. Estimated Number of Farms in Iowa's Counties, 1979, 1984, and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	850	860	870	880	890	910	920	930	930	940	950	1040	1110
Adams	610	620	630	640	660	670	680	690	690	690	700	730	760
Allamakee	1010	1020	1030	1050	1060	1080	1090	1110	1110	1110	1110	1120	1200
Appanoose	830	840	850	860	870	890	900	900	900	900	900	900	990
Audubon	720	740	750	760	760	780	800	810	810	830	840	900	980
Benton	1280	1290	1300	1320	1340	1360	1380	1390	1390	1410	1420	1570	1620
Black Hawk	1060	1070	1080	1100	1120	1140	1160	1160	1160	1190	1220	1330	1400
Boone	910	920	930	940	950	950	950	960	960	980	1000	1110	1210
Bremer	1040	1050	1060	1070	1090	1100	1120	1120	1120	1130	1150	1240	1310
Buchanan	1190	1200	1210	1220	1220	1220	1220	1220	1220	1250	1280	1390	1510
Buena Vista	930	940	950	960	970	980	990	990	990	1010	1050	1180	1250
Butler	1170	1180	1190	1200	1210	1220	1240	1250	1250	1270	1280	1420	1520
Calhoun	850	860	870	880	890	900	910	910	910	940	960	1110	1190
Carroll	1170	1180	1200	1210	1220	1220	1220	1220	1220	1250	1270	1390	1430
Cass	860	870	880	890	900	910	920	940	940	940	950	1050	1140
Cedar	1020	1030	1040	1060	1090	1110	1140	1150	1150	1160	1170	1280	1360
Cerro Gordo	870	880	890	900	900	900	900	910	910	920	930	1020	1080
Cherokee	950	960	970	980	990	990	1000	1000	1000	1020	1050	1210	1240
Chickasaw	980	990	1000	1010	1030	1050	1070	1080	1080	1080	1080	1130	1210
Clarke	710	710	720	720	720	720	720	730	730	720	720	750	810
Clay	740	750	760	770	780	800	820	820	820	840	860	1000	1080
Clayton	1710	1730	1750	1750	1750	1750	1750	1780	1780	1760	1740	1710	1850
Clinton	1350	1360	1370	1380	1390	1410	1430	1440	1440	1450	1460	1550	1640
Crawford	1180	1200	1220	1240	1260	1280	1300	1320	1320	1330	1340	1490	1570
Dallas	970	980	990	1000	1010	1010	1010	1020	1020	1040	1050	1170	1230
Davis	910	920	930	940	940	950	950	960	960	960	960	940	1040
Decatur	740	740	740	740	740	740	740	750	750	750	740	760	810
Delaware	1350	1360	1370	1380	1390	1400	1410	1420	1420	1430	1440	1460	1510
Des Moines	690	690	690	700	710	720	730	730	730	740	750	800	890
Dickinson	550	560	570	580	590	600	610	630	630	630	620	640	700
Dubuque	1660	1670	1690	1700	1710	1710	1710	1730	1730	1720	1710	1690	1740
Emmet	550	560	570	580	590	600	610	620	620	620	620	680	750
Fayette	1370	1390	1400	1420	1450	1480	1510	1520	1520	1530	1530	1620	1770
Floyd	900	910	920	930	940	940	950	960	960	970	990	1070	1130
Franklin	920	930	940	950	960	970	980	1000	1000	1010	1020	1120	1210
Fremont	600	610	620	630	630	630	630	630	630	660	680	760	800
Greene	810	820	830	840	850	860	870	870	870	890	920	1050	1100
Grundy	800	810	820	830	840	850	860	860	860	910	950	1110	1180
Guthrie	910	920	930	950	980	1000	1020	1060	1060	1040	1020	1080	1130
Hamilton	840	850	860	870	880	900	910	910	910	940	970	1110	1240
Hancock	910	920	930	940	950	970	980	980	980	1000	1020	1150	1230
Hardin	920	930	940	950	960	980	1000	1020	1020	1040	1050	1160	1250
Harrison	940	950	960	970	970	970	970	980	980	1000	1010	1160	1250
Henry	870	870	880	880	880	880	880	880	880	890	900	950	1050
Howard	910	920	930	940	940	950	960	980	980	980	970	1010	1080
Humboldt	630	640	650	660	660	670	680	680	680	700	730	820	870
Ida	690	700	710	720	730	740	750	750	750	760	780	860	900
Iowa	1030	1040	1050	1050	1060	1060	1060	1070	1070	1070	1080	1130	1200
Jackson	1350	1360	1370	1380	1390	1400	1410	1440	1440	1430	1410	1400	1470
Jasper	1270	1290	1310	1320	1340	1350	1370	1390	1390	1410	1430	1550	1630

Table 1. Estimated Number of Farms in Iowa's Counties, 1979, 1984, and 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	790	790	800	810	820	820	820	840	840	830	820	860	1000
Johnson	1320	1330	1350	1350	1350	1350	1350	1370	1370	1380	1380	1480	1540
Jones	1090	1100	1110	1120	1130	1150	1160	1180	1180	1180	1190	1270	1360
Keokuk	1010	1020	1030	1030	1030	1040	1050	1060	1060	1060	1060	1140	1300
Kossuth	1500	1520	1530	1550	1580	1600	1620	1630	1630	1660	1680	1860	1970
Lee	890	900	910	920	940	950	960	960	960	970	980	1050	1130
Linn	1550	1570	1590	1610	1620	1630	1640	1650	1650	1670	1680	1790	1840
Louisa	620	620	620	620	620	620	620	620	620	630	630	680	780
Lucas	720	720	720	720	720	720	720	720	720	720	710	740	850
Lyon	1190	1190	1200	1200	1200	1200	1200	1220	1220	1230	1240	1360	1430
Madison	1030	1040	1050	1060	1080	1090	1100	1110	1110	1100	1090	1130	1260
Mahaska	1080	1090	1100	1110	1130	1150	1180	1190	1190	1190	1190	1250	1360
Marion	1040	1050	1060	1070	1080	1100	1120	1120	1120	1130	1140	1210	1350
Marshall	980	990	1000	1010	1020	1030	1040	1060	1060	1070	1080	1160	1240
Mills	540	550	550	560	570	590	600	600	600	610	630	680	750
Mitchell	850	860	870	870	870	870	870	870	870	890	920	1000	1050
Monona	760	770	780	800	820	840	860	880	880	880	880	920	1000
Monroe	720	720	720	720	720	720	720	720	720	730	740	750	830
Montgomery	610	620	630	630	640	650	660	660	660	670	690	760	790
Muscatine	820	830	840	850	850	850	850	850	850	860	880	970	1040
O'Brien	1050	1070	1080	1100	1120	1140	1160	1160	1160	1190	1200	1330	1370
Osceola	690	700	710	710	720	730	730	750	750	750	750	820	860
Page	900	910	920	940	950	960	980	990	990	1000	1010	1050	1090
Palo Alto	840	850	860	870	870	880	890	900	900	910	930	1010	1070
Plymouth	1580	1600	1620	1640	1660	1670	1680	1700	1700	1720	1730	1870	1930
Pocahontas	830	840	850	870	890	910	930	930	930	950	970	1100	1170
Polk	840	860	870	880	880	880	890	890	890	920	950	1080	1150
Pottawattamie	1410	1430	1440	1450	1460	1460	1470	1470	1470	1520	1560	1780	1900
Poweshiek	990	1000	1010	1020	1030	1040	1050	1070	1070	1070	1070	1130	1200
Ringgold	710	710	720	730	740	750	760	770	770	750	730	750	860
Sac	870	880	890	910	930	950	970	980	980	1000	1020	1140	1160
Scott	840	850	860	880	900	920	940	940	940	950	970	1060	1130
Shelby	1000	1020	1030	1040	1060	1080	1100	1110	1110	1130	1160	1300	1350
Sioux	1870	1890	1910	1930	1950	1970	1990	2030	2030	2040	2040	2100	2150
Story	1000	1010	1020	1030	1030	1030	1030	1030	1030	1060	1100	1230	1280
Tama	1240	1250	1260	1280	1300	1330	1360	1390	1390	1400	1400	1480	1600
Taylor	780	780	790	790	790	790	790	820	820	810	800	850	960
Union	700	710	710	720	720	720	720	730	730	720	720	740	860
Van Buren	820	820	820	820	820	820	820	840	840	830	830	850	970
Wapello	810	820	820	830	830	840	840	840	840	850	880	950	1040
Warren	1270	1280	1290	1290	1300	1300	1300	1300	1300	1300	1310	1370	1470
Washington	1090	1100	1110	1120	1130	1130	1140	1140	1140	1150	1160	1230	1340
Wayne	760	770	770	780	780	780	790	800	800	790	780	800	910
Webster	1000	1010	1020	1030	1050	1070	1080	1080	1080	1120	1160	1310	1390
Winnebago	650	660	670	680	690	700	710	720	720	730	740	810	910
Winneshiek	1530	1540	1560	1580	1600	1620	1640	1660	1660	1660	1660	1700	1820
Woodbury	1330	1340	1360	1360	1360	1360	1360	1390	1390	1390	1390	1500	1640
Worth	650	660	670	680	690	700	710	740	740	730	710	760	860
Wright	760	770	780	790	810	830	840	850	850	860	880	970	1070
State of Iowa	96000	97000	98000	99000	100000	101000	102000	103000	103000	104000	105000	113000	121000

Table 2. Estimated Number of Acres in Farms in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999 <sup>a</sup>	1998 <sup>a</sup>	1997 <sup>a</sup>	1996 <sup>a</sup>	1995	1994	1993	1992	1991 <sup>a</sup>	1990 <sup>a</sup>	1989 <sup>a</sup>	1984 <sup>a</sup>	1979 <sup>a</sup>
Adair	351600	351600	351600	351600	351600	352400	352400	355100	355500	355500	355500	356400	358500
Adams	261400	261400	261400	261400	261400	261900	261900	264100	264300	264300	264300	264700	266300
Allamakee	365900	365900	365900	365900	365900	367100	367100	371100	373600	373600	373600	373600	375900
Appanoose	283500	283500	283500	283500	283500	284300	284300	286700	286700	286700	286700	289400	291100
Audubon	275400	275400	275400	275400	275400	275900	275900	278100	277500	277500	277500	277500	279200
Benton	425900	425900	425900	425900	425900	427100	427100	431200	432500	432500	432500	434800	437400
Black Hawk	302600	302600	302600	302600	302600	303400	303400	306400	306200	306200	306200	308500	310400
Boone	329800	329800	329800	329800	329800	330800	330800	333600	331300	331300	331300	337400	339400
Bremer	254800	254800	254800	254800	254800	255900	255900	258600	260300	260300	260300	260300	261800
Buchanan	341600	341600	341600	341600	341600	342400	342400	345400	345900	345900	345900	345900	348000
Buena Vista	347200	347200	347200	347200	347200	348000	348000	350900	351300	351300	351300	351900	353900
Butler	348100	348100	348100	348100	348100	349300	349300	352100	352300	352300	352300	353000	355100
Calhoun	347000	347000	347000	347000	347000	347700	347700	350500	350800	350800	350800	351900	353900
Carroll	346100	346100	346100	346100	346100	347100	347100	350100	350500	350500	350500	351400	353400
Cass	342700	342700	342700	342700	342700	343500	343500	346400	346600	346600	346600	347000	349100
Cedar	346800	346800	346800	346800	346800	347700	347700	350600	351400	351400	351400	352000	354100
Cerro Gordo	329000	329000	329000	329000	329000	330700	330700	333200	336200	336200	336200	338400	340400
Cherokee	351500	351500	351500	351500	351500	352400	352400	355100	355300	355300	355300	355900	358000
Chickasaw	304200	304200	304200	304200	304200	305000	305000	307200	305100	305100	305100	305100	306900
Clarke	260400	260400	260400	260400	260400	261400	261400	263600	263900	263900	263900	264200	265800
Clay	340100	340100	340100	340100	340100	340900	340900	344100	345100	345100	345100	345800	347900
Clayton	459400	459400	459400	459400	459400	460500	460500	464500	465300	465300	465300	465300	468100
Clinton	403700	403700	403700	403700	403700	405200	405200	408700	409200	409200	409200	409200	411700
Crawford	437900	437900	437900	437900	437900	438900	438900	442700	443100	443100	443100	444400	447100
Dallas	337600	337600	337600	337600	337600	339600	339600	342500	345600	345600	345600	345600	347700
Davis	305500	305500	305500	305500	305500	306600	306600	309000	313600	313600	313600	310600	312500
Decatur	321900	321900	321900	321900	321900	322600	322600	325300	325100	325100	325100	325100	327000
Delaware	343000	343000	343000	343000	343000	343900	343900	346900	348700	348700	348700	348700	350700
Des Moines	214900	214900	214900	214900	214900	215500	215500	217400	218300	218300	218300	218500	219800
Dickinson	218400	218400	218400	218400	218400	219400	219400	222200	224700	224700	224700	226800	228100
Dubuque	342400	342400	342400	342400	342400	343600	343600	346700	348400	348400	348400	348400	350400
Emmet	236900	236900	236900	236900	236900	237400	237400	239400	240300	240300	240300	240800	242300
Fayette	436800	436800	436800	436800	436800	437900	437900	441500	441100	441100	441100	441100	443800
Floyd	299200	299200	299200	299200	299200	299800	299800	302500	302600	302600	302600	303600	305400
Franklin	353100	353100	353100	353100	353100	354000	354000	356800	357300	357300	357300	358100	360200
Fremont	307800	307800	307800	307800	307800	308400	308400	311100	311800	311800	311800	312800	314700
Greene	349800	349800	349800	349800	349800	350800	350800	353700	354100	354100	354100	354400	356500
Grundy	309300	309300	309300	309300	309300	310000	310000	312700	312800	312800	312800	312800	314600
Guthrie	359500	359500	359500	359500	359500	360300	360300	363100	363800	363800	363800	364400	366600
Hamilton	347200	347200	347200	347200	347200	347900	347900	350800	350600	350600	350600	350600	352700
Hancock	344600	344600	344600	344600	344600	345700	345700	348900	349300	349300	349300	350000	352000
Hardin	342100	342100	342100	342100	342100	342900	342900	345800	346200	346200	346200	347200	349200
Harrison	416000	416000	416000	416000	416000	417000	417000	420500	421900	421900	421900	425000	427500
Henry	258100	258100	258100	258100	258100	258800	258800	261000	262100	262100	262100	262300	263900
Howard	287100	287100	287100	287100	287100	287900	287900	290400	288400	288400	288400	288400	290100
Humboldt	264100	264100	264100	264100	264100	264700	264700	266900	267200	267200	267200	267400	269000
Ida	265200	265200	265200	265200	265200	265700	265700	267900	268000	268000	268000	268400	270000
Iowa	351700	351700	351700	351700	351700	353000	353000	358600	360400	360400	360400	361100	363200
Jackson	372300	372300	372300	372300	372300	373200	373200	376600	378400	378400	378400	378800	381100
Jasper	426100	426100	426100	426100	426100	427800	427800	431600	438600	438600	438600	439300	442000

<sup>a</sup>Year in which estimates were not revised



Table 2. Estimated Number of Acres in Farms in Iowa's Counties, 1979, 1984, 1989-1999 (continued).

County	1999 <sup>a</sup>	1998 <sup>a</sup>	1997 <sup>a</sup>	1996 <sup>a</sup>	1995	1994	1993	1992	1991 <sup>a</sup>	1990 <sup>a</sup>	1989 <sup>a</sup>	1984 <sup>a</sup>	1979 <sup>a</sup>
Jefferson	256000	256000	256000	256000	256000	257100	257100	260500	262300	262300	262300	263400	265000
Johnson	319000	319000	319000	319000	319000	321100	321100	324600	330000	330000	330000	337700	339700
Jones	343700	343700	343700	343700	343700	344500	344500	347500	348100	348100	348100	348900	350900
Keokuk	352000	352000	352000	352000	352000	353300	353300	354500	356400	356400	356400	356400	358500
Kossuth	592200	592200	592200	592200	592200	593500	593500	598600	598700	598700	598700	600300	603900
Lee	289900	289900	289900	289900	289900	290900	290900	293700	294800	294800	294800	294800	296500
Linn	377100	377100	377100	377100	377100	378900	378900	382800	387200	387200	387200	389400	391700
Louisa	226900	226900	226900	226900	226900	228900	228900	231000	232000	232000	232000	233400	234800
Lucas	251600	251600	251600	251600	251600	252400	252400	249500	251100	251100	251100	255300	256800
Lyon	358800	358800	358800	358800	358800	359500	359500	362600	362800	362800	362800	363200	365400
Madison	344500	344500	344500	344500	344500	345200	345200	348200	347400	347400	347400	347400	349500
Mahaska	341300	341300	341300	341300	341300	342400	342400	345600	347100	347100	347100	350900	352900
Marion	298300	298300	298300	298300	298300	299100	299100	302000	303600	303600	303600	308700	310600
Marshall	336700	336700	336700	336700	336700	338000	338000	342100	344200	344200	344200	344400	346500
Mills	262500	262500	262500	262500	262500	263100	263100	265400	267200	267200	267200	267200	268800
Mitchell	284300	284300	284300	284300	284300	284900	284900	287400	287800	287800	287800	288700	290400
Monona	414900	414900	414900	414900	414900	415800	415800	418800	418600	418600	418600	421200	423700
Monroe	260400	260400	260400	260400	260400	261300	261300	263600	264200	264200	264200	264200	265800
Montgomery	256300	256300	256300	256300	256300	256900	256900	259200	260400	260400	260400	260800	262300
Muscatine	245400	245400	245400	245400	245400	247200	247200	249200	250100	250100	250100	250500	252000
O'Brien	348900	348900	348900	348900	348900	349600	349600	352400	352300	352300	352300	352600	354700
Osceola	242800	242800	242800	242800	242800	243200	243200	245300	245500	245500	245500	246500	248000
Page	323300	323300	323300	323300	323300	324000	324000	326700	327300	327300	327300	328600	330600
Palo Alto	343800	343800	343800	343800	343800	344700	344700	347600	348500	348500	348500	348800	350800
Plymouth	524100	524100	524100	524100	524100	525700	525700	530500	532600	532600	532600	534300	537500
Pocahontas	350900	350900	350900	350900	350900	351700	351700	354500	354400	354400	354400	355400	357500
Polk	237600	237600	237600	237600	237600	241600	241600	246400	252800	252800	252800	260000	261500
Pottawattamie	550600	550600	550600	550600	550600	552000	552000	557100	559900	559900	559900	562100	565400
Poweshiek	352300	352300	352300	352300	352300	353100	353100	356200	356900	356900	356900	357600	359700
Ringgold	333500	333500	333500	333500	333500	334300	334300	336700	337300	337300	337300	337700	339700
Sac	349000	349000	349000	349000	349000	349900	349900	352800	353500	353500	353500	355100	357200
Scott	231800	231800	231800	231800	231800	233000	233000	235200	238000	238000	238000	239000	240400
Shelby	361000	361000	361000	361000	361000	362000	362000	365000	365200	365200	365200	365400	367600
Sioux	463100	463100	463100	463100	463100	464300	464300	468100	467300	467300	467300	468000	470800
Story	325500	325500	325500	325500	325500	326800	326800	329700	331800	331800	331800	333700	335700
Tama	424500	424500	424500	424500	424500	426200	426200	437200	437500	437500	437500	437900	440500
Taylor	329600	329600	329600	329600	329600	330300	330300	332600	332700	332700	332700	333200	335200
Union	254700	254700	254700	254700	254700	255700	255700	258400	259700	259700	259700	259700	261200
Van Buren	289200	289200	289200	289200	289200	290100	290100	293500	296000	296000	296000	296500	298300
Wapello	244500	244500	244500	244500	244500	245200	245200	248000	249300	249300	249300	249600	251100
Warren	325100	325100	325100	325100	325100	326900	326900	330500	331500	331500	331500	334300	336300
Washington	337700	337700	337700	337700	337700	338500	338500	341400	343200	343200	343200	344100	346200
Wayne	319200	319200	319200	319200	319200	320100	320100	322700	322900	322900	322900	323800	325700
Webster	416600	416600	416600	416600	416600	417600	417600	421500	422900	422900	422900	423900	426400
Winnebago	238200	238200	238200	238200	238200	239000	239000	241000	241600	241600	241600	243300	244800
Winneshiek	413400	413400	413400	413400	413400	414300	414300	418100	419200	419200	419200	419200	421700
Woodbury	500300	500300	500300	500300	500300	501200	501200	508200	509800	509800	509800	510100	513200
Worth	238500	238500	238500	238500	238500	239100	239100	241100	241900	241900	241900	242800	244300
Wright	351300	351300	351300	351300	351300	352000	352000	355000	355300	355300	355300	355800	357900
State of Iowa	33000000	33000000	33000000	33000000	33000000	33100000	33100000	33400000	33500000	33500000	33500000	33500000	33800000
	33000000	33000000	33000000	33000000	33000000	33100000	33100000	33500000	33500000	33500000	33500000	33800000	33800000

Table 3. Estimated Average Size (in acres) of Farms in Iowa's Counties, 1979, 1984, and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	414	409	404	400	395	387	383	382	382	378	374	343	323
Adams	429	422	415	408	396	391	385	383	383	383	378	363	350
Allamakee	362	359	355	348	345	340	337	334	337	337	337	334	313
Appanoose	342	338	334	330	326	319	316	319	319	319	319	322	294
Audubon	383	372	367	362	362	354	345	343	343	334	330	308	285
Benton	333	330	328	323	318	314	309	310	311	307	305	277	270
Black Hawk	285	283	280	275	270	266	262	264	264	257	251	232	222
Boone	362	358	355	351	347	348	348	348	345	338	331	304	280
Bremer	245	243	240	238	234	233	228	231	232	230	226	210	200
Buchanan	287	285	282	280	280	281	281	283	284	277	270	249	230
Buena Vista	373	369	365	362	358	355	352	354	355	348	335	298	283
Butler	298	295	293	290	288	286	282	282	282	277	275	249	234
Calhoun	408	403	399	394	390	386	382	385	385	373	365	317	297
Carroll	296	293	288	286	284	285	285	287	287	280	276	253	247
Cass	398	394	389	385	381	377	373	369	369	369	365	330	306
Cedar	340	337	333	327	318	313	305	305	306	303	300	275	260
Cerro Gordo	378	374	370	366	366	367	367	366	369	365	362	332	315
Cherokee	370	366	362	359	355	356	352	355	355	348	338	294	289
Chickasaw	310	307	304	301	295	290	285	284	283	283	283	270	254
Clarke	367	367	362	362	362	363	363	361	362	367	367	352	328
Clay	460	453	448	442	436	426	416	420	421	411	401	346	322
Clayton	269	266	263	263	263	263	263	261	261	264	267	272	253
Clinton	299	297	295	293	290	287	283	284	284	282	280	264	251
Crawford	371	365	359	353	348	343	338	335	336	333	331	298	285
Dallas	348	344	341	338	334	336	336	336	339	332	329	295	283
Davis	336	332	328	325	325	323	323	322	327	327	327	330	300
Decatur	435	435	435	435	435	436	436	434	433	433	439	428	404
Delaware	254	252	250	249	247	246	244	244	246	244	242	239	232
Des Moines	311	311	311	307	303	299	295	298	299	295	291	273	247
Dickinson	397	390	383	377	370	366	360	353	357	357	362	354	326
Dubuque	206	205	203	201	200	201	201	200	201	203	204	206	201
Emmet	431	423	416	408	402	396	389	386	388	388	388	354	323
Fayette	319	314	312	308	301	296	290	290	290	288	288	272	251
Floyd	332	329	325	322	318	319	316	315	315	312	306	284	270
Franklin	384	380	376	372	368	365	361	357	357	354	350	320	298
Fremont	513	505	496	489	489	490	490	494	495	472	459	412	393
Greene	432	427	421	416	412	408	403	407	407	398	385	338	324
Grundy	387	382	377	373	368	365	360	364	364	344	329	282	267
Guthrie	395	391	387	378	367	360	353	343	343	350	357	337	324
Hamilton	413	408	404	399	395	387	382	385	385	373	361	316	284
Hancock	379	375	371	367	363	356	353	356	356	349	342	304	286
Hardin	372	368	364	360	356	350	343	339	339	333	330	299	279
Harrison	443	438	433	429	429	430	430	429	431	422	418	366	342
Henry	297	297	293	293	293	294	294	297	298	294	291	276	251
Howard	315	312	309	305	305	303	300	296	294	294	297	286	269
Humboldt	419	413	406	400	400	395	389	393	393	382	366	326	309
Ida	384	379	374	368	363	359	354	357	357	353	344	312	300
Iowa	341	338	335	335	332	333	333	335	337	337	334	320	303
Jackson	276	274	272	270	268	267	265	262	263	265	268	271	259
Jasper	336	330	325	323	318	317	312	311	316	311	307	283	271

Table 3. Estimated Average Size (in acres) of Farms in Iowa's Counties, 1979, 1984, and 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	324	324	320	316	312	314	314	310	312	316	320	306	265
Johnson	242	240	236	236	236	238	238	237	241	239	239	228	221
Jones	315	312	310	307	304	300	297	294	295	295	293	275	258
Keokuk	349	345	342	342	342	340	336	334	336	336	336	313	276
Kossuth	395	390	387	382	375	371	366	367	367	361	356	323	307
Lee	326	322	319	315	308	306	303	306	307	304	301	281	262
Linn	243	240	237	234	233	232	231	232	235	232	230	218	213
Louisa	366	366	366	366	366	369	369	373	374	368	368	343	301
Lucas	349	349	349	349	349	351	351	347	349	349	354	345	302
Lyon	302	302	299	299	299	300	300	297	297	295	293	267	256
Madison	334	331	328	325	319	317	314	314	313	316	319	307	277
Mahaska	316	313	310	307	302	298	290	290	292	292	292	281	259
Marion	287	284	281	279	276	272	267	270	271	269	266	255	230
Marshall	344	340	337	333	330	328	325	323	325	322	319	297	279
Mills	486	477	477	469	461	446	439	442	445	438	424	393	358
Mitchell	334	331	327	327	327	327	327	330	331	323	313	289	277
Monona	546	539	532	519	506	495	483	476	476	476	476	458	424
Monroe	362	362	362	362	362	363	363	366	367	362	357	352	320
Montgomery	420	413	407	407	400	395	389	393	395	389	377	343	332
Muscatine	299	296	292	289	289	291	291	293	294	291	284	258	242
O'Brien	332	326	323	317	312	307	301	304	304	296	294	265	259
Osceola	352	347	342	342	337	333	333	327	327	327	327	301	288
Page	359	355	351	344	340	338	331	330	331	327	324	313	303
Palo Alto	409	404	400	395	395	392	387	386	387	383	375	345	328
Plymouth	332	328	324	320	316	315	313	312	313	310	308	286	278
Pocahontas	423	418	413	403	394	386	378	381	381	373	365	323	306
Polk	283	276	273	270	270	275	271	277	284	275	266	241	227
Pottawattamie	390	385	382	380	377	378	376	379	381	368	359	316	298
Poweshiek	356	352	349	345	342	340	336	333	334	334	334	316	300
Ringgold	470	470	463	457	451	446	440	437	438	450	462	450	395
Sac	401	397	392	384	375	368	361	360	361	354	347	311	308
Scott	276	273	270	263	258	253	248	250	253	251	245	225	213
Shelby	361	354	350	347	341	335	329	329	329	323	315	281	272
Sioux	248	245	242	240	237	236	233	231	230	229	229	223	219
Story	326	322	319	316	316	317	317	320	322	313	302	271	262
Tama	342	340	337	332	327	320	313	315	315	313	313	296	275
Taylor	423	423	417	417	417	418	418	406	406	411	416	392	349
Union	364	359	359	354	354	355	355	354	356	361	361	351	304
Van Buren	353	353	353	353	353	354	354	349	352	357	357	349	308
Wapello	302	298	298	295	295	292	292	295	297	293	283	263	241
Warren	256	254	252	252	250	251	251	254	255	255	253	244	229
Washington	310	307	304	302	299	300	297	299	301	298	296	280	258
Wayne	420	415	415	409	409	410	405	403	404	409	414	405	358
Webster	417	412	408	404	397	390	387	390	392	378	365	324	307
Winnebago	366	361	356	350	345	341	337	335	336	331	326	300	269
Winneshiek	270	268	265	262	258	256	253	252	253	253	253	247	232
Woodbury	376	373	368	368	368	369	369	366	367	367	367	340	313
Worth	367	361	356	351	346	342	337	326	327	331	341	319	284
Wright	462	456	450	445	434	424	419	418	418	413	404	367	334
State of Iowa	344	340	337	333	330	328	325	324	325	322	319	297	279

Table 4. Percentage Change in Number and Average Size (in Acres) of Farms in Iowa's Counties, 1979-1999.

County	% Change in Number of Farms					% Change in Average Size (in Acres)				
	1979- 1999	1994- 1999	1989- 1994	1984- 1989	1979- 1984	1979- 1999	1994- 1999	1989- 1994	1984- 1989	1979- 1984
Adair	-23.4	-6.6	-4.2	-8.7	-6.3	28.2	6.9	3.5	9.0	6.2
Adams	-19.7	-9.0	-4.3	-4.1	-3.9	22.6	9.7	3.4	4.1	3.7
Allamakee	-15.8	-6.5	-2.7	-0.9	-6.7	15.7	6.5	0.9	0.9	6.7
Appanoose	-16.2	-6.7	-1.1	0.0	-9.1	16.3	7.1	0.1	-0.9	9.5
Audubon	-26.5	-7.7	-7.1	-6.7	-8.2	34.4	8.3	7.2	7.1	8.1
Benton	-21.0	-5.9	-4.2	-9.6	-3.1	23.3	6.0	3.0	10.1	2.6
Black Hawk	-24.3	-7.0	-6.6	-8.3	-5.0	28.4	7.1	6.0	8.2	4.5
Boone	-24.8	-4.2	-5.0	-9.9	-8.3	29.3	4.0	5.2	8.9	8.6
Bremer	-20.6	-5.5	-4.3	-7.3	-5.3	22.5	5.3	2.9	7.6	5.0
Buchanan	-21.2	-2.5	-4.7	-7.9	-7.9	24.8	2.3	3.9	8.4	8.3
Buena Vista	-25.6	-5.1	-6.7	-11.0	-5.6	31.8	5.0	6.0	12.4	5.3
Butler	-23.0	-4.1	-4.7	-9.9	-6.6	27.4	4.1	4.1	10.4	6.4
Calhoun	-28.6	-5.6	-6.3	-13.5	-6.7	37.4	5.6	5.8	15.1	6.7
Carroll	-18.2	-4.1	-3.9	-8.6	-2.8	19.8	4.0	3.1	9.1	2.4
Cass	-24.6	-5.5	-4.2	-9.5	-7.9	30.1	5.4	3.4	10.6	7.8
Cedar	-25.0	-8.1	-5.1	-8.6	-5.9	30.8	8.5	4.4	9.1	5.8
Cerro Gordo	-19.4	-3.3	-3.2	-8.8	-5.6	20.0	2.9	1.5	9.0	5.4
Cherokee	-23.4	-4.0	-5.7	-13.2	-2.4	28.0	3.9	5.3	15.0	1.7
Chickasaw	-19.0	-6.7	-2.8	-4.4	-6.6	22.0	6.7	2.6	4.8	6.3
Clarke	-12.3	-1.4	0.0	-4.0	-7.4	11.9	1.1	-1.1	4.3	7.3
Clay	-31.5	-7.5	-7.0	-14.0	-7.4	42.9	7.9	6.3	15.9	7.5
Clayton	-7.6	-2.3	0.6	1.8	-7.6	6.3	2.2	-1.4	-1.8	7.5
Clinton	-17.7	-4.3	-3.4	-5.8	-5.5	19.1	4.0	2.6	6.1	5.2
Crawford	-24.8	-7.8	-4.5	-10.1	-5.1	30.2	8.2	3.6	11.1	4.6
Dallas	-21.1	-4.0	-3.8	-10.3	-4.9	23.0	3.5	2.2	11.5	4.2
Davis	-12.5	-4.2	-1.0	2.1	-9.6	12.0	4.1	-1.3	-0.9	10.0
Decatur	-8.6	0.0	0.0	-2.6	-6.2	7.7	-0.2	-0.7	2.6	5.9
Delaware	-10.6	-3.6	-2.8	-1.4	-3.3	9.5	3.4	1.5	1.3	3.0
Des Moines	-22.5	-4.2	-4.0	-6.3	-10.1	25.9	3.9	2.9	6.6	10.5
Dickinson	-21.4	-8.3	-3.2	-3.1	-8.6	21.8	8.6	1.0	2.3	8.6
Dubuque	-4.6	-2.9	0.0	1.2	-2.9	2.5	2.5	-1.5	-1.0	2.5
Emmet	-26.7	-8.3	-3.2	-8.8	-9.3	33.4	8.9	2.0	9.6	9.6
Fayette	-22.6	-7.4	-3.3	-5.6	-8.5	27.1	7.8	2.7	5.9	8.4
Floyd	-20.4	-4.3	-5.1	-7.5	-5.3	23.0	4.1	4.2	7.7	5.2
Franklin	-24.0	-5.2	-4.9	-8.9	-7.4	28.9	5.2	4.3	9.4	7.4
Fremont	-25.0	-4.8	-7.4	-10.5	-5.0	30.5	4.8	6.7	11.4	4.8
Greene	-26.4	-5.8	-6.5	-12.4	-4.5	33.3	5.9	5.9	13.9	4.3
Grundy	-32.2	-5.9	-10.5	-14.4	-5.9	44.9	6.1	10.9	16.7	5.6
Guthrie	-19.5	-9.0	-2.0	-5.6	-4.4	21.9	9.6	0.9	5.9	4.0
Hamilton	-32.3	-6.7	-7.2	-12.6	-10.5	45.4	6.8	7.1	14.2	11.3
Hancock	-26.0	-6.2	-4.9	-11.3	-6.5	32.5	6.3	4.2	12.5	6.3
Hardin	-26.4	-6.1	-6.7	-9.5	-7.2	33.3	6.3	6.0	10.4	7.2
Harrison	-24.8	-3.1	-4.0	-12.9	-7.2	29.5	3.0	2.8	14.2	7.0
Henry	-17.1	-1.1	-2.2	-5.3	-9.5	18.3	1.0	1.1	5.4	10.0
Howard	-15.7	-4.2	-2.1	-4.0	-6.5	17.1	3.9	2.0	3.8	6.3
Humboldt	-27.6	-6.0	-8.2	-11.0	-5.7	35.6	6.1	7.9	12.3	5.5
Ida	-23.3	-6.8	-5.1	-9.3	-4.4	28.0	6.9	4.4	10.3	4.0
Iowa	-14.2	-2.8	-1.9	-4.4	-5.8	12.5	2.4	-0.3	4.4	5.6
Jackson	-8.2	-3.6	-7	0.7	-4.8	6.6	3.5	-0.5	-1.1	4.6
Jasper	-22.1	-5.9	-5.6	-7.7	-4.9	24.0	6.0	3.2	8.5	4.4

Table 4. Percentage Change in Number and Average Size (in Acres) of Farms in Iowa's Counties, 1979-1999 (continued).

County	% Change in Number of Farms					% Change in Average Size (in Acres)				
	1979-1999	1994-1999	1989-1994	1984-1989	1979-1984	1979-1999	1994-1999	1989-1994	1984-1989	1979-1984
Jefferson	-21.0	-3.7	0.0	-4.7	-14.0	22.3	3.3	-2.0	4.6	15.5
Johnson	-14.3	-2.2	-2.2	-6.8	-3.9	9.5	1.7	-0.5	4.8	3.2
Jones	-19.9	-5.2	-3.4	-6.3	-6.6	22.1	5.2	2.2	6.5	6.6
Keokuk	-22.3	-2.9	-1.9	-7.0	-12.3	26.4	2.7	1.1	7.3	13.4
Kossuth	-23.9	-6.3	-4.8	-9.7	-5.6	28.7	6.5	4.2	10.2	5.2
Lee	-21.2	-6.3	-3.1	-6.7	-7.1	24.4	6.5	1.7	7.1	7.3
Linn	-15.8	-4.9	-3.0	-6.1	-2.7	14.1	4.5	1.1	5.5	2.3
Louisa	-20.5	0.0	-1.6	-7.4	-12.8	21.6	-0.9	0.3	7.3	14.0
Lucas	-15.3	0.0	1.4	-4.1	-12.9	15.6	-0.4	-1.0	2.6	14.2
Lyon	-16.8	-0.8	-3.2	-8.8	-4.9	18.0	0.8	2.2	9.7	4.3
Madison	-18.3	-5.5	0.0	-3.5	-10.3	20.6	5.5	-0.7	3.9	10.8
Mahaska	-20.6	-6.1	-3.4	-4.8	-8.1	22.0	6.1	2.0	3.9	8.5
Marion	-23.0	-5.5	-3.5	-5.8	-10.4	24.8	5.5	2.2	4.3	10.9
Marshall	-21.0	-4.9	-4.6	-6.9	-6.5	23.3	4.8	2.9	7.4	6.5
Mills	-28.0	-8.5	-6.3	-7.4	-9.3	35.8	9.0	5.2	7.9	9.8
Mitchell	-19.0	-2.3	-5.4	-8.0	-4.8	20.6	2.0	4.6	8.3	4.3
Monona	-24.0	-9.5	-4.5	-4.3	-8.0	28.8	10.3	4.0	3.9	8.0
Monroe	-13.3	0.0	-2.7	-1.3	-9.6	13.1	-0.3	1.7	1.4	10.0
Montgomery	-22.8	-6.2	-5.8	-9.2	-3.8	26.5	6.3	4.8	9.9	3.3
Muscatine	-21.2	-3.5	-3.4	-9.3	-6.7	23.6	2.8	2.4	10.1	6.6
O'Brien	-23.4	-7.9	-5.0	-9.8	-2.9	28.2	8.3	4.3	10.9	2.3
Osceola	-19.8	-5.5	-2.7	-8.5	-4.7	22.2	5.7	1.9	8.6	4.5
Page	-17.4	-6.3	-5.0	-3.8	-3.7	18.5	6.4	4.2	3.5	3.3
Palo Alto	-21.5	-4.5	-5.4	-7.9	-5.6	24.7	4.4	4.5	8.7	5.2
Plymouth	-18.1	-5.4	-3.5	-7.5	-3.1	19.4	5.5	2.2	7.7	2.9
Pocahontas	-29.1	-8.8	-6.2	-11.8	-6.0	38.2	9.4	5.9	13.0	5.6
Polk	-27.0	-4.5	-7.4	-12.0	-6.1	24.7	3.1	3.2	10.4	6.2
Pottawattamie	-25.8	-3.4	-6.4	-12.4	-6.3	30.9	3.2	5.3	13.6	6.0
Poweshiek	-17.5	-4.8	-2.8	-5.3	-5.8	18.7	4.9	1.7	5.7	5.3
Ringgold	-17.4	-5.3	2.7	-2.7	-12.8	19.0	5.4	-3.5	2.7	13.9
Sac	-25.0	-8.4	-6.9	-10.5	-1.7	30.2	8.9	6.1	11.6	1.0
Scott	-25.7	-8.7	-5.2	-8.5	-6.2	29.6	9.0	3.4	8.9	5.6
Shelby	-25.9	-7.4	-6.9	-10.8	-3.7	32.7	7.7	6.4	12.1	3.3
Sioux	-13.0	-5.1	-3.4	-2.9	-2.3	13.2	5.2	2.9	2.7	1.8
Story	-21.9	-2.9	-6.4	-10.6	-3.9	24.4	2.7	5.1	11.4	3.4
Tama	-22.5	-6.8	-5.0	-5.4	-7.5	24.4	6.7	2.4	5.7	7.6
Taylor	-18.8	-1.3	-1.3	-5.9	-11.5	21.2	1.2	0.5	6.1	12.3
Union	-18.6	-2.8	0.0	-2.7	-14.0	19.7	2.5	-1.6	2.8	15.5
Van Buren	-15.5	0.0	-1.2	-2.4	-12.4	14.6	-0.2	-0.9	2.3	13.3
Wapello	-22.1	-3.6	-4.5	-7.4	-8.7	25.3	3.5	3.1	7.6	9.1
Warren	-13.6	-2.3	-0.8	-4.4	-6.8	11.8	1.8	-0.6	3.7	6.6
Washington	-18.7	-3.5	-2.6	-5.7	-8.2	20.2	3.5	1.2	5.7	8.5
Wayne	-16.5	-2.6	0.0	-2.5	-12.1	17.3	2.3	-0.9	2.2	13.1
Webster	-28.1	-6.5	-7.8	-11.5	-5.8	35.8	6.8	6.9	12.7	5.5
Winnebago	-28.6	-7.1	-5.4	-8.6	-11.0	36.1	7.2	4.7	8.7	11.5
Winneshiek	-15.9	-5.6	-2.4	-2.4	-6.6	16.4	5.6	1.1	2.4	6.5
Woodbury	-18.9	-2.2	-2.2	-7.3	-8.5	20.1	2.0	0.4	7.9	8.6
Worth	-24.4	-7.1	-1.4	-6.6	-11.6	29.2	7.4	0.2	6.9	12.3
Wright	-29.0	-8.4	-5.7	-9.3	-9.3	38.3	8.9	5.0	10.1	9.9
State of Iowa	-20.7	-5.0	-3.8	-7.1	-6.6	23.3	4.9	2.8	7.4	6.5

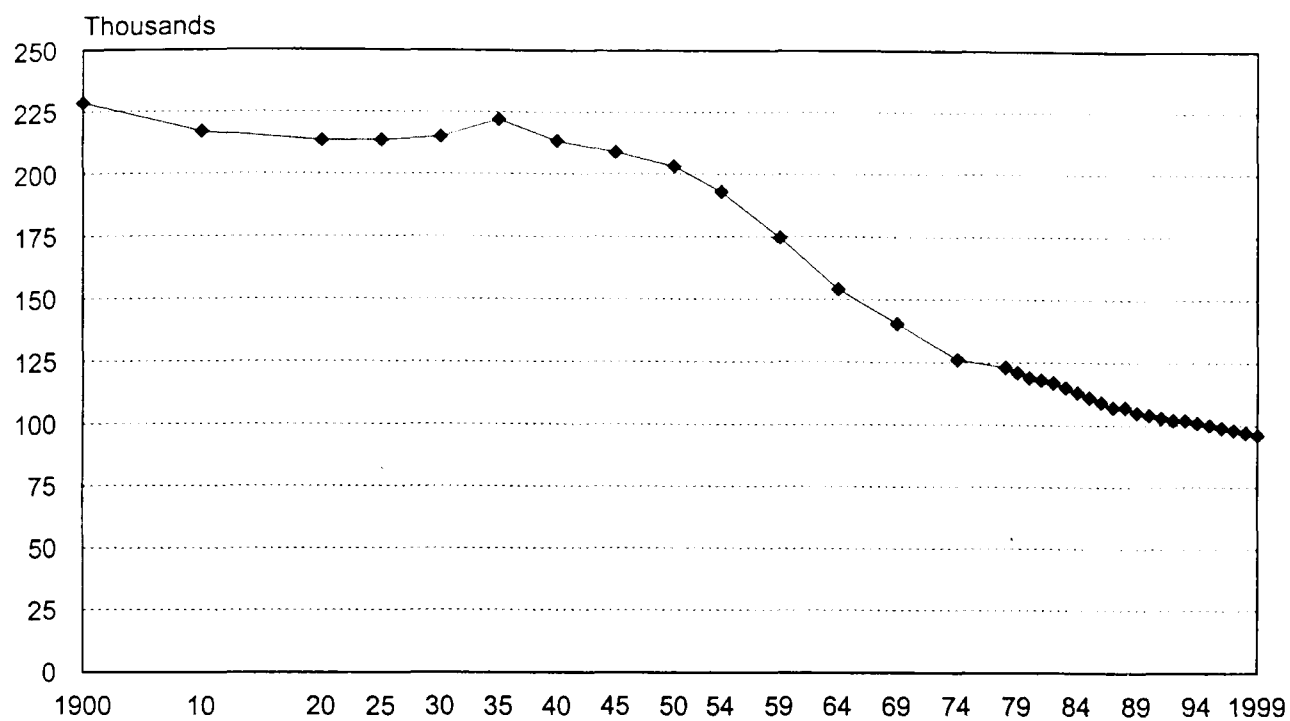
Nor were declines even across the state. Nineteen counties—most in or near urban areas— noted decreases of at least 10,000 acres between 1979 and 1999. Johnson (-20,700) and Polk (-23,900) dropped considerably more than others. Johnson was estimated to have lost 6.1 percent of its acres and Polk 9.1 percent across the 21 years. In 31 counties, less than 2.0 percent fewer acres were reported in 1999 than in 1979. Caution is urged in comparing data for one year with that for another, however; these estimates are not revised annually, as is evident when Table 2 is reviewed.

### **Change in Size of Farms**

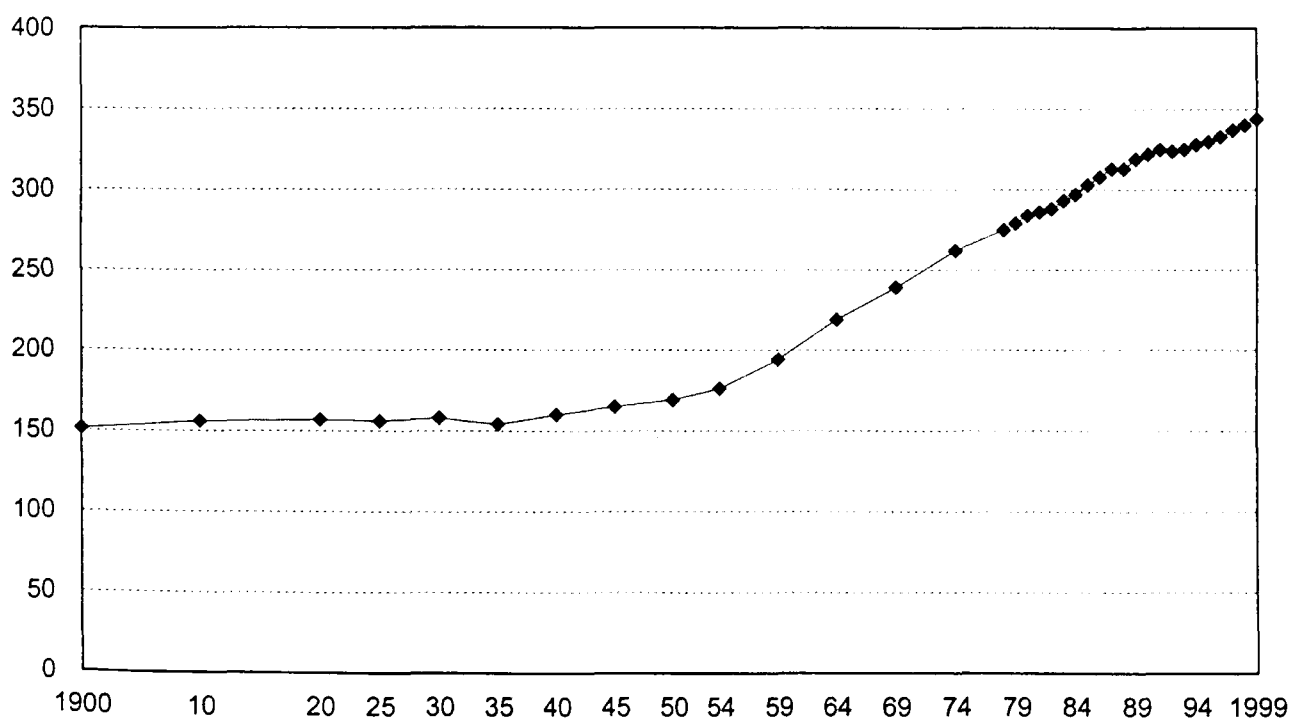
As the number of farms has declined, the average size has increased (Table 3). This occurred in all counties from 1979 to 1999. Only 13 counties gained fewer than 40 acres, while seven others added at least 120 acres to the average size between 1979 and 1999. On a short-term basis, of course, changes tend to be small. From 1994 to 1999, for example, only two counties changed by 40 or more acres in average size.

Average farm size increased by 23.3 percent from 1979 to 1999 (Table 4). In Clay, Grundy, and Hamilton, increases were greater than 40 percent, while they were less than 10 percent in Clayton, Decatur, Delaware, Dubuque, Jackson, and Johnson. In contrast to those extremes, 46 counties had gains in average farm size within five points of the figure for the state during the 1979-1999 period. Percentage gains in average farm size were highest in the 1984-1989 period in 51 counties, although increases from 1979 to 1984 were greater in 36 others.

**Figure 1. Number of farms in Iowa, 1900–1999.**



**Figure 2. Average size (in acres) of farms in Iowa, 1900–1999.**







## Value of Farm Land in Iowa's Counties: 1950, 1960, 1970, and 1980-1999

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A survey of the value of farm land is conducted annually under the auspices of the Iowa Agriculture and Home Economics Experiment Station at Iowa State University. Data are obtained from licensed real estate brokers, farm managers, rural appraisers, and selected others considered to be knowledgeable of land market conditions. Approximately 1,100 surveys are mailed each year; normally, 500-600 are completed. These data are used to estimate a state average and figures for regions in the state. County estimates are derived from these figures through a procedure that combines survey data with information obtained from the U.S. Census of Agriculture. The target date for which information is requested is November 1st each year. Caution is urged in examining the farm land value figures. These numbers are not exact; rather, they provide information on trends that are occurring in the land market.

Average farm land values increased from \$218 in 1950 to \$261 in 1960 and \$419 in 1970 (Table 1). Rapid gains occurred in the 1970s; the average was \$2,066 per acre in Iowa in 1980. After a slight increase from 1980 to 1981, the value fell to \$787 in 1986. Since that point, an acre of farm land in Iowa increased steadily again to an average value of \$1,837 in 1997, although it dropped slightly to \$1,801 in 1998 and \$1,781 in 1999 (Figure 1).

The value of an acre of farm land varies considerably across Iowa. In 1999, for example, the value was less than \$1,500 in 21 counties, most of which were clustered in southern Iowa. In contrast, 33 counties averaged \$2,000 or more, although only Scott exceeded \$2,500. In 1950, when the average statewide was \$218 per acre, 14 counties were below \$150 while five were above \$300.

In percentage terms, the value of farm land in Iowa increased at a moderate rate in the 1950s (+19.7%), escalated in the 1960s (+60.5%), and rocketed upward in the 1970s (+393.1%), only to fall between 1980 and 1990 (-41.2%) (Table 2). That pattern was repeated in the counties, although the gains and declines were sharper in some than in others. In the 1950s, for example, the value of an average acre of farm land increased by less than 10 percent in 16 counties, while gains of at least 30 percent occurred in 15 others.

In the decade of great gain (the 1970s), farm land jumped in value by at least 450 percent in seven counties (Chickasaw, Floyd, Franklin, Hancock, Kossuth, Winnebago, Worth), most of which are in north-central Iowa. Although all counties gained by at least 300 percent, 20 increased by less than 350 percent. In contrast, all counties had lower farm land values in 1990 than in 1980. Nine (Cerro Gordo, Floyd, Fremont, Lee, Mills, Mitchell, Montgomery, Page, Worth) had percentage declines at least five points greater than that for the state (-41.2%). Five (Dickinson, Jefferson, Keokuk, Monona, Washington) had percentage declines in the 1980s that were five or more points less than that for Iowa.

Farm land values decreased in 60 counties from 1998 to 1999. These declines ranged from less than 1 percent in 9 counties to 4 percent or more in 14 others. In dollars, the change ranged from gains exceeding \$50 per acre in 12 counties to declines of at least \$50 per acre in 29 others.

Inflation affects the changes reported in Tables 1 and 2. When farm land values were adjusted for inflation, the relatively small difference between the 1950 (\$1,470) and 1999 (\$1,781) figures was striking (Table 3, Figure 2). In 42 counties, the value of farm land was lower in 1990 than it was in 1950 after inflation was taken into account. When data for the most recent year were compared with 1950,

Table 1. Per Acre Value (in \$s) of Farm Land in Iowa's Counties, 1950, 1960, 1970, 1980-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Adair	1137	1166	1179	1046	937	850	807	775	753	734	674	619	557	507	606	833	1035	1176	1367	1335	308	168	152
Adams	1141	1171	1190	1070	957	884	832	800	781	769	715	667	578	519	612	835	1047	1156	1372	1312	291	170	159
Allamakee	1181	1121	1096	968	854	813	732	749	735	770	697	611	532	483	592	856	1062	1143	1300	1227	233	145	115
Appanoose	803	798	799	714	615	568	560	556	526	502	455	423	373	351	421	581	747	891	1007	906	206	108	97
Audubon	1730	1737	1784	1647	1441	1378	1275	1255	1222	1217	1149	1072	850	751	851	1164	1525	1608	1965	1937	394	249	227
Benton	2094	2116	2188	2023	1693	1566	1464	1450	1416	1415	1316	1199	1004	915	1121	1649	1988	2101	2479	2404	506	323	268
Black Hawk	2298	2296	2314	2128	1792	1654	1586	1532	1501	1515	1420	1330	1095	1010	1258	1867	2280	2432	2918	2812	553	347	257
Boone	2277	2338	2453	2260	1858	1727	1590	1577	1540	1553	1435	1340	1094	987	1174	1762	2159	2272	2685	2592	545	341	283
Bremer	2078	2029	1997	1814	1562	1451	1358	1322	1298	1324	1235	1108	931	861	1082	1588	1934	2078	2463	2259	420	267	193
Buchanan	2052	2034	2015	1840	1576	1460	1382	1342	1317	1336	1248	1132	953	883	1112	1629	1949	2091	2479	2269	419	255	190
Buena Vista	2203	2275	2380	2171	1861	1760	1695	1675	1648	1649	1576	1470	1129	974	1099	1590	2202	2257	2773	2738	522	355	311
Butler	2023	2095	2117	1943	1646	1524	1447	1393	1371	1385	1309	1239	1013	921	1143	1696	2083	2217	2680	2566	478	304	231
Calhoun	2284	2345	2458	2258	1881	1758	1724	1707	1672	1682	1572	1414	1132	1006	1179	1752	2266	2366	2833	2805	568	365	309
Carroll	1952	2036	2125	1950	1665	1579	1571	1567	1529	1523	1439	1320	1014	891	994	1415	1962	2014	2450	2425	473	314	288
Cass	1528	1530	1558	1406	1260	1169	1081	1040	1017	1006	939	873	748	668	782	1066	1341	1463	1751	1731	379	221	206
Cedar	2308	2312	2340	2196	1906	1738	1645	1595	1560	1504	1418	1289	1184	1105	1443	2010	2273	2425	2792	2612	565	365	281
Cerro Gordo	2099	2169	2185	2001	1709	1587	1503	1438	1421	1437	1372	1307	1063	957	1192	1764	2203	2342	2857	2735	503	312	230
Cherokee	1918	1948	2026	1863	1606	1532	1451	1445	1409	1402	1329	1243	950	832	922	1290	1813	1862	2280	2309	452	295	260
Chickasaw	1666	1653	1627	1476	1272	1183	1106	1079	1060	1082	1008	920	774	715	898	1317	1605	1725	2042	1876	341	207	159
Clarke	932	927	930	830	723	664	656	644	614	591	538	482	429	399	478	659	831	977	1114	1059	257	143	123
Clay	2033	2117	2215	2020	1732	1638	1564	1546	1521	1521	1454	1348	1035	893	1007	1456	2002	2051	2519	2478	464	307	260
Clayton	1622	1485	1452	1282	1131	1077	928	949	932	976	884	765	666	604	741	1072	1355	1458	1659	1583	328	216	169
Clinton	1897	1864	1880	1739	1495	1374	1315	1292	1270	1246	1162	1073	985	918	1193	1673	1909	2050	2331	2163	428	265	204
Crawford	1718	1731	1789	1656	1435	1378	1309	1299	1265	1260	1194	1124	868	763	852	1176	1601	1663	2041	2027	396	259	242
Dallas	1911	1897	1977	1816	1523	1419	1296	1278	1248	1253	1161	1041	854	768	909	1332	1658	1757	2087	2061	429	266	236
Davis	1027	1006	1001	915	814	751	694	680	648	627	579	544	475	440	536	746	917	1035	1202	1100	242	138	121
Decatur	752	757	757	677	583	538	540	536	507	485	439	392	347	326	391	540	684	817	922	837	197	113	99
Delaware	2181	2110	2081	1869	1630	1531	1417	1421	1395	1432	1314	1194	1043	957	1195	1722	2077	2234	2565	2347	445	265	195
Des Moines	1695	1747	1732	1605	1458	1345	1252	1219	1167	1137	1064	985	854	781	964	1349	1634	1763	2095	2007	445	257	197
Dickinson	1855	1921	2011	1836	1573	1489	1434	1434	1400	1392	1319	1202	908	793	869	1236	1795	1823	2225	2139	396	256	230
Dubuque	1960	1863	1829	1624	1428	1354	1251	1272	1250	1298	1180	1054	924	841	1040	1498	1867	2008	2285	2175	406	245	181
Emmet	2095	2223	2327	2122	1819	1720	1612	1593	1567	1568	1499	1387	1065	919	1037	1500	2026	2076	2551	2486	454	294	246
Fayette	1884	1847	1812	1623	1414	1330	1235	1232	1209	1250	1149	1046	895	820	1018	1483	1845	1984	2304	2133	391	231	168

Table 1. Per Acre Value (in \$s) of Farm Land in Iowa's Counties, 1950, 1960, 1970, 1980-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Floyd	1932	1950	1924	1769	1507	1387	1311	1250	1227	1238	1169	1119	924	862	1096	1618	1949	2093	2527	2387	351	278	202
Franklin	2094	2216	2291	2092	1784	1672	1583	1522	1512	1532	1473	1389	1113	965	1167	1736	2198	2308	2837	2788	502	318	251
Fremont	1469	1517	1539	1361	1239	1117	1076	1019	1000	983	909	839	760	683	816	1118	1370	1522	1793	1835	407	233	216
Greene	1966	2039	2133	1964	1639	1536	1502	1492	1456	1462	1362	1244	995	890	1037	1526	1987	2077	2479	2444	514	324	279
Grundy	2324	2416	2491	2294	1905	1766	1660	1628	1592	1606	1493	1403	1149	1047	1272	1899	2339	2477	2947	2833	562	346	270
Guthrie	1585	1589	1638	1516	1306	1244	1130	1112	1084	1084	1017	939	754	671	775	1084	1373	1455	1763	1738	354	217	197
Hamilton	2409	2526	2647	2429	2026	1892	1758	1727	1699	1717	1614	1498	1211	1068	1272	1904	2388	2505	3013	2900	566	351	295
Hancock	2139	2226	2286	2086	1787	1673	1571	1508	1499	1519	1464	1375	1105	962	1173	1740	2209	2326	2865	2778	504	315	242
Hardin	2156	2291	2401	2203	1838	1716	1616	1587	1562	1578	1484	1395	1127	994	1184	1772	2199	2306	2775	2688	512	320	265
Harrison	1601	1527	1558	1427	1265	1196	1090	1060	1033	1026	964	882	728	647	748	1016	1298	1399	1694	1657	350	212	202
Henry	1640	1681	1666	1545	1404	1295	1208	1176	1126	1098	1027	932	808	738	911	1276	1518	1638	1947	1830	410	254	205
Howard	1500	1474	1451	1316	1134	1055	976	952	935	955	889	803	676	625	784	1150	1412	1517	1796	1645	305	191	149
Humboldt	2303	2398	2510	2294	1940	1820	1709	1662	1648	1669	1595	1510	1208	1042	1243	1855	2399	2509	3069	3048	582	364	297
Ida	1932	1940	2002	1855	1609	1547	1456	1443	1405	1401	1327	1247	965	848	949	1307	1770	1842	2262	2278	462	294	260
Iowa	1743	1775	1798	1674	1475	1365	1258	1230	1189	1179	1103	1013	855	773	947	1364	1609	1684	2018	1953	430	283	242
Jackson	1663	1607	1599	1449	1260	1176	1107	1107	1088	1099	1012	940	843	776	983	1398	1670	1795	2041	1912	369	222	168
Jasper	1813	1845	1856	1726	1536	1420	1319	1288	1242	1225	1146	1078	916	831	1021	1458	1720	1816	2171	2060	447	285	242
Jefferson	1268	1293	1282	1189	1080	997	927	903	864	842	789	700	606	554	684	958	1107	1195	1420	1303	288	177	154
Johnson	2175	2197	2195	2059	1849	1697	1544	1496	1449	1409	1329	1228	1089	1000	1275	1783	2039	2148	2539	2365	510	324	260
Jones	1811	1773	1784	1644	1416	1305	1224	1206	1185	1170	1088	980	895	832	1076	1513	1732	1860	2116	1985	395	253	200
Keokuk	1534	1553	1536	1439	1329	1226	1168	1131	1087	1065	1005	885	763	691	861	1210	1380	1438	1740	1611	360	241	211
Kossuth	2214	2325	2431	2213	1899	1792	1650	1594	1590	1612	1563	1447	1143	966	1146	1700	2206	2296	2852	2804	499	322	262
Lee	1516	1515	1508	1376	1222	1128	1036	1016	968	936	865	814	711	657	802	1116	1396	1577	1831	1740	391	223	177
Linn	2303	2252	2288	2136	1834	1678	1579	1537	1506	1465	1375	1254	1135	1056	1367	1923	2203	2351	2710	2492	510	323	261
Louisa	1901	1953	1952	1831	1642	1506	1447	1402	1358	1320	1246	1108	984	904	1153	1612	1842	1942	2293	2108	445	270	218
Lucas	858	854	855	764	658	608	612	607	574	549	497	459	406	382	457	632	787	939	1061	980	229	126	110
Lyon	1878	1911	2000	1827	1565	1482	1437	1437	1403	1395	1322	1235	933	814	892	1270	1869	1897	2316	2325	447	296	265
Madison	1394	1384	1409	1257	1113	1013	983	946	921	905	834	718	637	577	689	960	1193	1333	1559	1482	327	181	167
Mahaska	1581	1585	1572	1457	1324	1222	1153	1122	1075	1047	979	859	745	681	841	1177	1401	1512	1797	1689	386	240	205
Marion	1532	1491	1485	1354	1200	1108	1058	1039	989	955	881	808	706	654	797	1108	1363	1545	1790	1695	390	224	186
Marshall	1952	1996	2058	1906	1623	1505	1410	1388	1349	1349	1254	1170	971	877	1059	1557	1865	1957	2329	2232	473	303	260
Mills	1605	1595	1618	1431	1302	1174	1091	1033	1014	997	922	862	781	702	838	1148	1438	1598	1881	1884	418	234	220
Mitchell	1892	1855	1831	1683	1434	1319	1250	1191	1169	1180	1114	1057	888	829	1054	1555	1889	2028	2449	2319	426	265	191

Table 1. Per Acre Value (in \$s) of Farm Land in Iowa's Counties, 1950, 1960, 1970, 1980-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Monona	1468	1433	1468	1371	1198	1162	1065	1050	1020	1019	965	912	715	632	715	966	1233	1302	1605	1560	320	198	186
Monroe	1043	1010	1004	920	821	758	715	701	668	647	599	530	462	427	522	727	879	982	1146	1062	240	146	130
Montgomery	1364	1404	1425	1259	1146	1034	993	940	922	907	838	789	716	643	768	1052	1318	1464	1724	1751	411	232	221
Muscatine	2082	2119	2139	2007	1755	1603	1498	1452	1417	1369	1290	1169	1065	990	1287	1793	2052	2183	2528	2311	493	307	244
O'Brien	2318	2409	2522	2303	1973	1868	1807	1808	1766	1755	1663	1555	1175	1026	1124	1599	2310	2345	2863	2810	523	346	302
Osceola	1983	2097	2196	2005	1717	1627	1578	1579	1542	1532	1452	1357	1025	895	981	1396	2011	2042	2493	2475	464	302	263
Page	1231	1249	1267	1120	1020	919	887	840	824	811	749	706	640	575	687	941	1220	1355	1595	1626	392	226	216
Palo Alto	2051	2144	2242	2042	1752	1655	1540	1503	1490	1501	1446	1333	1040	887	1029	1510	1968	2033	2514	2511	465	303	249
Plymouth	2017	1975	2038	1888	1638	1576	1415	1404	1367	1362	1290	1224	947	833	932	1283	1736	1806	2218	2254	459	288	253
Pocahontas	2257	2329	2437	2224	1893	1781	1684	1641	1627	1644	1577	1464	1159	995	1173	1738	2272	2364	2905	2891	560	373	311
Polk	1973	2012	2081	1916	1612	1495	1427	1410	1369	1367	1265	1177	977	886	1063	1565	1967	2097	2473	2400	513	312	270
Pottawattamie	1707	1628	1656	1490	1339	1236	1138	1093	1069	1057	984	909	786	702	825	1126	1433	1568	1872	1848	410	238	224
Poweshiek	1735	1779	1798	1674	1483	1371	1258	1228	1187	1175	1101	1027	868	785	963	1385	1620	1695	2033	1959	425	268	240
Ringgold	889	878	883	786	692	633	626	610	586	566	517	471	420	388	465	640	806	937	1075	1001	240	137	127
Sac	2084	2125	2217	2035	1738	1648	1639	1635	1595	1589	1501	1377	1058	930	1037	1476	2052	2107	2564	2543	496	327	294
Scott	2970	2859	2913	2735	2332	2119	2017	1956	1923	1845	1739	1566	1463	1376	1820	2528	2856	3064	3484	3207	664	423	330
Shelby	1702	1650	1685	1546	1369	1298	1186	1156	1126	1120	1052	996	816	725	835	1133	1486	1595	1937	1980	430	261	236
Sioux	2178	2144	2230	2050	1766	1685	1562	1556	1517	1510	1431	1346	1028	900	996	1396	1966	2018	2470	2506	503	324	287
Story	2327	2415	2525	2328	1928	1792	1654	1638	1598	1608	1488	1379	1129	1019	1216	1818	2239	2355	2788	2691	552	339	282
Tama	1903	1927	1983	1833	1549	1436	1330	1306	1272	1275	1186	1105	913	828	1004	1483	1806	1903	2266	2192	456	290	245
Taylor	1007	1006	1016	901	806	732	712	685	664	647	594	544	489	446	533	732	910	1037	1203	1161	279	159	147
Union	1074	1066	1072	955	840	768	751	732	702	678	619	566	505	466	558	769	978	1138	1304	1255	309	172	149
Van Buren	1134	1130	1124	1027	915	844	773	758	723	699	647	598	522	483	589	821	993	1117	1300	1202	274	156	135
Wapello	1195	1175	1165	1080	983	907	833	811	777	757	708	632	548	500	618	865	1021	1101	1309	1218	268	167	147
Warren	1551	1500	1522	1370	1175	1083	1050	1035	992	966	882	793	688	636	761	1072	1384	1584	1820	1667	384	213	181
Washington	1960	2031	2008	1882	1737	1603	1501	1454	1397	1368	1291	1151	992	899	1120	1574	1785	1860	2251	2079	466	314	261
Wayne	819	839	840	751	646	597	607	602	570	544	493	454	401	377	452	624	800	955	1079	976	225	124	110
Webster	2375	2473	2592	2379	1983	1852	1721	1691	1664	1681	1580	1460	1180	1041	1240	1856	2354	2470	2969	2878	571	357	294
Winnebago	1927	2033	2087	1905	1632	1527	1446	1389	1380	1399	1347	1246	1001	872	1063	1578	2020	2126	2619	2574	454	282	221
Winneshiak	1534	1477	1449	1298	1131	1064	976	974	956	989	908	820	701	642	797	1161	1444	1553	1803	1670	318	199	156
Woodbury	1565	1587	1628	1517	1324	1282	1168	1153	1121	1119	1060	1002	783	691	781	1059	1390	1463	1802	1759	350	224	209
Worth	1923	2011	2025	1854	1584	1471	1402	1341	1325	1340	1279	1187	966	871	1084	1604	1998	2124	2590	2503	444	275	207
Wright	2372	2489	2604	2380	2014	1890	1763	1714	1700	1722	1646	1529	1224	1055	1259	1878	2401	2511	3072	2921	554	348	292
State of Iowa	1781	1801	1837	1682	1455	1356	1295	1249	1219	1214	1139	1054	875	787	948	1357	1691	1801	2147	2066	419	261	218

Table 2. Percentage Change in Per Acre Value of Farm Land by Selected Periods in Iowa's Counties, 1950-1999.

County	1990- 1999	1980- 1990	1970- 1980	1960- 1970	1950- 1960	County	1990- 1999	1980- 1990	1970- 1980	1960- 1970	1950- 1960
Adair	54.9	-45.0	333.4	83.3	10.5	Jefferson	50.6	-35.4	352.4	62.7	14.9
Adams	48.4	-41.4	350.9	71.2	6.9	Johnson	54.4	-40.4	363.7	57.4	24.6
Allamakee	53.4	-37.5	426.6	60.7	26.1	Jones	54.8	-41.1	402.5	56.1	26.5
Appanoose	60.0	-44.6	339.8	90.7	11.3	Keokuk	44.0	-33.9	347.5	49.4	14.2
Audubon	42.2	-37.2	391.6	58.2	9.7	Kossuth	37.3	-42.5	461.9	55.0	22.9
Benton	48.0	-41.1	375.1	56.7	20.5	Lee	62.0	-46.2	345.0	75.3	26.0
Black Hawk	51.7	-46.1	408.5	59.4	35.0	Linn	57.2	-41.2	388.6	57.9	23.8
Boone	46.6	-40.1	375.6	59.8	20.5	Louisa	44.0	-37.4	373.7	64.8	23.8
Bremer	56.9	-41.4	437.9	57.3	38.3	Lucas	56.3	-44.0	328.0	81.8	14.6
Buchanan	53.6	-41.1	441.5	64.3	34.2	Lyon	34.6	-40.0	420.1	51.0	11.7
Buena Vista	33.6	-39.7	424.5	47.0	14.2	Madison	54.0	-38.9	353.2	80.7	8.4
Butler	46.1	-46.0	436.8	57.2	31.6	Mahaska	51.0	-38.0	337.6	60.8	17.1
Calhoun	35.8	-40.0	393.8	55.6	18.1	Marion	60.4	-43.7	334.6	74.1	20.4
Carroll	28.2	-37.2	412.7	50.6	9.0	Marshall	44.7	-39.6	371.9	56.1	16.5
Cass	51.9	-41.9	356.7	71.5	7.3	Mills	61.0	-47.1	350.7	78.6	6.4
Cedar	53.5	-42.4	362.3	54.8	29.9	Mitchell	60.3	-49.1	444.4	60.8	38.7
Cerro Gordo	46.1	-47.5	443.7	61.2	35.6	Monona	44.1	-34.7	387.5	61.6	6.4
Cherokee	36.8	-39.3	410.8	53.2	13.5	Monroe	61.2	-39.1	342.5	64.4	12.3
Chickasaw	54.0	-42.3	450.2	64.7	30.2	Montgomery	50.4	-48.2	326.0	77.2	5.0
Clarke	57.7	-44.2	312.1	79.7	16.3	Muscatine	52.1	-40.8	368.8	60.6	25.8
Clay	33.7	-38.6	434.0	51.1	18.1	O'Brien	32.1	-37.5	437.3	51.2	14.6
Clayton	66.2	-38.3	382.6	51.8	27.8	Osceola	29.4	-38.1	433.4	53.6	14.8
Clinton	52.2	-42.4	405.4	61.5	29.9	Page	51.8	-50.1	314.8	73.4	4.6
Crawford	36.3	-37.8	411.9	52.9	7.0	Palo Alto	36.6	-40.2	440.0	53.5	21.7
Dallas	52.5	-39.2	380.4	61.3	12.7	Plymouth	48.1	-39.6	391.1	59.4	13.8
Davis	63.8	-43.0	354.6	75.4	14.0	Pocahontas	37.3	-43.1	416.2	50.1	19.9
Decatur	55.1	-42.0	324.9	74.3	14.1	Polk	44.3	-43.0	367.8	64.4	15.6
Delaware	52.3	-39.0	427.4	67.9	35.9	Pottawattamie	61.5	-42.8	350.7	72.3	6.2
Des Moines	49.1	-43.4	351.0	73.2	30.5	Poweshiek	47.7	-40.0	360.9	58.6	11.7
Dickinson	33.3	-34.9	440.2	54.7	11.3	Ringgold	57.1	-43.5	317.1	75.2	7.9
Dubuque	51.0	-40.3	435.7	65.7	35.4	Sac	31.2	-37.5	412.7	51.7	11.2
Emmet	33.6	-36.9	447.6	54.4	19.5	Scott	61.0	-42.5	383.0	57.0	28.2
Fayette	50.7	-41.4	445.5	69.3	37.5	Shelby	52.0	-43.4	360.5	64.8	10.6
Floyd	56.1	-48.1	580.1	26.3	37.6	Sioux	44.2	-39.7	398.2	55.2	12.9
Franklin	36.7	-45.0	455.4	57.9	26.7	Story	44.7	-40.2	387.5	62.8	20.2
Fremont	49.4	-46.4	350.9	74.7	7.9	Tama	49.3	-41.8	380.7	57.2	18.4
Greene	34.5	-40.2	375.5	58.6	16.1	Taylor	55.6	-44.3	316.1	75.5	8.2
Grundy	44.7	-43.3	404.1	62.4	28.2	Union	58.4	-46.0	306.2	79.6	15.4
Guthrie	46.2	-37.6	391.0	63.1	10.2	Van Buren	62.2	-41.8	338.7	75.6	15.6
Hamilton	40.3	-40.8	412.4	61.2	19.0	Wapello	57.9	-37.8	354.5	60.5	13.6
Hancock	40.8	-45.3	451.2	60.0	30.2	Warren	60.6	-42.0	334.1	80.3	17.7
Hardin	36.6	-41.3	425.0	60.0	20.8	Washington	43.3	-34.2	346.1	48.4	20.3
Harrison	56.0	-38.1	373.4	65.1	5.0	Wayne	50.6	-44.3	333.8	81.4	12.7
Henry	49.4	-40.0	346.3	61.4	23.9	Webster	41.3	-41.6	404.0	59.9	21.4
Howard	57.1	-42.0	439.3	59.7	28.2	Winnebago	37.7	-45.6	467.0	61.0	27.6
Humboldt	38.0	-45.2	423.7	59.9	22.6	Winneshiek	55.1	-40.8	425.2	59.8	27.6
Ida	37.9	-38.5	393.1	57.1	13.1	Woodbury	39.9	-36.4	402.6	56.2	7.2
Iowa	47.8	-39.6	354.2	51.9	16.9	Worth	43.5	-46.5	463.7	61.4	32.8
Jackson	51.3	-42.5	418.2	66.2	32.1	Wright	37.7	-41.0	427.3	59.2	19.2
Jasper	48.0	-40.5	360.8	56.8	17.8						
						State of Iowa	46.7	-41.2	393.1	60.5	19.7

Table 3. Adjusted Per Acre Value (in 1999 \$s) of Farm Land in Iowa's Counties, 1950, 1960, 1970, 1980-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Adair	1137	1192	1221	1108	1021	953	927	916	916	928	897	864	808	762	925	1317	1692	1981	2441	2628	1288	922	1025
Adams	1141	1197	1233	1133	1043	991	956	945	950	973	952	931	839	780	934	1320	1712	1947	2450	2583	1217	933	1072
Allamakee	1181	1146	1135	1025	931	911	841	885	894	974	928	853	772	726	904	1353	1736	1926	2321	2415	974	796	775
Appanoose	803	816	828	756	670	637	644	657	640	635	606	590	541	528	643	918	1221	1501	1798	1783	861	593	654
Audubon	1730	1776	1848	1744	1571	1544	1465	1483	1486	1539	1530	1496	1234	1129	1299	1840	2493	2709	3509	3813	1647	1366	1531
Benton	2094	2163	2267	2142	1845	1755	1682	1713	1722	1790	1752	1673	1457	1376	1711	2606	3250	3540	4426	4732	2115	1772	1807
Black Hawk	2298	2347	2397	2254	1953	1854	1823	1810	1825	1916	1890	1856	1589	1518	1920	2951	3727	4097	5210	5535	2312	1904	1733
Boone	2277	2390	2541	2393	2025	1936	1827	1863	1872	1964	1910	1870	1588	1484	1792	2785	3530	3828	4794	5102	2278	1871	1908
Bremer	2078	2074	2069	1921	1702	1626	1561	1562	1578	1675	1644	1546	1351	1294	1652	2510	3162	3501	4398	4447	1756	1465	1301
Buchanan	2052	2079	2088	1949	1718	1636	1588	1586	1601	1690	1661	1580	1383	1328	1698	2575	3186	3523	4426	4466	1752	1399	1281
Buena Vista	2203	2326	2466	2299	2028	1973	1948	1979	2004	2086	2098	2051	1639	1464	1678	2513	3600	3802	4951	5390	2182	1948	2097
Butler	2023	2142	2193	2058	1794	1708	1663	1646	1667	1752	1743	1729	1470	1385	1745	2681	3405	3735	4785	5051	1998	1668	1558
Calhoun	2284	2397	2547	2391	2050	1970	1981	2017	2033	2127	2093	1973	1643	1512	1800	2769	3705	3986	5058	5521	2375	2003	2084
Carroll	1952	2081	2202	2065	1815	1770	1805	1851	1859	1926	1916	1842	1472	1340	1517	2237	3208	3393	4375	4773	1977	1723	1942
Cass	1528	1564	1614	1489	1373	1310	1242	1229	1236	1272	1250	1218	1086	1004	1194	1685	2192	2465	3126	3407	1584	1213	1389
Cedar	2308	2364	2424	2326	2077	1948	1890	1885	1897	1902	1888	1799	1718	1661	2203	3177	3716	4085	4985	5142	2362	2003	1895
Cerro Gordo	2099	2217	2264	2119	1863	1779	1727	1699	1728	1818	1827	1824	1543	1439	1820	2788	3602	3946	5101	5384	2103	1712	1551
Cherokee	1918	1991	2099	1973	1750	1717	1667	1707	1713	1773	1769	1735	1379	1251	1407	2039	2964	3137	4071	4545	1890	1619	1753
Chickasaw	1666	1690	1686	1563	1386	1326	1271	1275	1289	1369	1342	1284	1123	1075	1371	2082	2624	2906	3646	3693	1426	1136	1072
Clarke	932	948	963	879	788	744	754	761	747	748	716	673	623	600	730	1042	1359	1646	1989	2085	1074	785	829
Clay	2033	2164	2295	2139	1888	1836	1797	1827	1849	1924	1936	1881	1502	1343	1537	2301	3273	3455	4498	4878	1940	1685	1753
Clayton	1622	1518	1504	1358	1233	1207	1066	1121	1133	1234	1177	1068	967	908	1131	1694	2215	2456	2962	3116	1371	1185	1140
Clinton	1897	1906	1948	1842	1629	1540	1511	1527	1544	1576	1547	1497	1430	1380	1821	2644	3121	3454	4162	4258	1789	1454	1376
Crawford	1718	1770	1853	1754	1564	1544	1504	1535	1538	1594	1590	1569	1260	1147	1301	1859	2617	2802	3644	3990	1656	1421	1632
Dallas	1911	1939	2048	1923	1660	1590	1489	1510	1517	1585	1546	1453	1239	1155	1388	2105	2711	2960	3726	4057	1793	1460	1591
Davis	1027	1028	1037	969	887	842	798	803	788	793	771	759	689	661	818	1179	1499	1744	2146	2165	1012	757	816
Decatur	752	774	784	717	635	603	621	633	616	613	584	547	504	490	597	854	1118	1376	1646	1648	824	620	668
Delaware	2181	2157	2156	1979	1777	1716	1628	1679	1696	1811	1749	1666	1514	1439	1824	2722	3396	3764	4580	4620	1860	1454	1315
Des Moines	1695	1786	1794	1700	1589	1507	1439	1440	1419	1438	1417	1375	1239	1174	1472	2132	2671	2970	3741	3951	1860	1410	1328
Dickinson	1855	1964	2083	1944	1714	1669	1648	1694	1702	1761	1756	1677	1318	1192	1327	1954	2935	3071	3973	4210	1656	1405	1551
Dubuque	1960	1905	1895	1720	1556	1518	1438	1503	1520	1642	1571	1471	1341	1264	1588	2368	3052	3383	4080	4281	1697	1344	1221
Emmet	2095	2273	2411	2247	1983	1928	1852	1882	1905	1983	1996	1936	1546	1382	1583	2371	3312	3497	4555	4893	1898	1613	1659
Fayette	1884	1888	1877	1719	1541	1491	1419	1456	1470	1581	1530	1460	1299	1233	1554	2344	3016	3342	4114	4199	1635	1268	1133

Table 3. Adjusted Per Acre Value (in 1999 \$s) of Farm Land in Iowa's Counties, 1950, 1960, 1970, 1980-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Floyd	1932	1993	1993	1873	1642	1555	1507	1477	1492	1566	1556	1562	1341	1296	1673	2557	3186	3526	4512	4699	1467	1526	1362
Franklin	2094	2265	2374	2215	1944	1874	1819	1798	1838	1938	1961	1938	1615	1451	1781	2744	3593	3888	5066	5488	2099	1745	1693
Fremont	1469	1551	1594	1441	1350	1252	1236	1204	1216	1243	1210	1171	1103	1027	1246	1767	2240	2564	3201	3612	1701	1279	1457
Greene	1966	2084	2210	2080	1786	1722	1726	1763	1770	1849	1813	1736	1444	1338	1583	2412	3248	3499	4426	4811	2149	1778	1881
Grundy	2324	2470	2581	2429	2076	1979	1908	1924	1936	2031	1988	1958	1668	1574	1942	3002	3824	4173	5262	5577	2349	1899	1821
Guthrie	1585	1624	1697	1605	1423	1394	1299	1314	1318	1371	1354	1310	1094	1009	1183	1713	2245	2451	3148	3421	1480	1191	1328
Hamilton	2409	2582	2742	2572	2208	2121	2020	2041	2066	2172	2149	2090	1758	1606	1942	3010	3904	4220	5380	5708	2366	1926	1989
Hancock	2139	2276	2368	2209	1948	1875	1805	1782	1822	1921	1949	1919	1604	1446	1791	2750	3611	3919	5116	5468	2107	1729	1632
Hardin	2156	2342	2487	2333	2003	1923	1857	1875	1899	1996	1976	1947	1636	1494	1807	2801	3595	3885	4955	5291	2140	1756	1787
Harrison	1601	1561	1614	1511	1379	1340	1253	1252	1256	1298	1283	1231	1057	973	1142	1606	2122	2357	3025	3262	1463	1163	1362
Henry	1640	1718	1726	1636	1530	1451	1388	1389	1369	1389	1367	1301	1173	1110	1391	2017	2482	2760	3476	3602	1714	1394	1382
Howard	1500	1507	1503	1394	1236	1182	1122	1125	1137	1208	1184	1121	981	940	1197	1818	2308	2556	3207	3238	1275	1048	1005
Humboldt	2303	2451	2600	2429	2114	2040	1964	1964	2004	2111	2123	2107	1753	1567	1897	2932	3922	4227	5480	6000	2433	1997	2003
Ida	1932	1983	2074	1964	1754	1734	1673	1705	1708	1772	1767	1740	1401	1275	1449	2066	2894	3103	4039	4484	1931	1613	1753
Iowa	1743	1815	1863	1773	1608	1530	1446	1453	1446	1491	1468	1414	1241	1162	1446	2156	2630	2837	3603	3844	1798	1553	1632
Jackson	1663	1643	1657	1535	1373	1318	1272	1308	1323	1390	1347	1312	1223	1167	1501	2210	2730	3024	3644	3764	1543	1218	1133
Jasper	1813	1886	1923	1828	1674	1592	1516	1522	1510	1549	1526	1504	1329	1249	1559	2305	2812	3059	3876	4055	1869	1564	1632
Jefferson	1268	1322	1328	1259	1177	1117	1065	1067	1050	1065	1050	977	880	833	1044	1514	1810	2013	2535	2565	1204	971	1038
Johnson	2175	2246	2274	2181	2015	1902	1774	1768	1762	1782	1769	1714	1581	1503	1946	2818	3333	3619	4533	4655	2132	1778	1753
Jones	1811	1813	1848	1741	1543	1463	1407	1425	1441	1480	1448	1368	1299	1251	1643	2391	2832	3134	3778	3907	1651	1388	1349
Keokuk	1534	1588	1591	1524	1448	1374	1342	1336	1322	1347	1338	1235	1107	1039	1314	1913	2256	2423	3107	3171	1505	1323	1423
Kossuth	2214	2377	2519	2344	2070	2008	1896	1883	1933	2039	2081	2019	1659	1452	1749	2687	3606	3868	5092	5519	2086	1767	1767
Lee	1516	1549	1562	1457	1332	1264	1191	1200	1177	1184	1152	1136	1032	988	1224	1764	2282	2657	3269	3425	1635	1224	1194
Linn	2303	2302	2370	2262	1999	1881	1814	1816	1831	1853	1831	1750	1647	1588	2087	3040	3602	3961	4839	4905	2132	1772	1760
Louisa	1901	1997	2022	1939	1790	1688	1663	1657	1651	1670	1659	1546	1428	1359	1760	2548	3011	3272	4094	4149	1860	1482	1470
Lucas	858	873	886	809	717	681	703	717	698	694	662	641	589	574	698	999	1287	1582	1894	1929	957	691	742
Lyon	1878	1954	2072	1935	1706	1661	1651	1698	1706	1764	1760	1723	1354	1224	1362	2007	3056	3196	4135	4577	1869	1624	1787
Madison	1394	1415	1460	1331	1213	1135	1130	1118	1120	1145	1110	1002	925	867	1052	1517	1950	2246	2784	2917	1367	993	1126
Mahaska	1581	1620	1629	1543	1443	1370	1325	1326	1307	1324	1303	1199	1081	1024	1284	1860	2290	2547	3209	3325	1614	1317	1382
Marion	1532	1524	1538	1434	1308	1242	1216	1228	1202	1208	1173	1128	1025	983	1217	1751	2228	2603	3196	3336	1630	1229	1254
Marshall	1952	2040	2132	2019	1769	1687	1620	1640	1640	1706	1669	1633	1409	1318	1617	2461	3049	3297	4159	4394	1977	1663	1753
Mills	1605	1631	1676	1515	1419	1316	1254	1221	1233	1261	1227	1203	1133	1055	1279	1815	2351	2692	3359	3709	1747	1284	1484
Mitchell	1892	1896	1897	1782	1563	1478	1436	1407	1421	1492	1483	1475	1289	1246	1609	2458	3088	3417	4373	4565	1781	1454	1288

Table 3. Adjusted Per Acre Value (in 1999 \$s) of Farm Land in Iowa's Counties, 1950, 1960, 1970, 1980-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Monona	1468	1465	1521	1452	1306	1302	1224	1241	1240	1289	1285	1273	1038	950	1091	1527	2016	2193	2866	3071	1338	1087	1254
Monroe	1043	1033	1040	974	895	850	822	828	812	818	797	740	671	642	797	1149	1437	1654	2046	2090	1003	801	877
Montgomery	1364	1435	1476	1333	1249	1159	1141	1111	1121	1147	1116	1101	1039	967	1172	1663	2155	2466	3078	3447	1718	1273	1490
Muscatine	2082	2166	2216	2125	1913	1797	1721	1716	1723	1732	1717	1631	1546	1488	1965	2834	3355	3678	4514	4549	2061	1685	1645
O'Brien	2318	2463	2613	2439	2150	2094	2076	2136	2147	2220	2214	2170	1705	1542	1716	2527	3776	3951	5112	5531	2186	1899	2037
Osceola	1983	2144	2275	2123	1871	1824	1813	1866	1875	1938	1933	1894	1488	1346	1498	2207	3288	3440	4451	4872	1940	1657	1774
Page	1231	1277	1313	1186	1112	1030	1019	992	1002	1026	997	985	929	864	1049	1487	1994	2283	2848	3201	1639	1240	1457
Palo Alto	2051	2192	2323	2163	1909	1855	1770	1776	1812	1899	1925	1860	1509	1334	1571	2387	3217	3425	4489	4943	1944	1663	1679
Plymouth	2017	2019	2111	1999	1785	1766	1626	1659	1662	1723	1717	1708	1374	1252	1423	2028	2838	3043	3960	4437	1919	1580	1706
Pocahontas	2257	2381	2525	2355	2063	1996	1935	1939	1978	2079	2100	2043	1682	1496	1791	2747	3714	3983	5187	5691	2341	2047	2097
Polk	1973	2057	2156	2029	1757	1676	1640	1666	1664	1729	1684	1643	1418	1332	1623	2474	3216	3533	4416	4724	2145	1712	1821
Pottawattamie	1707	1664	1716	1578	1459	1385	1308	1291	1300	1337	1310	1269	1141	1055	1259	1780	2343	2642	3343	3638	1714	1306	1511
Poweshiek	1735	1819	1863	1773	1616	1537	1446	1451	1443	1486	1466	1433	1260	1180	1470	2189	2648	2856	3630	3856	1777	1471	1618
Ringgold	889	898	915	832	754	709	719	721	712	716	688	657	610	583	710	1012	1318	1579	1919	1970	1003	752	856
Sac	2084	2172	2297	2155	1894	1847	1883	1932	1939	2010	1998	1922	1536	1398	1583	2333	3355	3550	4578	5006	2074	1794	1983
Scott	2970	2923	3018	2896	2542	2375	2318	2311	2338	2334	2315	2185	2123	2069	2778	3996	4669	5162	6221	6313	2776	2321	2225
Shelby	1702	1687	1746	1637	1492	1455	1363	1366	1369	1417	1401	1390	1184	1090	1275	1791	2429	2687	3459	3897	1798	1432	1591
Sioux	2178	2192	2310	2171	1925	1889	1795	1838	1844	1910	1905	1878	1492	1353	1520	2207	3214	3400	4410	4933	2103	1778	1935
Story	2327	2469	2616	2465	2101	2008	1901	1935	1943	2034	1981	1924	1639	1532	1856	2874	3660	3967	4978	5297	2308	1860	1902
Tama	1903	1970	2054	1941	1688	1609	1528	1543	1547	1613	1579	1542	1325	1245	1533	2344	2953	3206	4046	4315	1906	1591	1652
Taylor	1007	1028	1053	954	878	820	818	809	807	818	791	759	710	671	814	1157	1488	1747	2148	2285	1166	873	991
Union	1074	1090	1111	1011	916	861	863	865	853	858	824	790	733	701	852	1216	1599	1917	2328	2470	1292	944	1005
Van Buren	1134	1155	1164	1088	997	946	888	896	879	884	861	835	758	726	899	1298	1623	1882	2321	2366	1145	856	910
Wapello	1195	1201	1207	1144	1071	1017	957	958	945	957	943	882	795	752	943	1367	1669	1855	2337	2398	1120	916	991
Warren	1551	1533	1577	1451	1281	1214	1207	1223	1206	1222	1174	1107	999	956	1162	1694	2263	2669	3250	3281	1605	1169	1221
Washington	1960	2076	2080	1993	1893	1797	1725	1718	1698	1730	1719	1606	1440	1352	1710	2488	2918	3134	4019	4092	1948	1723	1760
Wayne	819	858	870	795	704	669	698	711	693	688	656	634	582	567	690	986	1308	1609	1927	1921	941	680	742
Webster	2375	2528	2685	2519	2161	2076	1978	1998	2023	2126	2103	2037	1713	1565	1893	2934	3848	4161	5301	5665	2387	1959	1983
Winnebago	1927	2078	2162	2017	1779	1711	1662	1641	1678	1769	1793	1739	1453	1311	1623	2494	3302	3582	4676	5067	1898	1547	1490
Winneshiek	1534	1510	1501	1375	1233	1193	1122	1151	1162	1251	1209	1144	1017	965	1217	1835	2361	2616	3219	3287	1329	1092	1052
Woodbury	1565	1622	1687	1607	1443	1437	1342	1362	1363	1415	1411	1398	1136	1039	1192	1674	2272	2465	3218	3462	1463	1229	1409
Worth	1923	2056	2098	1963	1726	1649	1611	1584	1611	1695	1703	1656	1402	1309	1655	2535	3266	3578	4625	4927	1856	1509	1396
Wright	2372	2544	2698	2520	2195	2118	2026	2025	2067	2178	2191	2134	1776	1586	1922	2968	3925	4230	5485	5750	2316	1910	1969
State of Iowa	1781	1841	1903	1781	1586	1520	1488	1476	1482	1536	1516	1471	1270	1183	1447	2145	2765	3034	3834	4067	1752	1432	1470



Table 4. Percentage Change Based on Adjusted Per Acre Value (in 1999 \$s) of Farm Land by Selected Periods in Iowa's Counties, 1950-1999.

County	1990- 1999	1980- 1990	1970- 1980	1960- 1970	1950- 1960	County	1990- 1999	1980- 1990	1970- 1980	1960- 1970	1950- 1960
Adair	22.5	-64.7	104.1	39.7	-10.1	Jefferson	19.1	-58.5	113.0	24.0	-6.5
Adams	17.3	-62.3	112.3	30.4	-13.0	Johnson	22.0	-61.7	118.3	19.9	1.4
Allamakee	21.3	-59.7	148.0	22.4	2.6	Jones	22.4	-62.1	136.6	18.9	2.9
Appanoose	26.5	-64.4	107.1	45.3	-9.4	Keokuk	13.9	-57.5	110.7	13.8	-7.1
Audubon	12.4	-59.6	131.5	20.5	-10.7	Kossuth	8.6	-63.1	164.6	18.1	0.0
Benton	17.0	-62.2	123.7	19.3	-1.9	Lee	28.1	-65.4	109.5	33.6	2.5
Black Hawk	19.9	-65.4	139.4	21.4	9.9	Linn	24.3	-62.2	130.1	20.3	0.7
Boone	15.9	-61.5	123.9	21.8	-1.9	Louisa	13.9	-59.8	123.0	25.6	0.8
Bremer	24.1	-62.3	153.3	19.8	12.6	Lucas	23.6	-64.0	101.5	38.5	-6.8
Buchanan	21.4	-62.2	155.0	25.2	9.2	Lyon	6.4	-61.4	144.9	15.0	-9.1
Buena Vista	5.6	-61.3	147.0	12.0	-7.1	Madison	21.8	-60.8	113.4	37.6	-11.8
Butler	15.5	-65.3	152.8	19.8	7.1	Mahaska	19.4	-60.2	106.0	22.5	-4.7
Calhoun	7.4	-61.5	132.5	18.6	-3.9	Marion	26.8	-63.8	104.6	32.6	-2.0
Carroll	1.3	-59.6	141.4	14.8	-11.3	Marshall	14.4	-61.2	122.2	18.9	-5.2
Cass	20.1	-62.7	115.1	30.6	-12.7	Mills	27.3	-66.0	112.2	36.1	-13.4
Cedar	21.3	-63.0	117.7	17.9	5.7	Mitchell	26.8	-67.3	156.3	22.5	12.9
Cerro Gordo	15.5	-66.2	156.0	22.8	10.4	Monona	13.9	-58.0	129.5	23.1	-13.4
Cherokee	8.2	-61.0	140.5	16.7	-7.7	Monroe	27.5	-60.9	108.4	25.2	-8.6
Chickasaw	21.7	-62.9	159.0	25.5	5.9	Montgomery	18.9	-66.7	100.6	35.0	-14.6
Clarke	24.7	-64.1	94.0	36.9	-5.4	Muscatine	20.2	-61.9	120.7	22.3	2.4
Clay	5.7	-60.6	151.5	15.1	-3.9	O'Brien	4.4	-59.9	153.0	15.2	-6.8
Clayton	31.4	-60.4	127.2	15.7	4.0	Osceola	2.3	-60.2	151.2	17.0	-6.6
Clinton	20.4	-63.0	138.0	23.0	5.7	Page	20.0	-68.0	95.3	32.1	-14.9
Crawford	7.8	-60.1	141.0	16.5	-12.9	Palo Alto	8.0	-61.6	154.3	16.9	-1.0
Dallas	20.6	-60.9	126.2	22.9	-8.3	Plymouth	17.1	-61.2	131.2	21.4	-7.4
Davis	29.5	-63.4	114.0	33.6	-7.2	Pocahontas	8.5	-63.5	143.1	14.4	-2.4
Decatur	22.6	-62.8	100.1	32.8	-7.1	Polk	14.1	-63.4	120.3	25.3	-6.0
Delaware	20.4	-60.8	148.3	27.9	10.6	Pottawattamie	27.7	-63.2	112.2	31.2	-13.5
Des Moines	17.9	-63.6	112.4	31.9	6.2	Poweshiek	16.7	-61.5	117.0	20.8	-9.1
Dickinson	5.4	-58.2	154.3	17.8	-9.4	Ringgold	24.2	-63.7	96.4	33.5	-12.2
Dubuque	19.4	-61.7	152.2	26.2	10.2	Sac	3.7	-59.8	141.4	15.6	-9.5
Emmet	5.6	-59.5	157.8	17.6	-2.7	Scott	27.3	-63.0	127.4	19.6	4.3
Fayette	19.2	-62.3	156.9	28.9	11.9	Shelby	20.1	-63.7	116.8	25.5	-10.0
Floyd	23.4	-66.7	220.2	-3.8	12.0	Sioux	14.0	-61.3	134.6	18.3	-8.1
Franklin	8.1	-64.7	161.5	20.3	3.1	Story	14.4	-61.6	129.5	24.0	-2.2
Fremont	18.2	-65.6	112.3	33.1	-12.2	Tama	18.0	-62.6	126.3	19.8	-3.7
Greene	6.3	-61.6	123.9	20.9	-5.5	Taylor	23.1	-64.2	95.9	33.7	-12.0
Grundy	14.4	-63.6	137.4	23.7	4.3	Union	25.2	-65.3	91.2	36.9	-6.1
Guthrie	15.6	-59.9	131.2	24.3	-10.4	Van Buren	28.3	-62.6	106.6	33.8	-6.0
Hamilton	10.9	-62.0	141.2	22.8	-3.2	Wapello	24.8	-60.1	114.0	22.3	-7.6
Hancock	11.3	-64.9	159.5	21.9	5.9	Warren	26.9	-62.8	104.4	37.3	-4.2
Hardin	8.0	-62.3	147.2	21.9	-1.7	Washington	13.3	-57.7	110.1	13.1	-2.1
Harrison	23.4	-60.2	122.9	25.8	-14.6	Wayne	19.0	-64.2	104.2	38.2	-8.3
Henry	18.1	-61.4	110.2	23.0	0.8	Webster	11.7	-62.5	137.3	21.8	-1.2
Howard	24.2	-62.7	154.0	21.7	4.3	Winnebago	8.9	-65.1	167.0	22.6	3.8
Humboldt	9.1	-64.8	146.6	21.8	-0.3	Winneshiek	22.6	-61.9	147.3	21.7	3.8
Ida	9.0	-60.5	132.2	19.7	-8.0	Woodbury	10.6	-59.1	136.6	19.0	-12.8
Iowa	16.9	-61.2	113.9	15.8	-4.8	Worth	13.5	-65.6	165.4	23.0	8.1
Jackson	19.6	-63.1	144.0	26.6	7.5	Wright	8.9	-62.1	148.3	21.3	-3.0
Jasper	17.0	-61.8	117.0	19.5	-4.2						
						State of Iowa	16.0	-62.2	132.2	22.3	-2.6

Table 5. Percentage Change in Per Acre Value (unadjusted and adjusted to 1999 \$s) of Farm Land from 1981 to 1986, from 1986 to 1997, and from 1997 to 1999 in Iowa's Counties.

County	Unadjusted			Adjusted			County	Unadjusted			Adjusted		
	1997-1999	1986-1997	1981-1986	1997-1999	1986-1997	1981-1986		1997-1999	1986-1997	1981-1986	1997-1999	1986-1997	1981-1986
Adair	-3.6	132.5	-62.9	-6.9	60.2	-68.8	Jefferson	-1.1	131.4	-61.0	-4.5	59.5	-67.2
Adams	-4.1	129.3	-62.2	-7.5	58.0	-68.1	Johnson	-0.9	119.5	-60.6	-4.4	51.3	-66.8
Allamakee	7.8	126.9	-62.8	4.0	56.4	-68.7	Jones	1.5	114.4	-60.7	-2.0	47.8	-66.9
Appanoose	0.5	127.6	-65.1	-3.0	56.9	-70.7	Keokuk	-0.1	122.3	-60.3	-3.6	53.2	-66.6
Audubon	-3.0	137.5	-61.8	-6.4	63.7	-67.8	Kossuth	-8.9	151.7	-66.1	-12.1	73.4	-71.5
Benton	-4.3	139.1	-63.1	-7.6	64.8	-68.9	Lee	0.5	129.5	-64.1	-3.0	58.2	-69.8
Black Hawk	-0.7	129.1	-65.4	-4.1	57.9	-70.9	Linn	0.7	116.7	-61.0	-2.8	49.3	-67.2
Boone	-7.2	148.5	-63.2	-10.4	71.3	-69.0	Louisa	-2.6	115.9	-60.6	-6.0	48.8	-66.8
Bremer	4.1	131.9	-65.0	0.4	59.8	-70.6	Lucas	0.4	123.8	-64.0	-3.1	54.2	-69.7
Buchanan	1.8	128.2	-64.4	-1.7	57.3	-70.0	Lyon	-6.1	145.7	-64.9	-9.4	69.3	-70.4
Buena Vista	-7.4	144.4	-64.9	-10.7	68.4	-70.4	Madison	-1.1	144.2	-63.0	-4.5	68.3	-68.8
Butler	-4.4	129.9	-65.6	-7.8	58.4	-71.1	Mahaska	0.6	130.8	-62.1	-2.9	59.1	-68.1
Calhoun	-7.1	144.3	-64.5	-10.3	68.4	-70.1	Marion	3.2	127.1	-63.5	-0.4	56.5	-69.2
Carroll	-8.1	138.5	-63.6	-11.3	64.4	-69.4	Marshall	-5.2	134.7	-62.3	-8.4	61.7	-68.3
Cass	-1.9	133.2	-61.9	-5.3	60.7	-67.9	Mills	-0.8	130.5	-62.7	-4.3	58.8	-68.6
Cedar	-1.4	111.8	-60.4	-4.8	45.9	-66.7	Mitchell	3.3	120.9	-66.1	-0.3	52.2	-71.5
Cerro Gordo	-3.9	128.3	-66.5	-7.3	57.3	-71.8	Monona	0.0	132.3	-60.6	-3.5	60.1	-66.8
Cherokee	-5.3	143.5	-63.5	-8.6	67.8	-69.3	Monroe	3.9	135.1	-62.7	0.3	62.0	-68.6
Chickasaw	2.4	127.6	-65.0	-1.2	56.8	-70.5	Montgomery	-4.3	121.6	-62.7	-7.6	52.7	-68.6
Clarke	0.2	133.1	-64.2	-3.3	60.6	-69.8	Muscatine	-2.7	116.1	-60.8	-6.0	48.9	-67.0
Clay	-8.2	148.0	-64.5	-11.4	70.9	-70.2	O'Brien	-8.1	145.8	-64.2	-11.3	69.4	-69.8
Clayton	11.7	140.4	-63.6	7.8	65.7	-69.3	Osceola	-9.7	145.4	-64.1	-12.8	69.1	-69.8
Clinton	0.9	104.8	-60.6	-2.6	41.1	-66.8	Page	-2.8	120.3	-63.9	-6.2	51.8	-69.6
Crawford	-4.0	134.5	-62.6	-7.3	61.6	-68.5	Palo Alto	-8.5	152.8	-64.7	-11.7	74.2	-70.3
Dallas	-3.3	157.4	-63.2	-6.7	77.4	-69.0	Plymouth	-1.0	144.7	-62.4	-4.5	68.6	-68.4
Davis	2.6	127.5	-63.4	-1.0	56.8	-69.2	Pocahontas	-7.4	144.9	-65.7	-10.6	68.8	-71.2
Decatur	-0.7	132.2	-64.6	-4.1	60.0	-70.2	Polk	-5.2	134.9	-64.2	-8.5	61.9	-69.8
Delaware	4.8	117.5	-62.7	1.2	49.8	-68.6	Pottawattamie	3.1	135.9	-62.5	-0.5	62.6	-68.4
Des Moines	-2.1	121.8	-62.7	-5.5	52.8	-68.6	Poweshiek	-3.5	129.0	-61.4	-6.9	57.8	-67.5
Dickinson	-7.8	153.6	-64.4	-11.0	74.8	-70.0	Ringgold	0.7	127.6	-63.9	-2.8	56.8	-69.6
Dubuque	7.2	117.5	-63.2	3.4	49.9	-69.0	Sac	-6.0	138.4	-63.7	-9.3	64.3	-69.5
Emmet	-10.0	153.2	-64.0	-13.1	74.5	-69.7	Scott	2.0	111.7	-60.5	-1.6	45.9	-66.7
Fayette	4.0	121.0	-64.4	0.4	52.3	-70.0	Shelby	1.0	132.4	-62.6	-2.5	60.2	-68.5
Floyd	0.4	123.2	-65.9	-3.1	53.8	-71.3	Sioux	-2.3	147.8	-63.6	-5.7	70.7	-69.3
Franklin	-8.6	137.4	-66.0	-11.8	63.6	-71.4	Story	-7.8	147.8	-63.5	-11.0	70.8	-69.2
Fremont	-4.5	125.3	-61.9	-7.9	55.3	-67.9	Tama	-4.0	139.5	-63.5	-7.4	65.0	-69.2
Greene	-7.8	139.7	-64.1	-11.0	65.2	-69.8	Taylor	-0.9	127.8	-62.9	-4.3	57.0	-68.8
Grundy	-6.7	137.9	-64.5	-9.9	64.0	-70.1	Union	0.2	130.0	-64.3	-3.3	58.5	-69.9
Guthrie	-3.2	144.1	-61.9	-6.6	68.2	-68.0	Van Buren	0.9	132.7	-62.8	-2.6	60.4	-68.7
Hamilton	-9.0	147.8	-64.6	-12.2	70.8	-70.2	Wapello	2.6	133.0	-61.8	-1.0	60.6	-67.8
Hancock	-6.4	137.6	-66.4	-9.7	63.8	-71.7	Warren	1.9	139.3	-65.1	-1.6	64.9	-70.6
Hardin	-10.2	141.5	-64.2	-13.3	66.5	-69.8	Washington	-2.4	123.4	-60.1	-5.8	53.9	-66.4
Harrison	2.8	140.8	-61.8	-0.8	65.9	-67.8	Wayne	-2.5	122.8	-65.1	-5.9	53.5	-70.6
Henry	-1.6	125.7	-62.1	-5.0	55.6	-68.1	Webster	-8.4	149.0	-64.9	-11.6	71.6	-70.5
Howard	3.4	132.2	-65.2	-0.2	60.0	-70.7	Winnebago	-7.7	139.3	-66.7	-10.9	64.9	-72.0
Humboldt	-8.2	140.9	-66.0	-11.4	66.0	-71.4	Winneshek	5.9	125.7	-64.4	2.2	55.5	-70.0
Ida	-3.5	136.1	-62.5	-6.9	62.7	-68.4	Woodbury	-3.9	135.6	-61.7	-7.2	62.4	-67.7
Iowa	-3.1	132.6	-61.7	-6.4	60.3	-67.7	Worth	-5.0	132.5	-66.4	-8.3	60.2	-71.7
Jackson	4.0	106.1	-62.0	0.4	42.0	-68.0	Wright	-8.9	146.8	-65.7	-12.1	70.1	-71.1
Jasper	-2.3	123.3	-61.7	-5.7	53.9	-67.8							
							State of Iowa	-3.0	133.4	-63.3	-6.4	60.9	-69.1

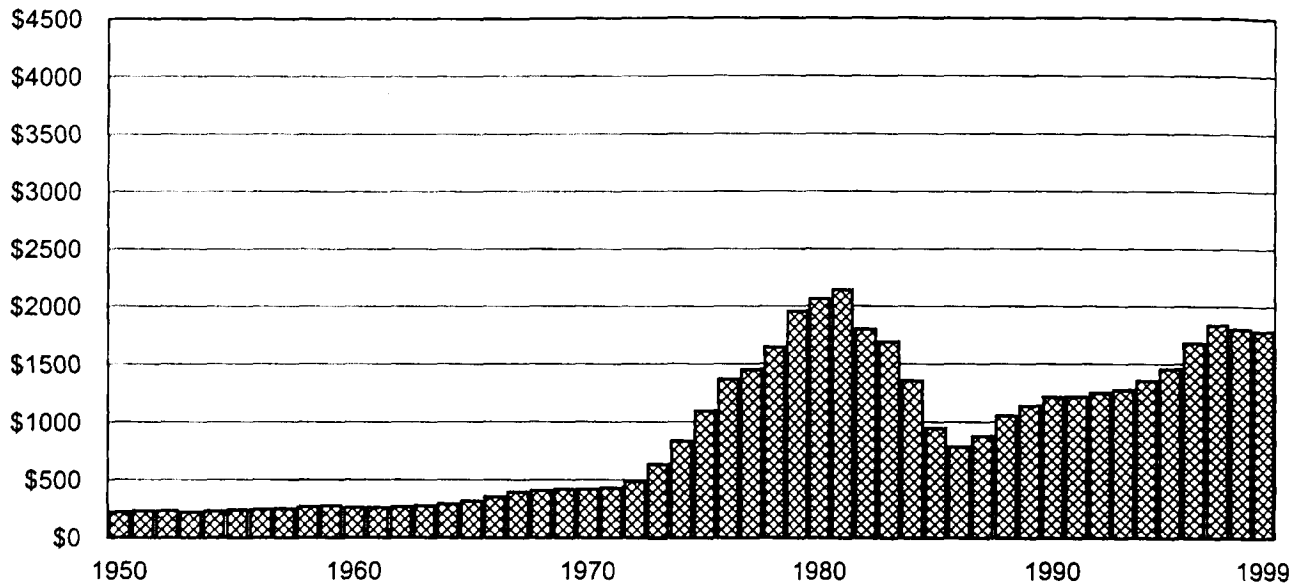
however, in only Montgomery and Page were the 1999 figures lower than the 1950 adjusted numbers; this attests to the general increase in land values throughout much of the last decade. The great percentage increase in the 1970s remained high even after inflation was incorporated (Table 4), although it was substantially smaller than when inflation was not controlled (Table 2). Positive changes in the 1960s and from 1990 to 1997 also were muted when inflation was entered into the equation. But the decline in the 1980s was even more dramatic when the numbers were adjusted for inflation.

From 1981 to 1986, average values declined steadily; they increased from 1986 to 1997 but then dropped to 1999. In the first period, unadjusted declines totaled 63.3 percent for the state (Table 5). The value of farm land dropped by at least 60 percent in all counties. In some, the figures for 1986 were only about a third of what they had been for an average acre in 1981. The numbers adjusted for inflation provide similar findings.

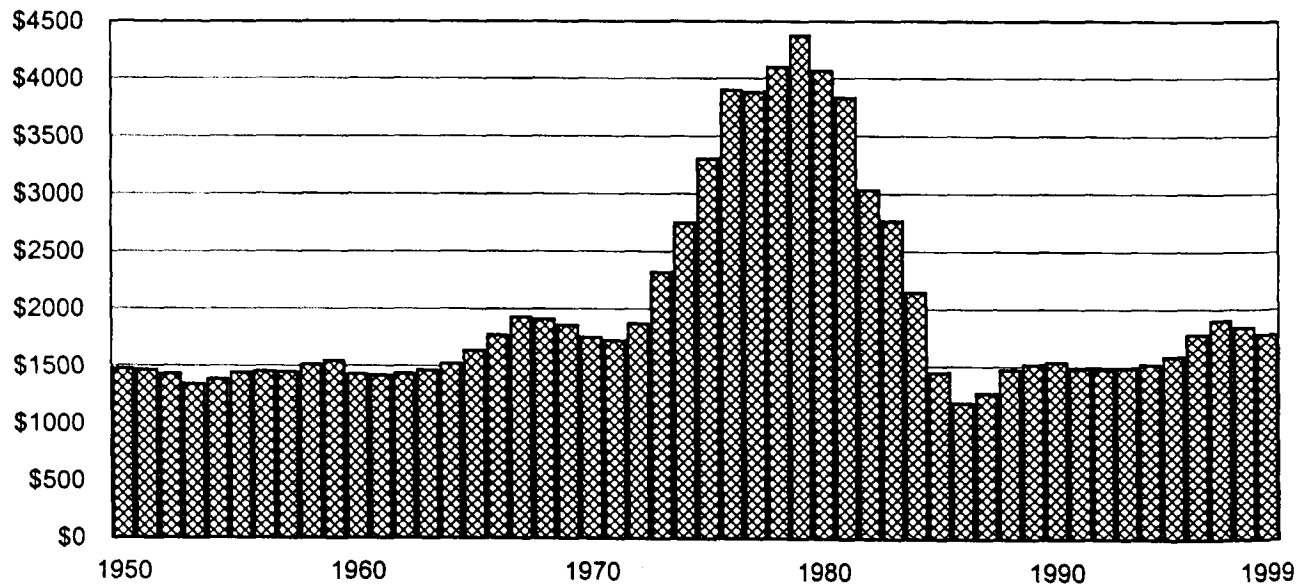
Farm land values escalated when 1986 and 1997 were compared; the average acre in Iowa gained 133.4 percent in unadjusted value. Although the losses from 1981 through 1986 had a relatively small range (-60.1% through -66.7%) across counties, the gains in the following years varied to a somewhat greater degree. Five counties had increases in farm land values of at least 150 percent, while the gains in 11 others were less than 120 percent. These gains were not as dramatic when the effects of inflation were incorporated, however.

**Note:** Annual data from 1950 through 1999 are available from Michael Duffy, Department of Economics, 560 Heady Hall, Iowa State University, Ames, IA 50011.

**Figure 1. Per acre value (in \$s) of farm land in Iowa, 1950–1999.**



**Figure 2. Adjusted per acre value (in 1999 \$s) of farm land in Iowa, 1950–1999.**



## **Corn and Soybean Production in Iowa's Counties: 1979, 1984, and 1989-1999**

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The Iowa Department of Agriculture and Land Stewardship provides annual estimates of production of selected crops. Reports are available on corn, corn silage, soybeans, oats, wheat, alfalfa hay, and all hay. In this section, information is included on corn and soybeans harvested for grain.

Weather is a key factor influencing differences in the production of corn and soybeans from one year to the next. The excessive rains and consequent flooding that occurred during 1993 caused a decrease in acres harvested and bushels produced per acre; thus, the one-year increases between 1993 and 1994 were particularly dramatic because of the exceptionally high numbers recorded for corn and soybean production in 1994. Weather-related factors in 1995 led to significant declines from 1994, however. The numbers for 1996 returned to relatively high levels. Federal agricultural policy and other factors can affect planting and harvesting as well.

### **Corn Production**

About 11.8 million acres of corn were harvested for grain in 1999 (Table 1), a decrease of 400,000 acres from 1998. Between 1989 and 1999, these acres varied from 11 million (1993) to nearly 13 million (1992) (Figure 1). Weather-related problems in 1993 resulted in a 15.1 percent decline from 1992 in harvested corn acreage but a gain of 14.5 percent from 1993 to 1994. A decline of 7.9 percent occurred from 1994 to 1995, again in large part due to weather patterns. Similar deviations occurred from 1995 to 1999.

In 1999, nearly 1.8 billion bushels of corn were produced, a decrease of 11 million bushels from 1998 (Table 2). Fewer than 1 billion bushels were produced in 1993. The average number of bushels of corn grown per acre is obtained by dividing the number of bushels produced by the number of acres grown. In only a few of the years examined was the average below 100 bushels per acre (Table 3, Figure 2). The 1999 figure of 149 was higher than all years reported in Table 3 except 1994, when the yield averaged 152 bushels per acre.

Counties vary in corn production (Tables 1, 2, 3). Both the acres harvested and the bushels of corn produced differ by the amount and quality of farmland available for such production and local weather patterns. The figures for the average bushels produced per acre allow county comparisons that take into account variations in the number of acres planted. In 1999, for example, average yield of corn was at least 10 bushels per acre greater than the state figure in 17 counties. Yields were 10 or more bushels per acre under the state average in 27 counties; in only Davis, Jefferson, and Van Buren were yields less than 100 bushels per acre in 1999 (Figure 3).

### **Soybean Production**

The number of acres of soybeans harvested generally has risen slowly from the beginning to the end of the period examined (Table 4, Figure 1). While 8.2 million acres of soybeans were harvested in 1979, more than 10.7 million acres were harvested in 1999, which was more than any other year.

Table 1. Estimated Acres (in 1,000s) of Corn Harvested for Grain in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	104	101	96	105	98	108	98	112	109	112	106	114	116
Adams	59	62	56	63	45	61	54	63	60	63	61	61	73
Allamakee	67	69	67	75	71	71	63	73	71	68	66	79	75
Appanoose	28	25	28	26	8	30	21	33	32	31	30	32	37
Audubon	103	114	106	105	97	104	97	110	108	109	108	117	124
Benton	173	176	171	185	176	181	166	181	179	175	175	190	173
Black Hawk	137	145	136	152	148	149	137	154	143	150	149	161	146
Boone	138	150	144	147	136	144	123	141	133	134	135	127	153
Bremer	108	110	109	123	119	119	110	123	113	115	114	116	110
Buchanan	149	165	161	165	169	173	163	181	181	177	172	180	165
Buena Vista	158	166	163	159	162	165	148	164	151	155	159	157	169
Butler	139	151	143	153	149	150	136	158	146	154	149	170	169
Calhoun	160	156	154	162	158	166	144	163	145	152	153	173	155
Carroll	154	155	156	150	155	156	147	161	159	161	162	152	160
Cass	119	121	118	118	118	130	115	133	125	127	124	118	144
Cedar	136	139	144	160	163	168	158	173	177	174	167	160	177
Cerro Gordo	148	147	142	159	163	164	143	172	153	166	162	164	151
Cherokee	138	135	133	142	137	141	132	145	141	144	142	137	146
Chickasaw	124	124	117	131	127	130	116	136	123	122	122	135	115
Clarke	26	27	26	27	5	37	22	38	37	36	37	41	44
Clay	137	126	122	145	139	144	105	144	133	135	135	132	147
Clayton	133	163	150	139	141	141	136	157	148	138	130	168	148
Clinton	174	178	176	186	188	194	174	197	196	189	192	227	210
Crawford	170	161	165	166	170	173	162	176	170	170	172	161	181
Dallas	128	136	129	142	130	134	123	139	138	137	134	147	154
Davis	32	38	35	37	11	38	32	44	44	43	41	50	60
Decatur	24	23	26	30	6	32	25	34	32	30	32	52	45
Delaware	166	168	164	182	178	179	166	185	184	177	172	175	168
Des Moines	70	75	70	75	63	75	66	75	76	73	72	102	93
Dickinson	85	84	81	87	81	87	46	88	78	86	85	89	96
Dubuque	119	123	119	123	115	113	104	121	116	113	112	121	124
Emmet	112	106	99	109	107	109	53	108	97	103	102	119	106
Fayette	168	185	178	196	191	192	174	201	194	194	186	182	179
Floyd	131	140	138	135	129	137	121	140	131	132	128	140	128
Franklin	162	164	162	178	174	179	160	183	145	170	170	166	171
Fremont	109	118	114	119	86	115	82	118	111	113	114	104	120
Greene	154	151	152	159	152	160	140	155	146	145	146	132	157
Grundy	154	154	154	161	157	163	144	164	151	161	160	154	150
Guthrie	102	99	96	113	101	106	98	112	109	106	106	121	106
Hamilton	161	173	170	173	164	169	148	168	149	160	159	139	165
Hancock	163	171	169	167	165	167	144	175	152	163	163	166	162
Hardin	157	162	163	170	169	173	155	172	156	167	161	170	162
Harrison	148	160	154	161	152	159	146	166	157	156	154	156	166
Henry	78	89	88	87	68	88	79	92	92	88	89	95	102
Howard	108	120	108	114	107	106	96	115	103	104	101	114	100
Humboldt	126	125	123	135	126	133	113	130	99	122	123	121	125
Ida	112	107	107	113	114	118	114	123	125	127	125	132	128
Iowa	106	117	115	124	114	129	110	129	128	121	124	146	142
Jackson	91	96	94	101	98	98	83	104	101	98	96	108	104
Jasper	158	160	162	157	158	164	147	169	162	164	166	174	170

Table 1. Estimated Acres (in 1,000s) of Corn Harvested for Grain in Iowa's Counties, 1979, 1984, 1989-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	59	63	63	64	39	70	59	73	74	72	72	87	73
Johnson	106	104	101	106	103	112	103	124	127	119	118	143	144
Jones	133	142	139	152	146	149	131	152	150	146	141	157	142
Keokuk	98	95	102	113	87	113	102	117	120	113	119	117	126
Kossuth	291	302	286	299	296	302	241	308	237	274	272	261	274
Lee	77	76	77	80	49	78	63	81	77	74	71	97	83
Linn	138	138	132	146	135	142	131	146	149	149	143	153	152
Louisa	76	77	77	83	76	87	80	88	89	88	84	97	86
Lucas	21	24	24	24	7	27	16	32	30	29	30	39	43
Lyon	148	153	145	161	151	153	132	153	147	143	138	155	169
Madison	60	75	71	62	57	69	51	73	71	74	71	92	89
Mahaska	111	114	121	123	107	124	104	124	124	119	120	121	135
Marion	71	74	80	63	62	76	60	79	74	74	76	74	82
Marshall	138	141	134	138	139	145	134	155	146	151	149	145	156
Mills	94	98	89	96	85	99	87	100	96	100	96	98	103
Mitchell	129	135	125	132	127	129	110	135	121	124	120	118	119
Monona	152	156	144	157	141	155	141	167	161	163	165	155	162
Monroe	23	26	28	26	8	28	15	31	28	27	29	39	42
Montgomery	86	87	83	89	76	89	81	90	88	89	87	84	105
Muscatine	85	88	89	96	92	99	84	99	97	92	96	128	97
O'Brien	156	165	157	157	155	158	135	161	158	160	157	158	155
Osceola	110	110	106	117	110	112	72	111	108	107	105	102	110
Page	94	100	93	101	79	98	88	102	101	101	97	93	112
Palo Alto	150	161	150	152	145	153	125	158	122	151	149	164	155
Plymouth	219	213	211	207	208	215	203	227	213	217	211	231	244
Pocahontas	169	168	168	171	166	171	150	168	146	156	157	153	162
Polk	89	93	93	94	89	95	81	101	95	97	99	95	114
Pottawattamie	217	234	223	217	221	235	214	243	236	235	227	247	214
Poweshiek	117	114	112	109	114	118	109	123	124	122	115	123	125
Ringgold	41	38	38	42	15	46	36	49	48	46	48	62	65
Sac	152	147	149	165	154	159	146	157	145	150	150	148	169
Scott	107	115	117	118	122	126	118	128	126	123	123	142	134
Shelby	154	151	155	168	172	178	168	181	176	175	173	179	182
Sioux	226	238	227	220	228	238	210	237	233	228	223	218	241
Story	150	158	158	155	154	158	140	160	156	161	161	161	164
Tama	152	162	158	162	166	178	162	184	175	182	180	179	174
Taylor	64	59	57	65	34	68	59	70	66	67	67	75	78
Union	48	42	41	39	30	51	39	52	50	51	47	56	57
Van Buren	40	43	45	44	12	46	34	48	49	46	45	57	58
Wapello	49	50	50	62	30	58	40	59	57	56	53	51	63
Warren	63	74	71	66	59	74	53	80	77	78	82	92	85
Washington	111	118	119	127	111	129	116	132	139	134	130	148	151
Wayne	39	41	43	41	9	49	38	54	50	45	48	72	61
Webster	185	189	189	187	179	188	164	186	166	174	172	158	183
Winnebago	121	128	122	127	126	128	104	134	104	120	117	119	114
Winneshiek	128	132	125	132	127	126	109	131	131	123	117	136	130
Woodbury	175	200	191	186	173	191	181	207	207	208	205	199	260
Worth	107	112	106	103	109	111	93	112	99	104	103	113	110
Wright	168	171	167	170	169	174	155	174	136	161	157	164	177
State of Iowa	11800	12200	11900	12400	11600	12600	11000	12950	12200	12400	12250	12900	13100

Table 2. Estimated Bushels (in 1,000s) of Corn Harvested for Grain in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	14434	14457	11574	12587	8332	16274	7558	15736	13802	12856	13892	11050	13300
Adams	7559	8552	6679	7915	3894	9054	4250	8516	8024	7461	6661	4254	8500
Allamakee	10201	10634	9106	9439	8354	10422	5241	9406	9471	9080	8001	8861	9300
Appanoose	3192	2967	3510	3061	524	4082	1368	3866	2883	3152	2458	2858	4300
Audubon	13502	15662	13685	13853	11434	15642	7852	16116	14242	13323	14203	11917	14900
Benton	26358	26770	25006	25076	20725	26059	14065	25493	16693	21111	18818	23024	23200
Black Hawk	20833	21194	18773	20322	19156	22713	10109	24034	15935	18712	13818	17186	20100
Boone	21485	21936	21595	21848	20356	23852	10345	23041	16352	15902	17670	15355	21700
Bremer	17524	17342	15841	17337	15393	17968	8723	19174	14792	15390	11268	13403	14400
Buchanan	22707	24279	22107	23579	19419	26027	12500	27270	22359	23631	19568	21353	23200
Buena Vista	26008	25669	23785	23029	22606	26231	11868	25244	18161	20162	20990	15426	21800
Butler	20243	22914	19706	21943	18625	21055	10066	24094	18277	19907	14032	19295	21500
Calhoun	23716	20295	21093	24087	22415	28513	11956	27385	16762	19012	20596	18005	21500
Carroll	21201	23390	21004	21349	20276	25195	10364	24637	19402	19370	21022	16595	19800
Cass	16148	17482	14217	15359	12874	18899	8299	19806	16387	15764	16224	12658	17700
Cedar	21386	23652	20323	22334	19781	26475	14404	25514	19236	23723	22056	21505	25500
Cerro Gordo	21354	21572	20661	22849	20696	24217	9254	24695	18339	22759	15671	18315	19900
Cherokee	23602	21849	18559	19659	17696	21246	11583	21869	19137	18813	18777	15915	18400
Chickasaw	18914	18649	16643	16604	15783	18643	8250	19163	15968	15808	12041	14002	14800
Clarke	3108	2660	2993	2613	338	4823	942	4598	3753	3746	2542	2522	4300
Clay	21943	19367	16774	20327	17724	22470	6894	21206	14925	18073	17555	13706	19000
Clayton	20507	25071	20684	18754	16857	20567	12262	21097	19750	19454	17407	19528	18600
Clinton	27620	27046	25015	27188	24507	30981	17560	27930	20755	25998	23426	25821	27400
Crawford	24999	24031	20995	21962	19064	26147	12447	25490	20885	21297	21042	17797	19300
Dallas	20027	20281	18015	19448	17551	21030	11681	21306	17097	17518	18735	16807	20900
Davis	2861	5265	4242	4674	699	5043	2022	5662	4097	4590	2712	5115	7100
Decatur	2721	2243	2985	3935	441	4461	1195	4187	3382	2893	2731	4410	4600
Delaware	26503	25442	23494	26419	21281	27779	12840	26219	23057	24619	21021	20729	22600
Des Moines	10260	9921	9978	9835	7534	12004	6228	10851	6991	9390	6001	13700	12900
Dickinson	12779	12796	10380	12326	10148	12610	2528	11829	9431	11019	11635	10240	11700
Dubuque	17886	19306	16515	18144	13727	16972	8776	16317	15107	15423	12109	15048	16100
Emmet	16566	16431	14328	15806	13645	16761	2811	15912	11421	13798	14218	12099	13500
Fayette	25791	28538	25336	26075	24590	27572	13980	28916	26554	26410	22854	21083	23700
Floyd	19888	22863	19446	19176	16076	19488	8840	20201	16297	18334	10648	16158	16800
Franklin	24182	24031	21922	27125	22975	26618	10480	29143	16997	22220	21688	19463	22600
Fremont	14625	15772	15459	16190	9475	16501	6491	18391	14187	12961	13943	10037	14000
Greene	22928	21702	21444	23754	21321	25661	11813	26161	18200	17632	18600	16028	22200
Grundy	21452	22911	22083	20882	21046	24051	11149	26184	18412	18868	15309	16757	20600
Guthrie	13777	13910	11627	15169	12091	16502	7954	16489	13157	12777	14465	13194	13100
Hamilton	25033	25481	24620	25733	23842	28101	11044	27672	18347	19190	24542	15755	23200
Hancock	24605	24474	24336	24406	21053	25650	10818	26440	16758	22427	20469	18094	21200
Hardin	23850	23973	21726	24103	24023	27028	11975	28310	19034	20652	18803	21114	22500
Harrison	20682	20308	20368	22847	16726	22960	14366	25757	18340	17541	14940	16066	19700
Henry	10279	11881	12094	11532	8089	14026	6336	13319	9018	10852	6385	10868	14100
Howard	16647	18043	15259	15355	13420	14883	6026	14033	12400	13847	12647	12313	12200
Humboldt	18057	17121	18247	20773	17570	21170	8445	21491	10782	15375	18289	13594	15800
Ida	18526	16716	14656	15938	14291	17708	9853	18534	15243	16232	16300	15614	14200
Iowa	15255	16725	15752	15042	11813	19598	8716	16951	13684	15111	12965	18062	18400
Jackson	13037	13944	12358	12947	10595	14294	7352	12287	9117	12747	10955	11931	12200
Jasper	24490	23875	23202	21750	20574	25813	14183	25262	18456	20651	19166	22078	21400



Table 2. Estimated Bushels (in 1,000s) of Corn Harvested for Grain in Iowa's Counties, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	5655	7712	8613	7874	3787	10817	4115	10054	7382	8879	6277	10288	9400
Johnson	14823	14019	14020	12958	10660	17458	8093	16658	12366	15130	12013	16885	19200
Jones	21310	22036	19908	21841	17151	22777	11164	20655	16522	18861	15402	20520	18800
Keokuk	12148	11491	14557	13869	9096	17247	8025	15621	11632	13572	12360	14409	17000
Kossuth	43883	44810	42121	42886	39040	47308	18020	48520	25808	38011	39247	30678	35700
Lee	9402	9072	10731	11034	5823	12241	4877	12033	7634	8178	3309	11905	11500
Linn	20810	20126	19038	20332	15432	21919	10696	20703	14178	18979	16463	19306	19800
Louisa	10907	9494	10055	10622	8993	13524	7205	12465	7983	11515	6221	12652	11800
Lucas	2662	2421	3094	2582	470	3470	851	4088	3003	3018	1922	3254	4400
Lyon	24194	23121	19232	22294	18189	23293	11335	20570	18122	16624	16467	16057	19400
Madison	8014	10902	8844	7707	5939	10476	3803	10388	8201	8275	9074	8122	9800
Mahaska	14970	16154	17015	15949	12379	19667	8708	17896	12891	14462	13478	14296	17300
Marion	9725	9783	10428	7379	6517	12209	4872	10913	8084	8865	8566	8088	9700
Marshall	21529	20580	18658	19332	18719	22023	11499	23832	18628	19221	18091	17819	20600
Mills	12042	12131	12124	12830	9015	14576	6486	15618	12716	11988	10538	9641	12600
Mitchell	20049	21940	18717	18414	17031	19043	7461	18560	15186	17870	15493	13606	14800
Monona	21443	18378	17891	19525	13604	21581	12790	23943	16700	18055	17131	15666	16400
Monroe	2537	2932	3523	2933	664	4143	892	3589	2970	3002	2777	3528	4500
Montgomery	10882	12218	11139	11547	6908	12460	6061	13616	11269	10572	10565	7385	13300
Muscatine	12662	12500	11632	12007	10883	15836	6720	13922	9035	11618	10165	16214	12600
O'Brien	26571	26128	22100	22151	20089	24036	10214	23336	19252	21439	22247	17795	19800
Osceola	18398	16323	13643	15807	14164	16284	5107	15154	14536	14151	13750	11483	12900
Page	11597	12689	12418	13770	7122	13176	6744	15262	12409	11508	10720	6811	12700
Palo Alto	23638	21865	21566	21718	18437	23522	9005	24474	12834	20622	18675	16452	19400
Plymouth	35761	34119	27013	28618	24526	31869	19611	32738	26530	24972	24489	26063	28500
Pocahontas	26607	22834	24868	25738	23131	27851	11195	26969	17308	19186	22104	15557	21600
Polk	14553	13861	13890	13988	12776	15933	7697	15578	10541	12105	12690	11501	14600
Pottawattamie	30335	32675	29484	29480	23726	35036	17310	37944	32110	28433	22780	28887	27200
Poweshiek	17363	16602	15720	14469	12815	17595	8570	16732	13128	15163	12434	14259	15800
Ringgold	4863	4259	4175	4914	1006	6354	1516	6105	5162	4417	4795	3753	6900
Sac	25593	20779	20401	24522	20001	25630	11812	24748	17089	19239	18946	16028	20900
Scott	17509	19422	16958	16517	15993	20833	12540	19027	14315	16623	16292	18058	18000
Shelby	22135	20860	20291	22675	19510	26466	14290	26243	22963	21752	20709	21117	23100
Sioux	38873	38668	31842	32123	29195	38097	21609	34399	28648	28088	29950	25139	29400
Story	24373	23618	23218	22739	21596	24619	10893	25712	19166	18664	20437	19203	22900
Tama	22844	22671	21549	21145	20011	25328	13192	26175	19787	22278	18201	21677	23100
Taylor	7408	7054	6716	7307	2184	9214	3621	8981	7797	6502	6353	4550	8500
Union	6742	5473	4849	4672	2169	7336	2052	6734	6277	5685	4810	4595	6200
Van Buren	3587	5006	5910	5587	1091	6304	1946	6490	4673	5048	2893	6114	6700
Wapello	5556	6778	6854	7890	2947	8790	2995	8233	5546	6515	5631	5654	8300
Warren	8986	9873	9643	8411	6206	11412	3801	11029	8636	8773	8819	9278	10300
Washington	15875	15876	17011	16087	11862	20057	9333	17996	14161	17568	12081	18229	20900
Wayne	4050	4267	4746	5492	636	6614	1568	6403	4918	4285	3646	5278	6800
Webster	28761	24901	27884	29104	26541	32027	13612	30496	20221	21706	25731	17007	25700
Winnebago	17293	20531	18134	17468	16018	19329	7053	19646	11326	16720	15066	13990	14300
Winneshiak	20607	20112	17682	17691	15520	17664	9273	16401	17152	16817	14179	15327	15400
Woodbury	26758	27149	22875	24563	18497	26485	16433	30077	21947	23568	22945	21548	27100
Worth	15833	18195	15304	14318	13992	16318	5851	15358	11636	14801	13393	13281	14300
Wright	24833	23199	23916	25863	23314	27114	11422	28362	15166	21496	23307	19139	24100
State of Iowa	1758200		1642200		1426800		880000		1427400		1445500		1663700
		1769000		1711200		1915200		1903650		1562400		1444800	

Table 3. Estimated Bushels of Corn Harvested for Grain Per Acre in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	139.3	142.7	120.1	119.9	85.0	151.0	76.8	140.0	126.4	115.1	131.4	97.4	114.7
Adams	128.1	137.7	119.9	125.4	87.3	148.2	79.0	135.4	133.7	119.4	110.1	70.0	116.4
Allamakee	151.4	154.3	135.3	126.7	117.0	146.4	83.2	129.4	132.6	132.7	122.2	112.7	124.0
Appanoose	113.6	119.6	125.8	118.6	68.1	134.7	64.5	117.5	90.4	103.3	83.0	89.3	116.2
Audubon	131.6	137.1	129.1	131.9	118.2	151.1	80.6	147.0	132.0	122.0	132.0	101.6	120.2
Benton	152.4	152.1	146.2	135.8	117.8	143.7	84.8	140.9	93.2	120.5	107.3	121.2	134.1
Black Hawk	152.4	146.7	138.5	134.0	129.7	152.0	73.6	156.3	111.2	125.0	92.9	106.5	137.7
Boone	155.6	146.6	149.5	148.9	149.9	165.3	84.0	163.8	123.4	118.8	130.5	120.8	141.8
Bremer	162.6	157.9	145.6	141.4	129.2	151.0	79.7	155.8	130.9	133.6	99.3	115.2	130.9
Buchanan	152.2	147.3	137.3	143.1	114.8	150.8	76.6	151.1	123.5	133.3	113.6	118.4	140.6
Buena Vista	165.1	154.6	146.4	145.3	140.0	159.0	80.3	153.7	120.5	130.4	132.4	98.3	129.0
Butler	145.9	151.9	137.7	143.2	125.1	140.0	73.9	152.3	125.6	129.5	94.3	113.7	127.2
Calhoun	147.9	130.5	137.1	148.7	142.3	171.5	83.3	167.6	116.0	125.4	134.6	104.4	138.7
Carroll	137.4	151.1	135.0	142.8	131.1	161.3	70.5	153.5	122.1	120.7	129.4	109.3	123.8
Cass	135.2	144.6	120.6	129.9	108.9	145.6	72.1	148.8	131.4	123.9	131.4	107.0	122.9
Cedar	156.9	169.8	141.3	139.5	121.4	157.5	91.3	147.7	108.6	136.5	131.8	134.7	144.1
Cerro Gordo	144.1	146.4	146.0	143.7	127.1	147.6	64.8	143.7	120.0	136.8	97.0	111.9	131.8
Cherokee	170.7	161.6	139.6	138.2	129.2	151.0	87.5	150.7	135.8	130.7	132.7	116.4	126.0
Chickasaw	152.4	150.0	142.0	127.2	124.3	143.6	71.0	140.6	130.1	130.0	98.8	103.4	128.7
Clarke	118.2	99.6	113.8	95.7	65.0	130.4	43.0	121.0	102.3	104.3	68.2	61.2	97.7
Clay	160.8	154.2	138.1	140.0	127.6	156.0	66.0	147.4	112.2	133.7	130.5	104.2	129.3
Clayton	154.1	153.9	137.6	135.1	119.8	146.3	89.9	134.7	133.7	141.4	134.0	116.4	125.7
Clinton	158.9	152.1	142.2	146.1	130.7	159.9	100.7	142.0	105.8	137.3	122.2	113.6	130.5
Crawford	147.1	148.9	127.4	132.6	112.2	150.8	76.7	144.8	122.8	125.5	122.6	110.6	106.6
Dallas	156.7	148.7	139.2	136.9	134.7	156.6	95.4	153.6	124.3	127.5	139.5	114.7	135.7
Davis	90.3	138.6	123.0	125.3	65.9	132.0	63.6	129.0	93.3	108.0	66.0	101.5	118.3
Decatur	113.4	98.8	117.1	131.6	68.9	138.5	48.8	124.6	105.7	97.4	84.8	84.2	102.2
Delaware	159.3	151.3	143.1	145.0	119.8	155.1	77.3	141.5	125.4	138.9	122.5	118.2	134.5
Des Moines	145.9	132.8	142.1	131.8	120.0	159.8	94.1	145.5	92.5	128.5	83.0	134.4	138.7
Dickinson	150.7	152.0	128.8	141.5	125.6	145.3	55.6	135.0	120.3	128.3	136.2	114.7	121.9
Dubuque	150.6	156.7	138.5	147.5	119.3	149.8	84.8	134.4	130.0	136.5	108.6	124.4	129.8
Emmet	148.6	154.7	144.9	145.1	128.0	153.9	53.4	147.5	118.0	134.5	139.8	101.9	127.4
Fayette	153.2	154.3	142.1	132.9	129.1	143.8	80.4	143.9	136.6	135.9	123.1	115.8	132.4
Floyd	152.4	163.7	141.4	141.6	125.0	142.5	73.0	144.3	124.6	138.7	83.3	115.7	131.3
Franklin	149.3	146.6	135.5	152.2	132.2	148.5	65.7	158.9	117.3	130.8	128.0	117.3	132.2
Fremont	133.7	133.8	136.0	136.1	110.0	143.0	79.4	155.3	128.3	115.2	122.1	96.5	116.7
Greene	148.5	143.8	141.3	149.1	140.6	160.9	84.1	169.2	124.6	121.3	127.7	121.2	141.4
Grundy	139.3	149.2	143.0	129.5	133.9	147.9	77.4	160.1	121.6	117.6	95.5	108.7	137.3
Guthrie	134.9	140.6	121.1	134.4	119.5	155.5	81.6	147.2	121.2	121.0	135.9	109.0	123.6
Hamilton	156.0	147.1	145.1	148.4	145.5	166.4	74.6	164.5	123.5	120.3	154.4	113.6	140.6
Hancock	150.6	142.9	144.4	146.4	127.9	153.4	74.9	151.1	110.4	138.0	126.0	108.8	130.9
Hardin	152.0	148.0	133.2	141.6	141.8	156.2	77.1	164.7	122.1	123.6	116.9	124.0	138.9
Harrison	140.0	126.7	132.4	141.6	110.4	144.2	98.6	155.0	117.1	112.5	97.3	103.1	118.7
Henry	131.1	134.1	137.6	132.9	119.8	159.2	80.1	144.8	98.2	122.9	72.1	114.3	138.2
Howard	154.4	151.0	140.9	134.3	125.1	140.1	63.1	122.6	121.0	133.3	125.1	108.4	122.0
Humboldt	143.7	137.1	147.9	154.4	139.3	159.1	75.0	164.8	108.5	126.4	149.1	112.7	126.4
Ida	164.8	156.1	136.7	141.7	125.8	150.1	86.4	151.2	121.8	128.2	130.4	117.9	110.9
Iowa	144.2	142.7	136.5	121.0	103.4	151.6	79.3	131.0	106.9	124.9	104.8	123.4	129.6
Jackson	143.6	146.0	132.0	128.7	108.4	146.0	88.4	117.8	90.0	130.5	113.6	110.5	117.3
Jasper	154.9	149.5	143.4	138.4	130.5	157.1	96.4	149.1	114.1	126.0	115.8	127.2	125.9

Table 3. Estimated Bushels of Corn Harvested for Grain Per Acre in Iowa's Counties, 1979, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	95.5	121.6	135.9	122.5	96.1	155.6	70.0	137.9	99.9	123.1	86.7	118.8	128.8
Johnson	140.5	134.9	138.8	121.9	104.0	155.5	78.6	134.4	97.3	127.2	101.5	117.7	133.3
Jones	159.8	155.6	143.2	143.9	117.7	152.7	85.2	135.7	110.1	129.0	109.0	131.1	132.4
Keokuk	123.5	120.6	143.4	123.0	104.8	153.3	78.9	133.5	96.9	120.0	103.9	123.3	134.9
Kossuth	150.7	148.5	147.2	143.6	131.7	156.8	74.8	157.5	108.7	138.8	144.4	117.4	130.3
Lee	122.1	118.7	139.5	138.1	119.6	157.7	76.9	149.5	99.5	110.8	46.6	122.9	138.6
Linn	150.8	146.4	144.1	139.5	114.1	154.1	81.9	141.9	95.0	127.5	114.9	126.6	130.3
Louisa	144.5	122.7	130.2	128.8	118.6	155.6	90.6	141.2	90.0	131.0	73.7	130.3	137.2
Lucas	128.0	102.6	128.4	108.9	65.3	130.9	52.9	127.0	100.1	104.4	64.7	83.9	102.3
Lyon	163.4	151.5	132.3	138.6	120.5	151.8	85.9	134.6	123.2	116.4	119.3	103.5	114.8
Madison	134.5	145.4	125.1	123.5	103.6	152.0	74.3	142.3	116.3	112.4	127.1	88.6	110.1
Mahaska	135.4	141.7	140.9	129.5	115.3	158.5	84.1	144.8	103.8	121.7	112.6	118.4	128.1
Marion	137.6	132.6	131.0	117.9	104.4	159.8	81.2	137.4	109.2	119.3	113.0	109.0	118.3
Marshall	155.8	146.2	139.2	140.6	134.8	151.7	85.7	154.3	127.4	127.1	121.5	122.7	132.1
Mills	128.2	123.7	135.8	133.2	105.9	147.4	75.0	156.0	131.9	120.5	109.4	98.2	122.3
Mitchell	154.9	162.4	149.9	139.9	134.0	147.6	68.0	137.9	125.4	144.3	129.0	115.5	124.4
Monona	141.2	117.9	124.5	124.3	96.2	139.1	90.5	143.1	104.0	110.5	104.1	101.3	101.2
Monroe	110.8	111.9	127.2	112.8	84.1	149.0	61.5	117.3	107.2	112.9	94.5	91.6	107.1
Montgomery	127.3	140.6	134.5	130.0	91.1	140.0	74.6	151.8	128.5	118.8	121.0	87.7	126.7
Muscatine	149.5	142.5	131.0	125.1	118.9	160.8	80.0	141.1	93.3	125.9	106.0	127.1	129.9
O'Brien	170.0	158.6	140.9	140.7	129.3	151.9	75.6	145.1	121.9	134.2	141.8	113.0	127.7
Osceola	167.0	148.9	128.7	135.0	129.0	145.0	71.2	136.0	134.6	131.8	131.1	112.1	117.3
Page	123.2	126.5	133.5	136.6	89.7	135.0	76.7	149.8	123.3	113.8	110.2	73.2	113.4
Palo Alto	157.6	136.1	144.0	143.2	127.2	153.5	71.9	154.7	105.6	136.2	125.0	100.1	125.2
Plymouth	163.6	159.9	128.1	138.4	118.0	148.3	96.7	144.3	124.6	115.1	115.8	112.6	116.8
Pocahontas	157.7	136.3	148.2	150.3	139.7	162.7	74.6	160.1	118.5	123.3	140.6	101.4	133.3
Polk	164.4	149.2	149.7	148.2	142.9	167.0	94.7	155.0	111.2	124.3	128.2	121.1	128.1
Pottawattamie	139.8	139.5	132.2	135.9	107.2	149.3	81.1	156.0	136.2	120.9	100.5	117.0	127.1
Poweshiek	148.3	145.4	140.9	133.2	112.9	149.0	79.0	136.4	105.6	124.2	108.6	115.8	126.4
Ringgold	119.2	112.4	109.0	117.0	65.3	138.1	42.0	123.8	108.4	96.9	100.5	60.1	106.2
Sac	168.4	141.6	136.6	148.8	129.8	160.8	80.8	157.4	118.3	127.9	126.7	108.2	123.7
Scott	164.1	169.6	144.4	139.6	131.3	164.8	106.0	148.3	113.5	135.4	133.0	127.4	134.3
Shelby	143.4	138.3	130.9	135.1	113.8	148.4	85.0	144.8	130.5	124.7	119.9	117.8	126.9
Sioux	172.4	162.3	140.3	146.1	128.3	159.8	103.1	145.3	123.1	123.2	134.5	115.1	122.0
Story	162.4	149.2	146.9	146.3	140.5	155.4	78.0	160.5	122.9	116.3	126.9	119.5	139.6
Tama	150.3	139.9	136.5	130.9	120.5	142.3	81.4	142.5	113.4	122.4	100.9	121.1	132.8
Taylor	115.6	119.2	117.4	112.8	65.2	135.9	61.6	127.8	118.1	96.6	95.5	60.6	109.0
Union	140.8	129.7	117.4	120.7	71.8	143.8	53.3	130.0	124.8	111.0	103.0	81.5	108.8
Van Buren	88.8	115.3	130.2	127.3	92.5	138.2	56.7	135.8	96.0	109.3	65.0	107.1	115.5
Wapello	113.4	135.8	136.5	127.5	99.9	152.3	75.1	140.0	96.6	116.5	105.6	112.0	131.7
Warren	142.6	133.4	135.4	128.4	105.0	154.8	71.6	138.0	112.3	113.1	107.3	100.6	121.2
Washington	143.7	134.7	142.9	126.9	107.2	155.8	80.6	136.7	101.9	130.8	93.1	123.3	138.4
Wayne	104.1	103.8	109.4	133.6	69.1	134.4	41.4	117.9	97.6	95.0	76.0	73.8	111.5
Webster	155.7	131.5	147.7	155.8	148.0	170.8	83.0	164.0	122.0	125.0	149.9	107.9	140.4
Winnebago	142.6	160.0	149.3	137.4	126.8	151.4	67.7	146.9	108.9	139.6	129.2	117.6	125.4
Winneshiek	160.5	152.5	141.6	133.6	122.7	140.2	84.8	125.3	131.1	137.1	120.9	112.8	118.5
Woodbury	152.9	136.1	119.8	132.1	106.7	138.7	91.0	145.0	105.9	113.2	111.9	108.1	104.2
Worth	148.7	162.0	144.8	139.4	127.9	147.3	63.1	137.4	117.8	142.7	130.0	117.1	130.0
Wright	147.7	136.1	143.2	152.1	138.0	156.0	73.9	162.9	111.9	133.9	148.7	117.0	136.2
State of Iowa	149.0	145.0	138.0	138.0	123.0	152.0	80.0	147.0	117.0	126.0	118.0	112.0	127.0

Table 4. Estimated Acres (in 1,000s) of Soybeans Harvested in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	101	95	95	96	86	77	77	70	69	66	67	63	58
Adams	60	56	56	53	55	45	45	44	44	42	44	49	37
Allamakee	26	23	20	12	10	8	7	5	5	4	5	4	3
Appanoose	37	36	33	29	38	25	28	25	27	25	26	31	40
Audubon	102	100	102	94	84	77	75	72	73	68	72	73	54
Benton	167	158	159	154	144	141	139	135	134	126	132	126	115
Black Hawk	119	114	112	115	102	102	96	91	99	84	89	90	95
Boone	134	135	143	127	125	124	116	119	121	112	117	122	119
Bremer	88	86	85	80	70	70	65	60	62	53	55	56	74
Buchanan	122	116	115	98	87	85	81	76	75	68	75	67	94
Buena Vista	157	150	155	152	145	145	137	137	145	135	131	127	132
Butler	130	123	126	116	101	99	93	89	101	81	86	88	110
Calhoun	163	159	160	161	159	155	153	149	170	148	152	149	151
Carroll	139	139	141	145	128	124	121	118	114	111	115	103	101
Cass	115	111	108	97	97	92	90	87	87	85	87	75	68
Cedar	125	118	115	110	90	87	82	80	74	74	78	73	72
Cerro Gordo	143	125	130	119	111	112	108	97	112	99	103	118	114
Cherokee	136	132	130	136	122	121	114	112	109	103	106	96	95
Chickasaw	107	101	98	97	81	77	73	67	71	61	63	67	74
Clarke	34	28	30	19	26	22	21	24	27	25	26	34	31
Clay	147	139	141	138	132	129	115	126	129	123	128	128	127
Clayton	39	46	45	24	12	9	8	6	5	4	5	5	7
Clinton	121	114	104	96	84	83	77	77	75	73	77	72	70
Crawford	158	151	149	127	127	115	112	107	114	104	109	89	82
Dallas	122	124	132	140	112	112	108	106	108	101	108	109	108
Davis	42	38	40	33	37	29	28	25	30	28	31	43	50
Decatur	37	35	32	30	34	26	27	24	27	26	31	43	38
Delaware	79	71	64	49	42	39	34	31	28	28	29	25	30
Des Moines	69	64	68	62	72	62	60	60	58	53	58	47	55
Dickinson	88	89	84	86	77	80	72	74	81	71	73	73	81
Dubuque	34	25	21	14	9	8	7	6	5	5	5	3	2
Emmet	105	102	102	94	97	96	82	89	97	89	90	93	97
Fayette	131	117	114	103	89	85	79	74	75	68	68	77	86
Floyd	120	119	118	108	102	101	96	92	95	93	96	111	105
Franklin	145	146	143	124	127	126	122	116	144	116	124	129	127
Fremont	114	113	120	119	117	109	67	105	106	104	105	97	109
Greene	153	149	150	143	147	145	142	141	145	134	143	144	137
Grundy	144	139	140	117	126	127	123	118	123	110	107	120	107
Guthrie	101	99	98	91	86	78	77	75	80	75	79	76	66
Hamilton	154	154	156	135	139	141	133	134	145	128	131	131	144
Hancock	140	135	138	127	120	122	114	112	130	117	122	136	126
Hardin	139	139	142	120	117	118	114	111	124	106	112	122	113
Harrison	149	140	144	135	132	126	122	117	120	118	123	112	110
Henry	77	71	72	65	71	60	57	56	56	55	56	60	57
Howard	104	95	97	86	77	75	71	65	73	66	69	75	75
Humboldt	120	119	123	118	116	113	113	107	136	106	112	112	111
Ida	104	105	100	85	89	85	80	79	77	72	75	75	59
Iowa	88	78	80	70	65	53	53	51	46	45	52	50	45
Jackson	38	31	23	16	12	10	9	8	9	9	10	9	9
Jasper	140	144	145	119	115	109	97	101	103	94	104	106	85

Table 4. Estimated Acres (in 1,000s) of Soybeans Harvested in Iowa's Counties, 1979, 1984, 1989-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	67	62	65	56	70	56	55	53	56	54	60	65	57
Johnson	90	79	80	78	70	65	60	60	58	57	59	58	62
Jones	81	76	74	60	54	50	48	45	45	43	45	44	41
Keokuk	93	82	86	74	85	70	66	64	61	56	64	63	63
Kossuth	252	247	251	237	240	238	223	215	267	229	236	265	248
Lee	70	66	67	63	75	59	52	57	60	53	59	57	62
Linn	118	112	111	100	94	92	89	86	85	82	90	88	95
Louisa	73	72	69	65	69	65	59	61	57	54	59	55	49
Lucas	26	23	27	17	23	18	19	18	21	19	21	28	25
Lyon	143	135	138	138	126	125	113	117	115	113	120	119	99
Madison	71	63	67	69	61	54	57	52	56	52	54	60	55
Mahaska	102	99	99	87	96	84	73	79	78	71	80	72	77
Marion	71	66	72	69	68	61	59	57	59	55	60	56	53
Marshall	124	127	126	100	96	90	88	83	87	79	88	91	86
Mills	95	93	94	92	91	87	67	83	84	80	84	91	77
Mitchell	103	100	100	89	87	86	85	79	83	74	75	89	95
Monona	148	131	139	118	127	118	106	109	116	109	110	109	97
Monroe	30	29	28	31	28	18	20	17	18	18	20	23	26
Montgomery	88	84	84	91	86	75	71	74	75	71	74	70	70
Muscatine	77	74	73	66	66	61	52	58	58	53	57	53	51
O'Brien	156	153	157	145	147	147	139	141	140	135	137	138	131
Osceola	113	108	111	111	109	109	98	102	103	99	106	101	99
Page	102	98	101	95	99	87	85	87	92	90	92	91	88
Palo Alto	147	145	144	144	130	130	117	124	156	126	135	139	145
Plymouth	196	190	186	187	167	165	153	149	152	143	147	132	112
Pocahontas	168	163	170	162	163	160	157	152	168	145	152	154	154
Polk	87	91	92	81	83	82	72	80	80	75	79	84	91
Pottawattamie	206	202	206	174	184	174	166	165	171	162	167	155	129
Poweshiek	115	107	102	74	87	80	81	77	78	72	80	79	70
Ringgold	49	50	49	35	51	38	34	36	40	40	42	57	50
Sac	149	153	147	145	135	132	130	124	131	119	125	124	109
Scott	77	73	74	66	55	55	51	49	46	48	49	42	42
Shelby	140	138	130	110	111	104	101	96	96	92	98	96	77
Sioux	188	182	185	171	156	155	139	142	138	129	137	125	100
Story	146	146	152	133	133	133	126	125	127	121	124	131	130
Tama	142	136	137	111	112	106	106	100	105	96	107	109	105
Taylor	75	69	73	55	71	58	57	53	57	53	56	67	59
Union	51	48	44	44	49	37	36	36	36	32	33	36	30
Van Buren	48	47	47	48	46	37	39	37	39	37	40	50	46
Wapello	58	50	54	46	58	46	42	45	48	45	46	47	53
Warren	67	64	68	59	63	56	54	53	57	49	53	53	56
Washington	105	102	106	97	97	83	77	78	72	69	74	70	71
Wayne	55	50	51	25	51	42	43	37	39	38	40	52	51
Webster	185	192	195	174	181	177	174	171	182	166	176	181	181
Winnebago	107	101	99	90	89	88	85	76	103	84	84	94	105
Winneshek	70	63	54	34	33	26	24	20	19	16	18	17	19
Woodbury	168	159	166	138	130	114	108	100	106	94	96	96	82
Worth	103	96	94	78	81	82	79	74	80	71	72	85	92
Wright	163	160	162	152	153	154	150	142	171	141	147	160	160
State of Iowa	10750	10350	10400	9450	9260	8770	8300	8170	8630	7900	8280	8400	8170

Table 5. Estimated Bushels (in 1,000s) of Soybeans Harvested in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	4249	4098	3791	3550	2574	3869	2406	2902	2920	2415	2573	1597	2010
Adams	2359	2460	2387	2117	1536	2199	1480	1802	1797	1606	1549	954	1340
Allamakee	1229	1188	891	565	427	396	246	179	212	185	199	127	120
Appanoose	1295	1449	1378	1059	1107	1029	759	933	834	825	726	730	1350
Audubon	4008	4340	4622	3934	3714	4058	2595	3223	3255	2742	2955	2242	2020
Benton	7866	8485	8008	7123	6297	7317	4982	5965	5954	5718	5316	4292	4790
Black Hawk	6019	6009	5421	5225	5067	5424	3285	4231	4124	3812	3144	2787	3660
Boone	5721	6359	6458	5870	6110	6503	3766	5473	5044	4529	4851	4256	4800
Bremer	4585	4608	4104	3463	3472	3635	2146	2798	2634	2461	1867	1744	2590
Buchanan	5987	6137	5537	4460	3756	4436	2961	3396	3567	3087	2751	2060	3590
Buena Vista	7213	7321	7483	7012	6934	7602	4168	6370	5786	5588	5777	4005	4880
Butler	5861	6382	5709	5386	4840	4899	2763	4075	4021	3388	2906	2743	3850
Calhoun	7089	6516	7221	7690	7505	8520	4426	6829	6290	5948	6359	4625	5950
Carroll	5357	6500	6514	6260	5818	6542	3832	5443	4679	4545	4468	3447	4010
Cass	4764	4738	4359	3885	3476	4609	2778	3685	3671	3361	3443	1987	2580
Cedar	6382	6481	5956	5201	4085	4893	3175	3586	3674	3636	3675	2967	3170
Cerro Gordo	5913	6156	5765	4787	5013	5353	2615	4076	4213	4374	3258	3580	4140
Cherokee	6323	6702	6392	6204	5768	6333	4247	5223	5300	4702	4664	3435	3770
Chickasaw	4972	4837	4481	3875	4022	3812	2001	2806	2968	2626	2189	1895	2450
Clarke	1281	1093	1270	588	634	984	464	872	948	843	742	750	930
Clay	7077	6969	6502	6132	5876	6421	2268	5556	5079	5471	5310	4127	4750
Clayton	1928	2431	2186	1142	601	444	284	268	240	192	215	183	240
Clinton	6408	6097	5322	4609	4100	4531	3020	3616	3514	3637	3554	2655	3130
Crawford	6180	7130	6735	5517	5487	6076	4126	4699	4766	4488	4050	2877	3010
Dallas	5310	6061	5697	6532	4929	5896	3854	4669	4460	4211	4536	3513	4230
Davis	1414	1786	1831	1320	1127	1225	866	1034	1055	1004	737	1121	1790
Decatur	1269	1369	1414	1106	969	1215	580	859	1020	813	833	863	1190
Delaware	4207	3820	3296	2430	1952	2077	1292	1396	1317	1246	1210	741	1180
Des Moines	2898	3033	3385	2680	2603	3162	2328	2707	2424	2406	2204	1676	2290
Dickinson	3833	4494	3434	3931	3312	3829	1185	3014	3181	2948	2988	2324	2880
Dubuque	1899	1324	1038	718	404	399	250	243	217	212	216	124	90
Emmet	4222	4895	4431	3956	4169	4587	1191	3838	3433	3981	3766	2793	3100
Fayette	6025	6256	5411	4694	4463	4241	2634	3180	3418	3018	2852	2551	3050
Floyd	5179	6193	5243	4597	4872	4800	2919	3950	3816	4175	2669	3527	3470
Franklin	6322	7393	5971	5532	5876	6073	3196	5146	5279	4686	4995	4414	4850
Fremont	4814	4475	5200	4989	3974	5348	2294	4565	4414	3727	3406	2291	4100
Greene	6679	6878	6896	6915	6923	7702	4570	6706	5796	5360	5740	4985	5600
Grundy	7505	7206	7065	5678	6572	6610	4400	5689	5319	4847	4301	4091	4430
Guthrie	4290	4546	4004	3885	3485	4001	2469	3199	3290	2977	3049	2212	2360
Hamilton	6965	7369	7067	6139	6779	7425	3577	6293	5836	5024	6005	4480	5840
Hancock	5997	6532	5905	5354	5308	5452	2863	4631	4459	4757	4492	4303	4370
Hardin	6218	6673	6431	5500	5913	6284	3403	5188	4858	4801	4459	4477	4580
Harrison	5880	5621	6266	6011	4917	6493	4254	5185	4480	4332	3898	2843	3940
Henry	3080	3706	3529	2939	2827	3280	2260	2570	2482	2288	2069	2108	2400
Howard	4852	4465	4289	3341	3524	3516	1583	2218	2818	2653	2554	2198	2390
Humboldt	5009	5538	5687	5406	5579	5674	3053	4977	4927	4815	5182	3859	4020
Ida	4697	5095	4619	3918	4062	4573	3166	3515	3302	3106	3089	2543	2270
Iowa	3795	4236	4057	2964	2484	2781	1767	2063	1965	1814	1927	1727	1760
Jackson	1937	1655	1142	690	487	479	336	331	414	398	413	280	360
Jasper	6908	7140	7232	5308	5505	5924	3498	4620	4469	4187	4151	3511	3380

Table 5. Estimated Bushels (in 1,000s) of Soybeans Harvested in Iowa's Counties, 1979, 1984, 1989-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	2169	2923	2969	2332	2581	2878	1910	2256	2269	2055	2032	2110	2150
Johnson	3895	4153	3858	3152	2716	3375	1952	2490	2384	2519	2404	1873	2530
Jones	4318	4080	3752	2806	2347	2617	1770	1943	2182	2054	1712	1556	1740
Keokuk	3654	3887	4361	3174	3430	3734	2479	2657	3009	2343	2372	2040	2490
Kossuth	10572	11597	10980	9956	10548	0625	4875	9183	8436	9667	9671	8669	8440
Lee	2629	3083	3275	2675	2840	3085	1901	2571	2210	1848	1654	1886	2480
Linn	5662	6014	5307	4357	3666	4720	2958	3703	3693	3558	3502	2871	3860
Louisa	3242	3561	3177	2585	2618	3436	2131	2671	2387	2394	2165	2065	1960
Lucas	962	1048	1201	590	657	769	467	689	734	617	608	549	790
Lyon	6990	6756	6387	6533	5468	6623	2985	4780	5002	4139	4817	4163	3840
Madison	2976	2955	2853	2575	2212	2880	1587	2258	2227	1953	2092	1378	1880
Mahaska	4700	5115	4916	3562	4108	4653	2803	3445	3590	3088	3127	2200	2980
Marion	3170	3057	3308	2612	2452	3222	2018	2460	2451	2253	2127	1520	1980
Marshall	6284	6541	6390	4922	4862	5045	3167	3936	3897	3609	3855	3233	3490
Mills	3784	3821	4049	3779	3101	4277	2166	3625	3544	3140	2740	2150	2880
Mitchell	4929	5072	4627	3935	4218	3871	1878	3233	3514	3233	2824	2741	3010
Monona	6125	5619	5823	4869	4427	5958	3572	4815	3590	4004	4183	2733	3290
Monroe	1060	1191	1252	1128	832	875	556	622	692	604	556	543	890
Montgomery	3522	3686	3742	3655	2435	3595	2248	3216	3121	2709	2716	1541	2620
Muscatine	3610	3661	3428	2676	2767	3174	1899	2426	2142	2336	2296	1876	1960
O'Brien	8151	7765	7563	6992	6751	7030	3223	6227	6546	5737	6069	4986	5230
Osceola	5575	5335	4781	4880	4756	5019	1838	4104	4608	4084	4236	3630	3550
Page	4206	3828	4582	4031	2776	3841	2661	3756	3624	3310	3001	1859	3150
Palo Alto	6570	6774	6473	6219	5679	5889	2201	5524	4997	5699	5392	4174	4660
Plymouth	9027	9258	8509	8506	7569	8937	6305	6711	6900	6460	5725	4706	4710
Pocahontas	7094	7605	7968	7504	7677	8079	3964	6823	5998	5453	6554	4853	5070
Polk	3864	4150	4300	3632	4087	4480	2458	3583	3240	3031	3229	2617	3430
Pottawattamie	8982	8890	9227	7567	7116	9159	6071	7385	7251	6624	5320	4727	4785
Poweshiek	5085	5303	4951	3258	3583	4320	2737	3300	3481	3091	3073	2697	2720
Ringgold	1763	1997	2027	1168	1269	1832	831	1345	1408	1151	1344	1277	1530
Sac	6386	6898	6996	6367	6228	7304	4969	5652	5082	4954	5300	3888	4130
Scott	4339	4073	3889	3275	2707	3148	2171	2317	2350	2308	2303	1775	1790
Shelby	6052	6484	6205	4997	5027	5483	3686	4233	4288	3871	3809	3001	3070
Sioux	9913	9409	9075	8587	7367	8721	5030	6425	6715	5722	6210	4787	4280
Story	6533	6949	7064	6316	6484	7124	4035	5839	5114	4968	5151	4309	5090
Tama	7104	7043	6632	5128	5197	5622	3752	4352	4582	4214	4114	3628	4200
Taylor	2635	2753	2940	1843	1708	2803	1666	2024	1981	1532	1638	1384	1960
Union	2064	1964	1846	1555	1134	1734	964	1410	1464	1224	1120	722	940
Van Buren	1495	2207	2194	1888	1545	1707	1249	1542	1461	1237	1127	1552	1550
Wapello	2150	2355	2511	1857	2238	2307	1494	1898	2041	1623	1620	1250	2040
Warren	2738	2939	3040	2241	2234	2889	1393	2249	2144	1941	1807	1437	1960
Washington	4763	5201	5237	4242	3993	4678	3019	3464	3509	3075	2941	2615	2980
Wayne	1888	2005	2039	899	1430	1796	1056	1303	1338	1110	1118	1046	1660
Webster	8430	8788	8994	8170	9089	9272	4683	7743	7330	6350	7925	6202	7220
Winnebago	4338	4787	4309	3528	3707	3820	1869	3022	3392	3398	3035	2962	3260
Winneshiek	3289	2826	2484	1435	1542	1265	728	710	797	698	678	520	640
Woodbury	7098	6989	6802	5637	4933	5715	3735	4446	3570	3684	3914	2516	2960
Worth	4325	4705	4154	3282	3667	3565	1820	2930	2889	3038	2847	2734	3400
Wright	6995	7455	6921	6736	7168	7388	3789	6392	6402	6175	6585	5429	6100
State of Iowa	478375	496800	478400	415800	398180	447270	257300	359480	349515	327850	322920	264600	306375

Table 6. Estimated Bushels of Soybeans Harvested Per Acre in Iowa's Counties, 1979, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	42.2	43.4	40.1	37.1	30.0	50.3	31.4	41.6	42.4	36.7	38.4	25.4	34.5
Adams	39.4	43.7	42.3	40.0	28.0	49.0	33.1	41.1	40.8	38.5	35.5	19.6	35.8
Allamakee	47.3	52.6	45.7	47.1	42.7	49.5	35.7	37.3	43.3	42.0	42.3	30.2	36.4
Appanoose	35.2	40.5	42.1	36.6	29.4	41.3	27.4	37.5	31.0	33.0	28.0	23.5	33.7
Audubon	39.4	43.3	45.1	41.9	44.4	52.8	34.7	44.8	44.9	40.1	40.9	30.7	37.5
Benton	47.1	53.7	50.5	46.4	43.6	52.0	35.8	44.3	44.6	45.4	40.3	34.2	41.5
Black Hawk	50.7	52.5	48.2	45.5	49.5	53.4	34.3	46.6	41.7	45.3	35.4	31.1	38.5
Boone	42.9	47.0	45.0	46.3	49.0	52.5	32.6	46.1	41.7	40.3	41.5	35.0	40.3
Bremer	52.0	53.7	48.6	43.3	49.7	52.1	32.9	46.7	42.6	46.9	34.2	31.0	35.1
Buchanan	49.1	53.1	48.2	45.6	43.3	52.3	36.4	44.8	47.3	45.4	36.8	31.0	38.1
Buena Vista	46.0	48.8	48.4	46.3	48.0	52.5	30.4	46.6	39.8	41.4	44.2	31.5	36.9
Butler	45.0	51.7	45.2	46.5	48.1	49.6	29.9	45.9	40.0	41.6	33.9	31.3	35.0
Calhoun	43.5	41.0	45.0	47.9	47.1	55.1	28.9	45.9	37.0	40.2	41.8	31.1	39.5
Carroll	38.6	46.7	46.2	43.1	45.6	52.8	31.8	46.2	41.0	40.8	38.9	33.4	39.6
Cass	41.5	42.8	40.2	40.1	35.8	50.3	31.0	42.6	42.1	39.4	39.8	26.7	38.2
Cedar	51.1	54.7	51.7	47.1	45.6	56.4	38.7	45.1	50.0	49.0	46.9	40.6	43.8
Cerro Gordo	41.4	49.1	44.3	40.3	45.3	48.0	24.2	42.2	37.5	44.0	31.5	30.2	36.4
Cherokee	46.5	51.0	49.2	45.8	47.4	52.5	37.4	46.7	48.6	45.5	44.0	35.9	39.8
Chickasaw	46.5	48.0	45.8	39.8	49.8	49.7	27.3	42.1	42.1	42.8	34.9	28.5	33.2
Clarke	37.9	38.9	42.3	31.1	24.2	44.9	21.7	36.5	34.9	34.3	28.4	21.8	30.2
Clay	48.2	50.0	46.1	44.5	44.7	49.9	19.7	44.2	39.4	44.3	41.5	32.2	37.4
Clayton	49.6	53.4	48.4	48.0	50.1	49.9	35.9	44.7	45.3	43.6	43.9	35.2	34.3
Clinton	53.1	53.7	51.2	48.3	49.0	54.7	39.3	47.0	47.2	49.8	46.2	36.7	44.5
Crawford	39.0	47.2	45.4	43.5	43.3	53.0	36.8	44.0	42.0	43.2	37.2	32.5	36.6
Dallas	43.6	48.7	43.1	46.6	44.2	52.7	35.7	44.0	41.2	41.7	42.0	32.1	39.2
Davis	33.7	46.6	45.5	40.2	30.5	42.4	30.5	41.5	35.8	35.4	24.0	26.1	35.5
Decatur	34.5	39.7	44.7	37.0	28.2	46.9	21.7	35.6	37.2	31.4	27.2	20.2	31.5
Delaware	53.3	53.7	51.9	49.7	46.6	53.4	37.8	45.2	46.9	45.3	41.4	30.0	38.9
Des Moines	42.1	47.8	49.6	43.3	36.3	51.2	39.0	45.2	41.9	45.1	38.0	35.8	41.3
Dickinson	43.6	50.3	41.0	45.8	43.1	48.0	16.5	40.8	39.5	41.5	40.7	31.7	35.7
Dubuque	56.0	53.6	50.4	51.3	44.9	49.9	36.2	40.5	45.2	47.1	40.0	40.0	39.1
Emmet	40.2	48.1	43.4	42.2	43.1	47.9	14.6	43.2	35.2	44.6	41.7	30.0	32.0
Fayette	46.1	53.7	47.5	45.7	50.3	50.0	33.3	43.1	45.5	44.7	41.8	33.0	35.4
Floyd	43.2	52.2	44.4	42.6	47.6	47.7	30.4	43.0	40.0	44.8	27.7	31.9	33.2
Franklin	43.7	50.6	41.8	44.7	46.4	48.4	26.1	44.5	36.7	40.5	40.3	34.2	38.3
Fremont	42.3	39.7	43.4	42.1	34.1	49.2	34.2	43.6	41.6	35.8	32.3	23.6	37.8
Greene	43.8	46.2	45.9	48.5	47.2	53.2	32.3	47.6	40.1	40.0	40.2	34.7	41.0
Grundy	52.2	51.7	50.4	48.6	52.2	52.0	35.7	48.3	43.4	44.2	40.2	34.2	41.5
Guthrie	42.6	46.1	40.8	42.6	40.8	51.4	32.2	42.7	41.3	39.9	38.7	29.1	35.6
Hamilton	45.3	47.9	45.2	45.6	48.6	52.8	26.9	47.1	40.1	39.1	45.9	34.1	40.7
Hancock	42.9	48.2	42.7	42.3	44.3	44.6	25.1	41.4	34.2	40.5	36.8	31.7	34.8
Hardin	44.8	48.0	45.4	45.9	50.6	53.4	29.9	46.9	39.2	45.4	39.9	36.6	40.6
Harrison	39.4	40.2	43.5	44.6	37.3	51.6	34.9	44.4	37.3	36.6	31.8	25.4	35.8
Henry	40.1	52.1	48.9	45.3	39.9	54.8	39.8	46.0	44.2	41.8	36.7	35.4	42.2
Howard	46.7	47.1	44.3	38.9	45.9	46.9	22.4	34.0	38.6	40.5	37.2	29.2	32.1
Humboldt	41.8	46.7	46.3	46.0	48.2	50.1	27.0	46.6	36.3	45.3	46.3	34.4	36.2
Ida	45.1	48.7	46.3	46.1	45.7	53.9	39.4	44.6	43.1	43.1	41.1	34.0	38.5
Iowa	43.4	54.0	50.5	42.5	38.3	52.7	33.2	40.6	43.0	40.5	37.3	34.3	39.2
Jackson	51.1	54.1	49.7	43.1	40.6	48.4	39.1	41.9	47.0	45.2	40.1	32.6	38.7
Jasper	49.4	49.7	49.8	44.7	48.0	54.4	36.0	45.8	43.5	44.6	40.0	33.2	39.7



Table 6. Estimated Bushels of Soybeans Harvested Per Acre in Iowa's Counties, 1979, 1984, 1989-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	32.5	47.0	45.7	41.8	37.0	51.6	34.9	42.6	40.4	38.0	34.0	32.6	38.0
Johnson	43.3	52.3	48.5	40.7	39.0	52.0	32.3	41.6	41.4	44.6	40.5	32.5	41.1
Jones	53.5	53.7	50.9	46.8	43.6	52.4	36.6	43.4	48.5	48.1	38.2	35.4	42.2
Keokuk	39.5	47.3	50.6	43.0	40.5	53.5	37.4	41.8	49.2	42.0	37.1	32.5	39.3
Kossuth	41.9	46.9	43.8	42.1	44.0	44.6	21.9	42.8	31.5	42.3	41.0	32.8	34.0
Lee	37.8	46.6	49.2	42.7	38.1	52.5	36.5	45.2	37.0	34.6	27.9	33.2	39.9
Linn	48.1	53.8	47.9	43.7	39.1	51.5	33.2	43.2	43.4	43.4	38.9	32.5	40.7
Louisa	44.5	49.5	46.0	39.8	38.1	53.0	36.3	43.9	41.7	44.4	37.0	37.6	39.9
Lucas	37.6	45.4	44.8	35.1	28.3	43.0	24.1	38.5	34.8	32.3	28.4	19.8	32.2
Lyon	48.9	49.9	46.1	47.5	43.5	53.2	26.5	40.9	43.6	36.5	40.2	35.0	38.8
Madison	42.2	46.8	42.3	37.5	36.3	53.4	27.9	43.8	39.6	37.8	38.6	23.2	34.2
Mahaska	46.2	51.8	49.6	41.1	43.0	55.5	38.2	43.4	45.8	43.3	39.2	30.6	38.8
Marion	44.9	46.1	46.0	38.0	36.3	52.9	34.2	43.5	41.8	41.1	35.7	27.3	37.5
Marshall	50.6	51.7	50.7	49.3	50.8	56.2	36.0	47.5	44.9	45.7	43.9	35.4	40.7
Mills	39.9	41.2	43.1	40.9	34.2	49.3	32.3	43.8	42.2	39.1	32.6	23.7	37.6
Mitchell	47.8	50.8	46.5	44.4	48.6	45.1	22.1	41.0	42.2	43.6	37.8	30.9	31.8
Monona	41.4	43.0	41.8	41.3	34.9	50.6	33.7	44.2	31.0	36.6	38.2	25.0	34.0
Monroe	35.2	41.1	45.0	37.0	29.8	48.6	28.4	37.0	38.0	33.4	28.5	23.9	34.1
Montgomery	40.2	43.9	44.8	40.3	28.5	48.1	31.5	43.6	41.9	38.2	36.5	21.9	37.5
Muscatine	46.9	49.5	46.9	40.7	42.2	52.2	36.7	41.9	37.0	44.1	40.0	35.3	38.8
O'Brien	52.3	50.7	48.1	48.3	46.1	47.9	23.2	44.3	46.7	42.4	44.4	36.1	39.9
Osceola	49.4	49.5	43.1	44.0	43.8	46.2	18.8	40.3	44.7	41.2	40.0	35.9	36.0
Page	41.3	39.2	45.3	42.5	28.2	44.3	31.3	43.3	39.3	36.9	32.8	20.5	35.9
Palo Alto	44.8	46.7	44.8	43.3	43.6	45.4	18.9	44.7	32.0	45.2	40.0	30.1	32.1
Plymouth	46.1	48.8	45.8	45.5	45.2	54.3	41.2	45.2	45.3	45.3	39.0	35.8	42.2
Pocahontas	42.3	46.7	47.0	46.4	47.2	50.6	25.2	44.9	35.7	37.5	43.1	31.5	32.9
Polk	44.5	45.8	46.7	45.0	49.3	54.9	34.4	44.9	40.4	40.3	40.8	31.0	37.9
Pottawattamie	43.6	44.1	44.7	43.4	38.7	52.5	36.5	44.7	42.4	40.9	32.0	30.5	37.2
Poweshiek	44.3	49.7	48.7	44.1	41.2	54.1	34.0	43.0	44.8	43.1	38.5	34.0	39.1
Ringgold	36.2	39.7	41.4	33.9	25.1	48.3	24.5	37.6	35.0	28.9	32.3	22.3	30.7
Sac	42.9	45.2	47.5	44.0	46.2	55.5	38.1	45.7	38.8	41.5	42.5	31.4	38.1
Scott	56.4	55.7	52.7	49.8	49.4	57.3	42.9	47.5	50.6	48.1	47.4	42.3	42.9
Shelby	43.3	46.9	47.8	45.4	45.4	52.8	36.5	44.1	44.9	41.9	39.1	31.3	39.9
Sioux	52.9	51.7	49.0	50.2	47.4	56.2	36.2	45.4	48.8	44.4	45.4	38.2	42.9
Story	44.8	47.5	46.4	47.3	48.8	53.6	32.0	46.9	40.3	41.1	41.6	32.8	39.1
Tama	50.0	51.7	48.6	46.3	46.5	53.1	35.4	43.7	43.8	44.0	38.4	33.4	39.8
Taylor	35.2	39.7	40.1	33.8	24.0	48.4	29.1	38.6	34.8	29.1	29.2	20.5	33.4
Union	40.7	40.7	42.1	35.5	23.2	47.0	26.6	39.5	40.9	38.6	33.6	20.0	31.4
Van Buren	31.4	46.7	47.0	39.5	33.7	46.4	32.0	41.9	37.2	33.8	28.5	30.8	33.8
Wapello	37.3	47.0	46.9	40.5	38.7	50.3	35.7	42.2	42.7	36.3	34.9	26.4	38.6
Warren	41.1	45.8	44.5	37.8	35.3	51.7	26.0	42.4	37.5	39.7	34.4	27.3	35.3
Washington	45.4	50.8	49.6	43.8	41.4	56.5	39.1	44.5	48.9	44.8	39.9	37.4	42.1
Wayne	34.5	39.9	40.3	36.1	28.3	42.9	24.8	35.4	34.1	28.9	27.8	20.0	32.7
Webster	45.5	45.7	46.0	47.1	50.3	52.3	27.0	45.4	40.3	38.3	45.1	34.2	40.0
Winnebago	40.4	47.2	43.6	39.3	41.8	43.5	21.9	39.8	32.8	40.6	36.0	31.4	31.1
Winneshek	47.1	44.7	46.0	42.3	46.9	49.4	31.0	35.5	41.5	43.4	37.7	29.9	34.6
Woodbury	42.3	44.0	41.0	41.0	38.0	50.3	34.7	44.5	33.8	39.4	40.9	26.2	36.1
Worth	42.1	49.1	44.3	42.2	45.4	43.6	23.1	39.8	36.3	42.8	39.5	32.3	36.9
Wright	43.0	46.5	42.8	44.4	46.7	48.1	25.3	44.9	37.4	43.7	44.8	34.0	38.2
State of Iowa	44.5	48.0	46.0	44.0	43.0	51.0	31.0	44.0	40.5	41.5	39.0	31.5	37.5

The total of 478 million bushels produced in 1999 was substantially more than the 306 million in 1979, although the 1999 total was 18 million bushels below that reported in the record year of 1998 (Table 5). Nor did the number of bushels produced in 1999 provide a yield per acre that matched the high of 51.0 in 1994 (Table 6, Figure 2). The average number of bushels of soybeans harvested per acre was 44.5 in 1999. Yields in 1984 and 1993 averaged about 31.0 bushels per acre, the lowest reported among the years examined. As with corn, the 1993-1994 period produced both the highest and lowest yields.

Soybean production varies across counties, of course (Tables 4, 5, 6). The average number of bushels produced in 1999 was at least 50 bushels per acre, a figure more than 5 bushels above that for the state, in 14 counties. Twenty counties harvested fewer than 40 bushels of soybeans per acre in 1999 (Figure 4).

### **Concluding Comment**

The number of acres of corn harvested for grain surpassed that of soybeans in each year reported (Tables 1, 4; Figure 1). In nine of the eleven most recent years, however, corn acreage harvested for grain has exceeded that for soybeans by fewer than four million acres. In 1999, the difference was less than 2 million acres for the third consecutive year.

**Note:** For information on corn silage, oats, wheat, alfalfa hay, and all hay, contact the Iowa Department of Agriculture and Land Stewardship (Iowa Agricultural Statistics, Room 833, 210 Walnut, Des Moines, IA 50309; 515-284-4340). Data for the years 1990-1998 are available on one page per crop per year. For earlier periods, request IOWA CROP COUNTY ESTIMATES: HISTORICAL SERIES: 1975-1989 (\$4.00; make checks payable to the Iowa Department of Agriculture). Historical data from 1950-1977 are available as well, although the original publication is out of print. Some libraries have a copy, and one is available through loan from Iowa Agricultural Statistics. These publications also include data on the number of farms, acres of land in farms, and average farm size in acres.

Figure 1. Estimated acres of corn and soybeans harvested for grain in Iowa, 1979–1999.

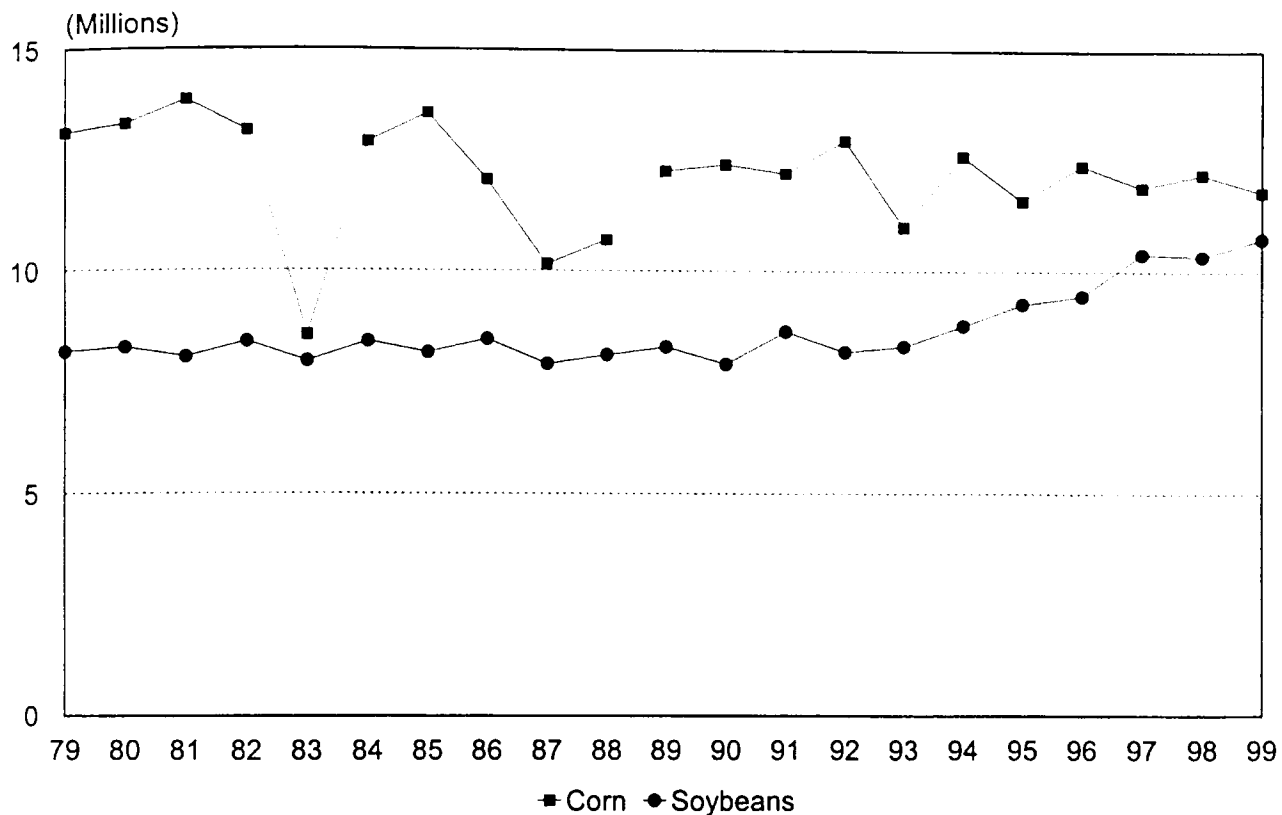


Figure 2. Estimated bushels of corn and soybeans harvested for grain per acre in Iowa, 1979–1999.

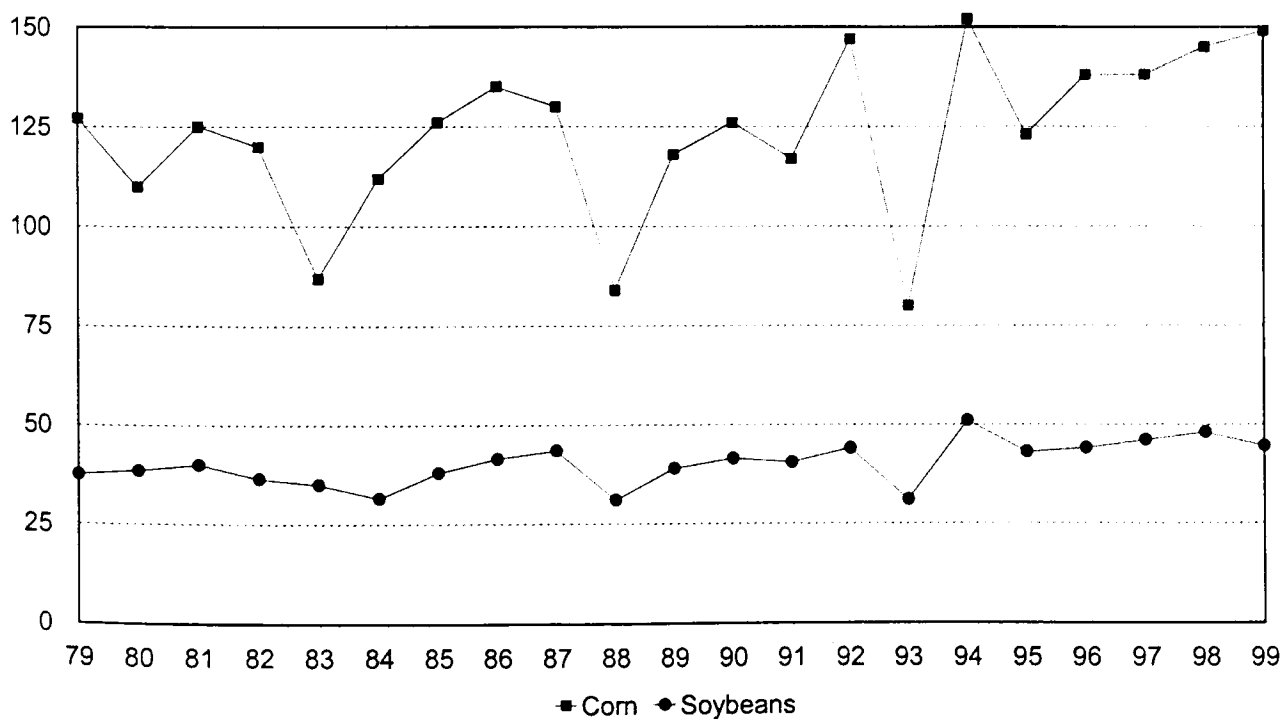


Figure 3. Estimated bushels of corn harvested for grain per acre, 1999.

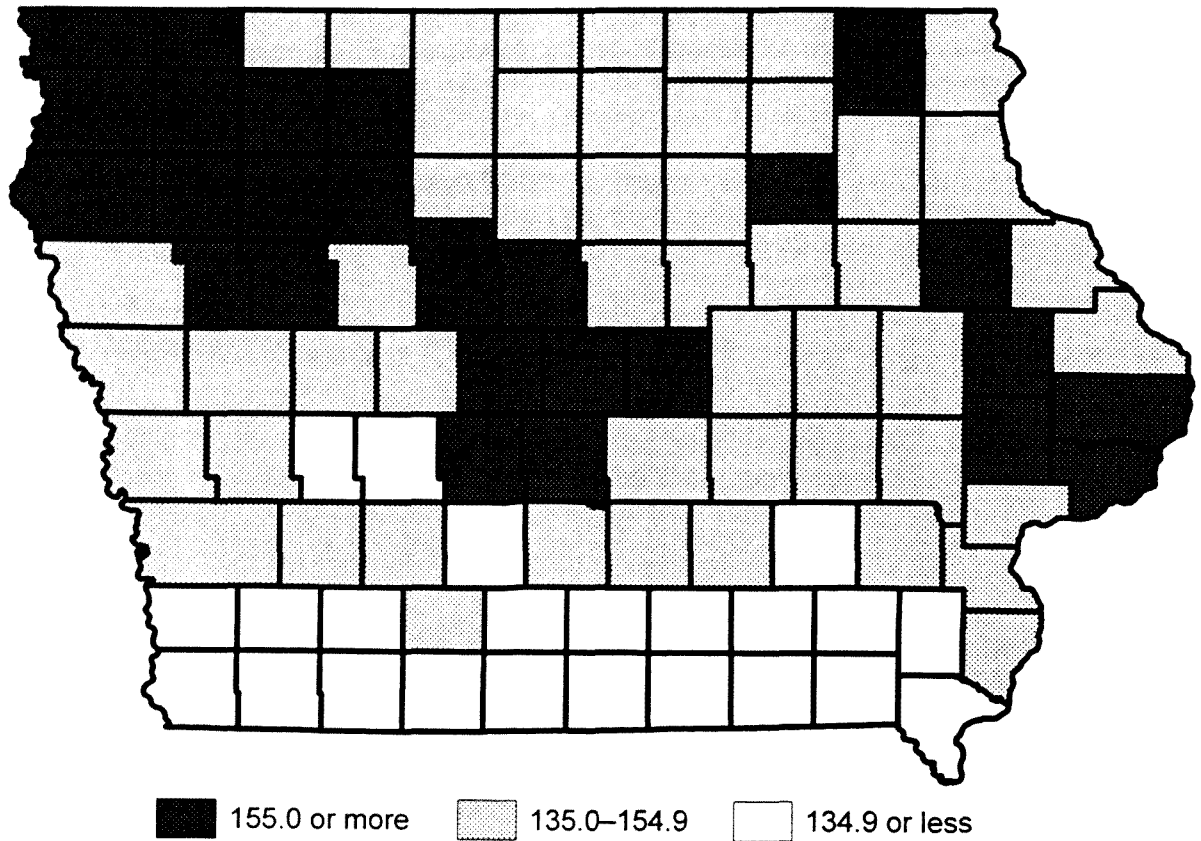
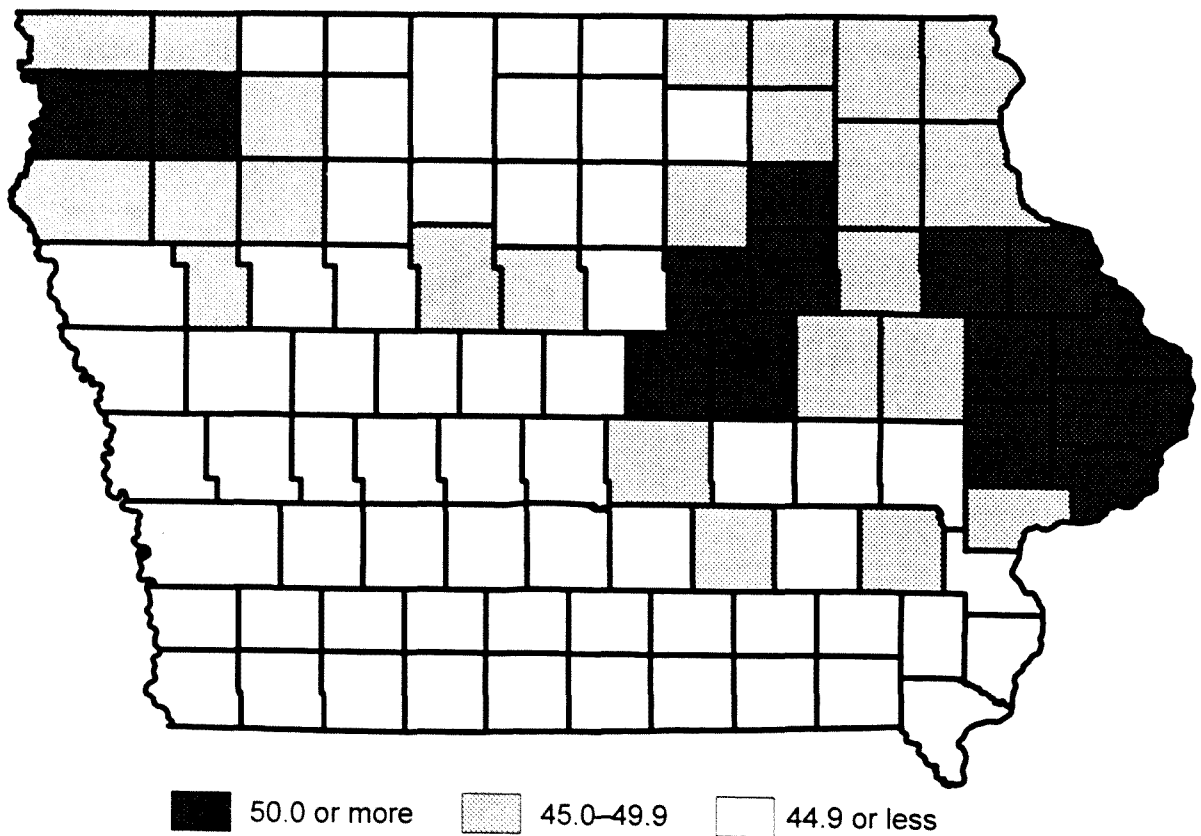


Figure 4. Estimated bushels of soybeans per acre, 1999.



## Vehicles Registered in Iowa's Counties: 1984 and 1989-1999

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The Iowa Department of Transportation is charged with keeping records of vehicles registered in the State of Iowa. The two categories with the greatest numbers of vehicles are those for autos (Table 1) (59.5% of all registered) and trucks (Table 2) (23.7% of all registered) in 1999. The total number of vehicles listed for the state was nearly 3,540,000 in 1999, an increase of 522,000 from the 3,018,000 reported in 1989 (Table 3). The total includes buses, motor homes, motorcycles, mopeds, semi-trailers, regular trailers, travel trailers, truck tractors, and miscellaneous vehicles in addition to autos and trucks.

The number of autos registered in 1999 was nearly 261,000 higher than the number reported in 1989. In 1998, an all-time high was reached when nearly 2,119,000 autos were registered (Figure 1). The number of truck registrations reached a new high in 1999 (838,000). When 1989 and 1999 were compared, trucks increased by more than 170,000 (Figure 2).

Fewer than 10,000 automobiles were registered in 41 counties in 1999; more than 50,000 were recorded in eight others. Linn, Polk, and Scott were the only counties with more than 100,000, five (Adams, Audubon, Ringgold, Taylor, Wayne) were under 5,000. Only Adams and Pocahontas had fewer automobile registrations in 1999 than in 1989. Gains of 1,000 or more occurred in 54 counties; five of these increased by at least 10,000 (Johnson, Linn, Polk, Scott, Woodbury).

Truck registrations also varied by county in 1999, with 41 reporting fewer than 5,000 and 21 with 10,000 or more. Increases between 1989 and 1999 ranged from less than 500 in 16 counties to more than 5,000 in Black Hawk, Linn, Polk, Scott, and Woodbury.

Total vehicle registrations in 1999 ranged widely across the state. Polk's total of nearly 399,000 was more than twice the number in every county except Linn (210,000). Black Hawk, Pottawattamie, Scott, and Woodbury also had at least 100,000 registered vehicles. Five counties reported fewer than 10,000 vehicles, although only two (Adams, Ringgold) were under 9,000. Between 1989 and 1999, all counties had increases in the total number of vehicles registered. Gains exceeded 20,000 in Johnson, Linn, Polk, and Scott.

Autos comprised at least 60 percent of all vehicles in 11 counties; all were urban counties, with the greatest percentage (70.2) in Polk, which has the highest population in the state. Perhaps as expected, trucks accounted for a higher percentage of registered vehicles in rural counties; in 14 counties, at least 30 percent of all vehicles were trucks. For the most part, these counties were in southern Iowa; the highest percentages (33.1) were in Adams and Ringgold.

**Note:** See an annual publication called VEHICLE FLEET SUMMARY for more detailed information on vehicles (Iowa Department of Transportation, Office of Vehicle Registration, Park Fair Mall, 100 Euclid Ave., Des Moines, IA 50306-9204).

Table 1. Automobile Registrations in Iowa's Counties, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	5761	5778	5675	5617	5566	5509	5480	5503	5504	5451	5382	5323
Adams	3249	3269	3221	3146	3163	3221	3285	3250	3271	3293	3308	3287
Allamakee	10271	10233	9954	9574	9263	9154	9210	9192	9049	8963	8796	8182
Appanoose	9842	10142	9903	9701	9659	9629	9534	9394	9229	9085	8867	8304
Audubon	4746	4801	4765	4707	4640	4568	4591	4638	4670	4694	4695	4839
Benton	17648	17653	17133	16583	16285	15992	15792	15494	15326	15087	14782	13197
Black Hawk	89115	89687	88066	86694	86744	86043	85562	84951	84421	82961	81398	81044
Boone	18786	18885	18344	18117	17896	17683	17686	17571	17393	17081	16938	14964
Bremer	16374	16412	16256	15889	15816	15676	15581	15477	15436	15269	15025	14408
Buchanan	13878	14019	13718	13417	13365	13293	13144	13095	12995	12872	12646	12121
Buena Vista	14041	14260	13954	13682	13607	13434	13397	13388	13249	13059	12812	12708
Butler	11525	11582	11380	11283	11291	11101	11126	11112	11051	10983	10812	10307
Calhoun	8031	8192	8048	7994	7929	7906	7901	7825	7802	7851	7808	7841
Carroll	15421	15578	15121	14789	14637	14369	14364	14245	13950	13871	13686	13352
Cass	10764	10996	10667	10411	10450	10350	10455	10440	10440	10502	10434	10769
Cedar	13226	13284	12936	12617	12505	12354	12278	12259	12070	11901	11699	10698
Cerro Gordo	34588	34821	34344	33875	33797	33365	32870	32717	32675	32535	32338	31248
Cherokee	9946	10063	10087	9967	10026	10046	10072	9906	9887	9726	9594	9633
Chickasaw	9885	9889	9721	9573	9527	9498	9491	9530	9504	9345	9225	9028
Clarke	6336	6306	5964	5770	5775	5694	5532	5494	5425	5363	5317	4887
Clay	13339	13457	13276	12900	12783	12660	12502	12531	12406	12314	12086	11804
Clayton	13374	13528	13218	12698	12636	12363	12209	12235	12049	11876	11590	11247
Clinton	35869	36515	35864	35412	34862	34567	34321	34276	33943	33369	32714	33495
Crawford	11992	11984	11612	11248	11224	11093	11171	11101	11040	10940	10881	10905
Dallas	26650	26264	24790	23831	23088	22770	22048	21603	21032	20756	20272	18080
Davis	5355	5534	5450	5350	5302	5358	5285	5227	5295	5266	5248	5179
Decatur	5318	5452	5217	5093	5084	5022	4992	4993	5033	5060	4947	4559
Delaware	12946	12949	12628	12184	12112	11958	11793	11671	11644	11554	11473	10430
Des Moines	30588	30872	30112	29629	29875	29713	29514	29760	29594	29344	28853	27856
Dickinson	12707	12755	12325	12041	11772	11568	11475	11311	11062	10512	10310	9391
Dubuque	62430	62525	60931	58959	59313	58651	57570	57192	56199	54753	53979	52209
Emmet	8053	8223	8081	7978	8006	7993	7981	7997	7911	7799	7646	7619
Fayette	15594	15676	15431	15185	15218	15062	14890	14846	14776	14701	14463	13854
Floyd	12353	12378	12189	12216	12177	12119	12115	11984	11928	11869	11824	11688
Franklin	8326	8445	8343	8229	8203	8086	7996	8001	7916	7952	7845	7259
Fremont	5944	5941	5809	5724	5847	5819	5870	5870	5775	5686	5541	5298
Greene	7597	7699	7568	7369	7253	7117	7141	7130	7111	7065	7072	7191
Grundy	8962	9008	8983	8921	8837	8718	8640	8642	8565	8507	8398	8363
Guthrie	8449	8514	8247	8127	8071	7887	7839	7747	7554	7474	7363	6793
Hamilton	12031	12080	11865	11804	11781	11747	11636	11531	11485	11433	11340	10780
Hancock	9105	9057	8847	8653	8546	8409	8417	8465	8477	8560	8526	8057
Hardin	13811	13923	13679	13510	13511	13427	13161	13116	13110	13075	12890	13069
Harrison	11671	11877	11379	10863	10896	10668	10715	10543	10414	10261	9911	9379
Henry	13255	13338	12899	12554	12583	12363	12287	12083	12081	11806	11479	10709
Howard	7528	7553	7380	7181	7106	7026	6926	6871	6898	6710	6539	6283
Humboldt	7978	8038	7963	7823	7781	7676	7736	7664	7660	7673	7601	7395
Ida	5915	5894	5898	5815	5847	5803	5760	5783	5691	5755	5628	5263
Iowa	11431	11413	11067	10777	10793	10575	10440	10392	10160	9977	9878	9392
Jackson	14637	14769	14373	13883	13729	13725	13443	13401	13335	13195	12807	12105
Jasper	25937	26097	25216	24963	24846	24523	24673	24568	24348	24278	23919	21949

Table 1. Automobile Registrations in Iowa's Counties, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	11971	12148	11803	11590	11657	11623	11565	11511	11462	11380	10957	10325
Johnson	68004	67266	64522	61711	61177	59697	58305	57125	55877	54317	52539	44503
Jones	13785	13843	13544	13011	13101	12901	12766	12632	12494	12340	12151	11104
Keokuk	8071	8142	7933	7826	7843	7789	7733	7711	7778	7732	7704	7417
Kossuth	13272	13326	13061	12919	13017	12915	12930	12965	13042	13205	13137	13165
Lee	27200	27689	26840	26076	26498	26424	26316	26282	26158	25860	25439	24563
Linn	140587	140028	134841	132164	129855	127723	125930	123789	122551	119665	117698	103466
Louisa	8504	8552	8358	8153	8161	8030	7993	7940	7834	7612	7504	6600
Lucas	6177	6304	6232	6128	6001	6049	6004	5950	5967	5943	5847	5708
Lyon	9154	9107	8876	8651	8385	8358	8279	8205	8050	7850	7696	7578
Madison	9487	9523	9196	9028	8753	8551	8450	8344	8286	8163	7999	7041
Mahaska	15374	15443	14976	14719	14556	14428	14361	14169	14102	13905	13672	12868
Marion	22337	22187	21346	20720	20512	20272	19823	19465	19065	18872	18495	16880
Marshall	28380	28620	27840	27518	27738	27533	27176	27112	27095	26867	26584	25453
Mills	10653	10990	10517	10132	9754	9403	9407	9269	8916	8728	8513	7468
Mitchell	8003	7979	7988	7828	7720	7715	7685	7668	7624	7569	7435	7185
Monona	7406	7506	7272	7115	7130	7038	7108	7039	6857	6796	6681	6278
Monroe	6000	6087	5898	5735	5721	5549	5569	5457	5336	5359	5318	5119
Montgomery	8427	8592	8540	8243	8339	8384	8370	8234	8188	8244	8169	7782
Muscatine	29464	29697	29079	28494	28471	28357	28049	27874	27414	26746	26135	24652
O'Brien	11303	11396	11270	11016	10870	10755	10636	10558	10463	10376	10146	10262
Osceola	5261	5258	5184	5139	5118	5054	5058	5098	5007	4859	4823	4743
Page	11494	11773	11522	11226	11357	11228	11169	11136	11000	11098	11013	10645
Palo Alto	7105	7158	7136	7012	6933	6908	6911	6936	6914	6904	6848	7038
Plymouth	17882	17734	17580	16826	16504	16247	16189	15937	15547	15117	14777	14665
Pocahontas	6607	6638	6605	6477	6486	6424	6580	6535	6593	6702	6705	6752
Polk	279867	279712	267779	260254	255650	252631	248409	243786	239108	234947	228496	217427
Pottawattamie	66539	69286	66427	64488	63214	62540	62575	62209	61339	60328	59648	55852
Poweshiek	12686	12673	12483	12283	12266	12090	12027	12056	12045	12017	11867	10971
Ringgold	3706	3727	3663	3519	3534	3478	3546	3557	3551	3562	3450	3345
Sac	8335	8406	8343	8252	8245	8172	8199	8190	8166	8237	8180	8168
Scott	120983	122650	119273	113825	114810	113090	109503	110807	107668	106397	103022	96996
Shelby	9413	9528	9431	9193	9115	9133	9018	9048	8999	9027	9008	8716
Sioux	20931	20800	20092	19458	19207	18904	18606	18191	17700	17346	16916	16624
Story	49027	48743	47249	46045	45331	44396	43977	43414	42777	41938	41213	36172
Tama	12756	12900	12646	12521	12618	12364	12161	11917	11837	11808	11717	11126
Taylor	4958	5024	4870	4712	4753	4716	4684	4690	4710	4697	4723	4513
Union	8927	9037	8868	8666	8705	8609	8631	8636	8622	8658	8498	7794
Van Buren	5384	5430	5323	5171	5193	5148	5067	5019	5006	5000	4930	4699
Wapello	25549	25893	25354	24859	24949	24992	25023	24656	24247	23878	23674	22502
Warren	27387	27310	26263	25814	25373	25198	25053	24568	24309	23992	23474	20504
Washington	14129	14212	13982	13631	13486	13286	13183	13130	12949	12871	12562	11718
Wayne	4784	4928	4899	4766	4796	4755	4717	4651	4703	4658	4594	4458
Webster	28578	28717	28121	27594	27681	27687	27613	27454	27295	27252	27019	26669
Winnebago	9038	8999	8887	8737	8706	8739	8684	8630	8620	8658	8579	8063
Winneshiek	14161	14087	13622	13297	13138	13010	12958	12851	12814	12583	12414	11683
Woodbury	74967	77243	74925	73359	72437	70188	69254	67924	66535	64862	63111	58054
Worth	6036	6104	5971	5929	5862	5817	5683	5750	5705	5696	5694	5471
Wright	10353	10557	10356	10210	10215	10139	9834	9756	9758	9780	9730	9537
Official	12167	11858	11266	10665	10980	10548	10172	9925	9698	9516	9189	7791
Unknown	367	391	357	334	343	327	323	353	356	386	412	1445
State of Iowa	2105514	2118809	2058306	2007365	1993287	1968663	1947159	1930124	1905976	1879715	1844690	1743299

Table 2. Truck Registrations in Iowa's Counties, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	3665	3722	3578	3525	3484	3417	3411	3407	3335	3314	3280	3117
Adams	2217	2199	2094	2042	2047	2043	2032	2003	1988	2032	2038	1921
Allamakee	5160	5072	4853	4671	4541	4548	4488	4439	4329	4296	4172	3780
Appanoose	5263	5315	5143	4970	4931	4774	4700	4568	4508	4417	4329	3986
Audubon	2932	2895	2805	2693	2658	2622	2598	2615	2625	2645	2596	2534
Benton	8940	8827	8314	7979	7664	7469	7259	7089	6967	6784	6600	6206
Black Hawk	26629	26529	25472	24648	24120	23704	23117	22705	22288	21816	21233	21789
Boone	8226	8249	7973	7745	7468	7326	7148	6982	6815	6624	6523	5532
Bremer	7007	6916	6677	6518	6377	6182	6023	5947	5855	5767	5649	5297
Buchanan	6838	6768	6530	6293	6196	6007	5887	5824	5747	5622	5515	5252
Buena Vista	6045	6035	5812	5637	5460	5377	5283	5212	5158	5049	4980	4858
Butler	5758	5743	5607	5433	5265	5070	5016	4965	4908	4805	4745	4764
Calhoun	3993	3975	3795	3764	3708	3573	3530	3519	3553	3553	3509	3578
Carroll	7084	7037	6846	6608	6377	6257	6173	6028	5927	5862	5773	5614
Cass	5853	5822	5581	5398	5267	5172	5135	5091	5034	5022	4929	4963
Cedar	6643	6587	6359	6033	5887	5804	5672	5534	5478	5328	5274	5018
Cerro Gordo	11460	11367	11026	10565	10298	10073	9807	9700	9638	9542	9383	9141
Cherokee	4868	4889	4797	4630	4554	4497	4380	4312	4300	4226	4161	4202
Chickasaw	4706	4668	4487	4321	4085	3990	3902	3852	3827	3816	3732	3685
Clarke	3402	3410	3216	3077	3014	2949	2902	2864	2837	2812	2772	2499
Clay	5572	5528	5335	5167	4960	4815	4698	4677	4595	4606	4486	4358
Clayton	7112	7103	6772	6556	6434	6378	6293	6201	6126	5987	5950	5723
Clinton	13873	13887	13273	12904	12444	12100	11748	11643	11496	11225	10899	10680
Crawford	6257	6198	5917	5753	5785	5661	5638	5559	5510	5441	5398	5187
Dallas	10259	10189	9622	9367	9123	8895	8725	8501	8397	8271	8074	7329
Davis	3498	3518	3373	3196	3139	3074	3000	2911	2868	2833	2783	2601
Decatur	3326	3300	3137	3018	2962	2929	2918	2873	2868	2896	2830	2529
Delaware	6271	6184	5925	5678	5541	5354	5269	5127	5092	4952	4866	4617
Des Moines	12018	11925	11399	11123	10941	10662	10344	10197	10106	9855	9595	8980
Dickinson	5176	5140	4879	4715	4595	4453	4357	4185	4070	3969	3830	3698
Dubuque	18392	18078	17204	16587	16376	15801	15143	14748	14418	14155	13810	13405
Emmet	3919	3932	3867	3673	3569	3490	3433	3377	3314	3236	3201	3274
Fayette	7133	7077	6809	6682	6463	6369	6197	6106	6039	5977	5850	5572
Floyd	5561	5515	5393	5259	5134	5054	4921	4869	4794	4693	4607	4620
Franklin	4122	4115	4014	3901	3796	3744	3676	3629	3579	3561	3564	3315
Fremont	3913	3937	3764	3583	3585	3531	3536	3492	3433	3310	3286	3240
Greene	4103	4106	4000	3938	3896	3885	3828	3707	3650	3550	3520	3715
Grundy	4465	4449	4241	4101	4024	3861	3803	3742	3730	3613	3566	3595
Guthrie	4559	4551	4313	4208	4069	3963	3921	3812	3788	3680	3624	3476
Hamilton	5567	5541	5362	5205	5082	4938	4788	4693	4658	4667	4644	4603
Hancock	4414	4334	4184	4036	3904	3802	3735	3674	3703	3696	3622	3625
Hardin	6568	6570	6289	6091	5919	5769	5602	5504	5393	5353	5288	5329
Harrison	6726	6734	6357	6093	5907	5761	5707	5584	5443	5328	5177	4959
Henry	6676	6669	6405	6083	6072	6007	5833	5709	5638	5532	5384	4850
Howard	3721	3686	3547	3409	3336	3256	3185	3086	3081	3029	3004	2965
Humboldt	3725	3695	3561	3454	3384	3346	3283	3273	3307	3351	3308	3320
Ida	3209	3220	3190	3078	2998	2959	2969	2939	2919	2934	2843	2762
Iowa	6453	6312	5904	5583	5406	5273	5150	5046	5006	4909	4813	4437
Jackson	7058	6997	6745	6470	6329	6102	5925	5849	5780	5671	5480	5335
Jasper	11285	11241	10695	10449	10214	10002	9744	9643	9540	9512	9344	8551



Table 2. Truck Registrations in Iowa's Counties, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	4796	4813	4719	4609	4554	4493	4406	4330	4232	4152	4080	4128
Johnson	17634	17272	16485	15801	15530	14871	14364	13879	13494	13223	12913	11554
Jones	6604	6493	6303	6093	5925	5890	5758	5607	5521	5439	5362	5173
Keokuk	4849	4844	4653	4509	4395	4381	4277	4243	4181	4165	4146	3998
Kossuth	6398	6347	6146	5944	5825	5771	5675	5628	5616	5684	5573	5617
Lee	12340	12397	11864	11373	11300	10924	10564	10399	10155	9962	9736	9243
Linn	41198	40638	38457	37085	35999	34939	33564	32610	31757	31069	30316	26580
Louisa	4794	4771	4547	4435	4391	4225	4152	4109	4013	3945	3865	3607
Lucas	3642	3635	3450	3327	3266	3225	3223	3197	3140	3076	3011	2881
Lyon	4257	4232	4102	3967	3804	3786	3780	3713	3700	3634	3507	3495
Madison	5576	5512	5198	5001	4851	4772	4650	4563	4549	4480	4371	3860
Mahaska	7729	7740	7373	7110	6854	6718	6522	6396	6309	6224	6042	5605
Marion	10000	9863	9408	9115	8870	8738	8515	8376	8157	7933	7775	6946
Marshall	11329	11310	10617	10296	10090	10019	9616	9485	9388	9243	8988	8746
Mills	5730	5702	5391	5124	4873	4684	4531	4433	4314	4188	4127	3661
Mitchell	4031	4023	3910	3789	3648	3572	3509	3420	3378	3338	3243	3200
Monona	4345	4422	4244	4143	4097	4090	4128	4062	3993	4000	3921	3854
Monroe	3192	3227	3110	2991	2909	2893	2787	2791	2731	2695	2617	2571
Montgomery	4546	4555	4377	4217	4149	4135	4124	4087	3991	3955	3892	3649
Muscatine	12214	12160	11659	11214	10957	10822	10547	10377	10077	9937	9627	8918
O'Brien	4875	4890	4804	4647	4450	4314	4286	4240	4183	4179	4100	4016
Osceola	2835	2825	2767	2673	2603	2586	2529	2575	2529	2469	2466	2334
Page	5984	6033	5728	5460	5364	5274	5166	5025	4972	4885	4790	4609
Palo Alto	3577	3594	3532	3384	3354	3281	3219	3186	3164	3117	3104	3185
Plymouth	8198	8055	7766	7381	7230	7039	6800	6746	6588	6435	6207	6154
Pocahontas	3285	3291	3188	3151	3025	2984	2987	2992	3010	3023	3012	2937
Polk	72752	72097	67824	64241	61942	60410	58475	56562	55441	54131	52148	48729
Pottawattamie	25823	26311	24631	23613	22946	22455	22075	21848	21615	21515	21345	18771
Poweshiek	6906	6816	6630	6363	6179	6036	5962	5893	5778	5708	5655	5211
Ringgold	2551	2567	2466	2374	2344	2272	2244	2234	2237	2221	2199	2118
Sac	4542	4517	4474	4387	4261	4157	4120	4098	4055	4015	3915	3854
Scott	33290	33155	31305	29387	28875	28197	27325	27429	26601	25978	24869	22916
Shelby	5080	5102	4945	4767	4714	4615	4574	4543	4478	4426	4324	4096
Sioux	9123	9033	8671	8281	8033	7892	7752	7625	7431	7242	6993	6783
Story	14261	13956	13310	12888	12483	12079	11822	11510	11281	11072	10837	9752
Tama	6701	6736	6574	6359	6352	6259	6090	5949	5847	5782	5673	5471
Taylor	3047	3060	2913	2816	2745	2701	2620	2580	2556	2580	2579	2562
Union	4689	4687	4488	4332	4262	4190	4142	4054	3990	3955	3806	3548
Van Buren	3409	3429	3306	3164	3116	3065	3035	2966	2848	2806	2781	2621
Wapello	10920	10930	10334	10013	9730	9629	9399	9190	9028	8717	8551	8490
Warren	11604	11464	10821	10447	10206	9907	9547	9331	9170	8970	8795	7942
Washington	6991	6968	6718	6414	6247	6101	5932	5789	5768	5647	5547	5202
Wayne	3000	3017	2988	2899	2838	2789	2770	2728	2691	2665	2568	2512
Webster	11452	11261	10802	10361	10060	9899	9697	9578	9421	9351	9216	9342
Winnebago	4006	3984	3843	3802	3725	3785	3686	3639	3560	3589	3555	3323
Winneshiek	6825	6745	6462	6123	6030	5977	5904	5838	5718	5710	5564	5283
Woodbury	24593	24873	23670	22782	22138	21391	20916	20381	20063	19790	19577	17788
Worth	3126	3108	3012	2951	2856	2798	2740	2724	2694	2676	2657	2545
Wright	4765	4790	4593	4463	4311	4209	4085	4129	4120	4067	4043	4102
Official	22958	22745	22259	21900	22779	22474	22278	22280	22077	21842	21439	18728
Unknown	215	237	185	295	392	455	502	534	529	541	617	446
State of Iowa	838207	833988	797463	768171	750665	734256	717203	704913	693597	682570	667883	631042

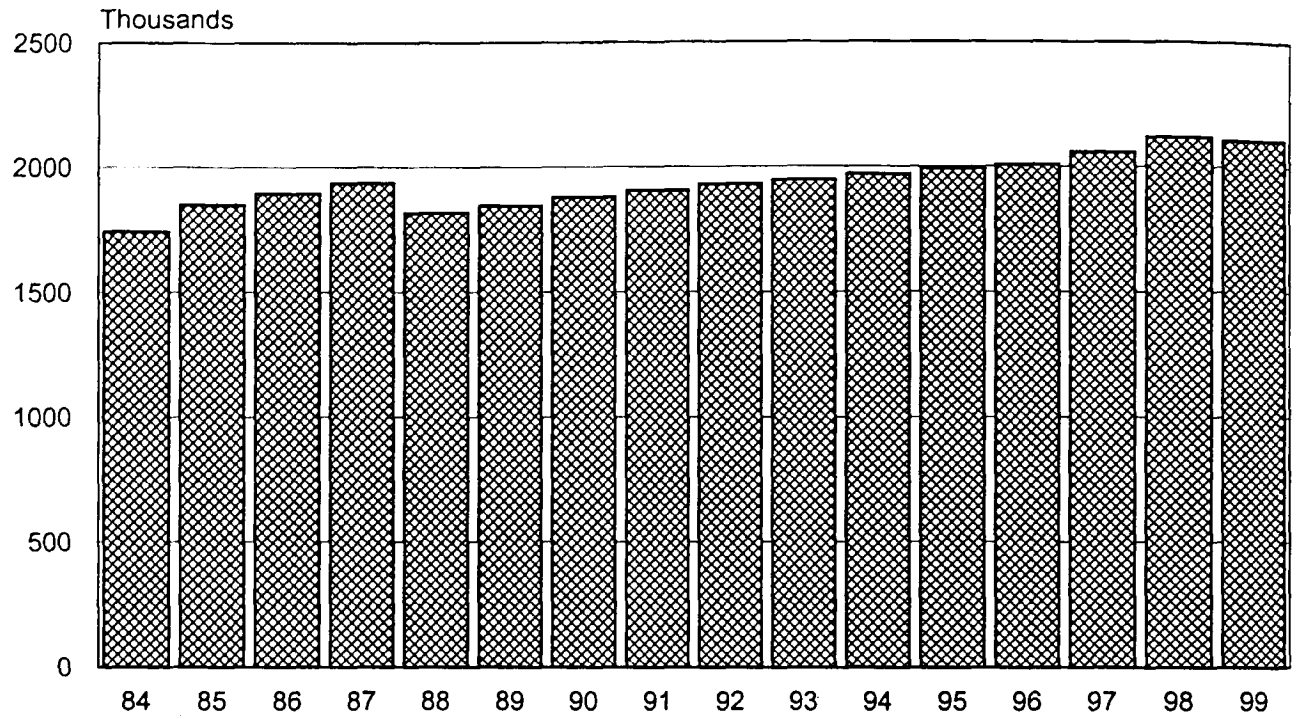
Table 3. Total Vehicle Registrations in Iowa's Counties, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	11640	11705	11416	11253	11112	10922	10870	10851	10755	10680	10619	10469
Adams	6696	6665	6458	6305	6258	6245	6270	6208	6265	6359	6355	6146
Allamakee	19375	19186	18505	17863	17347	17129	17042	16940	16696	16529	16163	15164
Appanoose	18318	18712	18197	17694	17600	17394	17168	16820	16528	16300	15972	15506
Audubon	9584	9586	9375	9084	8936	8791	8792	8798	8850	8868	8773	8963
Benton	33042	32730	31276	30072	29431	28238	27561	27130	26652	26174	25611	22867
Black Hawk	137007	137450	134113	131446	130666	129355	128149	127164	126134	124398	122376	127537
Boone	33282	33364	32322	31690	30981	29844	29536	29219	28816	28337	28225	24997
Bremer	29519	29422	28697	27981	27622	27174	26873	26605	26426	26149	25735	25030
Buchanan	26089	26168	25391	24644	24424	24053	23740	23706	23471	23147	22766	22180
Buena Vista	24941	25134	24433	23881	23507	23218	23067	22979	22788	22511	22256	22584
Butler	22123	22043	21584	21157	20888	20414	20294	20210	20059	19868	19604	19238
Calhoun	15188	15318	14919	14781	14637	14426	14372	14265	14235	14278	14180	14507
Carroll	27235	27267	26433	25686	25166	24651	24540	24231	23888	23642	23355	23950
Cass	20351	20530	19793	19277	19138	18947	18971	18908	18840	18873	18709	19420
Cedar	24768	24720	23916	23090	22601	21803	21565	21310	21042	20746	20506	18664
Cerro Gordo	55639	55713	54488	53287	52606	51783	50865	50595	50479	50205	49918	49062
Cherokee	18728	18874	18648	18247	18246	18204	18064	17764	17735	17456	17220	17684
Chickasaw	19042	18873	18315	17829	17393	17129	16971	16962	16837	16616	16350	16154
Clarke	11807	11761	11062	10628	10531	10368	10109	10004	9933	9845	9764	9007
Clay	23861	23939	23363	22669	22156	21370	20974	20926	20653	20490	20071	19571
Clayton	25747	25892	25080	24213	23961	23569	23218	23145	22872	22541	22152	21324
Clinton	59844	60456	58929	57900	56758	55994	55399	55319	54829	54044	53050	54522
Crawford	22168	22057	21289	20649	20602	20306	20305	20143	20039	19849	19819	20071
Dallas	44321	43702	41248	39807	38592	37261	36296	35581	34872	34476	33796	30839
Davis	10922	11089	10702	10318	10173	10137	9948	9754	9759	9696	9606	9446
Decatur	10610	10734	10281	9951	9858	9712	9624	9572	9614	9632	9441	8904
Delaware	23662	23532	22720	21848	21596	21132	20772	20405	20320	20032	19805	18408
Des Moines	51414	51579	49946	49116	49081	48541	47978	48167	47924	47567	46907	46956
Dickinson	23657	23549	22574	21838	21257	20692	20390	19963	19499	18732	18333	17493
Dubuque	94045	93791	90641	87502	87520	86000	83988	83241	81919	80167	79147	78764
Emmet	15538	15692	15355	14985	14867	14718	14612	14571	14380	14164	13944	14317
Fayette	28148	28160	27475	27059	26790	26470	26074	25875	25734	25531	25146	24687
Floyd	22583	22575	22101	21914	21636	21402	21220	20965	20741	20535	20369	20507
Franklin	15654	15853	15499	15182	14919	14376	14161	14094	13980	14010	13938	12955
Fremont	11987	12012	11608	11197	11272	11097	11077	10967	10752	10499	10313	10149
Greene	14759	14896	14550	14158	13934	13738	13669	13517	13435	13280	13287	13940
Grundy	17222	17156	16737	16436	16216	15872	15692	15594	15519	15319	15146	15308
Guthrie	16415	16361	15701	15344	14967	14634	14468	14257	14001	13780	13591	12932
Hamilton	22382	22388	21847	21513	21159	20821	20450	20248	20191	20075	19990	19834
Hancock	17451	17271	16804	16334	15990	15619	15451	15417	15486	15528	15440	14930
Hardin	25475	25560	24890	24422	24229	23967	23404	23226	23119	23099	22877	23708
Harrison	22273	22459	21330	20311	19807	19076	18929	18602	18337	18064	17524	16735
Henry	24288	24363	23462	22636	22625	22283	22007	21618	21508	21063	20556	19528
Howard	14267	14212	13716	13287	13068	12849	12618	12384	12360	12082	11875	11485
Humboldt	15235	15268	14972	14608	14450	14226	14199	14054	14070	14069	13860	13819
Ida	11627	11659	11484	11195	11094	10952	10896	10867	10754	10813	10546	10090
Iowa	21896	21627	20565	19891	19663	19140	18811	18546	18294	17996	17751	16760
Jackson	26859	26907	26026	25104	24718	24328	23770	23585	23376	23123	22478	21655
Jasper	45696	45714	43937	43309	42900	42133	41884	41605	41264	41205	40702	38720

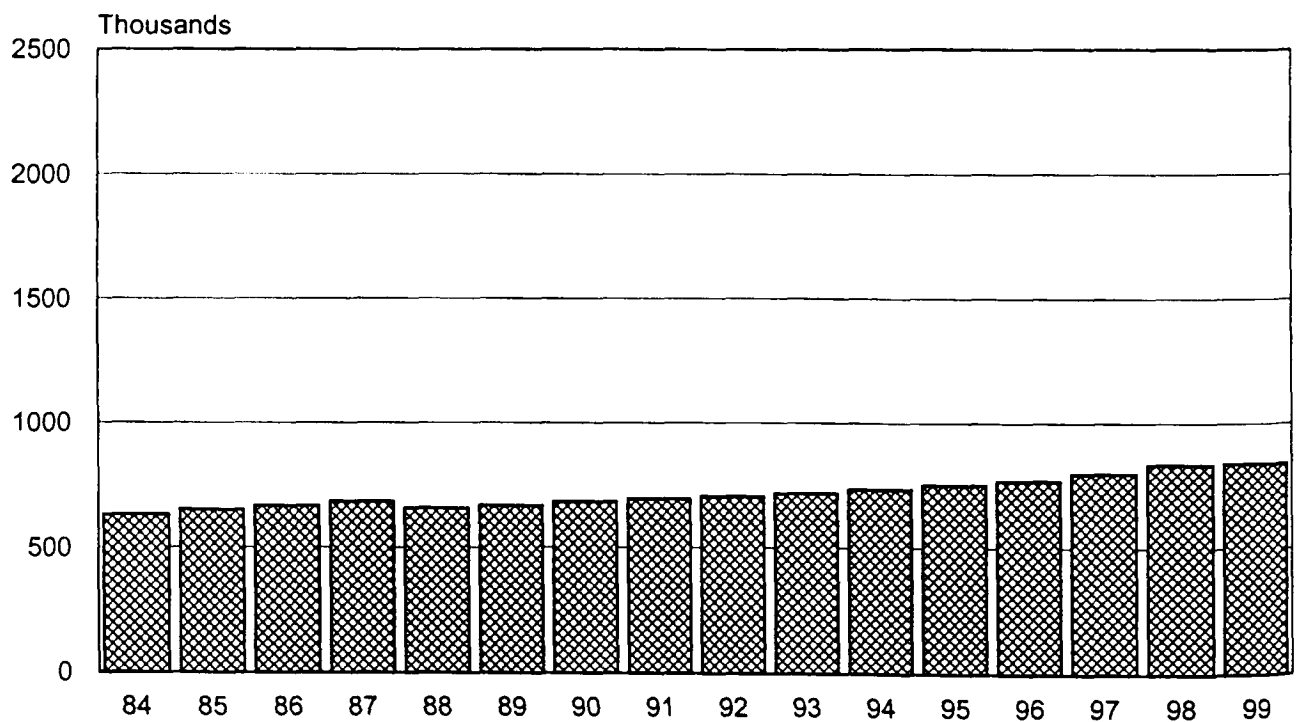
Table 3. Total Vehicle Registrations in Iowa's Counties, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	20202	20391	19800	19427	19419	19303	19061	18884	18748	18604	18046	17863
Johnson	98200	97002	92975	89030	87988	85519	83470	81727	80092	78101	75896	67185
Jones	25116	25001	24293	23322	23139	22823	22503	22168	21913	21621	21273	20110
Keokuk	15849	15862	15380	15064	14906	14771	14541	14463	14450	14436	14422	14173
Kossuth	25070	24960	24168	23591	23429	23194	23070	23039	23144	23337	23130	23677
Lee	47290	47840	46127	44539	44281	43493	42978	42883	42420	41999	41420	39934
Linn	210270	208707	199915	195148	191293	187753	184363	181401	179232	175588	173052	156913
Louisa	16525	16548	15975	15609	15536	15170	15027	14920	14720	14426	14174	13003
Lucas	12325	12439	12021	11676	11473	11454	11327	11236	11176	11103	10934	11032
Lyon	16960	16828	16370	15860	15336	15244	15161	15032	14798	14457	14171	13918
Madison	18540	18417	17562	17068	16592	16225	15852	15639	15562	15274	14960	13565
Mahaska	28601	28621	27558	26935	26416	26104	25774	25416	25232	25015	24606	23804
Marion	39542	39114	37449	36302	35668	35089	34292	33810	33092	32638	32035	29754
Marshall	47889	48047	46104	45175	45054	44642	43792	43700	43686	43401	43012	42972
Mills	19542	19763	18811	18014	17224	16613	16373	16122	15608	15279	14917	13479
Mitchell	15175	15087	14855	14483	14149	13980	13819	13673	13569	13453	13199	12936
Monona	14381	14588	14093	13728	13616	13477	13483	13336	13115	13080	12860	12282
Monroe	11318	11449	11045	10709	10540	10286	10101	9969	9732	9696	9538	9467
Montgomery	15631	15844	15545	14966	14843	14599	14569	14413	14210	14250	14089	13465
Muscatine	50353	50674	49347	48182	47847	47521	46946	46730	45973	45198	44277	42942
O'Brien	20934	21014	20642	20099	19657	19376	19161	19004	18833	18682	18321	18670
Osceola	10519	10508	10256	10005	9884	9738	9639	9743	9540	9314	9234	9001
Page	20980	21295	20598	19940	19978	19684	19390	19189	18970	18971	18825	18458
Palo Alto	13411	13443	13237	12866	12733	12599	12509	12450	12391	12335	12286	12857
Plymouth	32617	32168	31533	30139	29456	28764	28237	27778	27083	26395	25693	25504
Pocahontas	12735	12764	12558	12300	12190	12028	12192	12130	12125	12282	12265	12425
Polk	398626	397718	379466	365218	358001	352882	345987	339445	333645	328135	319830	313107
Pottawattamie	105702	108960	103817	100498	98376	97080	96718	96388	95455	94355	93458	88647
Poweshiek	24545	24336	23857	23210	22866	22453	22273	22220	22068	21976	21750	20322
Ringgold	7708	7710	7550	7268	7233	7072	7105	7125	7117	7097	6930	6827
Sac	16304	16343	16109	15793	15558	15319	15252	15186	15103	15126	14944	14917
Scott	175549	176939	170340	162216	162538	159941	155230	156817	152714	150730	146623	140786
Shelby	17877	17986	17577	16996	16772	16602	16464	16474	16299	16263	16083	15836
Sioux	38805	38425	37052	35581	34843	34247	33675	33026	32119	31511	30674	29909
Story	73382	72736	70224	68342	67106	65674	64996	64186	63297	62339	61417	54316
Tama	23876	24097	23502	23044	23079	22696	22388	21987	21781	21660	21457	20901
Taylor	9786	9835	9476	9130	9095	9013	8850	8791	8832	8827	8867	8983
Union	16712	16740	16261	15854	15799	15607	15566	15524	15469	15456	15141	14253
Van Buren	11008	11032	10736	10404	10324	10208	10037	9886	9679	9581	9440	9087
Wapello	44031	44331	42887	41894	41578	41458	41205	40555	39963	39235	38979	38996
Warren	47097	46660	44494	43477	42662	42095	41411	40644	40202	39740	39170	35913
Washington	25850	25807	25174	24378	23981	23578	23157	22964	22757	22508	22170	21449
Wayne	9435	9584	9486	9226	9169	9078	8985	8893	8877	8814	8628	8582
Webster	48251	48124	46666	45467	45074	44715	44338	44024	43540	43377	43037	44589
Winnebago	16665	16573	16194	15830	15631	15760	15489	15384	15270	15325	15193	14348
Winneshiek	25497	25283	24275	23428	23133	22830	22655	22449	22248	21934	21578	20799
Woodbury	115120	117760	113642	110784	108762	105318	103638	101624	100127	98031	96166	90801
Worth	11778	11800	11440	11241	10954	10786	10544	10565	10458	10388	10366	10015
Wright	19344	19567	18985	18506	18237	17667	17178	17084	17243	17099	17098	16542
Official	51731	50783	49445	47888	50376	49144	48047	47680	46850	45861	44837	37344
Unknown	632	678	588	699	872	841	896	966	968	1092	1167	18870
State of Iowa	3539666	3543855	3421633	3321140	3279614	3224016	3176817	3145619	3107525	3067837	3017555	2933014

**Figure 1. Automobile registrations in Iowa, 1984–1999.**



**Figure 2. Truck registrations in Iowa, 1984–1999.**



## Salaries of Elected Officials in Iowa's Counties: Fiscal Years 1990-2000

Margaret Hanson, Iowa State University  
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The Iowa State Association of Counties annually gathers information from county auditors regarding salaries of elected officials. Information is available on those elected to the roles of county attorney, auditor, recorder, sheriff, supervisor, and treasurer.

Large differences in salaries among certain categories of county officials (Figure 1) must be interpreted with caution. For example, attorneys serve part-time in some counties while their positions are thought of as full-time in others. The same can be said about supervisors; also, a differential is paid to the chairperson of the board of supervisors in some counties.

### County Attorneys

Salaries of county attorneys ranged from \$21,750 in Ringgold to \$119,436 in Polk in fiscal year 2000 (which ran from July of 1999 through June of 2000) (Table 1). This relatively great range indicates differences arising from part- versus full-time appointments, among other factors. Attorneys in 35 counties received salaries of \$50,000 or more that year, although they exceeded \$75,000 only in Black Hawk, Johnson, Linn, Polk, Scott, Story, and Woodbury. Only Ringgold was below \$25,000; eight others were less than \$30,000. Statewide, salaries for county attorneys averaged (mean) about \$47,000.

The position of county attorney experienced an average salary increase across the state of \$17,900 from 1990 to 2000. These averages jumped by at least \$1,000 each year. In only Dickinson was the 2000 salary lower than that reported in 1990. Gains in 11 others were less than \$10,000, although they grew by at least \$20,000 in 31 counties. Polk and Story had increases greater than \$40,000.

When adjusted for inflation, however, changes are less dramatic. The adjusted figures yield an average increase of \$8,300 from 1990 to 2000, which indicates that inflation eroded some of the purchasing power of the annual salary increases. In fact, in four counties, 1990 salaries adjusted for inflation were higher than the 2000 figures. Caution must be repeated, of course; changes could have occurred in the part/full status of this position in some counties.

### County Auditors

The average salary of Iowa's county auditors was nearly \$35,300 in 2000 (Table 2). Johnson, Linn, Polk, Scott, and Woodbury paid at least \$50,000 to those elected as auditors and another 12 counties were in the \$40,000-\$49,999 range. Only Ringgold allocated less than \$25,000 to this position; another 14 varied from \$25,000 to \$29,999.

Average salaries for auditors increased by \$11,500 between 1990 and 2000. In 6 of the 10 year-to-year comparisons, gains in the statewide average topped \$1,000. Increases ranged from less than \$7,000 in Decatur to more than \$17,000 in Jasper, Linn, Polk, Scott, Story, and Woodbury. When controlled for inflation, only Marshall reported a lower auditor salary in 2000 than in 1990. Although most (91) counties increased by at least \$1,000, only Polk and Woodbury had inflation-adjusted gains greater than \$10,000 across the years examined.

Table 1. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Attorneys in Iowa's Counties, Fiscal Years 1990-2000.

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Adair	34162	31762	28762	27392	26698	25971	25638	24891	24166	22929	20428	29108	27196
Adams	26773	25868	24993	23656	23316	23316	22206	22206	18505	17624	16626	26132	22135
Allamakee	29150	27500	26500	25675	24926	24200	23690	23690	23000	23000	19910	27123	26507
Appanoose	50292	49549	48454	47015	45909	44284	43138	41400	41400	40000	40000	49633	53253
Audubon	31484	30484	28984	28140	27433	26843	24993	24266	23111	21721	20687	30085	27541
Benton	57000	52495	49524	47619	46098	44275	41275	41275	39775	37000	36000	49623	47928
Black Hawk	76425	71425	68024	63243	61401	59903	57599	53821	53821	53821	51951	67139	69164
Boone	48656	46785	44986	43676	42404	40578	39300	39300	37800	36000	32700	45480	43534
Bremer	57025	41037	38353	36181	35127	33455	31862	30933	29000	26000	24000	37496	31952
Buchanan	51230	47230	46030	45030	44030	41780	41780	40280	39680	36680	33800	46827	44999
Buena Vista	39635	37783	35311	33312	32468	30630	30326	30326	30326	29160	27000	34330	35946
Butler	36504	34052	31069	30018	29144	28350	28350	27412	27412	25500	22300	31774	29689
Calhoun	49523	48315	46014	43004	41350	31350	31350	30750	30000	27500	25000	35137	33283
Carroll	38208	37041	35541	34174	33174	32208	30708	30708	30105	28948	27054	36099	36018
Cass	41180	39981	38816	37504	36450	29649	26647	25394	25394	24065	22465	33230	29908
Cedar	41324	39735	37881	36306	34251	32191	31253	30051	29176	26356	23680	36079	31526
Cerro Gordo	69500	67000	65000	60375	58500	54500	49024	46048	46011	42024	41200	61083	54851
Cherokee	38500	32000	32000	30138	29620	27160	26760	26265	25500	25000	23000	30441	30620
Chickasaw	36053	35228	34386	33035	31779	29558	28116	27366	27366	26241	24992	33128	33272
Clarke	35626	34506	31506	30797	29900	28476	27953	26775	25500	23856	23388	31916	31137
Clay	38217	36397	34663	33654	32674	31722	31039	30282	29400	28000	26717	35554	35569
Clayton	30826	28810	27702	26383	25127	24574	24574	23858	23164	22061	20618	27542	27449
Clinton	68606	67685	65918	64373	62864	62118	61200	60000	60000	35754	33415	69621	44486
Crawford	35918	35214	33537	32879	31615	29826	29240	28398	26782	24347	22969	33429	30579
Dallas	57200	55000	44978	63668	42396	41769	38539	38539	34156	34205	34205	46814	45538
Davis	31280	28780	27740	26880	25600	24903	23582	23120	21228	19471	18722	27911	24925
Decatur	29901	26698	22698	22252	21500	20874	20071	20071	19677	18563	17849	23395	23763
Delaware	48661	46790	44990	43680	42000	39384	38802	37672	36575	36575	35000	44141	46596
Des Moines	62690	59870	57662	53609	52697	48588	46042	46393	45000	32769	31298	54457	41668
Dickinson	37175	36442	35041	34020	32400	30000	44894	43586	42950	40552	38365	33624	51076
Dubuque	71339	68927	66276	63726	61870	59778	56130	53255	53225	50241	45620	66999	60735
Emmet	33785	32801	30195	27651	27651	26716	26192	25429	24809	23628	21551	29943	28691
Fayette	40400	39113	38250	37250	35417	35417	35417	34667	33657	31164	29400	39695	39141
Floyd	58443	54943	49843	45391	44501	43121	31482	31482	30595	29000	26221	48330	34909
Franklin	34800	32800	31179	30303	29503	28728	28008	24008	23422	21293	20277	32198	26995
Fremont	38236	35553	36040	34991	33291	32322	31079	30771	29771	28626	28626	36226	38111
Greene	49338	47338	46382	45317	42635	41270	40068	40068	37800	36000	32450	46255	43202
Grundy	35000	32700	30600	29100	28000	26600	25175	24425	23825	21825	20250	29813	26959
Guthrie	48600	46750	42500	42500	28366	27275	25925	25925	25000	23600	19676	30570	26195
Hamilton	44757	43857	42257	40757	39257	38287	37172	36528	34843	32843	31344	42912	41729
Hancock	32500	31200	30500	29361	28511	26711	26711	25711	25207	22807	21930	29938	29196
Hardin	36794	35550	33545	31950	37900	37900	37400	36300	35300	34200	32900	42478	43801
Harrison	38000	34680	33834	32690	31740	30380	28000	28000	26100	25100	24000	34050	31952
Henry	55488	54135	52560	50780	49420	47750	46125	45000	43500	41000	39380	53518	52428
Howard	29292	27292	26500	25500	24000	22929	22029	21654	20881	19887	18500	25699	24630
Humboldt	40000	36488	35000	34534	33528	32551	31581	30364	29916	27960	26756	36483	35621
Ida	28551	27719	26653	25877	24882	22216	22216	21933	21200	20000	18052	24900	24033
Iowa	36162	34939	31763	30689	29651	28511	27414	27414	26326	25075	23270	31955	30980
Jackson	52143	50141	48282	45706	43911	42823	42823	41575	40170	38774	36400	47996	48460
Jasper	66000	53000	52798	50058	48589	46364	44796	43073	43073	40634	38699	51964	51521

Table 1. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Attorneys in Iowa's Counties, Fiscal Years 1990-2000 (continued).

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Jefferson	47299	37050	35950	34700	33700	32550	31550	31250	30650	30650	29150	36482	38808
Johnson	83131	80710	77606	75162	72621	70165	67466	64872	63599	47177	44091	78640	58699
Jones	51299	49326	47430	45171	43253	41993	38883	38883	37750	37250	35750	47065	47595
Keokuk	45830	44495	43452	42600	39814	37845	37103	37103	34500	32000	31500	42416	41937
Kossuth	38176	36426	35262	33744	32224	32224	31285	29852	29484	28080	26000	36116	34614
Lee	64460	61981	56346	54705	52600	50383	48632	48632	48632	44304	41600	56469	55383
Linn	95069	90542	87905	84523	82061	79671	76977	74016	71513	67757	61597	89295	82006
Louisa	35000	33648	32988	31719	30426	28977	28977	28340	27250	26750	25175	32477	33516
Lucas	31320	30520	29620	28480	27650	26850	26068	25432	24933	24132	22529	30093	29993
Lyon	50000	45000	42660	38700	38700	37500	35000	32124	32124	29745	28600	42030	38076
Madison	34473	32522	26229	25514	24533	23585	22898	21300	21300	21300	20300	26434	27026
Mahaska	59360	57910	56500	54850	53510	52360	51330	50320	48615	46300	45390	58685	60429
Marion	56634	53052	52604	50922	48683	46894	44185	42435	34500	32500	29000	52558	38608
Marshall	56337	54856	48979	48979	48979	48979	47645	43314	43314	40035	37361	54895	49740
Mills	49729	45875	45875	44974	42831	41617	41205	41000	41000	21593	19674	46644	26192
Mitchell	35250	34413	31713	30789	29521	28523	27784	27240	26370	23865	22409	31968	29834
Monona	37563	35774	34766	33786	32930	32180	31365	29590	29270	28380	27880	36067	37117
Monroe	45073	45073	43073	41818	41200	40000	38812	37500	37500	21904	20401	44832	27160
Montgomery	31559	31016	29540	28679	27055	25524	24542	24542	23542	22421	21152	28607	28160
Muscatine	49402	43402	41602	40226	38926	37610	35663	34228	33231	33231	31350	42153	41737
O'Brien	33526	32426	30926	29737	28225	27400	26400	25200	24400	22400	21500	30710	28623
Osceola	54326	52744	51744	49440	28400	25875	25200	25200	24720	24000	20450	29001	27226
Page	39774	38616	36953	34990	33970	33050	32000	31000	30000	28000	24000	37042	31952
Palo Alto	51906	50395	48225	46725	44500	42500	41400	40000	40000	36000	35828	47634	47699
Plymouth	54496	49542	46301	43680	41600	40000	32467	30921	28630	26028	24100	44832	32085
Pocahontas	35700	34200	32994	32567	31466	30550	30150	30150	30150	27650	24650	34240	32817
Polk	119436	113748	104356	98626	92909	89336	85900	80168	77085	70725	69500	100127	92527
Pottawattamie	61734	58795	56533	52345	49382	46808	41793	40625	40625	44182	41570	52462	55343
Poweshiek	35885	34176	33181	32215	31277	30366	29382	27976	27563	26250	25000	34034	33283
Ringgold	21750	21751	21220	20703	20099	19142	19142	18585	17956	16781	15683	21454	20879
Sac	35420	34420	33256	28256	26506	26506	26006	26006	25006	24106	21875	29708	29123
Scott	78931	76632	74400	71500	65000	62000	60000	58240	56000	53000	49800	69489	66300
Shelby	34107	31007	30104	28135	27316	26265	25750	25000	25000	23000	21798	29438	29020
Sioux	72500	47880	46830	44390	43010	41920	40800	39800	38600	36550	33550	46984	44666
Story	88000	77984	74985	72100	70000	65000	57975	56400	54000	49500	46750	72852	62239
Tama	48033	47091	43603	42333	41100	40350	38549	38549	36349	36349	34292	45224	45654
Taylor	28026	27210	26417	25648	24661	23943	23246	23246	22352	21492	20469	26835	27251
Union	47826	46326	45426	44103	43239	41008	40213	40213	37705	35075	18707	45961	24905
Van Buren	28754	27754	27154	26044	25838	25353	24723	23887	23887	21547	18849	28415	25094
Wapello	52431	50414	48946	46045	46045	43852	42991	41537	39559	38130	37200	49149	49525
Warren	69100	68080	68080	64838	61400	61400	55825	55000	35930	32600	29751	68817	39608
Washington	57100	56000	53500	52222	52222	51073	48780	43920	43920	40000	36504	57242	48599
Wayne	25609	24709	24709	23995	23295	22400	21482	19585	18770	17700	16950	25106	22566
Webster	60897	58930	56859	54515	52100	46814	45242	44103	43246	41381	39822	52469	53016
Winnebago	34000	32983	32400	31200	30000	28000	26500	25200	25200	24000	22000	31382	29289
Winneshiek	37815	36015	34465	30865	30865	30865	29865	28865	26775	25500	24000	34593	31952
Woodbury	82088	78179	73545	71403	66114	64500	64500	59360	56000	51850	48750	72291	64902
Worth	31996	31176	29411	27746	27146	26496	25233	24498	24498	23500	22000	29697	29289
Wright	39500	37000	34000	33500	32500	31500	29500	28000	28000	25300	24000	35305	31952
Averages	47030	44355	42350	40826	38958	37372	36001	34908	33693	31125	29100	41886	38742

Table 2. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Auditors in Iowa's Counties, Fiscal Years 1990-2000.

County	Unadjusted										Adjusted		
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Adair	28992	28092	26892	25611	24962	24282	23970	23272	22594	21437	19437	27215	25877
Adams	27400	26474	25579	24594	24254	23879	22742	22742	21973	20927	19742	26763	26283
Allamakee	29150	27500	26500	25675	24200	24200	23690	23690	23000	23000	19910	27123	26507
Appanoose	31073	30095	29105	27305	26518	25410	24764	23572	23572	22300	21300	28479	28357
Audubon	31013	30013	28613	27780	27088	26498	25827	25075	23881	22445	21376	29699	28458
Benton	37345	35909	33876	32573	31533	30320	28612	28612	27412	25500	23500	33982	31286
Black Hawk	49707	46455	44243	42136	40909	39911	38376	35859	35859	35859	34613	44732	46081
Boone	36400	35000	33654	32674	31722	30356	29400	29400	29400	28000	23900	34023	31819
Bremer	34964	33946	32329	31757	30832	29790	28923	28080	27000	25500	24000	33388	31952
Buchanan	35049	34195	32995	31995	30995	29270	29270	28370	27870	24870	23700	32806	31552
Buena Vista	34244	33086	31213	29727	28974	28129	27851	27040	27040	26000	25000	31527	33283
Butler	32093	30623	28355	27583	26780	26050	26050	25198	25198	23856	22300	29197	29689
Calhoun	31228	30466	29015	27633	26317	25550	24800	24300	23700	22500	21022	28636	27987
Carroll	37527	36381	34881	33539	32539	31591	30091	30091	29500	28365	26510	35407	35293
Cass	35229	34203	33207	29707	28912	28152	26658	26065	26065	24700	23100	31553	30754
Cedar	34074	32763	31751	30176	29015	27899	27086	26044	25285	24276	23260	31269	30967
Cerro Gordo	42500	41000	39000	37313	36000	33500	30288	29328	29328	27336	26110	37547	34761
Cherokee	33500	31750	31750	30729	29834	28834	28434	27938	27125	26500	24250	32317	32285
Chickasaw	30405	29580	28873	27849	26649	25747	24994	24244	24244	23164	22061	28857	29370
Clarke	32991	31463	28463	27500	26446	25187	24374	23214	22321	21671	20639	28229	27477
Clay	38217	36397	34663	33654	32674	31722	31039	30282	29400	28000	26717	35554	35569
Clayton	31799	29719	28576	27215	25919	25349	25349	24611	23894	22331	21067	28411	28047
Clinton	40452	38267	36781	35511	33982	33089	32125	30164	30164	28456	26847	37086	35742
Crawford	30935	30329	29445	29153	28304	27480	27074	26286	25520	23200	21886	30799	29137
Dallas	41919	40306	38756	37627	36531	35991	33983	33983	30482	30482	30482	40338	40581
Davis	28596	27096	26177	25307	24570	23900	23249	22793	22131	20878	20075	26787	26726
Decatur	25670	24635	23635	23171	22717	22055	21207	22107	20791	19614	18860	24719	25109
Delaware	32169	30932	29742	28326	27237	26443	26053	25294	24557	23500	22000	29637	29289
Des Moines	38872	37373	36256	34034	33558	31374	29984	29372	28268	26333	25151	35164	33484
Dickinson	36758	35687	34150	32837	31273	30213	29191	28341	27928	26588	25154	33863	33488
Dubuque	45247	43717	42444	41611	40399	39033	37532	36653	36653	31598	28710	43748	38222
Emmet	33359	32387	31368	29874	28725	27754	27210	26417	25773	24546	23377	31106	31122
Fayette	34658	33554	32575	31279	30392	29592	29592	29092	28245	26900	25725	33167	34248
Floyd	33355	32072	31137	29730	29147	27662	26598	26598	25848	24500	23171	31003	30848
Franklin	30000	29025	28025	27225	26500	25309	24668	23968	23383	22059	20560	28366	27372
Fremont	29997	29123	28275	27451	26651	25875	24880	24634	23634	22088	20452	29001	27228
Greene	31081	29081	28575	27919	26838	26176	25291	25291	24413	23250	21700	29338	28890
Grundy	31050	30000	28730	27730	26900	26000	25100	24350	23750	22509	21365	29141	28444
Guthrie	31800	30559	27781	27781	27125	26082	24732	24732	23850	22500	21420	29233	28517
Hamilton	35317	34617	33417	32317	31317	30609	29718	29136	28046	26746	25246	34306	33611
Hancock	34100	32950	32150	31040	30340	28540	28540	27540	27000	24515	23572	31987	31382
Hardin	32292	31200	30282	29400	28550	27450	27100	26300	25800	24700	23700	30766	31552
Harrison	34000	32373	31278	30220	29340	28080	26000	26000	25000	24000	22950	31472	30554
Henry	33313	32500	31540	30470	29655	28650	27553	26750	25750	23200	22000	32111	29289
Howard	29292	28292	27500	26500	25000	24277	23710	23410	22575	21500	20000	27209	26627
Humboldt	31000	30000	29050	28196	27375	26578	25786	24761	24396	22633	21659	29788	28835
Ida	28498	27939	27284	26489	25594	24445	24445	24140	23540	22000	20438	27398	27210
Iowa	32355	31261	28419	27458	26893	25859	24985	24985	23891	22756	20974	28983	27923
Jackson	35500	32672	31344	30361	29722	28444	28444	27615	26682	25365	23920	31880	31845
Jasper	44000	39690	37800	34688	33678	31742	30669	29489	29489	27820	26000	35576	34614



Table 2. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Auditors in Iowa's Counties, Fiscal Years 1990-2000 (continued).

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Jefferson	32370	31250	30300	29250	28400	27400	26300	26000	25000	23700	22500	30710	29955
Johnson	50248	48785	46909	45432	43896	42411	40780	39212	38443	36267	33894	47534	45124
Jones	35206	33852	32550	30550	30098	29222	27568	27568	26765	25250	24250	32752	32285
Keokuk	27086	26361	25593	24908	24300	23600	23000	23000	22100	20500	20000	26451	26627
Kossuth	33617	32574	31811	30660	29292	29292	28439	27137	26868	25588	24232	32830	32261
Lee	38631	37145	36063	35012	33667	32246	31126	31126	31126	27801	26104	36141	34753
Linn	61872	58926	57210	55009	53407	51851	50098	48171	46542	44097	40088	58114	53370
Louisa	32500	31519	31519	30306	29071	27686	27686	27210	26418	25280	23280	31030	30993
Lucas	29923	29023	28173	27192	26400	25500	24224	23633	23170	22178	20794	28580	27684
Lyon	32250	31000	29300	28100	28100	27000	25950	24883	24883	23255	22360	30261	29768
Madison	31397	30189	29029	27489	26432	25411	24671	22950	22950	22950	21450	28480	28557
Mahaska	34560	33230	31950	30720	29830	28960	28390	27560	26250	25000	23360	32458	31100
Marion	38144	37084	36108	34389	32877	32158	30467	29601	28600	27000	24000	36042	31952
Marshall	36808	35840	35000	35000	35000	34728	33782	33033	33033	31610	29515	38923	39294
Mills	31865	29395	28264	27177	25883	24650	23702	23237	22781	21593	19674	27628	26192
Mitchell	32000	31355	30155	29277	28048	26616	25927	25419	24607	23105	21695	29831	28883
Monona	34178	33020	31750	30500	28863	28113	27401	25850	25340	23660	21160	31509	28171
Monroe	29723	28523	26523	25750	25000	24000	22979	22202	22202	20946	19437	26899	25877
Montgomery	31559	31016	29540	28679	27055	25524	24542	24542	23542	22421	21152	28607	28160
Muscatine	40790	37290	35990	35149	34149	33154	32188	30995	30387	28940	27562	37159	36694
O'Brien	34036	32937	31737	30516	29004	28260	27260	26540	25900	24900	24000	31674	31952
Osceola	30283	29259	28259	26987	26200	23815	23140	23140	22660	22000	20450	26692	27226
Page	33701	32719	31310	30375	29490	28690	27850	27200	26200	25000	21000	32156	27958
Palo Alto	37000	32995	31575	30450	29000	28000	26910	26000	26000	24000	21720	31382	28916
Plymouth	35816	34439	33139	31864	30788	29890	29133	28422	27329	26028	24100	33501	32085
Pocahontas	31200	30000	28117	27184	26265	25500	24900	24900	24900	23600	22400	28580	29822
Polk	68313	65060	61962	57372	55165	53043	51003	49041	47155	43863	42792	59450	56970
Pottawattamie	42667	40159	38614	35754	32403	31133	30227	29671	29671	29045	26421	34894	35175
Poweshiek	34738	33084	31812	30885	29985	29112	28538	27976	27563	26250	25000	32629	33283
Ringgold	24363	23877	23294	22726	22064	21013	21013	20401	19711	18422	17217	23551	22921
Sac	29632	28631	27663	26113	25475	25475	24035	24035	23685	22785	21000	28552	27958
Scott	55167	53560	52000	50000	46300	44300	43000	41600	40000	38000	35000	49651	46596
Shelby	32706	30855	29956	27996	27181	26136	25750	25000	25000	23700	22344	29293	29747
Sioux	42890	41840	40920	39160	37950	36990	36000	35000	33800	32000	30000	41458	39940
Story	48000	45677	43920	42230	41000	39500	37925	37100	35500	32500	29250	44271	38941
Tama	31303	30293	29411	28554	27722	26972	26511	26511	24511	24511	21973	30230	29253
Taylor	27104	26314	25548	24804	23850	23155	22481	22481	21616	20785	19795	25952	26354
Union	31280	30530	30030	29155	28390	26591	25791	25791	23838	22409	19486	29803	25942
Van Buren	35192	33692	32692	30944	29526	28103	26420	25404	25404	22189	20909	31498	27837
Wapello	35952	34570	32613	30680	30680	29150	28438	27476	26168	23209	22104	32671	29428
Warren	40000	39503	38352	26526	34400	34400	29912	29043	28529	27300	24897	38555	33146
Washington	36668	35600	34500	31125	31125	30440	28854	26900	26900	24800	23373	34117	31117
Wayne	27236	26336	26336	25575	24825	23870	23016	21770	21165	19850	18850	26753	25095
Webster	40029	38226	36452	35050	34000	31538	30575	29705	29152	27719	26083	35348	34725
Winnebago	36316	34816	34200	33000	31800	30500	29000	27000	27000	25800	24000	34184	31952
Winneshiek	34009	32209	31046	28436	28436	27686	26836	25836	25436	24225	23225	31030	30920
Woodbury	56544	53851	50659	49182	47750	39950	39950	38750	37250	35125	32750	44776	43601
Worth	30643	29895	28464	27642	26742	26291	25526	24781	24781	23772	22272	29467	29651
Wright	35400	34400	32900	32400	31400	29900	28900	27400	27400	25850	24500	33512	32617
Averages	35287	33893	32613	31229	30304	29184	28244	27530	26853	25389	23781	32710	31660

Table 3. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Recorders in Iowa's Counties, Fiscal Years 1990-2000.

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Adair	28992	28092	26892	25611	24962	24282	23970	23272	22594	21437	19437	26865	25877
Adams	27400	26474	25579	24594	24254	23879	22742	22742	21973	20927	19742	25489	26283
Allamakee	29150	27500	26500	25675	24926	24200	23690	23690	23000	23000	19910	26552	26507
Appanoose	31073	30095	29105	27305	26518	25410	24764	23572	23572	22300	21300	27755	28357
Audubon	28823	27823	26623	25848	25208	24618	23669	22980	22311	21168	20160	26528	26840
Benton	37345	35909	33876	32573	31533	30320	28612	28612	27412	25500	23000	32068	30620
Black Hawk	49636	46389	44180	42076	40850	39854	38321	35807	35807	35807	34563	42950	46015
Boone	36400	35000	33654	32674	31722	30356	29400	29400	27300	26000	23900	32951	31819
Bremer	34964	33710	32104	31169	30262	29239	28387	27560	26500	25000	24000	31816	31952
Buchanan	35049	34120	32920	31920	30920	28970	28970	27970	27370	24370	23200	32469	30887
Buena Vista	34244	33086	31213	29727	28974	28129	27851	27040	27040	26000	25000	31215	33283
Butler	32093	30623	28355	27583	26780	26050	26050	25198	25198	23856	22300	29197	29689
Calhoun	31228	30466	29015	27633	26317	25200	24500	24000	23700	22500	21022	27459	27987
Carroll	33118	32107	30607	29430	28430	27602	26102	26102	25590	24606	22574	29255	30053
Cass	35204	34179	33184	29684	28889	28130	26568	25887	25887	24532	22260	29777	29635
Cedar	33999	32691	31620	30045	28889	27778	26969	25932	25177	24073	22930	30227	30527
Cerro Gordo	41850	40500	37500	35500	34000	31500	29749	28798	28787	26821	25925	33342	34515
Cherokee	33500	29750	29750	28740	27903	26903	26503	26007	25250	25000	23450	29704	31220
Chickasaw	30368	29543	28837	27486	26286	25273	24546	23796	23796	22885	21795	27511	29016
Clarke	28929	28929	25929	25051	24322	23613	23227	22550	21683	21052	20639	26033	27477
Clay	38217	36397	34663	33654	32674	31722	31039	30282	29400	27500	26717	34788	35569
Clayton	31799	29719	28576	27215	25919	25349	25349	24611	23894	22331	21067	28411	28047
Clinton	38659	36505	34478	33267	32173	31697	31076	29596	29596	27920	26440	34830	35200
Crawford	30935	30329	29445	29153	28304	27480	27074	26286	25520	22745	21061	30344	28039
Dallas	41919	40306	38756	37447	36356	35819	33638	33638	29897	29897	29897	37701	39803
Davis	28596	27096	26117	25307	24570	23900	23249	22793	22131	20878	20075	26057	26726
Decatur	25670	24635	23635	23171	22717	22055	21207	21207	20791	19614	18860	23769	25109
Delaware	32169	30932	29742	28326	27237	26443	26053	25294	24557	23500	22000	29200	29289
Des Moines	37679	36032	34834	32543	32048	29921	28541	27902	26770	24869	23753	31989	31623
Dickinson	36574	35509	33980	32517	30969	30067	29191	28341	27928	26588	25154	32717	33488
Dubuque	43644	41966	40744	39305	38160	36870	35452	34221	34221	30830	28220	39734	37570
Emmet	31908	30978	29374	27975	26899	25989	25479	24737	24134	22985	21291	28557	28345
Fayette	34280	33188	32250	31272	30337	29315	29315	28815	27976	26900	25725	32856	34248
Floyd	33355	32072	30864	29118	28547	27662	26598	26598	25848	24500	23061	29811	30702
Franklin	30000	28468	27518	26717	25992	25309	24668	23968	23383	22059	20361	27648	27107
Fremont	29997	29123	28275	27451	26651	25875	24880	24634	23634	22088	20452	27885	27228
Greene	30296	28296	27679	27044	25578	24657	23822	23822	22995	21900	20500	26700	27292
Grundy	31050	29700	28430	27130	26300	25400	24600	23850	23250	22050	21000	27572	27958
Guthrie	30100	28951	26319	26319	25777	24786	23436	23436	22600	21600	20357	26267	27102
Hamilton	33021	32121	30921	29821	28821	27989	27174	26620	25620	24420	22920	30456	30514
Hancock	32500	30960	30200	29157	28307	26207	26207	25207	24713	23536	22631	29373	30129
Hardin	32292	31200	30282	29200	28350	27250	26900	25800	25300	24200	23200	30149	30887
Harrison	34000	32060	31278	30220	29340	28080	26000	26000	25000	24000	22950	29141	30554
Henry	33313	32500	31540	30470	29655	28650	27553	26750	25750	23200	22000	30881	29289
Howard	29292	28292	27500	26500	24800	24110	23710	23410	22575	21500	20000	26574	26627
Humboldt	31000	29750	28550	27657	26736	25957	25183	24202	23868	22218	21262	28225	28307
Ida	28301	27294	26448	25431	24536	23180	23180	22860	22260	21000	19608	25980	26105
Iowa	32355	31261	28419	27458	26893	25859	24985	24985	23786	22553	20974	28003	27923
Jackson	32835	32510	31020	29549	28098	27197	27197	26404	25512	24030	21320	30482	28384
Jasper	39000	36040	34000	32141	31205	30474	29443	27602	27602	25440	24000	33000	31952

Table 3. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Recorders in Iowa's Counties, Fiscal Years 1990-2000 (continued).

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Jefferson	31775	30900	30000	28950	28100	27150	26250	25500	24500	23200	22000	29421	29289
Johnson	49765	48316	46909	45432	43896	42411	40780	39212	38443	36267	33894	45706	45124
Jones	33004	31735	30515	28514	28093	27275	26226	26226	25462	24250	23250	29394	30953
Keokuk	27086	26361	25593	24908	24300	23600	23000	23000	22100	20500	20000	25778	26627
Kossuth	33617	32574	31811	30660	29292	29292	28439	27137	26868	25588	24232	31874	32261
Lee	36928	35508	34473	33469	32185	30828	29756	29756	29756	25696	24128	33350	32122
Linn	61872	58926	57210	55009	53407	51851	50098	48171	46542	44097	40088	56149	53370
Louisa	32500	30878	30272	29107	27921	26591	26591	26134	25373	24280	23280	29803	30993
Lucas	29923	29023	28173	27192	26400	25500	23919	23336	22675	21699	20271	26808	26987
Lyon	32250	31000	29300	28100	28100	27000	25950	24883	24883	23255	22360	29085	29768
Madison	31397	30189	29029	27489	26432	25411	24671	22950	22950	22950	21450	27651	28557
Mahaska	33540	32250	31010	29820	28950	28110	27560	26760	25484	24270	22680	30889	30194
Marion	37122	34333	34333	33175	31589	30832	29890	29601	28600	27000	24000	33501	31952
Marshall	36808	35840	35000	35000	35000	33275	32306	31633	31633	30271	27455	36208	36552
Mills	31159	29395	28264	27177	25883	24650	23702	23237	22781	21593	19674	26565	26192
Mitchell	32000	31055	30155	29277	28048	26616	25927	25419	24607	23105	21695	29059	28883
Monona	29422	28290	27493	26563	26563	25813	25159	23735	23250	21978	20478	28198	27263
Monroe	29723	28523	26522	25750	25000	24000	22979	22202	22202	20588	19063	25755	25379
Montgomery	31559	31016	29540	28679	27055	25524	24542	24542	23542	22421	21152	27507	28160
Muscatine	39940	35940	34340	33116	31816	30301	29418	28675	28112	26772	25498	32971	33946
O'Brien	33500	32400	31200	30000	28488	27720	26720	26000	25400	24400	23500	29948	31286
Osceola	30059	29259	28259	26987	26200	23815	23140	23140	22600	22000	20450	25935	27226
Page	33424	32450	31053	30125	29246	28450	27750	27200	26200	25000	21000	31102	27958
Palo Alto	37000	32995	31575	30450	29000	28000	26910	26000	26000	24000	21720	30161	28916
Plymouth	35816	34439	33139	31864	30788	29890	29133	28422	27329	26028	24100	32652	32085
Pocahontas	31200	30000	28117	27184	26265	25500	23100	23100	23100	22600	22400	25890	29822
Polk	68313	65060	61962	57372	55165	53043	51003	49041	47155	43863	42792	57164	56970
Pottawattamie	41156	39196	37688	34896	31724	30387	29388	28959	28959	28334	25709	32938	34227
Poweshiek	34236	32606	31656	30734	29985	29112	28538	27976	27563	26250	25000	31985	33283
Ringgold	24363	23877	23294	22726	22064	21013	21013	20401	19711	18422	17217	23551	22921
Sac	29632	28631	27663	26113	25475	25475	23979	23979	23629	22729	20625	26875	27459
Scott	55167	53560	52000	50000	46300	44300	43000	41600	40000	38000	35000	48194	46596
Shelby	31991	29622	28759	26886	26095	25091	24720	24000	24000	22600	21252	27706	28293
Sioux	39590	38620	36620	35040	33950	33090	32200	31200	30200	29000	27000	36090	35946
Story	48000	45677	43920	42230	41000	39500	36925	36100	34500	32500	29250	41385	38941
Tama	31081	29628	28765	27927	27113	26363	25355	25355	23335	23335	21341	28418	28412
Taylor	27104	26314	25548	24804	23850	23155	22481	22481	21616	20785	19795	25197	26354
Union	31280	30530	30030	29155	28390	26591	25791	25791	23838	22409	19486	28906	25942
Van Buren	29306	27806	26806	25704	24716	23865	23272	22377	22377	21058	19776	26083	26328
Wapello	35767	34391	32444	30520	30520	29067	28272	27316	26015	23073	21974	31687	29255
Warren	40000	38162	37050	35286	33415	33415	29056	28210	27712	26520	24187	32566	32201
Washington	33500	32500	31000	29209	29209	27839	26768	24890	24890	23000	21573	30001	28721
Wayne	27236	26336	26336	25575	24825	23870	23016	21770	21165	19850	18850	25796	25095
Webster	39419	37388	35776	34400	33000	30517	29473	28329	27790	26320	24812	33033	33033
Winnebago	34789	33289	32200	31000	29800	28500	27500	25700	25700	24500	22600	30822	30088
Winneshiek	32928	31128	29190	26400	26400	26400	25550	24550	24150	23000	22000	28636	29289
Woodbury	*	*	*	*	*	*	35700	34650	33000	30500	28250	40012	37610
Worth	31224	30463	28464	27642	26742	26291	25526	24781	24781	23772	22272	28609	29651
Wright	33975	32975	30800	30300	29300	28550	27550	26050	26050	24225	23000	30878	30620
Averages	34046	32652	31359	30109	29121	28095	27543	26831	26151	24763	23207	30870	30897

\*Position eliminated.

Table 4. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Sheriffs in Iowa's Counties, Fiscal Years 1990-2000.

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Adair	37064	35864	34114	31882	31074	30227	29693	28828	27988	26554	23055	33878	30694
Adams	33372	32244	31153	29954	29614	29239	27847	27847	26521	24443	22221	32771	29583
Allamakee	36987	33950	32750	31766	29870	29000	27810	27810	27000	27000	22753	32503	30292
Appanoose	41656	40217	38955	37692	36759	35240	34317	32300	32300	29468	27800	39497	37011
Audubon	35805	34805	33305	31644	30857	30267	29421	28565	27733	26065	24824	33923	33049
Benton	46190	44134	41636	40035	38755	37265	34825	34825	33325	31000	27500	41766	36611
Black Hawk	66309	61971	59020	55943	54314	52989	50466	46685	46685	46685	45063	59390	59994
Boone	46374	44166	42467	41230	40029	38306	37100	37100	35700	34000	28100	42933	37410
Bremer	46374	45023	42879	40451	38130	36840	35767	34725	33390	31500	30500	41290	40605
Buchanan	45120	41120	39920	38920	37920	34770	34770	31770	31170	28170	25200	38970	33549
Buena Vista	45072	43255	40807	38864	37879	35735	35380	33696	33696	32400	30000	40052	39940
Butler	40413	38126	34023	32984	32023	31150	31150	30100	30100	28000	24500	34913	32617
Calhoun	39635	38688	36827	34418	32470	31525	30325	29725	29000	28000	25707	35333	34224
Carroll	44598	43237	41737	40132	39132	37992	36193	36193	35483	34118	31886	42581	42451
Cass	40481	39302	37790	36512	35534	34601	33102	32354	32354	30660	27860	38781	37091
Cedar	44324	42619	40670	39095	36882	34150	33155	31880	30654	28923	26850	38275	35746
Cerro Gordo	57500	55000	53000	49438	47750	43800	38460	36082	36046	33104	31500	49091	41937
Cherokee	40000	36550	36500	35535	34500	33392	32992	32496	31550	31300	28750	37426	38276
Chickasaw	38254	37429	36534	34734	33477	30955	29909	29159	29159	28034	26699	34694	35545
Clarke	39265	37062	34062	32910	31342	29850	28700	28304	26956	25430	24932	33456	33193
Clay	43469	41399	39427	38280	37164	36083	35306	34445	33490	31850	30376	40442	40440
Clayton	40405	37762	35964	34251	32620	31902	31902	30973	30071	28104	26265	35756	34967
Clinton	54267	51321	47905	45606	42393	40684	39120	36390	36396	33802	30717	45598	40894
Crawford	38198	37500	36009	35608	34571	32925	32438	31494	29711	27010	25481	36902	33924
Dallas	48880	46924	43248	41988	40765	40162	38325	38325	33301	33301	33031	45013	43975
Davis	35802	33302	32098	31103	29907	29092	27549	27009	25812	23681	22770	32606	30314
Decatur	32299	28839	26839	26312	25796	25045	24082	24082	23610	22274	21417	28070	28513
Delaware	40016	38477	36997	35235	33241	31658	31190	30282	29400	28000	26000	35482	34614
Des Moines	49604	47067	44984	41391	40633	37345	35379	34498	32945	30559	29187	41856	38857
Dickinson	44903	43595	42325	41092	39135	36920	35738	35738	35259	33251	31458	41380	41881
Dubuque	59629	57336	54867	52929	51388	49650	46620	45000	45000	39057	34222	55647	45561
Emmet	39456	38305	36471	34734	32768	31660	31039	30135	29400	28000	25480	35484	33922
Fayette	41957	40621	38583	38583	37724	36124	36125	35374	34344	31800	30000	40488	39940
Floyd	48535	46035	42194	37965	37221	36067	34242	34242	33277	31542	28545	40424	38003
Franklin	38950	38000	36141	35121	34196	32324	31505	30558	29813	27604	26286	36229	34995
Fremont	36620	35553	34517	33512	30512	29623	28484	28202	26702	24955	22686	33201	30202
Greene	38762	36762	35953	35127	34225	31755	30607	30607	28875	27500	24700	35591	32884
Grundy	40750	39370	38100	36500	35400	34000	32925	31800	31200	28330	27305	38107	36352
Guthrie	37800	36003	32730	32730	31919	29971	28621	28621	27600	26100	22695	33591	30214
Hamilton	44342	43442	40642	39142	37642	36474	35412	34745	33095	31095	28595	40880	38069
Hancock	38200	39150	38200	36887	35987	32987	32987	30987	30380	28932	27820	36972	37037
Hardin	41659	40250	38325	36500	34500	33150	32000	30800	30100	29000	27900	37154	37144
Harrison	42500	39162	38207	36915	35840	34300	31200	31200	28700	27500	26375	38443	35114
Henry	43460	42400	41165	39775	38710	37400	36100	35200	34000	30000	28000	41918	37277
Howard	38490	35490	34500	32500	30500	29189	28522	28022	26892	25370	23600	32715	31419
Humboldt	38500	37325	36150	35097	34075	33083	32098	30845	30300	27630	26441	37079	35202
Ida	34654	33645	32856	31899	30672	29156	29156	28813	28080	27000	25937	32678	34531
Iowa	40651	39276	35705	34498	33331	31744	30524	30524	28414	27089	24581	35578	32725
Jackson	42000	39371	38242	36956	34911	33824	33823	32838	31728	29219	26000	37910	34614
Jasper	60000	51940	49000	45512	44186	42651	41209	39624	39624	36520	33200	47803	44200

Table 4. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Sheriffs in Iowa's Counties, Fiscal Years 1990-2000 (continued).

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Jefferson	40265	38900	37780	36530	35480	34310	33310	32260	30160	29000	27500	38454	36611
Johnson	64315	62445	59469	57596	55648	53766	51698	49708	48733	45975	42967	60261	57203
Jones	43001	41347	39758	37757	35757	34716	32445	32445	31500	28250	26250	38909	34947
Keokuk	35157	34133	33333	32679	31882	29250	28500	28500	27000	24500	23500	32783	31286
Kossuth	41711	39800	38697	37030	35358	35358	34329	32756	32432	30888	28600	39629	38076
Lee	48587	46718	44493	43197	41535	39784	38401	38401	38401	32875	26300	44590	35014
Linn	77006	73339	69188	64661	59322	57594	55647	53506	51697	48981	44528	64551	59281
Louisa	39500	38096	37349	35912	34448	32808	32808	31930	31000	29000	26768	36771	35637
Lucas	37986	37486	36636	35844	34800	33810	32826	32025	31397	26138	23977	37894	31921
Lyon	45000	40000	37200	35500	35500	34000	32000	30372	30372	28122	27040	38107	35999
Madison	41209	38876	37381	35874	34495	33162	32196	29950	29950	29950	28000	37168	37277
Mahaska	43490	41820	40410	39040	38090	37160	36080	34690	32424	30880	27820	41649	37037
Marion	48946	46952	44533	42659	41195	39611	37707	36742	34500	32500	29000	44396	38608
Marshall	49005	47578	46192	46192	46192	46192	44934	39649	39649	36986	32245	51772	42929
Mills	39267	37044	34620	33289	31704	30194	29033	28463	27905	26450	24100	33841	32085
Mitchell	43050	42209	41009	39815	38319	37023	36064	35357	34228	31319	28535	41495	37989
Monona	40131	38220	36400	35040	33182	33497	30888	29140	28550	26550	24050	37543	32018
Monroe	34618	34618	32618	31668	31200	30000	28909	27932	27932	25393	23651	33624	31487
Montgomery	39632	38950	36402	35341	32723	30299	28584	28584	27584	26023	24095	33959	32078
Muscatine	52735	46735	44235	42400	40000	38354	37238	35857	35154	33481	31586	42987	42051
O'Brien	43300	42100	39600	38077	36565	35500	34500	33300	32500	30900	30000	39788	39940
Osceola	39369	38223	37223	35625	34500	31360	30685	30865	30385	29500	26966	35148	35901
Page	41002	39808	38094	36575	35510	34550	33500	32500	31000	29000	26500	38723	35280
Palo Alto	44581	40581	37575	35700	34000	32000	29705	28700	28700	26500	23977	35865	31921
Plymouth	48800	46038	44301	41991	40571	39010	38022	36560	35154	33480	31000	43722	41271
Pocahontas	38500	36500	34994	33207	31930	31000	29100	29100	29100	27800	25800	34745	34348
Polk	99313	94584	90080	83407	80199	77114	73442	68002	65387	58041	56625	86429	75386
Pottawattamie	60574	55068	52445	48560	44963	42179	40951	39807	39807	39182	36557	47274	48669
Poweshiek	43870	41387	39605	37917	36111	34457	33340	32259	30870	29400	28000	38619	37277
Ringgold	30388	29781	28704	27667	26101	24858	24858	24134	23317	21792	20366	27861	27114
Sac	38260	37260	36000	32745	30995	30995	27995	27995	26995	25795	23775	34739	31652
Scott	70125	68083	66100	63500	56000	53500	51500	49400	47500	45000	41500	59962	55250
Shelby	39602	37361	36273	33900	32913	31256	30642	29750	29750	27500	25599	35032	34081
Sioux	51080	47880	46830	44390	43010	41920	40800	39800	38600	36550	33350	46984	44400
Story	80000	72415	69630	66950	65000	59000	54875	53600	52000	48000	44250	66127	58911
Tama	39289	38519	37397	33932	32943	32193	31114	31114	28914	28914	25655	36082	34155
Taylor	32821	31863	30935	30034	28878	28038	27221	27221	26174	25167	23742	31425	31608
Union	36276	35526	34776	33763	33430	31484	30684	30684	28542	25656	21380	35287	28464
Van Buren	38640	37140	36140	34101	32539	31156	29886	28737	28737	26366	23330	34919	31060
Wapello	45036	43304	40509	38108	38108	35615	34410	33246	31663	27178	25884	39917	34460
Warren	50788	50038	47655	45386	41600	41600	37839	36742	36928	33800	30368	46625	40430
Washington	56650	55000	53000	50894	50894	49857	47788	45150	45150	42000	40000	55879	53253
Wayne	32564	31664	31664	30750	29950	28800	27630	25260	24205	22700	21650	32279	28823
Webster	52854	49669	47337	45385	42900	39828	38143	36389	35711	34056	32491	44639	43256
Winnebago	41609	40109	39400	38200	37000	34700	32700	30700	30700	29500	27000	38892	35946
Winneshiek	44273	42473	39373	34873	34873	32245	31245	30245	29645	28233	26733	36140	35590
Woodbury	65265	62157	58473	56770	54325	53000	53000	49000	45500	41000	37500	59402	49925
Worth	36421	35533	33208	31329	30529	29879	28456	27627	27627	26500	25000	33488	33283
Wright	41250	40250	37750	37250	36250	35500	34500	33000	33000	30750	29000	39788	38608
Averages	44714	42687	40801	39060	37572	36038	34725	33646	32712	30651	28356	40391	37752

Table 5. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Supervisors in Iowa's Counties, Fiscal Years 1990-2000.

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Adair	17816	17540	17540	17540	17096	16859	16643	16158	15687	14884	13534	18895	18018
Adams	12662	12234	11936	11701	11361	11111	10582	10582	10582	10078	9644	12453	12839
Allamakee	18000	18000	18000	17500	17500	17500	17500	17500	17500	17500	14359	19614	19117
Appanoose	18423	18092	17618	17271	16916	16374	16196	15625	15625	14935	14500	18352	19304
Audubon	18704	17904	17304	16800	16378	15788	15388	14940	14940	14175	13500	17695	17973
Benton	24569	23536	22204	21350	20668	19873	18775	18775	18275	17000	15000	22274	19970
Black Hawk	26755	25006	23815	23815	23815	23815	22899	22899	22899	22899	22450	26692	29888
Boone	23615	22707	21834	21198	20581	19695	19075	19075	18375	17500	16650	22074	22167
Bremer	22222	21575	20946	20336	19744	19076	18521	17981	17290	16225	15225	21380	20269
Buchanan	23600	23025	21825	20825	19825	19150	19150	18550	18300	16800	15900	21463	21168
Buena Vista	19093	18829	18105	17409	16968	16474	16310	15683	15683	15080	14500	18464	19304
Butler	19274	18604	17485	17312	16808	16350	16350	15844	15844	15000	14400	18325	19171
Calhoun	20561	20060	19105	18195	17665	17150	16800	16800	16500	15400	14735	19222	19617
Carroll	19960	19350	18750	18029	17695	17180	16362	16362	16362	15733	14983	19255	19947
Cass	18885	18335	17801	17199	16739	16299	15994	15738	15738	14915	13915	18268	18525
Cedar	20722	19925	19475	18687	17968	17277	16774	16129	15509	14791	14660	19364	19517
Cerro Gordo	31500	30500	28500	27350	26000	25000	23625	22249	22232	20289	19875	28020	26460
Cherokee	17500	16000	16000	15244	14800	14300	14300	14300	14300	14300	12000	16027	15976
Chickasaw	18320	17870	17443	16542	15823	15145	14790	14290	14290	13690	13038	16974	17358
Clarke	17930	17480	16480	16000	15524	15219	15219	14892	14600	14600	14314	17057	19057
Clay	18342	17469	16637	16152	16652	15682	15306	15225	15225	14500	13631	17576	18147
Clayton	19583	18830	18282	17923	17486	17270	17270	16767	16279	15504	14626	19356	19472
Clinton	25502	24228	23676	23467	22939	22533	22145	21191	21192	20376	19295	25255	25688
Crawford	16695	16571	16088	15928	15464	15014	15014	14577	14153	13351	13089	16828	17426
Dallas	33535	29577	28440	27611	26807	26807	26114	26114	23423	23423	23423	30045	31184
Davis	18058	17308	16682	16165	15848	15416	14996	14702	14312	14100	13557	17278	18049
Decatur	16531	16531	15781	15471	15168	14726	14160	14160	13882	13096	12592	16505	16764
Delaware	20842	20041	19571	19001	18448	17910	17646	17300	16961	16309	15609	20073	20781
Des Moines	25688	25039	24385	22871	22531	21645	20769	20448	19844	18583	18130	24260	24137
Dickinson	21226	20608	20008	19425	18859	18309	17906	17384	17130	16546	15654	20521	20841
Dubuque	30535	29644	28781	28216	27394	26468	25450	25000	25000	23583	22568	29665	30045
Emmet	17873	17352	16806	15855	15245	14729	14440	14019	13677	13026	12215	16508	16262
Fayette	23472	22725	22200	21568	20970	20170	20170	21170	19583	18830	18100	22606	24097
Floyd	20588	19796	19219	18659	18293	17726	17044	17044	16564	15700	14793	19867	19694
Franklin	21525	21000	17546	17045	16595	16160	15750	15527	15148	14290	13606	18112	18114
Fremont	19794	19217	18657	18114	17586	17074	16417	16254	15254	14256	13200	19136	17573
Greene	14948	14448	14448	14448	14395	14039	13597	13597	13125	12500	11900	15735	15843
Grundy	15300	15000	13800	13400	13000	12100	11675	11300	11000	10350	10000	13562	13313
Guthrie	18000	17448	15862	15862	15446	14852	14177	14177	13671	13200	12671	16646	16869
Hamilton	25500	25000	24500	23052	22302	21780	21146	20764	20014	19014	18214	24411	24249
Hancock	21000	20350	19850	19158	18658	17458	17458	16958	16626	15834	15225	19567	20269
Hardin	24840	24000	23100	23000	21500	20663	20325	18800	18300	16800	15600	23159	20769
Harrison	20000	19486	18827	18190	17660	16900	16900	16900	16900	16400	15700	18941	20902
Henry	20863	20355	19760	19090	18580	17950	17375	17000	16500	14800	14100	20118	18772
Howard	17462	16762	16300	15700	14800	14287	13987	13812	13319	12685	11800	16013	15710
Humboldt	18100	17553	17000	16063	15595	15141	14670	14140	13932	12913	12357	16970	16451
Ida	17118	16782	16389	15912	15374	14236	14236	13973	13520	13000	12450	15956	16575
Iowa	19409	18753	18753	18430	18051	17611	17351	17351	16928	16281	16005	19738	21308
Jackson	20153	19953	18906	18015	17529	17059	17058	16562	16002	16002	13988	19120	18623
Jasper	30000	25823	23800	21836	21200	20583	19887	19122	19122	18040	16380	23069	21807

Table 5. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Supervisors in Iowa's Counties, Fiscal Years 1990-2000 (continued).

County	Unadjusted										Adjusted		
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Jefferson	22240	21750	21000	20900	20300	19600	19000	18450	17950	17250	16400	21968	21834
Johnson	32876	31919	30989	31013	28999	28184	27740	26673	26152	24672	23058	31588	30698
Jones	18930	17680	17000	15751	14751	14322	13905	13905	13500	13000	12500	16052	16642
Keokuk	16684	16519	16291	16050	15813	15060	15060	15060	14400	13000	12300	16879	16375
Kossuth	21070	20416	19938	19217	18229	18229	17698	16887	16720	15924	15080	20431	20076
Lee	19661	19661	19089	18532	17820	17576	17298	17298	17298	15725	14560	19699	19384
Linn	61872	58926	53603	50049	48592	44628	40943	38808	37496	35526	32297	50019	42998
Louisa	18600	18032	17679	16998	16998	16998	16998	16747	16500	16000	15296	19051	20364
Lucas	18224	17924	17374	16995	16500	15923	15460	15083	14787	14449	13797	17846	18368
Lyon	18200	17500	16000	15000	15000	14300	13760	12784	12784	12060	11596	16027	15438
Madison	20706	19909	19144	18622	17906	17439	16931	15750	15750	15750	15000	19546	19970
Mahaska	22540	21990	21450	20830	20320	19880	19490	19110	18460	17580	17240	22281	22952
Marion	24617	23583	22666	21955	21421	20952	20755	20224	19540	18500	16775	23483	22333
Marshall	30000	30000	33000	33000	33000	26577	25853	23503	23503	22427	19980	29787	26600
Mills	17372	16388	16225	15601	15001	14286	13736	13467	13203	13203	12030	16012	16016
Mitchell	20850	20444	19844	19266	18291	17672	17215	16878	16339	15342	14406	19807	19179
Monona	18795	18159	17647	17150	17150	16500	16083	15615	15350	14625	13375	18493	17806
Monroe	20557	19357	17357	17356	17100	16660	16049	15506	15506	14629	13626	18672	18141
Montgomery	18718	18623	17736	17219	16245	15325	14735	14735	13735	13207	12459	17176	16587
Muscatine	20250	19250	18854	18381	17861	17861	17511	17068	16733	15936	15178	20018	20207
O'Brien	17720	17140	16640	16000	15528	15120	14120	13400	13200	12200	11800	16946	15710
Osceola	13990	13290	12290	10373	10000	9450	9450	9450	9270	9000	8109	10591	10796
Page	22140	22140	21187	20554	19954	19772	19650	19300	18300	17500	15000	22160	19970
Palo Alto	18203	17673	16913	16537	15750	15000	14490	14000	14000	13000	11927	16812	15879
Plymouth	20833	20033	19277	18536	17909	17471	17029	16614	16129	15361	14700	19581	19570
Pocahontas	16650	16000	15551	15351	14832	14400	14000	14000	14000	13300	12800	16139	17041
Polk	68313	65060	61962	57372	55165	53043	51003	48315	46457	42073	41046	59450	54646
Pottawattamie	23863	22726	21852	20233	19455	18635	17580	17493	17493	16868	15931	20886	21209
Poweshiek	23825	22690	22029	21387	20764	20159	19762	19373	19373	18450	18000	22594	23964
Ringgold	18022	17662	17232	16811	16322	15544	15544	15091	14581	13627	12735	17422	16954
Sac	19513	19013	18370	17750	17750	17750	16750	16750	16500	16286	15075	19894	20070
Scott	28786	27948	27400	26700	24500	24000	23500	23000	22000	20500	20500	26899	27292
Shelby	19687	18573	18032	16852	16852	16204	15965	16000	15500	15000	14175	18161	18872
Sioux	22620	22070	21580	20650	20010	19500	18500	18500	18500	17500	17500	21855	23298
Story	48000	45677	43920	42230	41000	37000	34400	32600	31000	29000	25000	41469	33283
Tama	19301	18923	18372	18372	17836	17086	16666	16666	15166	15166	14165	19150	18858
Taylor	18180	17651	17137	16638	15997	15918	15760	15760	15154	14571	13877	17841	18475
Union	18005	15755	15505	15505	15505	14082	13282	13282	11810	10986	9987	15783	13296
Van Buren	18384	17384	16784	16100	15972	15887	15492	14968	14968	14343	13669	17806	18198
Wapello	25440	25023	24294	23472	23472	22569	22235	21483	20460	20460	19961	25295	26575
Warren	24200	23506	22387	21321	20600	20600	19198	18640	18175	17500	15663	23088	20853
Washington	22350	21700	21000	19617	19617	19217	18479	16900	16900	15500	14731	21538	19612
Wayne	12968	16293	16293	15825	15250	14800	14357	13832	13545	12700	12050	16588	16042
Webster	26080	24620	24040	23115	22100	20881	20348	19932	19567	18736	17719	23403	23590
Winnebago	22000	21153	20780	20050	19300	18500	18000	16800	16800	16800	16000	20735	21301
Winneshiek	21744	19944	19479	19029	19029	18279	17779	17529	17129	16313	15313	20487	20387
Woodbury	25731	24048	22902	23082	21587	21060	21060	20250	20250	19249	18000	23604	23964
Worth	19766	19284	18192	17682	17683	17033	16537	16055	16054	15400	14400	19090	19171
Wright	21950	20950	19950	19450	18450	18200	17500	17000	17000	15850	15100	20398	20103
Averages	22057	21275	20510	19721	19250	18556	18044	17598	17193	16375	15450	20798	20569

Table 6. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Treasurers in Iowa's Counties, Fiscal Years 1990-2000.

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Adair	28992	28092	26892	25611	24962	24282	23970	23272	22594	21437	19437	27215	25877
Adams	27400	26474	25578	24219	23879	23879	22742	22742	21973	20927	19742	26763	26283
Allamakee	29150	27500	26500	25675	24926	24200	23690	23690	23000	23000	19910	27123	26507
Appanoose	31073	30095	29105	27305	26518	25410	24764	23572	23572	22300	21300	28479	28357
Audubon	29019	28020	26970	26184	25528	24938	24306	23599	22912	21738	20703	27950	27562
Benton	37345	35909	33876	32573	31533	30320	28612	28612	27412	25500	23500	33982	31286
Black Hawk	49636	46389	44180	42076	40850	39854	38321	35807	35807	35807	34563	44668	46015
Boone	36400	35000	33654	32674	31722	30356	29400	29400	27300	26000	23900	34023	31819
Bremer	34964	33710	32105	31169	30262	29239	28387	27560	26500	25000	24000	32771	31952
Buchanan	35049	34195	32995	31995	30995	29270	29270	28370	27870	24870	23700	32806	31552
Buena Vista	34244	33086	31213	29727	28974	28129	27851	27040	27040	26000	25000	31527	33283
Butler	32093	30623	28355	27583	26780	26050	26050	25198	25198	23856	22300	29197	29689
Calhoun	31228	30466	29015	27633	26317	25550	24800	24300	23700	22500	21022	28636	27987
Carroll	35312	34234	32734	31475	30475	29582	28082	28082	27531	26473	24741	33155	32938
Cass	35229	34203	33207	29707	28912	28152	26658	26065	26065	24700	23100	31553	30754
Cedar	33973	32666	31575	30000	28846	27737	26929	25893	25139	24000	22810	31087	30368
Cerro Gordo	42500	41000	39000	37313	36000	33500	30295	29340	29324	27333	26300	37547	35014
Cherokee	33500	29750	29750	28740	27903	26903	26503	26007	25250	25000	23450	30153	31220
Chickasaw	30368	29543	28837	27486	26286	25273	24546	23796	23796	22885	21795	28326	29016
Clarke	31493	29971	26971	26059	24818	23863	23227	22550	21683	21052	20639	26745	27477
Clay	38217	36397	34663	33654	32674	31722	31039	30282	29400	27500	26717	35554	35569
Clayton	31799	29719	28576	27215	25919	25349	25349	24611	23894	22331	21067	28411	28047
Clinton	39892	38222	36646	35321	33748	32957	31920	29971	29972	28275	26775	36938	35646
Crawford	30935	30329	29445	29153	28304	27480	27074	26286	25520	23200	21886	30799	29137
Dallas	41919	40306	38756	37627	36531	35991	33983	33983	30482	30482	30482	40338	40581
Davis	28596	27096	26117	25307	24570	23900	23249	22793	22131	20878	20075	26787	26726
Decatur	25670	24635	23635	23171	22717	22055	21207	21207	20791	19614	18860	24719	25109
Delaware	32169	30932	29742	28326	27237	26443	26053	25294	24557	23500	22000	29637	29289
Des Moines	38395	36879	35725	33488	33012	30825	29438	28816	27701	25747	24592	34548	32740
Dickinson	36574	35509	33980	32517	30969	30067	29191	28341	27928	26588	25154	33699	33488
Dubuque	44867	43350	42087	40601	39418	38085	36621	35763	35763	30830	28220	42685	37570
Emmet	32758	31804	30803	29336	28206	27252	26718	25940	25308	24103	22955	30544	30561
Fayette	34280	33188	32250	31279	30392	29592	29592	29092	28245	26900	25725	33167	34248
Floyd	33355	32072	30864	29465	28887	27662	26598	26598	25848	24500	23061	31003	30702
Franklin	30000	29025	28025	27225	26500	25309	24668	23968	23383	22059	21211	28366	28239
Fremont	29997	29123	28275	27451	26651	25875	24880	24634	23634	22088	20452	29001	27228
Greene	31028	29028	28359	27708	26417	25332	24475	24475	23625	22500	21100	28392	28091
Grundy	31050	29700	28430	27430	26600	25700	24850	24100	23500	21754	21180	28804	28197
Guthrie	30600	29452	26775	26775	26101	25097	23747	23747	22900	21600	20357	28129	27102
Hamilton	33314	32414	31214	30114	29114	28125	27306	26666	25666	24466	23066	31522	30708
Hancock	33200	31780	31000	29905	29055	27255	27255	26255	25741	24515	23572	30547	31382
Hardin	32292	31200	30282	29200	28350	27250	26900	25900	25400	24300	23300	30542	31020
Harrison	34000	32060	31278	30220	29340	28080	26000	26000	25000	24000	22950	31472	30554
Henry	33313	32500	31540	30470	29655	28650	27553	26750	25750	23200	22000	32111	29289
Howard	29292	28292	27500	26500	25000	24277	23710	23410	22575	21500	20000	27209	26627
Humboldt	31000	30000	29050	28196	27375	26578	25786	24761	24396	22633	21659	29788	28835
Ida	28498	27780	27023	26109	25214	24210	24210	23920	23540	22000	20438	27134	27210
Iowa	32355	31261	28419	27458	26893	25859	24985	24985	23883	22646	20974	28983	27923
Jackson	35500	32672	31344	30361	29722	28444	28444	27615	26682	25365	23920	31880	31845
Jasper	40000	36863	35108	32811	31855	31108	30056	28177	28177	25970	24500	34866	32617



Table 6. Salaries (unadjusted and adjusted for inflation to 1999 dollars) for County Treasurers in Iowa's Counties, Fiscal Years 1990-2000 (continued).

County	Unadjusted											Adjusted	
	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1995	1990
Jefferson	31775	30900	30000	28950	27900	26950	26250	25500	24500	23200	22000	30205	29289
Johnson	49765	48316	46909	45432	43896	42411	40780	39212	38443	36267	33894	47534	45124
Jones	35206	33852	32550	29669	28363	27537	26226	26226	25462	24250	23250	30863	30953
Keokuk	27086	26361	25593	24908	24300	23600	23000	23000	22100	20500	20000	26451	26627
Kossuth	33617	32574	31811	30660	29292	29292	28439	27137	26868	25588	24232	32830	32261
Lee	37580	36135	35083	34061	32752	31370	30280	30280	30280	27247	25100	35159	33416
Linn	61872	58926	57210	55009	53407	51851	50098	48171	46542	44097	40088	58114	53370
Louisa	32500	31514	30896	29707	28496	27139	27139	26672	25895	24780	23280	30417	30993
Lucas	29923	29023	28173	27192	26400	25500	24194	23604	23121	21986	20494	28580	27284
Lyon	32250	31000	29300	28100	28100	27000	25950	24883	24883	23255	22360	30261	29768
Madison	31397	30189	29029	27489	26432	25411	24671	22950	22950	22950	21450	28480	28557
Mahaska	33990	32676	31420	30210	29330	28480	27920	27110	25820	24590	22980	31920	30594
Marion	37869	36820	35354	33993	32393	31517	30378	29601	28600	27000	24000	35324	31952
Marshall	36808	35840	35000	35000	35000	34396	33459	32762	32762	31351	29117	38551	38764
Mills	31865	29395	28264	27177	25883	24650	23702	23237	22781	21593	19674	27628	26192
Mitchell	32000	31055	30155	29277	28048	26616	25927	25419	24607	23105	21695	29831	28883
Monona	29775	28630	28630	27823	27118	26368	25700	24245	23760	21978	20478	29553	27263
Monroe	29723	28523	26523	25750	25000	24000	22979	22202	22202	20946	18689	26899	24881
Montgomery	31559	31016	29540	28679	27055	25524	24542	24542	23542	22421	21152	28607	28160
Muscatine	40697	36697	35197	33821	32521	31513	30595	29822	29237	27846	26517	35320	35303
O'Brien	33500	32400	31200	30000	28488	27720	26720	26000	25400	24400	23500	31068	31286
Osceola	30283	29259	28259	26987	26200	23815	23140	23140	22660	22000	20450	26692	27226
Page	33424	32450	31053	30125	29246	28450	27750	27200	26200	25000	21000	31887	27958
Palo Alto	37000	32995	31575	30450	29000	28000	26910	26000	26000	24000	21720	31382	28916
Plymouth	35816	34439	33139	31864	30788	29890	29133	28422	27329	26028	24100	33501	32085
Pocahontas	31200	30000	28117	27184	26265	25500	24500	24500	24500	23600	22400	28580	29822
Polk	68313	65050	61962	57372	55165	53043	51003	49041	47155	43863	42792	59450	56970
Pottawattamie	42167	40159	38614	35754	32503	31133	30227	29671	29671	29045	26421	34894	35175
Poweshiek	34906	33244	32120	31184	29985	29112	28538	27976	27563	26250	25000	32629	33283
Ringgold	24363	23877	23294	22726	22064	21013	21013	20401	19711	18422	17217	23551	22921
Sac	29632	28631	27663	26113	25475	25475	24035	24035	23685	22785	21000	28552	27958
Scott	55167	53560	52000	50000	46300	44300	43000	41600	40000	38000	35000	49651	46596
Shelby	31991	29622	28759	26886	26095	25091	24720	24000	24000	22600	21252	28122	28293
Sioux	41100	40100	39220	37530	36370	35450	34500	33500	32500	31000	29000	39732	38608
Story	48000	45677	43920	42230	41000	39500	36925	36100	34500	32500	29250	44271	38941
Tama	31185	29940	29068	28221	27399	26649	25896	25896	23896	23896	21635	29868	28803
Taylor	27104	26314	25548	24804	23850	23155	22481	22481	21616	20785	19795	25952	26354
Union	31280	30530	30030	29155	28390	26591	25791	25791	23838	22409	19486	29803	25942
Van Buren	29313	27813	26813	25755	24765	24061	23463	22561	22561	21166	20085	26967	26740
Wapello	35842	34463	32512	30585	30585	29094	28327	27369	26066	23118	22017	32608	29312
Warren	40000	38630	37505	35719	33825	33825	29413	28557	28053	26845	24483	37911	32595
Washington	35000	33500	32500	29866	29866	29209	28086	26160	26160	24200	22834	32737	30399
Wayne	27236	26336	26336	25575	24825	23870	23016	21770	21165	19850	18850	26753	25095
Webster	39503	37557	36114	34725	33500	31459	30662	29585	28985	27838	26418	35259	35171
Winnebago	34789	33289	32700	31500	30300	29000	27500	25700	25700	24500	22600	32503	30088
Winneshiek	33621	31821	30426	27906	27906	27156	26256	25256	24856	23672	22673	30436	30185
Woodbury	52403	49908	46950	44800	40000	36799	36800	35700	34000	31650	29500	41244	39274
Worth	31224	30463	28464	27642	26742	26291	25526	24781	24781	23772	22272	29467	29651
Wright	33975	32975	31475	30975	29975	29225	28225	26725	26725	25225	24000	32755	31952
Averages	34853	33424	32156	30870	29813	28768	27849	27129	26451	25038	23509	32243	31298

## County Recorders

Woodbury is the only county without the position of recorder; it was eliminated by referendum in the mid-1990s. In 2000, salaries for county recorders averaged \$34,000 across the remaining 98 counties (Table 3). This was lower than the averages for other elected positions considered to be full-time. As with auditors, recorders were paid less than \$25,000 only in Ringgold. Eleven counties reported salaries for recorders of \$40,000 or more, with only Linn, Polk, and Scott providing salaries greater than \$50,000.

The average county recorder earned \$10,800 more in 2000 than in 1990. Changes were less than \$10,000 in 42 counties and they were greater than \$15,000 in 12. Polk's increase of \$25,500 was substantially greater than those in Linn (\$21,800) and Scott (\$20,200); these were the only three greater than \$20,000. When adjusted for inflation, all counties had at least modest increases in salaries of auditors. In 19 counties, adjusted salaries were at least \$5,000 greater in 2000 than in 1990.

## County Sheriffs

Sheriffs earned from \$30,400 (Ringgold) to more than \$70,000 in Linn, Polk, Scott, and Story (Table 4). Polk's \$99,300 was \$19,300 higher than the figure for Story, which was in second place. The average across the state was \$44,700 in 2000. Sheriffs had the highest average among the elected positions thought to require full-time activity in all counties. Nearly two-thirds (61) varied from \$35,000 to \$44,999.

The average salary for sheriffs grew by nearly \$16,400 between 1990 and 2000. In 18 counties, increases were greater than \$20,000; Polk was the only one in which the gain exceeded \$40,000; Linn and Story were the only others in which the change was greater than \$30,000. Ida and Taylor were the only counties in which salaries for the position of sheriff increased by less than \$10,000. When adjustments were made for inflation, no county reported lower salaries for county sheriffs in 2000 than in 1990. Nineteen counties had inflation-adjusted increases of at least \$10,000.

## County Supervisors

Salaries for county supervisors varied from less than \$15,000 in Adams, Greene, Osceola, and Wayne to more than \$60,000 in Linn and Polk (Table 5). This range reflects at least in part the portion of time that duties related to these positions are thought to require across Iowa's 99 counties. The average salary was \$22,100 in 2000, which is much closer to the lower than higher end of the range. Only in Polk (\$68,313), Linn (\$61,872), and Story (\$48,000) were salaries for supervisors greater than \$34,000. In nearly two-thirds (65) of Iowa's 99 counties, salaries for supervisors ranged from \$18,000 to \$24,999 in 2000.

Increases in salaries for supervisors averaged \$6,600 from 1990 to 2000. That was the smallest average increase among any group of county elected officials, which reflects the fact that the salaries for supervisors also are the lowest on average. Gains of at least \$10,000 occurred in Cerro Gordo, Dallas, Jasper, Linn, Marshall, Polk, and Story, with Linn's increase of nearly \$29,600 the highest of these counties. Salaries in 2000 were less than \$5,000 higher than those in 1990 for supervisors in 27 counties, although the change in Wayne was the only one less than \$3,000.

When inflation is taken into account, supervisor salaries increased on average by about \$1,500 between 1990 and 2000. Linn, Polk, and Story were substantially above gains in other counties; each paid supervisors at least \$10,000 more at the end of the period than at the beginning even after inflation was added into the calculations. In 27 counties, increases in supervisor salaries were less than \$1,000; in another 24, salaries for supervisors were lower in 2000 than 1990 when the effects of inflation are factored into the equation.

## **County Treasurers**

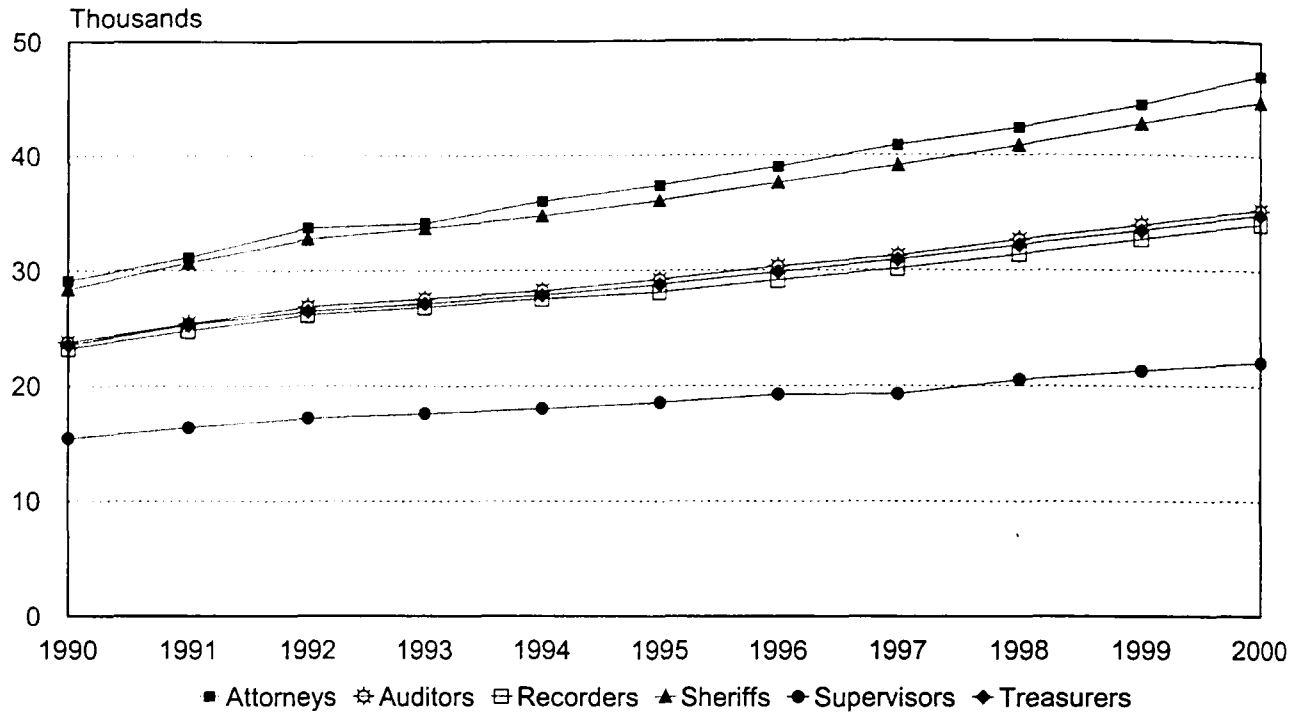
The final category of elected county officials includes treasurers. They averaged nearly \$34,900 in 2000, a figure much the same as those for auditors (\$35,300) and recorders (\$34,000) (Table 6). As noted for several of the offices, Ringgold had the lowest figure (less than \$25,000) while Linn, Polk, Scott, and Woodbury had the highest (more than \$50,000). Two-thirds (66) of the treasurers were in the \$30,000-\$39,999 range.

Increases in treasurer salaries from 1990 to 2000 ranged from less than \$10,000 in 42 counties to more than \$20,000 in four others. The average gain was about \$11,300 across the state. When these figures were controlled for inflation, the average increase dropped to nearly \$3,600. Only the increases in Polk and Woodbury were greater than \$10,000 after considering inflation; Marshall had a higher treasurer salary in 1990 than in 2000 when inflation-adjusted figures were compared.

## **Concluding Comments**

In general, salaries for elected officials are higher in counties with greater populations and lower in those with relatively few residents. The correlation is not perfect, of course, but trends are evident.

Figure 1. Average salaries of elected county officials, 1990–2000.



## Outstanding Obligations of Iowa's Counties: 1990-2000

Willis Goudy, Iowa State University  
Ma En-hua, Iowa State University

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Each year the Treasurer's Office of the State of Iowa publishes information on outstanding obligations of governmental units. These reports list outstanding debt as of June 30th for the state, cities, counties, school districts, state agencies, and other units of government. Obligations reported by 92 of Iowa's 99 counties in 2000 totaled \$146 million (Table 1, Figure 1). If estimates of those counties not reporting are included, then the total increases to \$185 million. The proportion of total state debt attributed solely to county government is relatively small; it amounted to about 3 percent each year. Far greater shares are held by cities (usually about 45%), schools (including area education agencies, community colleges, and the Board of Regents) (about 35%), state authorities (about 10%), and state agencies (about 5%).

The total obligations outstanding at a specified date are noted for counties in Table 1. Of those reporting in 2000, only Black Hawk and Lee listed more than \$10 million. Nearly a third (32) indicated that they had no outstanding obligations that year.

When the number of counties reporting debt increased between 1991 and 1992, so did the total value of those obligations (Figure 1). Debt jumped from \$107 million in 1990 to \$126 million in 1991. Another large increase occurred between 1991 and 1992, when the total was nearly \$153 million. It was \$164 million in 1993 and then declined slightly to \$159 million in 1994, increased to \$174 million in 1995 and 1996, then fell again to \$145 million in 1997. Increases occurred in each of the last three years, with totals reaching \$168 million in 1998, \$183 million in 1999, and \$185 million in 2000. These totals include the last known amount of outstanding debt reported by a county for those not giving information for the current year.

The total county obligations reported in Table 1 include several subtypes. General obligations, which are backed by the "full faith and credit" of the county and are paid from property tax levies, general revenues, and borrowings, accounted for about two-thirds of the total county obligations outstanding as of 2000. The only other classification that accounted for more than a tenth of the total included those called revenue obligations; other classes of obligations were general funds, leases, special assessments, tax allocations, and those not listed elsewhere.

Caution is urged in examining these figures. They vary dramatically across counties from year to year. Changes in state laws and in financing strategies determined within counties contribute to the volatility of these numbers. So do different reporting habits observed in Iowa's 99 counties.

**Note:** More detailed data are available in annual publications entitled "Outstanding Obligations Report." They can be obtained from the Treasurer's Office of the State of Iowa, State Capitol Building, Des Moines, IA 50319, or from the State Library of Iowa, Old Historical Building, East 12th and Grand, Des Moines, IA 50319.

Table 1. Outstanding Obligations (\$s) of Iowa's Counties, 1990-2000.

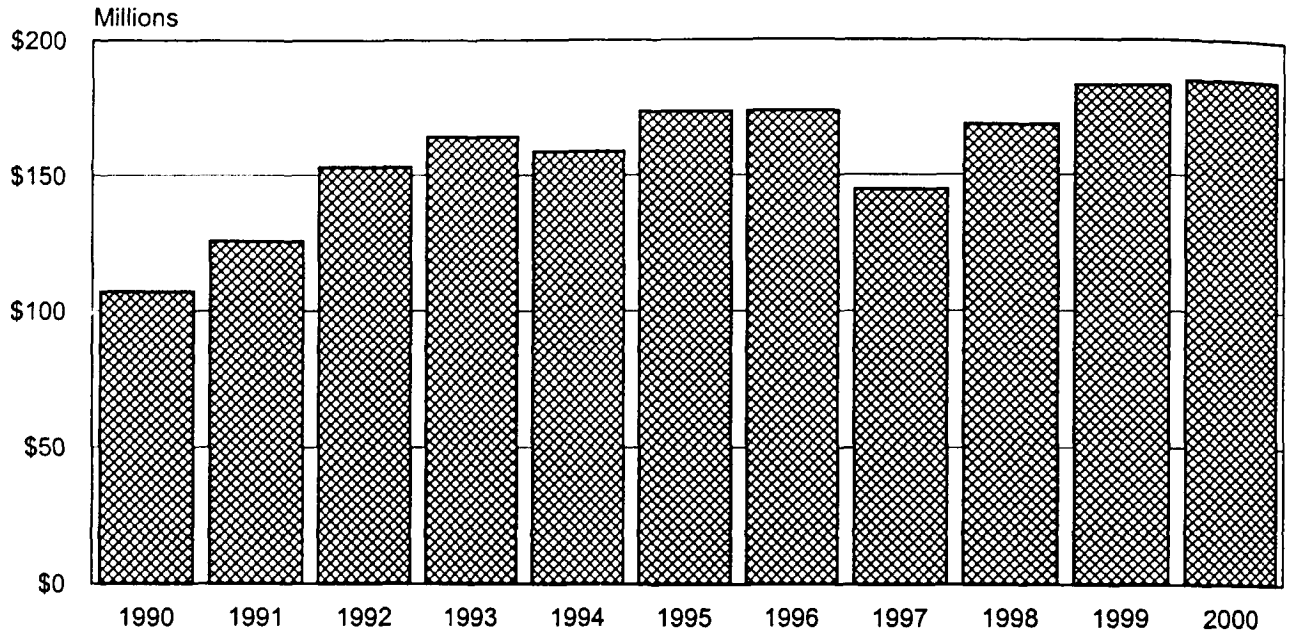
County	30 June 2000	30 June 1999	30 June 1998	30 June 1997	30 June 1996	30 June 1995	30 June 1994	30 June 1993	30 June 1992	30 June 1991	30 June 1990
Adair	525000	550000	0	62531	124100	186348	251270	303776	402144	0	0
Adams	360415	395415	400000	32494	64125	95071	*	139965	169893	0	0
Allamakee	49703	50426	75277	124948	147269	168438	193290	212619	231028	0	0
Appanoose	0	0	0	0	0	0	0	0	0	0	0
Audubon	1985000	2915000	2395000	2585000	2750000	300000	0	0	0	0	0
Benton	1110341	1202594	670000	755000	130000	0	190000	190000	380000	700000	675000
Black Hawk	19243444	18486979	19906668	21383240	22737383	16775000	19925000	24220000	24500000	25215000	11395000
Boone	0	0	0	0	0	0	0	0	0	0	0
Bremer	0	0	0	0	0	0	0	83919	123599	0	0
Buchanan	1214900	1168406	567500	0	0	0	0	1373	1373	112373	3235
Buena Vista	6395000	6740000	6990000	1240000	1360143	1620000	1880669	2135120	2375732	2611465	2828416
Butler	60000	60000	220000	35000	683319	60000	0	0	0	0	0
Calhoun	138885	163272	182528	265636	333099	374610	255624	307128	365762	0	434683
Carroll	597000	687000	905770	1135116	781849	983498	1095346	1259293	1370765	600000	0
Cass	0	0	0	56521	111062	389923	223942	280959	348287	0	0
Cedar	3850000	770000	951953	1088324	1219027	1339061	1458649	1581932	1681932	0	0
Cerro Gordo	1794038	1757085	655000	885000	973744	1449458	1390016	3604275	930805	334343	0
Cherokee	0	0	0	0	0	*	*	0	0	0	0
Chickasaw	0	0	0	0	0	0	0	0	0	0	0
Clarke	2501016	2462633	2732814	3025284	2830060	2780492	2069321	2150596	278980	0	0
Clay	0	0	0	0	0	0	0	0	0	0	0
Clayton	65000	125000	180000	230000	280000	325000	370000	410000	450000	450000	0
Clinton	0	0	0	0	0	0	3100	2008100	12800	17200	21300
Crawford	38145	56745	73453	89530	104662	118848	139024	158254	158254	0	0
Dallas	1690000	1940000	1530000	3260000	3535000	1995000	*	2010000	2109000	2190000	4725000
Davis	33396	129669	159995	427997	415015	470709	231288	318550	434305	170000	549270
Decatur	0	0	0	0	0	0	0	0	0	0	0
Delaware	0	0	0	0	0	0	0	0	0	0	0
Des Moines	0	0	270000	0	0	0	0	0	0	0	0
Dickinson	560500	595500	825000	85281	168415	250300	315459	389669	397068	0	0
Dubuque	0	0	0	0	0	0	0	0	0	0	0
Emmet	0	0	0	0	0	0	0	0	0	0	0
Fayette	0	0	0	0	0	*	0	0	0	0	*
Floyd	295000	575000	845000	1100000	1340000	0	0	0	0	0	0
Franklin	0	0	0	25000	50000	75000	100000	120000	140000	0	0
Fremont	0	0	0	0	0	41732	102132	128500	31521	159400	222137
Greene	2120000	2275000	2376600	2375000	2475000	2565000	2650000	2917964	2938617	0	110000
Grundy	1153162	354925	428301	576144	716986	822806	844098	835725	251027	0	45000
Guthrie	1050000	1155000	220000	220000	220000	235000	240000	260000	270000	280000	290000
Hamilton	285000	25000	50000	75000	95000	115000	135000	155000	170000	185000	200000
Hancock	0	0	0	0	0	0	0	0	0	0	0
Hardin	5250000	5300000	5350000	400000	0	0	*	0	0	0	0
Harrison	3666883	2160000	2160000	2200000	2200000	2000000	400000	0	0	0	0
Henry	0	20000	20000	180000	310000	455000	590000	765000	865000	955000	1160000
Howard	*	*	*	89382	89382	98537	113075	135151	135151	0	0
Humboldt	0	*	0	*	0	*	0	0	0	0	0
Ida	0	0	0	51172	98248	147934	187157	228624	278048	0	0
Iowa	0	10000	25000	45000	75000	258501	105000	306028	261028	50000	55000
Jackson	0	0	0	523710	587859	863803	1125263	1368014	1606720	1415000	1575000
Jasper	955000	990000	385000	415000	445000	651383	181383	349098	504175	647566	0

\*No data listed in the annual reports or data not reported by the deadline. Totals for the state released by the Treasurer's Office include figures for the last reported year for such counties.

Table 1. Outstanding Obligations (\$s) of Iowa's Counties, 1990-2000 (continued).

County	30 June 2000	30 June 1999	30 June 1998	30 June 1997	30 June 1996	30 June 1995	30 June 1994	30 June 1993	30 June 1992	30 June 1991	30 June 1990
Jefferson	6278178	2098500	327500	302000	329500	355500	367500	0	0	0	0
Johnson	*	196861	*	145151	145151	183625	183625	201988	219476	0	0
Jones	59437	86981	112591	160430	363385	385131	*	242579	210000	0	0
Keokuk	749489	745000	780000	815000	985000	325000	115000	60000	60000	135000	150000
Kossuth	0	125000	225000	325000	425000	525000	600000	675000	750000	800000	850000
Lee	14068500	15824500	17474500	19049000	19232500	18590000	8630000	1805000	7975000	2270000	2085000
Linn	*	*	*	*	6546765	6405421	4978951	4978951	5922442	5182112	5908338
Louisa	0	0	0	0	0	0	0	10260	12540	14820	17100
Lucas	319155	0	0	*	*	0	*	0	0	0	0
Lyon	0	0	0	0	0	0	0	0	0	0	0
Madison	764130	846757	922847	994517	960000	1005000	745000	885000	1000000	315000	430000
Mahaska	1830078	2330314	2874268	3357580	714751	836281	956670	1067971	895000	975000	0
Marion	0	0	0	137897	277572	420864	580171	722307	779429	0	0
Marshall	5475000	5900000	2850000	2600000	0	0	0	0	0	0	0
Mills	0	0	3875	152349	289117	431315	575710	809648	815904	0	0
Mitchell	2273759	217199	260639	55789	145760	253857	361952	475855	532326	413606	673134
Monona	0	0	0	88914	176968	267780	362809	442804	488802	519392	631915
Monroe	1290000	1620000	1930000	2165000	820000	970000	1105000	1235000	1355000	1455000	515000
Montgomery	809759	490633	0	0	0	0	0	0	0	0	0
Muscatine	6445000	6640000	0	*	0	0	375000	750000	1050000	1645000	1649803
O'Brien	3700000	3700000	0	0	0	0	0	0	0	0	0
Osceola	139014	189873	237342	283115	327192	369575	410262	449254	0	0	0
Page	305000	400000	490000	575000	655000	730000	805000	875000	0	0	0
Palo Alto	67591	73000	0	0	0	0	0	0	0	0	0
Plymouth	640000	715000	785000	946201	183393	271345	360393	454307	492885	0	0
Pocahontas	59437	86981	112591	137236	154632	182176	202955	152237	242579	0	0
Polk	*	28870000	31925000	26930000	56270000	63280000	63895000	67350000	58135000	51470000	50525000
Pottawattamie	*	*	*	*	*	*	0	0	0	105900	*
Poweshiek	276499	138500	104106	352116	479249	378867	455455	265682	315682	95000	135000
Ringgold	320000	0	0	64588	124112	175976	227861	283425	332663	0	0
Sac	*	*	161393	253670	342463	429804	554498	613316	358780	0	447014
Scott	8745000	9610000	10420000	11175000	11895000	12560000	5885000	6255000	2735000	3160000	*
Shelby	718880	560570	119462	142501	164687	186019	206499	235511	0	0	0
Sioux	0	0	0	0	0	0	0	0	0	0	0
Story	*	2700000	0	0	1260000	1470000	1670000	1930000	2183333	2213494	*
Tama	0	115000	220000	320000	415000	500000	580000	650000	720000	785000	850000
Taylor	0	0	0	0	0	*	*	20000	40000	60000	80000
Union	1230000	1400000	1650000	215000	315000	410000	515000	480000	555000	680000	680000
Van Buren	2147005	2209458	2256224	2300000	2600000	0	0	0	0	0	*
Wapello	7982500	10498000	12409827	1862817	2048476	2116276	1864721	934899	1198532	456570	0
Warren	4010000	*	4610000	961760	1055843	1492520	1695357	422992	488669	0	0
Washington	4630000	5052500	4253816	880000	1138734	1388196	1265562	1429000	962510	1046936	614866
Wayne	0	0	40000	175000	175000	175000	254000	200000	225000	245000	0
Webster	1995000	2265000	2585000	2865000	460000	1525000	1765000	2315000	2315000	2740000	5472000
Winnebago	82161	82161	112970	141579	141579	337444	177525	194720	0	0	0
Winneshek	6279261	6513646	4956665	5564665	5471341	5946894	6424743	5481753	5189681	2162685	0
Woodbury	2896717	4276000	5077000	6616000	8144000	9568000	9307965	9100000	9730000	10010000	10675000
Worth	34754	50402	59335	70779	81798	92394	102566	116976	0	0	0
Wright	2322774	2370431	732046	789088	875186	961202	1055471	250000	465000	475000	475000
State of Iowa	184820167	183111314	168504884	144652547	173639901	173512914	158754472	164156067	152924247	125522862	107153211

Figure 1. Outstanding obligations in Iowa's counties, 1990–2000.





## Lottery Sales in Iowa's Counties: 1993-2000

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Jessica Rohrig, Iowa State University

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When county figures were summed for fiscal year 2000 (July 1999 through June 2000), lottery sales in Iowa totaled \$178 million (Table 1). Included in the total are instant ticket, lotto, multistate, pulltabs, cash game, dream draw, daily millions, cash-4-life, and pick 3 sales. According to figures in annual reports, sales dropped by \$33 million from 1993 to 2000.

Sales varied considerably across Iowa's counties, although caution is urged in interpreting these figures because lottery purchases are made not only by residents living in a particular county. Less than a half million dollars in sales were noted in 19 counties; in Adams, Davis, Decatur, Guthrie, Lyon, Osceola, Ringgold, and Taylor, sales of less than \$250,000 occurred. In 48 of Iowa's 99 counties, however, lottery sales exceeded \$1 million. Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, and Woodbury had at least \$5 million in sales of lottery products in 2000.

More than three-quarters (77) of the counties followed the state's pattern of lower sales in 2000 than in 1993. Many of these drops were modest, however; for example, 24 counties declined in sales by less than \$100,000 when 1993 and 2000 were compared. Nine counties dropped by at least a half million, with Pottawattamie's decline of \$12.7 million exceeding Polk's decrease of \$4.9 million, which was the second greatest, by \$7.8 million. Among the 22 counties with higher lottery sales in 2000 than in 1993, increases exceeded \$500,000 only in Scott. Seven others had 2000 sales at least \$100,000 greater than those in 1993.

When lottery sales are divided by the estimated population, sales figures per person living in the county result. Per capita sales in the state declined from \$75 in 1993 to \$60 in 1997. Increases of \$1 occurred between 1997 and 1998 and \$3 between 1998 and 1999; per capita sales dropped to \$62 in 2000. Nineteen counties had lottery sales of at least \$75 for every resident in 2000; sales in Allamakee, Cerro Gordo, Fremont, and Wapello were at least \$100 per person that year. Some counties with high per capita purchases were urban while others were rural. Although most of the 33 counties with sales of less than \$50 per person were rural in nature, a few contained relatively large populations (Figure 1).

When 1993 and 2000 were compared, 40 counties decreased by at least \$10 per person in lottery sales (Figure 2). Six (Guthrie, Harrison, Lyon, Mills, Page, Pottawattamie) dropped by at least \$30 per resident; Pottawattamie's decline of \$155 was much greater than any other. Twenty-one counties had higher per capita sales in 2000 than in 1993, with only Hancock increasing by at least \$20 per person.

Comparing population, total lottery sales, and per capita lottery sales yields additional differences across counties. For example, only seven counties have fewer residents than Fremont, yet this county had higher per capita lottery sales than all other counties. It is likely that Fremont's location, bordered by Missouri and Nebraska, inflated sales. Sioux, on the other hand, was tied for lowest on per capita lottery sales but was 22<sup>nd</sup> on population in 2000. Understanding geographic location plus the situation in a specific county will assist in interpreting these numbers for any one year and changes across the years.

**Note:** For additional information on lottery sales, see annual reports published by the Iowa Lottery from 1986 through 2000. Data are for fiscal years. Before 1993, no county totals were reported. Rather, information on a county's share of the state's total sales from instant tickets was provided. No totals from other sources were noted; nor were data on instant tickets alone listed in the 1993-2000 reports. Thus, numbers consistently using the same base are not included in the annual reports for the entire period during which the lottery has been in place. In addition, the figures reported in this section do not include receipts from other forms of gambling that occur in some counties.

Table 1. Lottery Sales in Iowa's Counties, Fiscal Years 1993-2000.

County	Sales (\$)								Per Capita Sales (\$)							
	2000	1999	1998	1997	1996	1995	1994	1993	2000	1999	1998	1997	1996	1995	1994	1993
Adair	553083	435791	355836	383848	458836	443671	529108	584414	69	54	44	47	56	54	64	70
Adams	193912	217087	199910	187803	192765	222003	209180	231837	44	49	46	43	43	49	46	51
Allamakee	1402103	1419802	1305070	1263846	1276674	1297902	1430113	1646153	100	101	93	90	91	92	102	117
Appanoose	1094010	1190138	1147611	1164960	1201498	1191318	1085579	1087248	81	89	85	86	88	88	80	79
Audubon	283827	300127	345601	369377	312722	362119	382895	383872	42	44	51	54	46	53	55	55
Benton	1108435	1066765	956023	890335	961234	967101	947201	1045511	43	41	38	36	39	40	40	45
Black Hawk	11531097	11895933	11165358	10583045	11037354	10857063	10729014	11998134	96	99	92	87	90	89	87	97
Boone	1271996	1273778	1268726	1351186	1477474	1666721	1734372	1716073	48	48	49	52	57	65	69	68
Bremer	1284259	1303988	1289038	1321236	1506192	1495285	1535294	1696955	55	56	55	57	65	64	66	73
Buchanan	1559728	1673877	1649324	1506757	1467242	1599578	1484086	1514017	74	79	78	71	69	75	70	72
Buena Vista	1066177	1220598	1124620	1134046	1290844	1235247	1196386	1351144	55	63	58	58	65	62	60	67
Butler	853637	910072	844759	841990	965646	993118	1045241	1169095	55	59	54	54	61	63	67	75
Calhoun	410538	375481	379699	472597	568794	616299	611786	625003	36	33	33	41	50	53	52	54
Carroll	1301731	1353201	1240560	1160469	1254622	1193472	1123313	1145593	60	63	57	54	58	55	52	53
Cass	880859	908732	907932	1021435	1174535	1188499	1005537	947455	61	63	62	69	79	80	67	63
Cedar	663400	721450	696132	718046	817238	828366	936530	991758	37	40	39	40	46	47	54	57
Cerro Gordo	4811060	4832028	4673383	4611208	4880286	4941607	4875490	4898106	105	106	101	100	105	106	105	105
Cherokee	810232	894349	803395	826979	944087	1066035	904497	831326	62	68	61	62	70	78	65	60
Chickasaw	802608	849136	759374	705427	769977	794924	885618	886305	60	63	57	53	57	59	66	67
Clarke	562333	579066	473695	508963	552469	492978	496584	569835	68	70	57	62	67	60	61	68
Clay	1439176	1394930	1334239	1204238	1384487	1299999	1222046	1292791	83	81	76	68	79	74	69	73
Clayton	1407134	1504696	1444587	1374965	1556058	1628775	1792161	1942265	76	81	77	73	83	87	95	103
Clinton	3533799	3956760	3399432	3338738	3905862	3929675	3275360	3241088	71	80	68	67	78	77	64	63
Crawford	1158811	1127159	1037601	1193372	1282747	1311032	1343462	1145254	71	69	63	72	78	80	82	69
Dallas	1620273	1474781	1458329	1597083	1857000	2035530	2126089	2080861	42	39	40	45	54	61	65	65
Davis	243678	241939	215285	227749	331538	355622	376863	401182	29	28	25	27	39	42	45	48
Decatur	211354	216999	188709	183767	185278	207378	221532	252249	25	26	23	23	23	25	27	31
Delaware	1076173	1067379	996967	938386	1145333	1107901	1145136	1170375	58	58	54	51	62	60	62	64
Des Moines	2566967	2797744	2421945	2416358	2894916	2912734	2888642	2517636	61	67	58	57	68	68	67	59
Dickinson	1346992	1454868	1374542	1384821	1605080	1469914	1417459	1475120	83	89	85	86	102	94	92	96
Dubuque	5643471	6013728	5464218	5219926	5947498	6278458	6132153	6186708	64	68	62	59	67	71	70	70
Emmet	828638	880020	799246	756132	829007	822589	983765	975648	78	83	74	69	75	74	87	86
Fayette	1358724	1345366	1430934	1379269	1488929	1532349	1583820	1692264	63	62	66	63	68	70	72	77
Floyd	1405843	1455225	1383615	1293103	1389568	1251978	1335764	1307691	86	90	85	78	84	75	80	78
Franklin	751675	797088	618435	633587	781588	733108	748742	764327	70	74	57	58	71	67	68	68
Fremont	943074	1002628	843376	774674	1000564	1007534	1167242	898259	122	130	109	99	126	125	143	110
Greene	565087	554810	575999	465191	513834	573212	533965	521366	56	55	57	46	51	57	53	51
Grundy	408301	410653	395302	374270	421289	448762	534422	655087	33	33	32	30	34	37	44	54
Guthrie	209646	370325	445305	493918	562193	553823	589109	631303	18	32	39	43	49	49	52	56
Hamilton	1431367	1526058	1504180	1447029	1639287	1767373	1681769	1655330	90	96	94	90	102	109	105	103
Hancock	1037468	986941	900061	909411	935609	887451	884917	757817	86	82	75	76	77	73	73	62
Hardin	1091896	1180820	1192696	1219015	1397843	1418216	1415437	1462363	60	65	65	66	75	76	76	79
Harrison	861158	928552	882874	851917	1021874	1132615	1433061	1318845	57	61	58	56	67	75	96	89
Henry	1318458	1380202	1192221	1108554	1212098	1205163	1145801	1023440	65	69	59	56	61	61	58	52
Howard	716580	755141	784033	728006	790849	751051	703908	771700	75	79	81	75	81	77	72	78
Humboldt	772568	754657	713108	666436	802756	837603	857861	963766	76	74	69	64	77	81	82	92
Ida	284485	272235	238819	215034	231272	272023	298732	280895	36	34	30	27	29	33	36	34
Iowa	760723	734659	631139	684971	757049	764487	812330	935354	49	47	41	44	49	50	54	63
Jackson	1322506	1395564	1322267	1308177	1541739	1609364	1415969	1380415	66	69	66	65	77	80	70	69
Jasper	1680319	1780243	1698483	1771003	1898939	2090423	2226090	2264490	46	49	46	49	54	59	63	65



Figure 1. Per capita lottery sales, 2000.

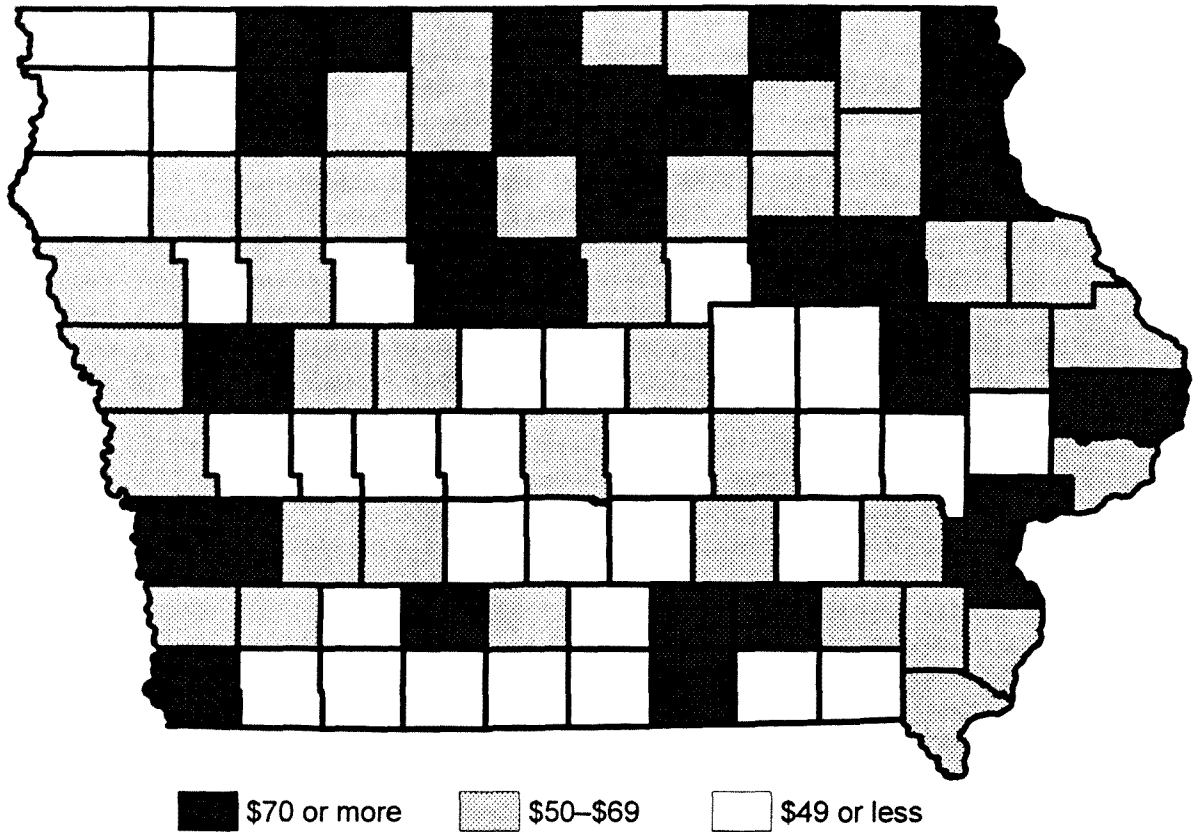
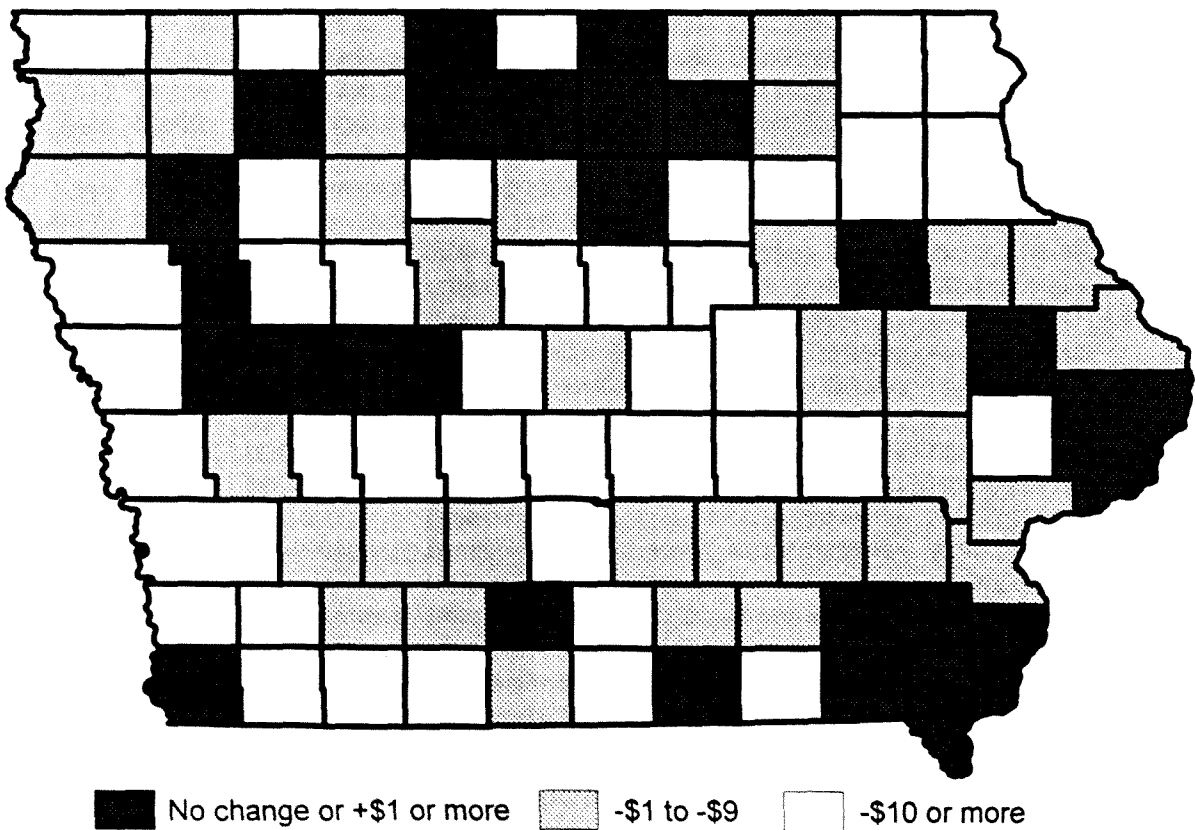


Figure 2. Change in per capita lottery sales, 1993–2000.



## Food Stamps in Iowa's Counties: 1984 and 1989-1999

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The Iowa Department of Human Services maintains information on the number of persons and households receiving food stamps each month. For this report, averages of persons, households, and benefits were calculated for 1984 and each year from 1989 through 1999; numbers from monthly reports were summed and divided by 12. Through this period, the federal government has made changes in the eligibility requirements for food stamps, which have some effect on year-to-year comparisons.

### Households Receiving Food Stamps

An average of 53,613 households received food stamps each month in 1999 (Table 1). This was a decrease of nearly 3,900 from the 1998 figure, the sixth consecutive decline. From 76,000 to 79,000 households received food stamps monthly in 1984 and from 1992 through 1994.

Polk averaged nearly 7,000 households receiving food stamps each month in 1999, the highest of any county. Other counties with more than 2,000 food stamp households were Black Hawk, Linn, Pottawattamie, Scott, and Woodbury. These six highest counties accounted for more than two-fifths (41.8%) of Iowa's average monthly food stamp households that year. Adams, Audubon, Grundy, Ida, Mitchell, Osceola, and Worth averaged less than 100.

Eleven counties averaged more households in the program in 1999 than in 1998, although no gain was more than 15. The largest decrease occurred in Polk (-631); eight other counties had declines greater than 100. A comparison of 1989 with 1999 indicates that Iowa averaged 13,317 fewer households in the program at the end of the period than at the beginning. Likewise, 91 counties had fewer households receiving food stamps in 1999 than in 1989; 35 decreased by more than 100 households. Black Hawk and Polk were the only counties with declines greater than 1,000 between those years. Of the eight counties with higher averages in 1999 than in 1989, only Johnson gained more than 100.

### Persons Receiving Food Stamps

In 1999, Iowa had an average of 127,100 persons receiving food stamps each month (Table 2, Figure 1). Polk averaged more monthly food stamp recipients (16,527) in 1999 than any other county. Scott was the only other with more than 10,000 persons receiving food stamps monthly that year.

The average number of persons receiving food stamps in the state was 10,300 lower in 1999 than in 1998. Eighty-nine of Iowa's 99 counties followed this trend as well. Black Hawk, Linn, Polk, and Pottawattamie had decreases that exceeded 500. Among the nine counties with an increase, none had a gain greater than 40 between the two most recent years. Comparing 1989 and 1999, Iowa had an average of 40,300 fewer persons in the food stamp program at the end of the period. All but six counties followed this trend, with Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, Webster, and Woodbury counting at least 1,000 fewer in 1999 than in 1989. Only Johnson and Montgomery had increases of more than 100. A review of the entire period indicates that most counties noted declines in the numbers receiving food stamps from 1984 to 1989, although gains took place in most counties from 1989 to 1993. From 1994 to 1999, declines again occurred.

Table 1. Average Monthly Number of Households Receiving Food Stamps in Iowa's Counties, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	128	142	170	196	188	188	195	183	185	178	166	198
Adams	89	111	119	137	141	150	150	153	146	140	131	99
Allamakee	177	205	236	235	243	254	265	255	234	222	229	298
Appanoose	590	613	684	764	735	738	734	731	684	664	704	797
Audubon	79	82	96	103	111	122	115	130	120	112	109	115
Benton	271	322	366	394	417	450	482	515	484	489	447	531
Black Hawk	3898	4147	4605	4977	5052	5191	5206	5066	4961	5043	5200	6237
Boone	358	399	468	549	580	631	659	637	566	484	499	607
Bremer	221	222	245	294	296	357	351	303	322	313	304	410
Buchanan	292	325	355	418	424	466	486	506	553	536	546	689
Buena Vista	316	317	346	346	355	368	371	371	346	300	280	311
Butler	192	208	225	274	300	305	283	299	298	294	294	369
Calhoun	188	199	228	256	254	280	271	273	256	233	224	240
Carroll	286	282	303	349	354	364	369	350	340	347	361	348
Cass	239	253	302	333	366	398	391	365	331	312	298	336
Cedar	218	246	306	342	339	360	350	337	312	305	297	300
Cerro Gordo	954	1037	1152	1351	1328	1420	1427	1396	1305	1224	1174	1131
Cherokee	178	176	197	218	221	230	236	227	213	201	205	245
Chickasaw	150	146	165	196	196	214	210	221	213	218	219	313
Clarke	214	236	254	301	314	323	320	315	275	252	230	251
Clay	299	293	312	349	375	398	416	430	427	413	405	453
Clayton	183	190	205	240	233	256	278	298	302	315	344	488
Clinton	1387	1446	1599	1863	1862	1921	1906	1836	1761	1682	1587	1762
Crawford	313	338	371	452	455	459	418	398	398	394	376	359
Dallas	357	414	455	540	559	571	592	593	565	550	539	646
Davis	139	152	177	198	225	232	236	255	242	247	268	293
Decatur	338	369	386	442	458	486	455	423	392	365	349	327
Delaware	246	247	271	312	326	345	361	359	353	376	395	533
Des Moines	1189	1307	1400	1502	1521	1552	1557	1462	1384	1310	1272	1392
Dickinson	208	224	234	256	277	276	268	265	256	240	241	264
Dubuque	1340	1472	1555	1714	1652	1779	1868	1879	1840	1867	1917	2746
Emmet	169	182	204	240	277	306	320	339	342	324	285	279
Fayette	488	478	525	574	573	619	634	626	617	565	568	687
Floyd	332	361	381	434	472	516	497	491	457	459	443	507
Franklin	159	183	222	241	251	249	248	256	238	227	213	220
Fremont	195	223	234	264	266	278	255	244	219	209	215	191
Greene	198	195	209	245	245	244	231	222	225	200	190	260
Grundy	91	104	113	137	131	117	136	164	168	148	156	170
Guthrie	181	193	221	260	270	298	303	289	266	228	244	274
Hamilton	237	262	297	330	332	382	397	413	379	326	316	324
Hancock	123	133	154	186	190	217	234	229	223	222	198	177
Hardin	280	320	375	446	491	552	522	485	429	391	385	317
Harrison	305	333	378	426	435	451	471	480	444	416	412	441
Henry	355	387	430	464	472	504	471	458	430	385	347	352
Howard	127	131	151	170	191	213	218	214	206	220	229	289
Humboldt	153	159	179	200	223	228	251	244	228	228	221	201
Ida	98	103	109	112	120	112	113	109	110	92	87	98
Iowa	120	146	163	175	178	193	177	173	159	151	136	146
Jackson	379	383	436	506	537	574	563	536	535	519	529	606
Jasper	500	551	567	642	650	699	758	740	723	641	626	886

Table 1. Average Monthly Number of Households Receiving Food Stamps in Iowa's Counties, 1984, 1989-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	398	420	461	539	549	576	574	551	526	484	463	466
Johnson	1169	1183	1347	1444	1360	1344	1323	1269	1141	998	946	937
Jones	255	280	308	354	367	372	386	355	337	321	348	431
Keokuk	276	294	326	355	324	332	355	340	353	330	299	281
Kossuth	205	237	252	281	316	340	349	361	334	304	294	263
Lee	1039	1091	1192	1310	1287	1397	1435	1418	1367	1268	1232	1477
Linn	3148	3462	3890	4376	4462	4741	4628	4518	4343	4029	3927	5023
Louisa	212	252	295	337	345	347	343	341	318	275	258	324
Lucas	257	291	321	372	376	398	362	344	338	316	313	380
Lyon	105	104	116	143	152	156	158	150	132	135	135	163
Madison	141	151	176	215	233	243	253	242	231	210	217	253
Mahaska	513	575	649	671	646	669	689	697	688	662	632	723
Marion	412	440	514	600	631	666	664	622	575	519	498	658
Marshall	955	1017	1145	1261	1196	1250	1287	1261	1150	1038	1014	1093
Mills	231	244	288	317	345	364	346	326	316	280	241	250
Mitchell	96	97	121	136	134	155	165	180	166	156	165	201
Monona	221	233	259	294	314	328	330	345	327	304	302	325
Monroe	243	244	269	303	312	313	315	306	301	306	329	308
Montgomery	326	312	327	353	373	367	341	346	300	266	263	282
Muscatine	955	1051	1210	1330	1303	1314	1287	1294	1227	1183	1119	1174
O'Brien	151	162	182	208	210	209	210	222	189	180	174	247
Osceola	57	61	84	98	103	100	101	93	96	90	95	100
Page	457	471	489	507	502	552	543	538	539	494	480	492
Palo Alto	169	175	202	230	263	294	294	296	279	255	241	292
Plymouth	247	245	271	284	282	279	274	270	263	255	276	345
Pocahontas	164	155	171	192	205	212	216	220	208	178	141	166
Polk	6965	7596	8649	10152	10429	11144	11342	10793	10006	9123	8726	10506
Pottawattamie	2031	2208	2447	2718	2888	3144	3147	3038	2834	2520	2344	2340
Poweshiek	236	274	305	353	359	371	368	364	352	307	262	347
Ringgold	154	163	174	185	177	192	199	185	181	176	177	203
Sac	176	186	207	228	246	230	216	226	219	197	203	243
Scott	4348	4501	5201	6181	6364	6623	6512	6131	5747	5403	5172	5512
Shelby	178	179	196	220	242	236	235	223	211	189	161	222
Sioux	176	195	215	254	262	235	218	248	248	254	280	286
Story	728	794	919	1031	1091	1109	1070	1057	958	874	821	890
Tama	226	227	260	274	286	332	357	391	364	335	321	375
Taylor	133	153	181	220	211	209	206	192	195	188	176	231
Union	300	318	370	467	485	488	466	451	448	436	421	453
Van Buren	141	148	161	174	178	182	209	204	208	198	194	233
Wapello	1448	1610	1776	1886	1851	1856	1843	1846	1752	1668	1686	1706
Warren	339	394	465	518	602	698	729	706	666	603	568	596
Washington	284	299	328	371	358	376	369	365	359	343	319	257
Wayne	194	191	214	245	247	241	249	243	230	223	223	282
Webster	1030	1152	1337	1524	1544	1614	1694	1651	1593	1478	1456	1411
Winnebago	143	148	181	197	198	216	226	216	208	187	167	325
Winneshiek	182	198	238	264	266	300	305	295	279	273	284	371
Woodbury	2009	2049	2282	2501	2584	2819	3049	3182	3069	2847	2729	3268
Worth	73	93	108	117	130	154	176	189	178	180	164	184
Wright	194	211	252	294	312	341	328	330	306	296	269	326
State of Iowa	53613	57479	64461	72831	74358	78261	78758	76974	73113	68705	66930	76577

Table 2. Average Monthly Number of Persons Receiving Food Stamps in Iowa's Counties, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	277	326	406	485	455	458	487	452	464	447	399	587
Adams	224	282	309	362	362	402	407	436	395	379	340	282
Allamakee	392	476	581	574	611	661	676	634	609	560	594	832
Appanoose	1333	1432	1629	1808	1783	1808	1853	1865	1742	1677	1753	2263
Audubon	219	228	272	283	290	332	323	370	334	323	308	330
Benton	656	803	969	1040	1125	1210	1311	1368	1268	1269	1139	1454
Black Hawk	9112	9828	10931	11598	11826	12430	12517	12190	12002	11989	12398	15476
Boone	829	952	1134	1322	1405	1514	1562	1544	1412	1196	1246	1580
Bremer	501	526	602	744	760	937	930	786	836	779	760	1214
Buchanan	723	845	948	1154	1195	1358	1395	1428	1515	1434	1473	2062
Buena Vista	761	771	832	882	902	935	947	962	929	795	766	885
Butler	437	503	557	712	776	805	713	798	809	789	793	1038
Calhoun	441	471	540	601	600	656	654	677	624	585	566	595
Carroll	663	700	742	842	884	923	932	863	862	869	894	944
Cass	558	625	741	851	969	1090	1056	992	892	830	781	851
Cedar	540	592	725	829	811	910	899	857	814	783	764	823
Cerro Gordo	2089	2315	2578	3027	3057	3269	3287	3211	2988	2821	2678	2810
Cherokee	369	375	440	509	508	569	598	585	556	523	509	622
Chickasaw	387	350	423	499	514	574	558	601	564	571	590	937
Clarke	514	580	645	792	829	864	848	844	749	678	618	727
Clay	625	623	688	765	816	925	990	1041	1037	978	970	1187
Clayton	449	468	532	615	621	709	762	803	803	853	936	1399
Clinton	3322	3414	3745	4270	4356	4603	4608	4378	4257	4089	3935	4688
Crawford	769	850	964	1168	1180	1203	1091	1018	1029	1021	942	968
Dallas	830	986	1105	1354	1445	1512	1525	1543	1474	1400	1345	1790
Davis	318	346	410	448	522	566	582	640	601	617	680	896
Decatur	666	753	840	985	1025	1105	1050	977	918	850	833	858
Delaware	592	626	692	812	882	937	992	952	914	984	1074	1530
Des Moines	2877	3240	3425	3579	3654	3828	3860	3624	3483	3348	3215	3666
Dickinson	486	513	538	576	618	629	612	609	616	570	636	694
Dubuque	3169	3500	3781	4207	3992	4389	4597	4608	4422	4528	4705	7311
Emmet	412	452	501	581	668	768	817	865	823	810	770	840
Fayette	1170	1144	1304	1431	1450	1631	1694	1696	1628	1495	1529	1833
Floyd	837	908	998	1125	1250	1417	1331	1329	1238	1216	1173	1500
Franklin	361	410	508	574	638	646	637	669	624	592	550	590
Fremont	479	550	592	678	668	734	662	638	567	544	564	544
Greene	482	487	521	625	637	658	644	599	599	511	475	699
Grundy	210	248	286	349	345	320	414	454	440	384	388	477
Guthrie	436	473	551	647	695	780	807	766	707	595	630	811
Hamilton	526	576	665	748	771	940	969	995	943	789	764	829
Hancock	314	340	389	489	488	590	652	673	637	631	538	516
Hardin	656	747	877	1053	1195	1389	1321	1246	1097	975	951	841
Harrison	767	865	981	1120	1134	1206	1250	1282	1212	1129	1124	1229
Henry	800	875	982	1102	1114	1232	1209	1174	1120	990	889	996
Howard	303	324	387	432	477	574	575	535	501	535	556	782
Humboldt	349	366	402	449	513	542	590	587	538	527	506	579
Ida	260	277	287	299	315	290	320	302	307	222	215	269
Iowa	294	364	423	464	472	511	469	457	432	403	352	408
Jackson	896	890	1039	1212	1333	1482	1476	1448	1451	1416	1443	1860
Jasper	1114	1237	1310	1479	1514	1645	1812	1749	1693	1515	1501	2329



Table 2. Average Monthly Number of Persons Receiving Food Stamps in Iowa's Counties, 1984, 1989-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	871	911	990	1153	1181	1301	1313	1279	1198	1096	1045	1154
Johnson	2606	2633	2975	3206	3026	3010	2977	2826	2544	2263	2110	2040
Jones	621	703	796	899	964	983	1019	940	908	830	905	1214
Keokuk	708	760	840	912	850	891	948	921	980	906	853	843
Kossuth	526	604	632	717	841	937	961	974	884	790	758	741
Lee	2576	2705	2946	3223	3157	3562	3681	3583	3398	3118	3076	3868
Linn	7198	8006	8875	9698	10139	10955	10787	10637	10247	9451	9170	12203
Louisa	541	673	794	858	878	899	886	896	855	745	709	965
Lucas	593	699	778	865	898	935	856	834	794	738	726	1026
Lyon	278	259	316	407	425	461	461	460	397	411	412	515
Madison	326	355	425	534	587	642	667	643	623	554	576	712
Mahaska	1216	1352	1518	1579	1511	1609	1684	1724	1726	1632	1578	1942
Marion	977	1012	1217	1432	1561	1682	1676	1575	1459	1344	1314	1865
Marshall	2248	2349	2672	2932	2810	3012	3023	2953	2716	2483	2403	2804
Mills	699	719	824	901	953	998	932	906	870	757	657	771
Mitchell	211	214	265	301	308	377	416	468	427	387	406	539
Monona	494	525	578	682	754	850	879	944	906	819	809	902
Monroe	548	557	644	731	789	831	823	784	769	787	820	844
Montgomery	801	779	844	900	948	932	869	872	750	652	634	718
Muscatine	2357	2648	3116	3461	3419	3531	3561	3600	3413	3262	3069	3225
O'Brien	381	404	432	520	562	564	573	592	464	443	421	716
Osceola	136	139	212	274	275	265	266	249	263	230	248	306
Page	1037	1092	1121	1217	1178	1295	1294	1326	1363	1233	1247	1309
Palo Alto	293	316	401	449	523	617	641	674	661	626	590	786
Plymouth	549	546	609	642	665	661	650	680	688	706	761	994
Pocahontas	363	351	395	444	501	526	535	544	528	423	353	471
Polk	16527	18152	20688	23883	25001	27254	27498	26387	24392	22267	21124	26324
Pottawattamie	5099	5604	6298	7013	7498	8264	8363	8150	7588	6682	6181	6554
Poweshiek	558	646	728	863	884	946	946	930	893	775	657	934
Ringgold	355	391	435	486	464	511	531	494	480	467	468	553
Sac	412	458	526	596	634	603	590	611	603	559	548	685
Scott	10956	11293	13024	15143	15832	16632	16474	15903	14971	14041	13471	14656
Shelby	428	466	523	593	669	631	658	657	597	532	443	618
Sioux	470	535	583	702	738	656	610	706	712	770	858	897
Story	1581	1729	2031	2288	2445	2504	2422	2318	2092	1907	1837	2140
Tama	543	543	659	756	783	914	987	1098	1009	876	825	1141
Taylor	356	423	491	598	568	554	560	519	565	548	518	702
Union	674	732	876	1100	1136	1188	1203	1153	1152	1100	1065	1221
Van Buren	342	385	411	459	475	493	590	568	575	544	526	723
Wapello	3228	3639	4082	4252	4228	4327	4361	4365	4197	3935	3967	4419
Warren	823	977	1170	1267	1488	1739	1828	1764	1638	1485	1428	1683
Washington	690	721	804	952	912	969	960	968	944	908	886	751
Wayne	474	459	520	607	643	648	694	680	630	631	599	799
Webster	2367	2617	3119	3457	3593	3818	4036	3884	3750	3492	3462	3703
Winnebago	331	349	456	487	491	525	534	528	519	476	400	442
Winneshiek	395	440	548	623	646	758	796	760	716	704	747	987
Woodbury	5014	5068	5687	6327	6529	7247	8044	8581	8319	7646	7229	8840
Worth	133	198	238	270	309	363	449	445	412	407	354	499
Wright	440	504	607	724	775	859	829	853	796	733	622	806
State of Iowa	127139	137480	155436	174928	180890	194193	196603	193318	183856	171980	167415	202907

Table 3. Average Monthly Percentage of All Residents Receiving Food Stamps in Iowa's Counties, 1984, 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	3.4	4.0	5.0	5.9	5.5	5.5	5.8	5.4	5.5	5.3	4.7	6.4
Adams	5.1	6.4	7.0	8.1	8.0	8.8	8.9	9.4	8.4	7.8	6.8	5.2
Allamakee	2.8	3.4	4.1	4.1	4.3	4.7	4.8	4.5	4.4	4.0	4.2	5.6
Appanoose	9.9	10.6	12.1	13.3	13.1	13.3	13.4	13.5	12.7	12.2	12.7	15.5
Audubon	3.2	3.3	4.0	4.1	4.2	4.8	4.6	5.2	4.6	4.4	4.2	4.0
Benton	2.5	3.2	3.9	4.2	4.6	5.1	5.6	6.0	5.6	5.7	5.1	6.4
Black Hawk	7.6	8.1	9.0	9.5	9.6	10.1	10.1	9.8	9.6	9.7	10.1	11.6
Boone	3.2	3.6	4.3	5.1	5.5	6.0	6.2	6.1	5.6	4.7	5.0	6.1
Bremer	2.1	2.3	2.6	3.2	3.3	4.1	4.0	3.4	3.6	3.4	3.3	5.0
Buchanan	3.4	4.0	4.5	5.4	5.6	6.4	6.6	6.8	7.2	6.9	7.1	9.3
Buena Vista	3.9	4.0	4.2	4.4	4.5	4.7	4.7	4.8	4.7	4.0	3.8	4.2
Butler	2.8	3.2	3.5	4.5	4.9	5.1	4.5	5.1	5.1	5.0	5.0	6.1
Calhoun	3.9	4.1	4.7	5.2	5.2	5.6	5.7	5.9	5.4	5.1	4.9	4.7
Carroll	3.1	3.2	3.4	3.9	4.1	4.3	4.3	4.0	4.0	4.1	4.2	4.2
Cass	3.8	4.3	5.0	5.7	6.5	7.2	7.0	6.6	5.9	5.5	5.1	5.0
Cedar	3.0	3.3	4.0	4.7	4.6	5.2	5.1	4.9	4.7	4.5	4.4	4.5
Cerro Gordo	4.6	5.0	5.6	6.5	6.6	7.0	7.1	6.9	6.3	6.0	5.7	5.8
Cherokee	2.8	2.8	3.3	3.8	3.7	4.1	4.3	4.2	4.0	3.7	3.6	4.0
Chickasaw	2.9	2.6	3.2	3.7	3.8	4.3	4.2	4.5	4.3	4.3	4.4	6.3
Clarke	6.2	7.0	7.8	9.6	10.2	10.6	10.2	10.1	9.1	8.2	7.4	8.6
Clay	3.6	3.6	3.9	4.4	4.7	5.2	5.6	5.9	5.9	5.6	5.6	6.3
Clayton	2.4	2.5	2.8	3.3	3.3	3.8	4.0	4.3	4.3	4.5	4.9	6.8
Clinton	6.7	6.8	7.5	8.5	8.6	9.0	9.0	8.5	8.4	8.0	7.7	8.6
Crawford	4.7	5.2	5.9	7.1	7.2	7.3	6.6	6.1	6.2	6.1	5.5	5.2
Dallas	2.2	2.7	3.1	3.9	4.3	4.7	4.8	5.0	4.8	4.7	4.6	6.1
Davis	3.7	4.1	4.8	5.3	6.2	6.7	6.9	7.7	7.2	7.4	8.2	10.0
Decatur	8.0	9.1	10.3	12.0	12.4	13.6	13.0	12.0	11.3	10.2	9.8	9.4
Delaware	3.2	3.4	3.8	4.4	4.8	5.1	5.4	5.2	5.0	5.5	5.9	8.2
Des Moines	6.9	7.7	8.1	8.4	8.6	8.9	9.0	8.5	8.1	7.9	7.5	8.3
Dickinson	3.0	3.2	3.4	3.7	4.0	4.1	4.0	4.0	4.1	3.8	4.3	4.6
Dubuque	3.6	4.0	4.3	4.8	4.5	5.0	5.2	5.3	5.1	5.2	5.4	8.2
Emmet	3.9	4.2	4.6	5.3	6.0	6.8	7.2	7.5	7.1	7.0	6.7	6.6
Fayette	5.4	5.2	6.0	6.5	6.6	7.4	7.7	7.7	7.4	6.8	7.0	7.6
Floyd	5.1	5.5	6.1	6.8	7.5	8.5	7.9	7.8	7.3	7.1	6.8	8.0
Franklin	3.3	3.8	4.7	5.2	5.8	5.9	5.7	6.0	5.5	5.2	4.8	4.7
Fremont	6.2	7.1	7.6	8.6	8.3	9.0	8.1	7.8	6.9	6.6	6.8	6.0
Greene	4.8	4.8	5.2	6.2	6.4	6.5	6.4	5.9	6.0	5.1	4.7	6.1
Grundy	1.7	2.0	2.3	2.8	2.8	2.6	3.4	3.8	3.7	3.2	3.2	3.5
Guthrie	3.8	4.1	4.8	5.7	6.1	6.9	7.2	6.9	6.4	5.4	5.8	7.0
Hamilton	3.3	3.6	4.1	4.7	4.8	5.9	6.0	6.2	5.9	4.9	4.7	4.8
Hancock	2.6	2.8	3.2	4.0	4.0	4.9	5.4	5.4	5.1	5.0	4.2	3.8
Hardin	3.6	4.1	4.7	5.6	6.4	7.4	7.1	6.6	5.8	5.1	4.9	3.9
Harrison	5.0	5.6	6.4	7.4	7.5	8.1	8.4	8.7	8.3	7.7	7.6	7.9
Henry	4.0	4.4	5.0	5.6	5.6	6.2	6.2	6.0	5.8	5.1	4.7	5.4
Howard	3.2	3.3	4.0	4.4	4.9	5.9	5.8	5.4	5.1	5.5	5.6	7.2
Humboldt	3.4	3.5	3.9	4.3	4.9	5.2	5.6	5.6	5.0	4.9	4.7	4.9
Ida	3.3	3.5	3.6	3.7	3.8	3.5	3.8	3.6	3.7	2.7	2.6	3.1
Iowa	1.9	2.3	2.7	3.0	3.1	3.4	3.2	3.1	2.9	2.8	2.4	2.7
Jackson	4.4	4.4	5.2	6.0	6.6	7.3	7.3	7.2	7.3	7.1	7.1	8.5
Jasper	3.0	3.4	3.7	4.2	4.3	4.7	5.2	5.0	4.9	4.4	4.3	6.6

Table 3. Average Monthly Percentage of All Residents Receiving Food Stamps in Iowa's Counties, 1984, 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	5.2	5.3	5.8	6.8	7.0	7.7	7.8	7.8	7.3	6.7	6.4	7.0
Johnson	2.5	2.6	2.9	3.2	3.0	3.0	3.0	2.9	2.6	2.4	2.2	2.3
Jones	3.1	3.5	3.9	4.4	4.7	4.9	5.1	4.8	4.6	4.3	4.7	6.1
Keokuk	6.2	6.6	7.3	7.9	7.3	7.7	8.2	7.9	8.4	7.8	7.3	6.7
Kossuth	3.0	3.4	3.5	4.0	4.6	5.2	5.3	5.3	4.8	4.2	4.0	3.6
Lee	6.7	7.0	7.6	8.3	8.1	9.1	9.5	9.2	8.7	8.1	7.9	9.3
Linn	3.9	4.4	4.9	5.4	5.7	6.2	6.2	6.1	6.0	5.6	5.5	7.4
Louisa	4.5	5.6	6.7	7.2	7.4	7.6	7.5	7.8	7.4	6.4	6.1	8.0
Lucas	6.5	7.7	8.5	9.6	9.9	10.4	9.5	9.2	8.7	8.1	7.9	10.2
Lyon	2.3	2.2	2.6	3.4	3.6	3.9	3.9	3.8	3.3	3.4	3.5	4.1
Madison	2.3	2.6	3.1	3.9	4.4	4.9	5.2	5.0	5.0	4.4	4.6	5.8
Mahaska	5.5	6.2	7.0	7.3	6.9	7.4	7.8	8.0	8.0	7.6	7.4	8.8
Marion	3.1	3.2	3.9	4.6	5.0	5.5	5.5	5.2	4.8	4.5	4.4	6.3
Marshall	5.8	6.1	6.9	7.6	7.3	7.9	8.0	7.8	7.1	6.5	6.3	6.8
Mills	4.8	5.0	5.7	6.4	6.9	7.4	7.0	6.8	6.6	5.7	5.0	5.8
Mitchell	1.9	1.9	2.4	2.7	2.8	3.4	3.8	4.3	3.9	3.5	3.7	4.7
Monona	4.9	5.2	5.7	6.8	7.5	8.4	8.7	9.4	9.1	8.2	8.0	8.0
Monroe	6.8	6.9	8.0	9.0	9.7	10.2	10.1	9.6	9.4	9.7	10.1	9.7
Montgomery	6.8	6.6	7.1	7.6	8.0	7.8	7.2	7.3	6.3	5.4	5.2	5.5
Muscatine	5.7	6.5	7.6	8.5	8.3	8.6	8.7	8.8	8.4	8.2	7.7	7.9
O'Brien	2.6	2.7	2.9	3.5	3.7	3.7	3.7	3.8	3.0	2.9	2.7	4.3
Osceola	2.0	2.0	3.0	3.9	3.9	3.7	3.7	3.5	3.6	3.2	3.4	3.8
Page	6.1	6.3	6.5	7.0	7.1	7.7	7.8	8.0	8.1	7.3	7.4	7.2
Palo Alto	3.0	3.1	4.0	4.4	5.2	5.9	6.1	6.4	6.2	5.9	5.5	6.5
Plymouth	2.2	2.2	2.5	2.6	2.7	2.7	2.7	2.9	2.9	3.0	3.2	4.1
Pocahontas	4.1	4.0	4.5	5.0	5.5	5.8	5.8	5.8	5.6	4.4	3.6	4.3
Polk	4.5	5.0	5.8	6.7	7.1	7.9	8.0	7.8	7.3	6.8	6.6	8.6
Pottawattamie	5.9	6.5	7.4	8.3	9.0	9.9	10.0	9.8	9.2	8.1	7.5	7.7
Poweshiek	3.0	3.4	3.8	4.6	4.7	5.0	5.0	4.9	4.7	4.1	3.4	5.0
Ringgold	6.6	7.3	8.1	9.1	8.7	9.6	9.9	9.2	8.9	8.6	8.6	9.3
Sac	3.5	3.9	4.4	5.0	5.3	5.0	4.9	5.0	5.0	4.5	4.4	5.2
Scott	6.9	7.1	8.3	9.6	10.1	10.7	10.6	10.3	9.8	9.3	9.0	9.4
Shelby	3.3	3.6	4.0	4.5	5.1	4.8	5.0	5.0	4.5	4.0	3.3	4.2
Sioux	1.5	1.7	1.9	2.3	2.4	2.1	2.0	2.3	2.4	2.6	2.9	2.9
Story	2.1	2.3	2.7	3.1	3.3	3.4	3.2	3.1	2.8	2.6	2.5	2.9
Tama	3.1	3.1	3.7	4.3	4.4	5.1	5.6	6.3	5.8	5.0	4.7	6.0
Taylor	5.1	5.9	6.9	8.4	7.9	7.8	7.9	7.4	8.0	7.7	7.2	8.7
Union	5.3	5.8	7.0	8.7	9.1	9.6	9.6	9.2	9.1	8.6	8.4	9.0
Van Buren	4.3	4.9	5.3	5.9	6.1	6.4	7.6	7.4	7.4	7.1	6.9	8.7
Wapello	9.1	10.3	11.5	11.9	11.9	12.0	12.1	12.2	11.7	11.0	11.1	11.4
Warren	2.0	2.4	2.9	3.2	3.8	4.5	4.8	4.7	4.5	4.1	4.0	4.8
Washington	3.3	3.4	3.8	4.6	4.4	4.8	4.7	4.8	4.7	4.6	4.5	3.8
Wayne	7.2	6.9	7.7	8.9	9.4	9.4	9.9	9.8	9.0	8.9	8.5	10.2
Webster	6.1	6.7	8.1	8.9	9.1	9.7	10.1	9.7	9.3	8.7	8.5	8.5
Winnebago	2.8	2.9	3.8	4.1	4.1	4.4	4.5	4.4	4.3	3.9	3.3	3.5
Winneshiek	1.9	2.1	2.6	3.0	3.1	3.6	3.8	3.6	3.4	3.4	3.6	4.6
Woodbury	4.9	5.0	5.6	6.2	6.4	7.2	8.0	8.6	8.4	7.8	7.4	8.9
Worth	1.7	2.6	3.1	3.4	3.9	4.6	5.6	5.6	5.2	5.1	4.4	5.7
Wright	3.2	3.6	4.3	5.1	5.4	6.0	5.9	6.0	5.6	5.1	4.3	5.1
State of Iowa	4.4	4.8	5.4	6.1	6.4	6.9	7.0	6.9	6.6	6.2	6.0	7.1

Table 4. Total Annual (in \$1,000s) and Adjusted Total Annual (in 1999 \$1,000s) Food Stamp Benefits in Iowa's Counties, 1984, 1989-1999.

County	Total (in \$1,000s) Benefits Received					Adjusted Total (in 1999 \$1,000s) Benefits Received			
	1999	1998	1994	1989	1984	1998	1994	1989	1984
Adair	225	250	319	220	287	256	358	293	454
Adams	168	203	265	187	132	208	297	249	209
Allamakee	268	341	459	313	389	349	514	417	615
Appanoose	1025	1084	1318	1036	1096	1108	1477	1379	1732
Audubon	162	173	214	168	150	177	240	224	237
Benton	475	583	875	661	734	596	981	880	1160
Black Hawk	7202	7596	9272	7463	8433	7765	10392	9936	13329
Boone	663	735	1183	720	823	751	1326	959	1301
Bremer	368	380	649	427	614	388	727	568	971
Buchanan	533	612	936	855	1072	626	1049	1138	1694
Buena Vista	609	600	649	419	424	613	727	558	670
Butler	304	342	529	430	508	350	593	572	803
Calhoun	312	323	448	313	278	330	502	417	439
Carroll	493	468	627	478	416	478	703	636	658
Cass	388	415	734	445	408	424	823	592	645
Cedar	437	458	659	456	431	468	739	607	681
Cerro Gordo	1577	1708	2337	1576	1386	1746	2619	2098	2191
Cherokee	278	260	409	282	285	266	458	375	450
Chickasaw	295	252	378	315	450	258	424	419	711
Clarke	400	444	648	354	362	454	726	471	572
Clay	477	452	612	524	553	462	686	698	874
Clayton	355	333	488	503	674	340	547	670	1065
Clinton	2662	2673	3546	2485	2518	2733	3974	3308	3980
Crawford	576	639	863	530	451	653	967	706	713
Dallas	708	808	1175	818	906	826	1317	1089	1432
Davis	221	251	424	386	434	257	475	514	686
Decatur	518	546	763	442	395	558	855	588	624
Delaware	427	411	590	592	758	420	661	788	1198
Des Moines	2412	2632	2916	1943	1914	2691	3268	2587	3025
Dickinson	376	389	456	348	312	398	511	463	493
Dubuque	2444	2638	3128	2735	3810	2697	3506	3641	6022
Emmet	286	305	529	427	392	312	593	568	620
Fayette	860	816	1077	805	922	834	1207	1072	1457
Floyd	648	665	963	604	679	680	1079	804	1073
Franklin	249	283	434	317	260	289	486	422	411
Fremont	344	391	493	289	250	400	553	385	395
Greene	345	352	442	260	315	360	495	346	498
Grundy	163	182	228	220	224	186	256	293	354
Guthrie	335	349	524	344	386	357	587	458	610
Hamilton	441	436	662	414	399	446	742	551	631
Hancock	235	242	405	280	230	247	454	373	364
Hardin	488	532	991	515	394	544	1111	686	623
Harrison	556	613	800	604	552	627	897	804	873
Henry	617	664	883	506	489	679	990	674	773
Howard	213	215	378	292	376	220	424	389	594
Humboldt	254	255	353	262	253	261	396	349	400
Ida	179	199	188	107	118	203	211	142	187
Iowa	232	270	350	205	198	276	392	273	313
Jackson	654	628	1047	825	921	642	1173	1098	1456
Jasper	894	993	1199	861	1155	1015	1344	1146	1826

Table 4. Total Annual (in \$1,000s) and Adjusted Total Annual (in 1999 \$1,000s) Food Stamp Benefits in Iowa's Counties, 1984, 1989-1999 (continued).

County	Total (in \$1,000s) Benefits Received					Adjusted Total (in 1999 \$1,000s) Benefits Received			
	1999	1998	1994	1989	1984	1998	1994	1989	1984
Jefferson	722	764	1030	637	601	781	1154	848	950
Johnson	2277	2239	2431	1298	1090	2289	2725	1728	1723
Jones	475	539	706	519	611	551	791	691	966
Keokuk	518	511	597	492	406	522	669	655	642
Kossuth	367	416	624	392	333	425	699	522	526
Lee	2120	2127	2637	1870	2044	2174	2956	2490	3231
Linn	5997	6449	8518	5709	6722	6593	9547	7601	10625
Louisa	458	541	675	424	484	553	757	564	765
Lucas	420	514	665	426	501	525	745	567	792
Lyon	185	166	283	200	218	170	317	266	345
Madison	242	264	449	338	338	270	503	450	534
Mahaska	948	1075	1159	903	925	1099	1299	1202	1462
Marion	780	756	1232	765	945	773	1381	1018	1494
Marshall	1854	1911	2244	1473	1440	1954	2515	1961	2276
Mills	583	586	758	388	366	599	850	517	579
Mitchell	157	155	246	210	253	158	276	280	400
Monona	356	361	572	429	405	369	641	571	640
Monroe	384	382	577	477	432	391	647	635	683
Montgomery	647	618	649	351	352	632	727	467	556
Muscatine	2021	2200	2719	1849	1711	2249	3047	2462	2704
O'Brien	258	267	338	220	303	273	379	293	479
Osceola	91	95	179	128	151	97	201	170	239
Page	767	781	853	673	620	798	956	896	980
Palo Alto	195	206	396	300	355	211	444	399	561
Plymouth	413	377	420	393	457	385	471	523	722
Pocahontas	241	232	338	194	207	237	379	258	327
Polk	14258	15451	22643	13413	14026	15795	25378	17857	22170
Pottawattamie	4276	4648	6443	3832	3311	4752	7221	5102	5233
Poweshiek	442	508	696	378	472	519	780	503	746
Ringgold	227	265	327	251	262	271	366	334	414
Sac	303	311	396	276	308	318	444	367	487
Scott	9648	9472	13465	8763	8127	9683	15091	11666	12846
Shelby	329	326	442	239	293	333	495	318	463
Sioux	334	372	400	408	373	380	448	543	590
Story	1409	1500	2143	1152	1082	1533	2402	1534	1710
Tama	409	395	631	483	545	404	707	643	861
Taylor	262	293	372	253	321	300	417	337	507
Union	491	527	842	589	605	539	944	784	956
Van Buren	245	278	349	293	353	284	391	390	558
Wapello	2500	2768	3148	2400	2233	2830	3528	3195	3530
Warren	654	789	1323	862	844	807	1483	1148	1334
Washington	528	547	683	518	380	559	766	690	601
Wayne	343	328	418	319	368	335	468	425	582
Webster	1849	1970	2809	2013	1830	2014	3148	2680	2893
Winnebago	239	245	362	217	195	250	406	289	308
Winneshiek	284	292	493	405	458	299	553	539	724
Woodbury	4102	4036	5274	4133	4367	4126	5911	5502	6903
Worth	93	147	260	196	232	150	291	261	367
Wright	327	364	608	372	410	372	681	495	648
State of Iowa	102381	107750	145639	99383	103582	110151	163231	132311	163724

Table 5. Average (in \$s) and Adjusted Average (in 1999 \$s) Food Stamp Benefits Received Per Person Per Month in Iowa's Counties, 1984, 1989, 1994, 1998-1999.

County	Average Benefits Received (in \$s) Per Person Per Month					Adjusted Average Benefits Received (in 1999 \$s) Per Person Per Month			
	1999	1998	1994	1989	1984	1998	1994	1989	1984
Adair	67.60	63.95	57.98	45.86	40.75	65.38	64.98	61.12	64.41
Adams	62.61	59.96	54.94	45.88	39.08	61.29	61.58	60.94	61.77
Allamakee	56.99	59.75	57.91	43.94	38.95	61.08	64.90	58.40	61.56
Appanoose	64.08	63.06	60.74	49.23	40.36	64.46	68.08	65.55	63.80
Audubon	61.60	63.17	53.82	45.45	37.87	64.58	60.32	60.67	59.86
Benton	60.40	60.48	60.29	48.38	42.05	61.83	67.57	64.43	66.46
Black Hawk	65.86	64.41	62.16	50.16	45.41	65.85	69.67	66.78	71.78
Boone	66.68	64.36	65.11	48.15	43.40	65.80	72.98	64.10	68.61
Bremer	61.28	60.28	57.71	46.84	42.17	61.62	64.68	62.39	66.66
Buchanan	61.47	60.37	57.45	48.34	43.32	61.72	64.38	64.37	68.47
Buena Vista	66.74	64.89	57.84	45.56	39.92	66.34	64.83	60.74	63.09
Butler	57.97	56.61	54.78	45.15	40.78	57.88	61.40	60.13	64.45
Calhoun	59.04	57.14	56.87	46.11	38.92	58.41	63.74	61.29	61.52
Carroll	61.92	55.67	56.65	44.52	36.71	56.91	63.49	59.26	58.03
Cass	57.99	55.34	56.14	47.50	39.95	56.58	62.92	63.27	63.15
Cedar	67.47	64.42	60.36	49.74	43.61	65.86	67.65	66.16	68.93
Cerro Gordo	62.91	61.47	59.58	49.03	41.09	62.84	66.78	65.29	64.95
Cherokee	62.67	57.67	59.93	46.17	38.12	58.96	67.17	61.52	60.25
Chickasaw	63.58	60.07	54.93	44.41	40.00	61.41	61.56	59.15	63.22
Clarke	64.88	63.79	62.51	47.73	41.54	65.21	70.06	63.61	65.65
Clay	63.54	60.47	55.16	45.05	38.86	61.81	61.83	59.91	61.42
Clayton	65.85	59.30	57.33	44.76	40.17	60.62	64.25	59.57	63.49
Clinton	66.78	65.25	64.20	52.60	44.76	66.70	71.95	70.05	70.76
Crawford	62.46	62.63	59.81	46.82	38.81	64.02	67.04	62.37	61.35
Dallas	71.09	68.26	64.75	50.71	42.16	69.78	72.57	67.50	66.63
Davis	57.92	60.36	62.43	47.35	40.35	61.71	69.97	62.97	63.77
Decatur	64.86	60.47	57.50	44.18	38.38	61.82	64.45	58.87	60.66
Delaware	60.15	54.75	52.49	45.90	41.30	55.97	58.83	61.12	65.27
Des Moines	69.85	67.70	63.47	50.36	43.52	69.21	71.14	67.04	68.78
Dickinson	64.42	63.14	60.40	45.60	37.44	64.55	67.70	60.70	59.18
Dubuque	64.27	62.80	59.39	48.44	43.43	64.20	66.57	64.49	68.64
Emmet	57.83	56.28	57.45	46.23	38.87	57.53	64.39	61.49	61.43
Fayette	61.27	59.44	55.05	43.88	41.93	60.76	61.70	58.43	66.28
Floyd	64.55	61.00	56.61	42.88	37.73	62.36	63.45	57.14	59.64
Franklin	57.41	57.62	56.01	48.00	36.78	58.91	62.78	63.95	58.13
Fremont	59.77	59.18	55.94	42.73	38.30	60.49	62.69	56.86	60.54
Greene	59.67	60.30	55.93	45.68	37.61	61.64	62.69	60.75	59.45
Grundy	64.77	61.13	59.44	47.42	39.12	62.49	66.62	63.04	61.83
Guthrie	63.97	61.50	55.98	45.56	39.69	62.87	62.74	60.66	62.74
Hamilton	69.85	63.02	58.69	45.16	40.12	64.42	65.78	60.08	63.42
Hancock	62.26	59.26	57.27	43.31	37.20	60.58	64.18	57.74	58.80
Hardin	61.96	59.29	59.48	45.11	39.09	60.62	66.67	60.10	61.78
Harrison	60.39	59.10	55.27	44.75	37.45	60.41	61.95	59.60	59.19
Henry	64.28	63.28	59.75	47.47	40.91	64.69	66.96	63.18	64.67
Howard	58.60	55.33	54.85	43.71	40.07	56.57	61.47	58.30	63.33
Humboldt	60.54	58.01	54.24	43.08	36.39	59.30	60.79	57.43	57.52
Ida	57.29	59.87	53.90	41.40	36.61	61.20	60.42	55.39	57.87
Iowa	65.80	61.71	57.01	48.58	40.35	63.09	63.90	64.76	63.78
Jackson	60.85	58.83	58.85	47.68	41.27	60.14	65.95	63.47	65.23
Jasper	66.84	66.91	60.75	47.83	41.32	68.40	68.09	63.66	65.30

Table 5. Average (in \$) and Adjusted Average (in 1999 \$) Food Stamp Benefits Received Per Person Per Month in Iowa's Counties, 1984, 1989, 1994, 1998-1999 (continued).

County	Average Benefits Received (in \$) Per Person Per Month					Adjusted Average Benefits Received (in 1999 \$) Per Person Per Month			
	1999	1998	1994	1989	1984	1998	1994	1989	1984
Jefferson	69.12	69.89	66.01	50.81	43.41	71.45	73.98	67.64	68.61
Johnson	72.81	70.88	67.30	51.23	44.53	72.46	75.43	68.23	70.39
Jones	63.80	63.85	59.87	47.85	41.95	65.27	67.11	63.67	66.31
Keokuk	61.02	56.05	55.82	48.07	40.16	57.30	62.56	63.97	63.48
Kossuth	58.08	57.44	55.52	43.01	37.42	58.72	62.23	57.30	59.15
Lee	68.57	65.53	61.70	50.65	44.05	66.99	69.16	67.44	69.62
Linn	69.43	67.12	64.79	51.88	45.90	68.62	72.62	69.07	72.56
Louisa	70.59	67.04	62.59	49.79	41.81	68.53	70.15	66.31	66.08
Lucas	58.96	61.28	59.25	48.90	40.73	62.64	66.40	65.06	64.37
Lyon	55.32	53.30	51.08	40.53	35.35	54.49	57.25	53.82	55.87
Madison	61.98	61.95	58.28	48.96	39.54	63.33	65.33	65.15	62.49
Mahaska	65.00	66.29	60.03	47.72	39.69	67.77	67.28	63.49	62.74
Marion	66.56	62.23	61.04	48.55	42.23	63.62	68.41	64.61	66.75
Marshall	68.72	67.79	62.09	51.10	42.79	69.30	69.58	68.02	67.64
Mills	69.52	67.90	63.26	49.16	39.56	69.41	70.90	65.47	62.53
Mitchell	61.85	60.50	54.30	43.10	39.09	61.85	60.86	57.26	61.79
Monona	60.13	57.24	56.07	44.25	37.43	58.51	62.84	58.89	59.16
Monroe	58.42	57.11	57.82	48.54	42.61	58.38	64.81	64.58	67.35
Montgomery	67.35	66.07	58.01	46.21	40.86	67.54	65.01	61.44	64.59
Muscatine	71.46	69.22	64.17	50.21	44.20	70.77	71.92	66.84	69.87
O'Brien	56.38	55.03	49.87	43.47	35.28	56.25	55.90	57.88	55.76
Osceola	55.58	57.00	56.35	42.74	41.00	58.27	63.16	57.10	64.81
Page	61.67	59.57	54.87	44.99	39.49	60.90	61.50	59.89	62.41
Palo Alto	55.55	54.27	53.49	42.37	37.63	55.48	59.95	56.41	59.48
Plymouth	62.67	57.54	53.01	43.10	38.28	58.82	59.41	57.36	60.51
Pocahontas	55.42	55.16	53.56	45.89	36.66	56.39	60.03	61.07	57.94
Polk	71.89	70.93	69.23	52.91	44.40	72.52	77.60	70.44	70.18
Pottawattamie	69.88	69.11	64.98	51.66	42.10	70.65	72.82	68.78	66.54
Poweshiek	65.98	65.56	61.30	47.95	42.15	67.02	68.71	63.83	66.62
Ringgold	53.18	56.38	53.34	44.66	39.41	57.64	59.79	59.43	62.29
Sac	61.33	56.54	54.71	41.97	37.43	57.80	61.32	55.90	59.17
Scott	73.39	69.89	67.47	54.21	46.21	71.45	75.61	72.17	73.04
Shelby	64.02	58.28	58.40	44.92	39.45	59.58	65.46	59.80	62.35
Sioux	59.29	57.87	50.76	39.63	34.64	59.16	56.90	52.76	54.75
Story	74.27	72.27	71.31	52.26	42.13	73.88	79.93	69.56	66.59
Tama	62.73	60.70	57.57	48.85	39.81	62.05	64.53	64.97	62.93
Taylor	61.37	57.81	55.88	40.73	38.05	59.10	62.63	54.15	60.14
Union	60.68	59.97	59.07	46.10	41.29	61.31	66.21	61.38	65.26
Van Buren	59.68	60.16	58.98	46.39	40.71	61.50	66.11	61.81	64.34
Wapello	64.55	63.38	60.63	50.42	42.11	64.80	67.96	67.12	66.56
Warren	66.20	67.33	63.40	50.28	41.80	68.83	71.06	66.97	66.07
Washington	63.73	63.17	58.77	48.76	42.20	64.58	65.87	64.88	66.70
Wayne	60.37	59.59	53.77	44.41	38.43	60.92	60.26	59.17	60.74
Webster	65.09	62.73	61.32	48.44	41.18	64.13	68.72	64.50	65.09
Winnebago	60.16	58.55	57.44	45.25	36.67	59.85	64.38	60.30	57.96
Winneshiak	59.81	55.40	54.19	45.11	38.65	56.63	60.74	60.08	61.09
Woodbury	68.18	66.37	60.64	47.64	41.17	67.85	67.97	63.43	65.07
Worth	58.57	61.74	59.75	46.05	38.79	63.11	66.96	61.33	61.31
Wright	61.86	60.12	58.98	49.84	42.43	61.46	66.10	66.37	67.07
State of Iowa	67.11	65.31	62.50	49.47	42.54	66.77	70.05	65.86	67.24

Table 6. Percentage Changes in Population, Persons Receiving Food Stamps, Adjusted Total Annual Food Stamp Benefits, and Adjusted Average Food Stamp Benefits Received Per Person Per Month in Iowa's Counties, 1984-1999.

County	Estimated Population				Persons Receiving Food Stamps				Adj. (1999 \$s) Total Annual Food Stamp Benefits				Adj. (1999 \$s) Avg. Food Stamp Benefits Received Per Person Per Month			
	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs
Adair	-0.5	-2.6	-4.3	-11.8	-15.0	-39.5	-30.6	-52.8	-12.0	-37.1	-23.2	-50.4	3.4	4.0	10.6	5.0
Adams	0.4	-3.4	-11.7	-18.8	-20.6	-44.3	-34.1	-20.6	-19.0	-43.4	-32.5	-19.5	2.2	1.7	2.7	1.4
Allamakee	0.1	0.7	0.1	-5.1	-17.6	-40.7	-34.0	-52.9	-23.1	-47.9	-35.7	-56.4	-6.7	-12.2	-2.4	-7.4
Appanoose	-0.9	-1.3	-2.7	-8.2	-6.9	-26.3	-24.0	-41.1	-7.5	-30.6	-25.7	-40.8	-0.6	-5.9	-2.2	0.4
Audubon	-0.1	-2.0	-8.1	-18.2	-3.9	-34.0	-28.9	-33.6	-8.4	-32.5	-27.6	-31.7	-4.6	2.1	1.5	2.9
Benton	1.6	8.1	15.0	13.0	-18.3	-45.8	-42.4	-54.9	-20.3	-51.6	-46.0	-59.1	-2.3	-10.6	-6.2	-9.1
Black Hawk	-0.8	-3.0	-2.7	-10.4	-7.3	-26.7	-26.5	-41.1	-7.3	-30.7	-27.5	-46.0	0.0	-5.5	-1.4	-8.2
Boone	0.7	4.2	4.7	2.3	-12.9	-45.2	-33.5	-47.5	-11.8	-50.0	-30.8	-49.0	1.3	-8.6	4.0	-2.8
Bremer	0.4	1.4	3.2	-3.1	-4.8	-46.5	-34.1	-58.7	-5.3	-49.4	-35.3	-62.1	-0.6	-5.3	-1.8	-8.1
Buchanan	0.0	-0.5	1.3	-4.9	-14.4	-46.8	-50.9	-64.9	-14.8	-49.2	-53.2	-68.5	-0.4	-4.5	-4.5	-10.2
Buena Vista	0.0	-3.1	-3.2	-7.3	-1.3	-18.6	-0.7	-14.0	-0.7	-16.3	9.2	-9.1	0.6	2.9	9.9	5.8
Butler	-0.8	-1.3	-2.1	-9.4	-13.1	-45.7	-44.9	-57.9	-13.0	-48.7	-46.9	-62.1	0.2	-5.6	-3.6	-10.1
Calhoun	-0.5	-3.0	-2.4	-11.3	-6.4	-32.8	-22.1	-25.9	-5.5	-37.9	-25.1	-29.0	1.1	-7.4	-3.7	-4.0
Carroll	-0.5	0.2	0.1	-5.0	-5.3	-28.2	-25.8	-29.8	3.0	-29.8	-22.5	-25.0	8.8	-2.5	4.5	6.7
Cass	-0.9	-3.8	-4.7	-14.0	-10.7	-48.8	-28.6	-34.4	-8.5	-52.8	-34.5	-39.8	2.5	-7.8	-8.3	-8.2
Cedar	0.6	3.2	3.9	-2.0	-8.8	-40.7	-29.3	-34.4	-6.7	-40.8	-28.0	-35.9	2.5	-0.3	2.0	-2.1
Cerro Gordo	-0.9	-1.8	-2.5	-5.0	-9.8	-36.1	-22.0	-25.7	-9.7	-39.8	-24.8	-28.0	0.1	-5.8	-3.6	-3.1
Cherokee	-1.0	-5.8	-7.6	-16.6	-1.6	-35.1	-27.5	-40.7	4.6	-39.4	-26.0	-38.3	6.3	-6.7	1.9	4.0
Chickasaw	0.0	0.3	0.1	-9.9	10.6	-32.6	-34.4	-58.7	14.5	-30.4	-29.7	-58.5	3.5	3.3	7.5	0.6
Clarke	-0.4	1.4	-0.6	-2.6	-11.4	-40.5	-16.8	-29.3	-11.9	-44.9	-15.1	-30.1	-0.5	-7.4	2.0	-1.2
Clay	-1.3	-2.3	-1.2	-9.0	0.3	-32.4	-35.6	-47.3	3.2	-30.5	-31.6	-45.4	2.8	2.8	6.1	3.5
Clayton	-0.7	-1.1	-3.3	-9.4	-4.1	-36.7	-52.0	-67.9	4.3	-35.1	-47.0	-66.7	8.6	2.5	10.5	3.7
Clinton	-0.6	-2.7	-2.8	-9.0	-2.7	-27.8	-15.6	-29.1	-2.6	-33.0	-19.5	-33.1	0.1	-7.2	-4.7	-5.6
Crawford	-0.2	-0.3	-3.7	-12.3	-9.5	-36.1	-18.4	-20.6	-11.8	-40.4	-18.4	-19.2	-2.4	-6.8	0.2	1.8
Dallas	3.6	17.7	30.3	31.0	-15.8	-45.1	-38.3	-53.6	-14.3	-46.2	-35.0	-50.6	1.9	-2.0	5.3	6.7
Davis	0.6	1.0	2.6	-4.7	-8.1	-43.8	-53.2	-64.5	-13.9	-53.5	-57.0	-67.8	-6.1	-17.2	-8.0	-9.2
Decatur	0.9	2.3	-2.0	-8.6	-11.6	-39.7	-20.0	-22.4	-7.2	-39.4	-12.0	-17.0	4.9	0.6	10.2	6.9
Delaware	-0.3	0.7	2.4	-1.5	-5.4	-36.8	-44.9	-61.3	1.6	-35.4	-45.8	-64.4	7.5	2.2	-1.6	-7.8
Des Moines	-0.3	-2.0	-1.5	-5.4	-11.2	-24.8	-10.5	-21.5	-10.4	-26.2	-6.8	-20.3	0.9	-1.8	4.2	1.6
Dickinson	0.5	5.8	9.7	7.0	-5.3	-22.7	-23.6	-30.0	-5.4	-26.4	-18.8	-23.8	-0.2	-4.8	6.1	8.9
Dubuque	0.3	-0.1	1.7	-1.7	-9.5	-27.8	-32.6	-56.7	-9.4	-30.3	-32.9	-59.4	0.1	-3.4	-0.3	-6.4
Emmet	-2.0	-5.8	-7.8	-16.6	-8.8	-46.4	-46.5	-51.0	-8.3	-51.8	-49.7	-53.8	0.5	-10.2	-6.0	-5.9
Fayette	-1.0	-1.6	-1.3	-10.7	2.3	-28.3	-23.5	-36.2	3.1	-28.8	-19.8	-41.0	0.8	-0.7	4.8	-7.6
Floyd	-0.7	-2.8	-6.1	-13.4	-7.8	-40.9	-28.6	-44.2	-4.7	-40.0	-19.4	-39.6	3.5	1.7	13.0	8.2
Franklin	-0.8	-2.3	-5.4	-13.8	-12.0	-44.1	-34.4	-38.8	-13.9	-48.8	-41.0	-39.4	-2.5	-8.5	-10.2	-1.2
Fremont	-0.8	-5.4	-6.6	-14.7	-12.9	-34.7	-15.1	-11.9	-13.9	-37.7	-10.6	-12.9	-1.2	-4.7	5.1	-1.3
Greene	-0.5	-0.5	-1.5	-12.8	-1.0	-26.7	1.5	-31.0	-4.1	-30.4	-0.3	-30.7	-3.2	-4.8	-1.8	0.4
Grundy	0.4	1.3	1.4	-9.1	-15.3	-34.4	-45.9	-56.0	-12.4	-36.2	-44.3	-54.0	3.6	-2.8	2.7	4.7
Guthrie	0.7	3.2	6.1	0.0	-7.8	-44.1	-30.8	-46.2	-6.1	-43.0	-26.9	-45.1	1.7	2.0	5.4	2.0
Hamilton	-0.7	-0.9	-2.4	-7.5	-8.7	-44.0	-31.2	-36.6	-1.1	-40.6	-20.0	-30.1	8.4	6.2	16.3	10.1
Hancock	-0.1	-0.1	-6.2	-10.9	-7.6	-46.8	-41.6	-39.1	-5.0	-48.2	-37.0	-35.4	2.8	-3.0	7.8	5.9
Hardin	-1.0	-2.6	-5.5	-14.8	-12.2	-52.8	-31.0	-22.0	-10.3	-56.1	-28.8	-21.6	2.2	-7.1	3.1	0.3
Harrison	-0.8	2.3	2.6	-2.6	-11.3	-36.4	-31.8	-37.6	-11.3	-38.0	-30.9	-36.3	0.0	-2.5	1.3	2.0
Henry	0.5	2.1	5.7	8.5	-8.6	-35.1	-10.0	-19.7	-9.1	-37.7	-8.4	-20.2	-0.6	-4.0	1.7	-0.6
Howard	-1.1	-2.1	-3.4	-11.8	-6.5	-47.2	-45.5	-61.3	-3.1	-49.7	-45.2	-64.2	3.6	-4.7	0.5	-7.5
Humboldt	-1.0	-1.9	-5.0	-13.6	-4.6	-35.6	-31.0	-39.7	-2.6	-35.8	-27.2	-36.5	2.1	-0.4	5.4	5.2
Ida	0.2	-4.7	-5.5	-9.9	-6.1	-10.3	20.9	-3.3	-12.0	-15.0	25.7	-4.0	-6.4	-5.2	3.4	-1.0
Iowa	1.0	4.8	6.9	3.6	-19.2	-42.5	-16.5	-27.9	-15.9	-40.9	-15.0	-25.9	4.3	3.0	1.6	3.2
Jackson	0.1	-0.3	-0.2	-7.8	0.7	-39.5	-37.9	-51.8	1.9	-44.3	-40.5	-55.1	1.2	-7.7	-4.1	-6.7
Jasper	0.3	4.2	5.5	4.7	-9.9	-32.3	-25.8	-52.2	-11.9	-33.5	-22.0	-51.0	-2.3	-1.8	5.0	2.4



Table 6. Percentage Changes in Population, Persons Receiving Food Stamps, Adjusted Total Annual Food Stamp Benefits, and Adjusted Average Food Stamp Benefits Received Per Person Per Month in Iowa's Counties, 1984-1999 (cont.).

County	Estimated Population				Persons Receiving Food Stamps				Adj. (1999 \$s) Total Annual Food Stamp Benefits				Adj. (1999 \$s) Avg. Food Stamp Benefits Received Per Person Per Month			
	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs
Jefferson	-1.6	-0.3	2.3	2.3	-4.4	-33.1	-16.7	-24.5	-7.6	-37.5	-14.9	-24.0	-3.3	-6.6	2.2	0.7
Johnson	1.2	3.4	10.0	18.9	-1.0	-13.4	23.5	27.7	-0.5	-16.4	31.8	32.2	0.5	-3.5	6.7	3.4
Jones	-0.3	0.6	3.6	0.9	-11.7	-36.8	-31.4	-48.8	-13.8	-40.0	-31.3	-50.8	-2.3	-4.9	0.2	-3.8
Keokuk	-1.1	-1.6	-2.7	-9.3	-6.8	-20.5	-17.0	-16.0	-0.8	-22.6	-20.9	-19.3	6.5	-2.5	-4.6	-3.9
Kossuth	-0.5	-2.9	-6.4	-15.3	-12.9	-43.9	-30.6	-29.0	-13.7	-47.5	-29.7	-30.3	-1.1	-6.7	1.4	-1.8
Lee	-0.5	-1.6	-1.5	-7.8	-4.8	-27.7	-16.3	-33.4	-2.5	-28.3	-14.8	-34.4	2.4	-0.8	1.7	-1.5
Linn	1.2	4.5	10.2	11.9	-10.1	-34.3	-21.5	-41.0	-9.0	-37.2	-21.1	-43.6	1.2	-4.4	0.5	-4.3
Louisa	0.1	1.6	3.3	-0.5	-19.6	-39.8	-23.7	-43.9	-17.2	-39.5	-18.9	-40.1	3.0	0.6	6.5	6.8
Lucas	0.4	1.3	-0.5	-9.1	-15.2	-36.6	-18.3	-42.2	-20.1	-43.6	-25.9	-47.0	-5.9	-11.2	-9.4	-8.4
Lyon	0.0	1.1	1.0	-4.4	7.3	-39.7	-32.5	-46.0	9.0	-41.7	-30.5	-46.3	1.5	-3.4	2.8	-1.0
Madison	1.6	8.2	13.7	15.3	-8.2	-49.2	-43.4	-54.2	-10.3	-51.9	-46.2	-54.7	-2.1	-5.1	-4.9	-0.8
Mahaska	0.3	1.1	2.5	-0.8	-10.1	-24.4	-22.9	-37.4	-13.7	-27.0	-21.1	-35.2	-4.1	-3.4	2.4	3.6
Marion	0.6	2.8	5.0	6.4	-3.5	-41.9	-25.6	-47.6	0.9	-43.5	-23.4	-47.8	4.6	-2.7	3.0	-0.3
Marshall	0.1	1.4	1.3	-5.4	-4.3	-25.4	-6.5	-19.8	-5.1	-26.3	-5.5	-18.5	-0.8	-1.2	1.0	1.6
Mills	1.5	8.5	11.1	10.5	-2.8	-30.0	6.4	-9.3	-2.7	-31.4	12.9	0.8	0.1	-2.0	6.2	11.2
Mitchell	0.7	0.4	0.9	-4.2	-1.4	-44.0	-48.0	-60.9	-0.9	-43.1	-43.8	-60.7	0.0	1.6	8.0	0.1
Monona	0.2	-0.1	-0.7	-10.0	-5.9	-41.9	-38.9	-45.2	-3.5	-44.5	-37.7	-44.4	2.8	-4.3	2.1	1.6
Monroe	-0.2	-1.7	-1.0	-7.8	-1.6	-34.1	-33.2	-35.1	-1.7	-40.6	-39.5	-43.8	0.1	-9.9	-9.5	-13.3
Montgomery	-1.2	-2.2	-3.3	-11.1	2.8	-14.1	26.3	11.6	2.4	-11.1	38.5	16.3	-0.3	3.6	9.6	4.3
Muscatine	0.5	0.4	3.6	0.8	-11.0	-33.2	-23.2	-26.9	-10.1	-33.7	-17.9	-25.3	1.0	-0.6	6.9	2.3
O'Brien	-1.8	-4.6	-5.8	-12.4	-5.7	-32.4	-9.5	-46.8	-5.5	-31.9	-11.9	-46.1	0.2	0.9	-2.6	1.1
Osceola	-0.6	-3.3	-4.8	-14.3	-2.2	-48.7	-45.2	-55.6	-6.3	-54.6	-46.6	-61.9	-4.6	-12.0	-2.7	-14.2
Page	-0.8	2.3	1.8	-5.7	-5.0	-19.9	-16.8	-20.8	-3.9	-19.8	-14.4	-21.7	1.3	0.3	3.0	-1.2
Palo Alto	-1.4	-4.7	-7.9	-18.5	-7.3	-52.5	-50.3	-62.7	-7.4	-56.1	-51.2	-65.2	0.1	-7.3	-1.5	-6.6
Plymouth	0.9	2.3	5.9	3.1	0.5	-16.9	-27.9	-44.8	7.2	-12.3	-21.1	-42.8	6.5	5.5	9.3	3.6
Pocahontas	-0.5	-3.8	-9.7	-19.1	3.4	-31.0	2.8	-22.9	1.6	-36.4	-6.7	-26.3	-1.7	-7.7	-9.3	-4.4
Polk	1.4	5.2	13.1	18.7	-9.0	-39.4	-21.8	-37.2	-9.7	-43.8	-20.2	-35.7	-0.9	-7.4	2.1	2.4
Pottawattamie	0.3	3.7	4.4	0.9	-9.0	-38.3	-17.5	-22.2	-10.0	-40.8	-16.2	-18.3	-1.1	-4.0	1.6	5.0
Poweshiek	-0.4	-1.4	-1.9	-0.7	-13.6	-41.0	-15.1	-40.3	-14.9	-43.3	-12.2	-40.8	-1.5	-4.0	3.4	-1.0
Ringgold	0.1	0.5	-1.4	-10.1	-9.2	-30.5	-24.1	-35.8	-16.2	-38.1	-32.1	-45.2	-7.7	-11.0	-10.5	-14.6
Sac	-1.1	-2.9	-4.8	-11.4	-10.0	-31.7	-24.8	-39.9	-4.7	-31.7	-17.5	-37.8	6.1	0.0	9.7	3.7
Scott	0.7	2.2	6.3	2.0	-3.0	-34.1	-18.7	-25.2	-0.4	-36.1	-17.3	-24.9	2.7	-2.9	1.7	0.5
Shelby	-1.2	-2.6	-3.8	-13.1	-8.2	-32.2	-3.4	-30.7	-1.3	-33.6	3.4	-29.0	7.5	-2.2	7.1	2.7
Sioux	-0.2	0.3	5.0	2.4	-12.1	-28.4	-45.2	-47.6	-12.2	-25.5	-38.5	-43.3	0.2	4.2	12.4	8.3
Story	0.7	1.6	2.2	2.7	-8.6	-36.9	-13.9	-26.1	-8.1	-41.3	-8.1	-17.6	0.5	-7.1	6.8	11.5
Tama	0.1	0.2	1.7	-6.4	0.0	-40.6	-34.2	-52.4	1.3	-42.2	-36.4	-52.5	1.1	-2.8	-3.4	-0.3
Taylor	-1.7	-1.2	-2.3	-13.2	-15.8	-35.7	-31.3	-49.3	-12.5	-37.2	-22.2	-48.4	3.8	-2.0	13.3	2.1
Union	0.7	1.4	-0.2	-6.5	-7.9	-43.3	-36.7	-44.8	-8.9	-48.0	-37.4	-48.7	-1.0	-8.3	-1.1	-7.0
Van Buren	0.1	1.8	2.6	-5.1	-11.2	-30.6	-35.0	-52.7	-13.8	-37.4	-37.2	-56.1	-3.0	-9.7	-3.4	-7.2
Wapello	0.2	-1.4	-0.6	-8.7	-11.3	-25.4	-18.6	-27.0	-11.7	-29.1	-21.8	-29.2	-0.4	-5.0	-3.8	-3.0
Warren	1.0	5.9	13.9	16.8	-15.8	-52.7	-42.4	-51.1	-18.9	-55.9	-43.0	-51.0	-3.8	-6.8	-1.1	0.2
Washington	1.0	4.4	7.9	6.7	-4.3	-28.8	-22.1	-8.1	-5.6	-31.0	-23.4	-12.1	-1.3	-3.3	-1.8	-4.5
Wayne	-1.4	-4.5	-6.8	-15.8	3.3	-26.9	-20.9	-40.7	2.3	-26.8	-19.2	-41.0	-0.9	0.2	2.0	-0.6
Webster	-0.4	-1.5	-4.1	-10.7	-9.6	-38.0	-31.6	-36.1	-8.2	-41.3	-31.0	-36.1	1.5	-5.3	0.9	0.0
Winnebago	0.2	0.6	-1.3	-5.2	-5.2	-37.0	-17.3	-25.1	-4.6	-41.1	-17.3	-22.5	0.5	-6.5	-0.2	3.8
Winneshiek	-0.2	-0.3	-0.6	-3.5	-10.2	-47.9	-47.1	-60.0	-4.9	-48.6	-47.3	-60.8	5.6	-1.5	-0.4	-2.1
Woodbury	-0.1	0.1	3.8	1.7	-1.1	-30.8	-30.6	-43.3	-0.6	-30.6	-25.5	-40.6	0.5	0.3	7.5	4.8
Worth	-1.1	-2.2	-5.4	-13.1	-32.8	-63.4	-62.4	-73.3	-38.1	-68.1	-64.4	-74.6	-7.2	-12.5	-4.5	-4.5
Wright	-1.0	-2.3	-3.2	-12.1	-12.7	-48.8	-29.3	-45.4	-12.1	-52.0	-34.0	-49.5	0.7	-6.4	-6.8	-7.8
State of Iowa	0.3	1.4	3.6	0.4	-7.5	-34.5	-24.1	-37.3	-7.1	-37.3	-22.6	-37.5	0.5	-4.2	1.9	-0.2

## Percentage of the Population Receiving Food Stamps

An average of 4.4 percent of Iowa's population received food stamps each month during 1999 (Table 3). The percentage for the state had been 4.8 the previous year. In 1999, 61 counties averaged a lower percentage of residents receiving food stamps than did the state. Twenty-four counties had less than 3 percent of their populations in the food stamp program; Grundy, Iowa, Mitchell, Sioux, Winneshiek, and Worth were the only ones below 2 percent. Thirty-seven counties in 1999 had a higher percentage of residents receiving food stamps than the state total. Appanoose and Wapello listed more than 9.0 percent of their populations in the program (Figure 2).

Eighty-three counties had lower percentages of their populations in the food stamp program in 1999 than in 1988. Percentage point changes were small, however; none of the counties had changes of even two percentage points. When 1989 and 1999 were compared, only six counties had higher percentages in 1999 than in 1989. In 1994, Decatur County had 13.6 percent of its residents receiving food stamp assistance; that was the highest monthly average for any county during the 1989-1999 period.

## Total Annual Benefits Received

In 1999, Iowa distributed more than \$102 million in food stamp benefits (Table 4, Figure 3). This was \$5 million less than the total in 1998. Total cost of the program grew substantially from 1989 to 1993 but declined from that year to the present. In 1999, benefits were greater in Polk (\$14.3 million) than any other county, followed by Scott (\$9.6 million), Black Hawk (\$7.2 million), and Linn (\$6.0 million). In contrast, Osceola and Worth each reported less than \$100,000 in food stamp benefits.

When inflation is taken into account, total food stamp benefits decreased by \$30.0 million from 1989 to 1999 in Iowa (Table 4). Ninety-three counties followed the statewide trend. That's in direct contrast to changes noted before the adjustment for inflation, when 47 had higher benefits in 1999 than in 1989. This indicates the importance of examining the influence of inflation on benefits received.

## Average Monthly Benefits Per Person

The average amount provided in monthly benefits can be calculated by dividing the total benefits received by the number of recipients and dividing the result by 12. In 1999, each person in the food stamp program averaged a monthly benefit of \$67.11, which was \$1.80 higher than the average benefit in 1998 (Table 5, Figure 4). Iowa's counties varied significantly in the average monthly benefit received (Figure 5). The average of \$53.18 in Ringgold was the lowest in 1999; it was the only county with an average less than \$55.00. Benefits greater than \$70.00 occurred in Dallas, Johnson, Louisa, Muscatine, Polk, Scott, and Story, with Story's average of \$74.27 the highest.

All counties reported higher average monthly benefits in 1999 than in 1989. The monthly benefit increased 35.7 percent in Iowa over this period. This figure can be compared against the rate of inflation, which was 33.1 percent as measured by the change in the consumer price index from 1989 to 1999. When adjusted for inflation, changes in average monthly benefits were modest (Table 5). From 1989 to 1999, the inflation-adjusted gain was \$1.25, which was far less than the \$17.64 reported before inflation was taken into account.

## Changes Between 1989 and 1999

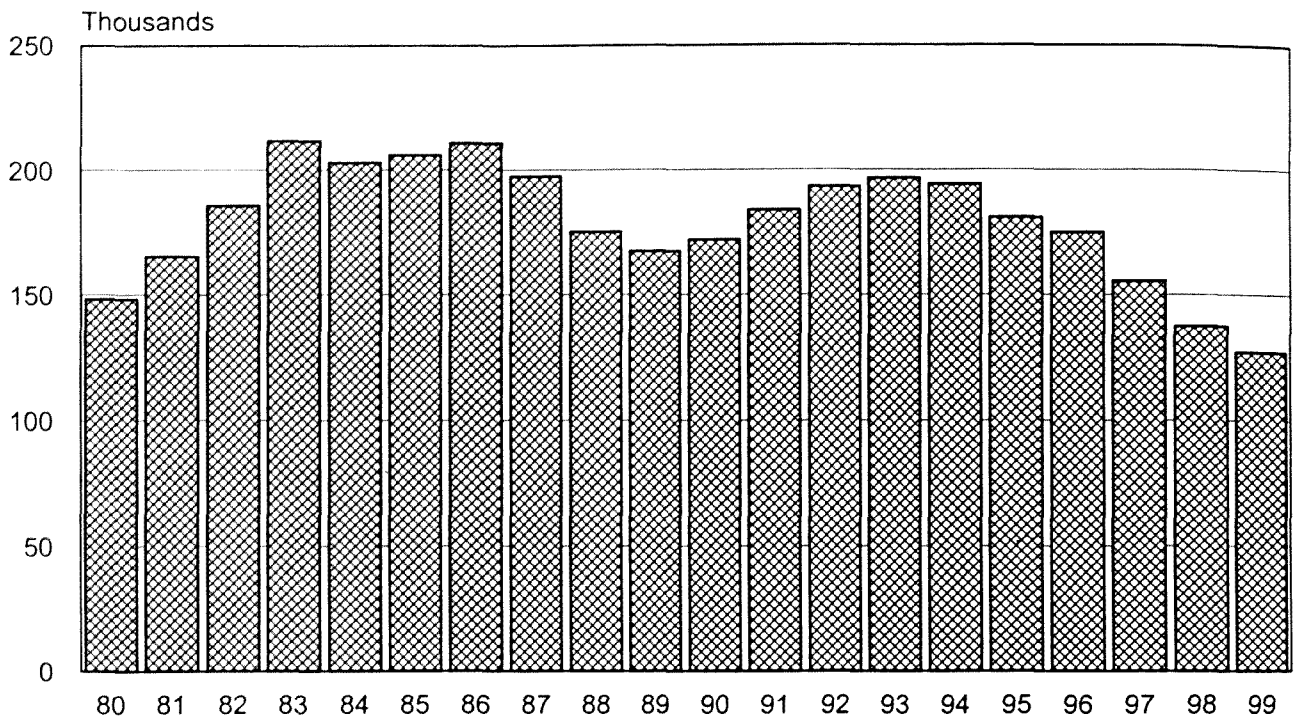
Changes in total benefits are affected by population trends, participation in the program, and benefits provided per person. Annual population estimates indicate that Iowa's population grew by 3.6 percent between 1989 and 1999. Increases occurred in 44 counties (Table 6). Population change, however, did not necessarily relate to either the direction or the magnitude of participation in the food stamp program.

Of the 55 counties that declined in population, 51 had fewer people in the food stamp program in 1999 than in 1989 and four experienced increased numbers receiving food stamps (Table 6). In the 51 counties in which both population and program participation declined, the percentage changes in these

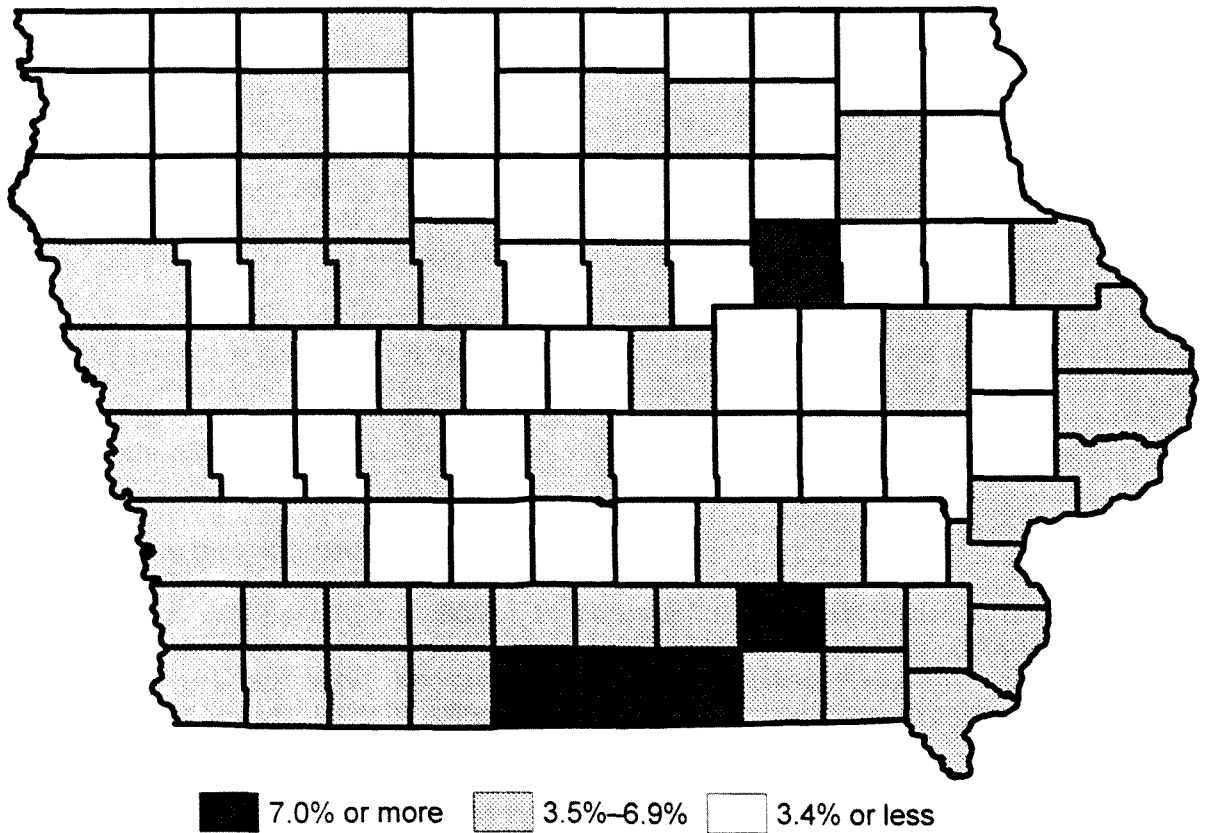
factors varied widely. For example, Winneshiek's population was estimated to have decreased by 0.6 percent but food stamp participants dropped by 47.1 percent; on the other hand, Des Moines had 1.5 percent fewer people and a 10.5 percent decline in food stamp recipients.

Change in the number of recipients has a significant impact on change in adjusted total benefits. Changes in recipients and in benefits between 1989 and 1999 were in the same direction (both up or both down) and of similar magnitude in all but four counties (Table 6). Buena Vista and Shelby had fewer recipients but higher benefits, while Green and Pocahontas had more recipients and lower benefits.

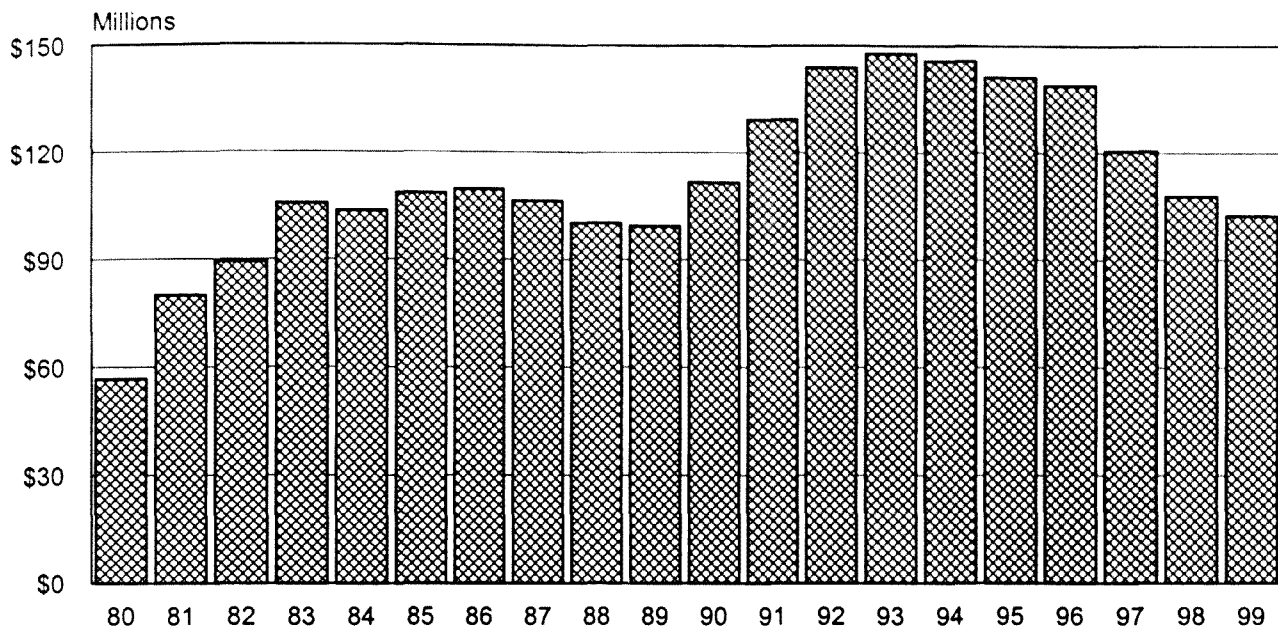
**Figure 1. Average number of persons receiving food stamps in Iowa, 1980–1999.**



**Figure 2. Percent receiving food stamps, 1999.**



**Figure 3. Total annual food stamp benefits in Iowa, 1980–1999.**



**Figure 4. Average monthly food stamp benefits (in \$) per recipient in Iowa, 1980–1999.**

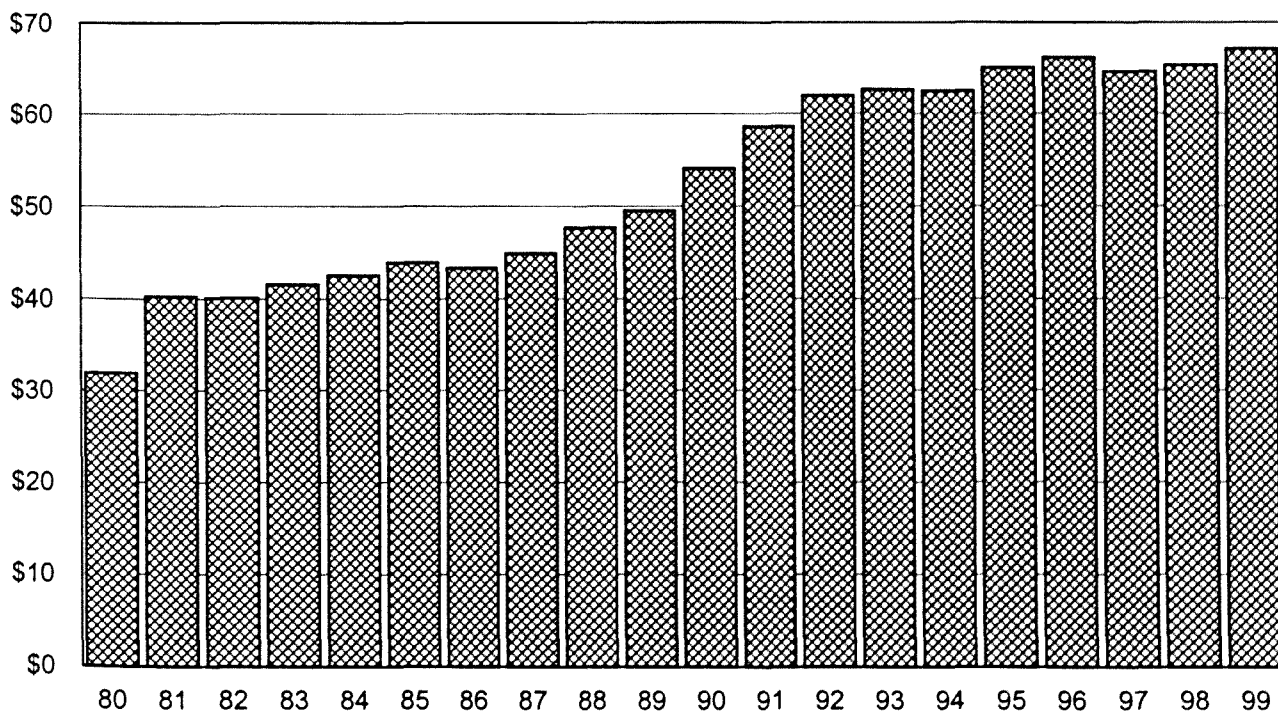
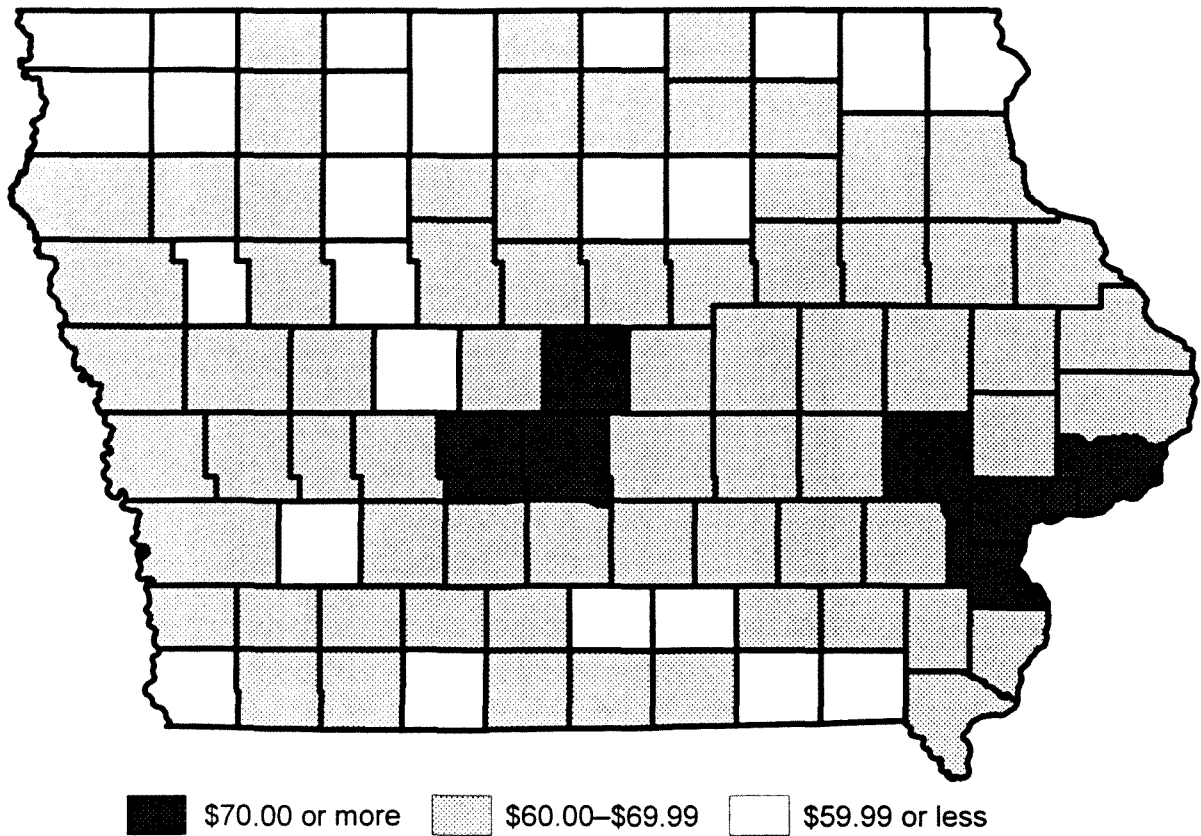


Figure 5. Average monthly food stamp benefit per recipient, 1999.



## Medical Assistance Provided Under Title XIX of the Social Security Act in Iowa's Counties: 1984, 1989, 1994, 1998, and 1999

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Medical assistance is provided to Iowans under Title XIX of the Social Security Act. Assistance is provided in a variety of areas, including in- and outpatient hospital services, skilled and intermediate care nursing facilities, and physician, clinic, laboratory, ambulance, and home health services, among others. For the most part, this program is known as Medicaid, although it also serves some others with medical needs. The Iowa Department of Human Services administers the program and maintains information on the number of persons eligible for benefits and the amount received each month. Eligibility is determined primarily on the basis of income, although other factors enter as well. For this report, averages of those eligible for benefits and actual benefits paid were calculated for selected years from 1984 through 1999; numbers from monthly reports were summed and divided by 12.

### Persons Eligible for Title XIX Assistance

In 1999, Iowa averaged 208,000 persons eligible for Title XIX medical benefits each month (Table 1). There was an upward trend from 1984 to 1994 followed by declines to 1998 and 1999. Polk averaged 25,800 persons eligible for medical assistance each month in 1999, the highest of any county. Black Hawk, Linn, and Scott were the only other counties with more than 10,000. Adams, Audubon, Grundy, Ida, Osceola, and Worth were the only counties with fewer than 500 persons eligible for Title XIX assistance.

The state averaged 27,800 more persons eligible for the Title XIX program in 1999 than in 1989. Eighty-nine counties followed that pattern with more persons eligible for the program at the end of that period than at the beginning. Five (Johnson, Linn, Polk, Pottawattamie, Scott) reported at least 1,000 more persons eligible in 1999 than in 1989. Forty-seven counties had fewer than 200 more eligible in 1999 than 10 years earlier. Of the 10 counties with fewer individuals eligible in 1999 than in 1989, declines exceeded 100 in Buchanan, Davis, Union, and Worth.

### Total Annual Title XIX Payments

More than \$1.4 billion was paid in Title XIX medical benefits in Iowa in 1999 (Table 1). This was nearly \$102 million more than in 1998 and the highest amount of the years reported. Total 1999 payments were less than \$5 million in 25 counties. In contrast, Polk's figure was nearly \$166 million. Payments in 29 others exceeded \$10 million that year.

Although total payments declined in 17 counties between 1998 and 1999, increases took place in all counties when the 1989-1999 period was examined. Statewide, payments rose \$873 million between 1989 and 1999, an increase of 158 percent. All but 10 counties experienced percentage gains greater than 100. Dollar increases ranged from less than \$1 million in Hamilton and Osceola to nearly \$104 million in Polk.

When total payments were adjusted for inflation (Table 1), however, the gains, while still substantial, were not as great as when the actual figures were examined. The adjusted amount nearly doubled from \$734 million in 1989 to more than \$1.4 billion in 1999, a gain of 94.1 percent. Five counties

Table 1. Statistics on Title XIX Benefits in Iowa's Counties, 1984, 1989, 1994, 1998-1999.

County	Average Monthly Number Eligible for Title XIX Benefits					Total Annual Title XIX Payments (in \$1,000s)					Total Adj. Annual Title XIX Payments (in 1999 \$1,000s)			
	1999	1998	1994	1989	1984	1999	1998	1994	1989	1984	1998	1994	1989	1984
Adair	532	550	603	375	405	3839	3588	3238	1232	980	3668	3629	1640	1549
Adams	396	449	487	329	246	3441	2923	1617	823	628	2988	1812	1096	993
Allamakee	905	939	982	685	706	7634	6851	4656	2335	1588	7004	5218	3109	2510
Appanoose	1821	1829	2061	1767	1793	8188	7545	6732	3550	2101	7713	7545	4726	3321
Audubon	379	411	479	348	277	2788	3583	3069	1408	687	3663	3440	1875	1086
Benton	1173	1262	1527	1143	1107	7886	7848	6333	2971	1634	8023	7098	3955	2583
Black Hawk	13278	13590	14130	12719	12058	72393	71547	55924	27276	13636	73142	62679	36313	21553
Boone	1841	1876	2217	1881	1857	39203	35784	39745	33500	24184	36582	44546	44599	38226
Bremer	1090	1063	1326	826	953	8139	7987	5855	2125	1380	8165	6562	2829	2181
Buchanan	1364	1381	1753	1547	1485	7387	7022	7055	4448	2815	7179	7907	5922	4449
Buena Vista	1382	1378	1242	907	781	9537	10397	6114	2645	1368	10629	6853	3521	2162
Butler	828	862	1200	894	853	6380	5777	6666	2936	1772	5906	7471	3909	2801
Calhoun	804	766	839	665	590	8146	7184	4497	2533	1469	7344	5040	3372	2322
Carroll	1319	1282	1379	1053	817	14052	12013	8519	4304	1988	12281	9548	5730	3142
Cass	1107	1116	1438	880	812	9307	8710	6078	2820	1692	8904	6812	3754	2674
Cedar	873	822	1076	839	636	5177	4191	4391	2530	1233	4284	4921	3368	1949
Cerro Gordo	3755	3785	4208	3184	2618	26453	24513	17936	9058	4355	25059	20103	12059	6884
Cherokee	738	747	900	680	660	5396	5824	5034	3514	1960	5954	5642	4678	3098
Chickasaw	801	739	974	622	594	5269	4994	3845	1582	892	5105	4309	2106	1410
Clarke	810	827	949	608	533	4981	4546	3547	1772	1042	4647	3975	2359	1647
Clay	1135	1068	1298	1034	942	6726	6213	5990	3031	1606	6351	6714	4035	2538
Clayton	1076	1046	1174	984	932	10200	9412	5932	3330	1989	9622	6649	4433	3144
Clinton	4878	4750	5262	4009	3529	29523	27782	19961	9347	4001	28401	22372	12444	6324
Crawford	1243	1227	1797	1059	777	7871	7898	9987	2898	1566	8074	11193	3858	2475
Dallas	1584	1630	1782	1481	1470	10750	10342	7405	4550	2514	10572	8299	6058	3974
Davis	557	564	732	710	651	5023	4378	3056	1700	809	4476	3425	2263	1279
Decatur	983	1035	1227	796	677	5389	5282	4873	2264	1475	5400	5462	3014	2331
Delaware	1015	1043	1086	1023	1033	7229	6271	4459	2381	1202	6411	4998	3170	1900
Des Moines	4276	4387	4374	3519	3060	21577	19639	15230	8106	4031	20077	17070	10792	6371
Dickinson	852	849	855	686	584	4860	5831	4092	1960	1155	5961	4586	2609	1826
Dubuque	5616	5576	5913	4933	5391	38213	35214	26515	13461	8141	35999	29718	17921	12868
Emmet	872	902	937	814	725	7359	7637	5226	2544	1362	7807	5857	3387	2153
Fayette	1938	1865	2124	1468	1302	11174	10109	8492	3638	2236	10334	9518	4843	3534
Floyd	1561	1501	1746	1299	1183	12141	11325	8398	3839	2158	11577	9412	5111	3411
Franklin	762	821	879	602	549	6060	6425	3715	1859	1199	6568	4164	2475	1895
Fremont	756	770	945	621	511	4688	4696	3998	1904	1088	4801	4481	2535	1720
Greene	833	767	826	560	558	4753	4366	3066	1375	897	4463	3436	1831	1418
Grundy	388	410	397	416	415	3014	3079	1456	1498	834	3148	1632	1994	1318
Guthrie	764	800	1034	713	700	5735	5566	4418	2206	1794	5690	4952	2937	2836
Hamilton	834	932	1247	869	800	3140	4391	5271	2423	1396	4489	5908	3226	2207
Hancock	666	674	826	505	412	4905	4806	3645	1672	902	4913	4085	2226	1426
Hardin	1277	1272	1696	1035	890	9927	8817	7194	3353	1838	9014	8063	4464	2905
Harrison	1320	1377	1585	1117	1031	9518	9178	7490	4010	2458	9383	8395	5339	3885
Henry	1372	1380	1589	1045	993	7197	7240	6114	3519	1861	7401	6853	4685	2942
Howard	685	651	802	532	580	4947	4391	3800	1717	2233	4489	4259	2286	3530
Humboldt	636	647	778	585	460	4764	4713	4579	1997	1003	4818	5132	2659	1585
Ida	493	462	418	339	272	3082	2730	1532	1597	895	2791	1717	2126	1415
Iowa	675	677	776	464	389	3949	4575	3618	1655	885	4677	4055	2203	1399
Jackson	1505	1462	1794	1486	1485	9697	9091	6938	3476	2146	9294	7776	4628	3392
Jasper	1911	2012	2303	1797	1899	16601	16239	12328	5330	3347	16601	13817	7096	5290



Table 1. Statistics on Title XIX Benefits in Iowa's Counties, 1984, 1989, 1994, 1998-1999 (continued).

County	Average Monthly Number Eligible for Title XIX Benefits					Total Annual Title XIX Payments (in \$1,000s)					Total Adj. Annual Title XIX Payments (in 1999 \$1,000s)			
	1999	1998	1994	1989	1984	1999	1998	1994	1989	1984	1998	1994	1989	1984
Jefferson	1270	1264	1396	1025	833	7693	7060	5363	2777	1393	7217	6011	3697	2202
Johnson	4145	3975	3748	2479	1808	26608	23971	16440	6332	2583	24505	18426	8430	4083
Jones	1176	1048	1226	984	944	7287	5929	4483	2422	1284	6061	5025	3224	2030
Keokuk	1016	1055	1107	915	665	5894	6425	4238	2173	1250	6568	4750	2893	1976
Kossuth	951	997	1200	748	627	6126	6373	5864	2454	1254	6515	6572	3267	1982
Lee	3788	3768	4331	3342	3269	20345	18578	15582	8688	5001	18992	17464	11567	7905
Linn	11465	11706	12862	9793	9845	77156	72128	56084	24744	13290	73736	62859	32942	21006
Louisa	928	980	1096	760	893	4684	4507	4002	2013	1165	4607	4485	2680	1841
Lucas	975	998	1087	809	888	5419	5043	3999	2178	1594	5155	4482	2900	2520
Lyon	609	629	586	401	355	4687	5154	2942	1754	935	5269	3297	2335	1478
Madison	765	725	859	729	681	6441	5258	4246	2390	1779	5375	4759	3182	2812
Mahaska	1837	1891	2078	1674	1462	9979	10093	8515	4559	2379	10318	9544	6070	3760
Marion	1663	1608	2007	1460	1469	11223	9836	7980	3933	2348	10055	8944	5236	3711
Marshall	3437	3387	3575	2487	2249	26433	24860	15922	5693	3083	25414	17845	7579	4873
Mills	1438	1436	1692	1423	1475	49547	46204	44507	39591	26455	47234	49883	52709	41815
Mitchell	516	492	599	434	411	3861	3741	3278	1540	1145	3824	3674	2050	1810
Monona	924	931	1078	832	768	7714	6847	5373	2631	1474	7000	6022	3503	2330
Monroe	843	805	969	842	638	5945	5203	4375	2126	1107	5319	4903	2830	1750
Montgomery	1212	1117	1174	763	690	8124	7447	5447	2407	1382	7613	6105	3205	2184
Muscatine	3487	3561	3910	3158	2709	17452	16239	11545	6116	3157	16601	12940	8142	4990
O'Brien	892	926	899	641	621	9885	8886	4763	2282	1542	9084	5338	3038	2437
Osceola	246	240	302	266	227	1209	1097	1209	1019	405	1121	1355	1357	640
Page	1765	1752	1732	1432	1179	13740	12186	7056	3583	2080	12458	7908	4770	3288
Palo Alto	667	700	797	645	637	5758	5644	4218	2311	1301	5770	4728	3077	2056
Plymouth	1091	1023	1117	881	700	6478	4648	5727	2755	1510	4752	6419	3668	2387
Pocahontas	591	556	659	427	440	4778	4347	3720	1712	932	4444	4169	2279	1473
Polk	25788	26171	30040	21806	21201	165559	156366	124717	61803	35842	159851	139782	82280	56653
Pottawattamie	7572	7666	9239	6489	6184	41401	39213	35260	16468	10478	40087	39519	21924	16562
Poweshiek	1077	1060	1185	761	768	7507	6808	5220	2480	1077	6960	5851	3302	1702
Ringgold	563	559	578	489	427	4628	4125	2497	1677	1018	4217	2799	2233	1609
Sac	765	715	880	647	580	5257	3730	3765	2259	1191	3813	4220	3007	1883
Scott	15000	15001	17763	13647	12228	68775	62598	61388	28343	15084	63993	68803	37734	23842
Shelby	787	757	822	582	501	6612	5880	3798	1877	1285	6011	4257	2499	2031
Sioux	1328	1302	1209	912	683	9852	8947	6259	3224	2032	9146	7015	4292	3212
Story	2747	2729	3017	1927	1490	20570	19744	12028	5587	2974	20184	13481	7438	4701
Tama	988	984	1317	983	924	7085	6521	6444	3095	1917	6666	7222	4120	3030
Taylor	614	653	723	558	548	3696	3477	2814	1464	1301	3554	3154	1949	2056
Union	1084	1153	1375	1249	1055	6188	6620	4542	3160	1784	6768	5091	4207	2820
Van Buren	628	628	632	487	519	3507	3242	2422	1465	689	3314	2715	1950	1089
Wapello	4563	4783	4929	4021	3674	23863	21931	15447	8851	5440	22420	17313	11784	8599
Warren	1649	1717	2136	1610	1660	13677	12293	9970	5295	3367	12567	11174	7049	5322
Washington	1296	1245	1361	1043	812	10145	9325	7527	3420	1716	9533	8436	4553	2712
Wayne	743	678	815	610	636	4301	3632	3211	1859	1176	3713	3599	2475	1859
Webster	3663	3696	4431	3585	3225	22773	21352	18876	9045	5001	21828	21156	12042	7905
Winnebago	624	623	714	489	415	4516	4422	4082	1973	1037	4521	4575	2627	1639
Winneshiak	971	982	1056	780	675	7380	6832	4953	2194	1060	6984	5551	2921	1675
Woodbury	8840	8699	9855	8531	7737	53921	50756	45776	26102	14261	51887	51305	34750	22541
Worth	289	344	473	390	396	2445	2372	2410	1239	739	2425	2701	1650	1168
Wright	1060	1003	1206	757	750	10449	7830	4829	2229	1351	8005	5412	2968	2135
State of Iowa	207993	208942	235812	180158	167547	1424639	1322092	1054676	551297	320097	1351558	1182073	733956	505953

Table 2. Percentage Changes in Estimated Population, Persons Eligible, and Adjusted Total Annual Title XIX Payments in Iowa's Counties, 1984-1999.

County	Estimated Population				Persons Eligible to Receive Title XIX Payments				Adjusted (1999 \$s) Total Annual Title XIX Payments			
	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs
Adair	-0.5	-2.6	-4.3	-11.8	-3.3	-11.8	41.9	31.4	4.7	5.8	134.1	147.8
Adams	0.4	-3.4	-11.7	-18.8	-11.8	-18.7	20.4	61.0	15.2	89.9	214.0	246.5
Allamakee	0.1	0.7	0.0	-5.1	-3.6	-7.8	32.1	28.2	9.0	46.3	145.5	204.1
Appanoose	-0.9	-1.3	-2.7	-8.2	-0.4	-11.6	3.1	1.6	6.2	8.5	73.3	146.6
Audubon	-0.1	-2.0	-8.1	-18.2	-7.8	-20.9	8.9	36.8	-23.9	-19.0	48.7	156.7
Benton	1.6	8.1	15.0	13.0	-7.1	-23.2	2.6	6.0	-1.7	11.1	99.4	205.3
Black Hawk	-0.8	-3.0	-2.7	-10.4	-2.3	-6.0	4.4	10.1	-1.0	15.5	99.4	235.9
Boone	0.7	4.2	4.7	2.3	-1.9	-17.0	-2.1	-0.9	7.2	-12.0	-12.1	2.6
Bremer	0.4	1.4	3.2	-3.1	2.5	-17.8	32.0	14.4	-0.3	24.0	187.7	273.2
Buchanan	0.0	-0.5	1.3	-4.9	-1.2	-22.2	-11.8	-8.1	2.9	-6.6	24.7	66.0
Buena Vista	0.0	-3.1	-3.2	-7.3	0.3	11.3	52.4	77.0	-10.3	39.2	170.9	341.1
Butler	-0.8	-1.3	-2.1	-9.4	-3.9	-31.0	-7.4	-2.9	8.0	-14.6	63.2	127.8
Calhoun	-0.5	-3.0	-2.4	-11.3	5.0	-4.2	20.9	36.3	10.9	61.6	141.6	250.8
Carroll	-0.5	0.2	0.1	-5.0	2.9	-4.4	25.3	61.4	14.4	47.2	145.2	347.2
Cass	-0.9	-3.8	-4.7	-14.0	-0.8	-23.0	25.8	36.3	4.5	36.6	147.9	248.1
Cedar	0.6	3.2	3.9	-2.0	6.2	-18.9	4.1	37.3	20.8	5.2	53.7	165.6
Cerro Gordo	-0.9	-1.8	-2.5	-5.0	-0.8	-10.8	17.9	43.4	5.6	31.6	119.4	284.3
Cherokee	-1.0	-5.8	-7.6	-16.6	-1.2	-18.0	8.5	11.8	-9.4	-4.4	15.3	74.2
Chickasaw	0.0	0.3	0.1	-9.9	8.4	-17.8	28.8	34.8	3.2	22.3	150.2	273.7
Clarke	-0.4	1.4	-0.6	-2.6	-2.1	-14.6	33.2	52.0	7.2	25.3	111.1	202.4
Clay	-1.3	-2.3	-1.2	-9.0	6.3	-12.6	9.8	20.5	5.9	0.2	66.7	165.0
Clayton	-0.7	-1.1	-3.3	-9.4	2.9	-8.3	9.3	15.5	6.0	53.4	130.1	224.4
Clinton	-0.6	-2.7	-2.8	-9.0	2.7	-7.3	21.7	38.2	4.0	32.0	137.2	366.8
Crawford	-0.2	-0.3	-3.7	-12.3	1.3	-30.8	17.4	60.0	-2.5	-29.7	104.0	218.0
Dallas	3.6	17.7	30.3	31.0	-2.8	-11.1	7.0	7.8	1.7	29.5	77.5	170.5
Davis	0.6	1.0	2.6	-4.7	-1.2	-23.9	-21.5	-14.4	12.2	46.7	122.0	292.7
Decatur	0.9	2.3	-2.0	-8.6	-5.0	-19.9	23.5	45.2	-0.2	-1.3	78.8	131.2
Delaware	-0.3	0.7	2.4	-1.5	-2.7	-6.5	-0.8	-1.7	12.8	44.6	128.0	280.5
Des Moines	-0.3	-2.0	-1.5	-5.4	-2.5	-2.2	21.5	39.7	7.5	26.4	99.9	238.7
Dickinson	0.5	5.8	9.7	7.0	0.4	-0.4	24.2	45.9	-18.5	6.0	86.3	166.2
Dubuque	0.3	-0.1	1.7	-1.7	0.7	-5.0	13.8	4.2	6.2	28.6	113.2	197.0
Emmet	-2.0	-5.8	-7.8	-16.6	-3.3	-6.9	7.1	20.3	-5.7	25.6	117.3	241.8
Fayette	-1.0	-1.6	-1.3	-10.7	3.9	-8.8	32.0	48.8	8.1	17.4	130.7	216.2
Floyd	-0.7	-2.8	-6.1	-13.4	4.0	-10.6	20.2	32.0	4.9	29.0	137.5	255.9
Franklin	-0.8	-2.3	-5.4	-13.8	-7.2	-13.3	26.6	38.8	-7.7	45.5	144.8	219.8
Fremont	-0.8	-5.4	-6.6	-14.7	-1.8	-20.0	21.7	47.9	-2.4	4.6	84.9	172.6
Greene	-0.5	-0.5	-1.5	-12.8	8.6	0.8	48.8	49.3	6.5	38.3	159.6	235.2
Grundy	0.4	1.3	1.4	-9.1	-5.4	-2.3	-6.7	-6.5	-4.3	84.7	51.2	128.7
Guthrie	0.7	3.2	6.1	0.0	-4.5	-26.1	7.2	9.1	0.8	15.8	95.3	102.2
Hamilton	-0.7	-0.9	-2.4	-7.5	-10.5	-33.1	-4.0	4.3	-30.1	-46.9	-2.7	42.3
Hancock	-0.1	-0.1	-6.2	-10.9	-1.2	-19.4	31.9	61.7	-0.2	20.1	120.4	244.0
Hardin	-1.0	-2.6	-5.5	-14.8	0.4	-24.7	23.4	43.5	10.1	23.1	122.4	241.7
Harrison	-0.8	2.3	2.6	-2.6	-4.1	-16.7	18.2	28.0	1.4	13.4	78.3	145.0
Henry	0.5	2.1	5.7	8.5	-0.6	-13.7	31.3	38.2	-2.8	5.0	53.6	144.6
Howard	-1.1	-2.1	-3.4	-11.8	5.2	-14.6	28.8	18.1	10.2	16.2	116.4	40.1
Humboldt	-1.0	-1.9	-5.0	-13.6	-1.7	-18.3	8.7	38.3	-1.1	-7.2	79.2	200.6
Ida	0.2	-4.7	-5.5	-9.9	6.7	17.9	45.4	81.3	10.4	79.5	45.0	117.8
Iowa	1.0	4.8	6.9	3.6	-0.3	-13.0	45.5	73.5	-15.6	-2.6	79.3	182.3
Jackson	0.1	-0.3	-0.2	-7.8	2.9	-16.1	1.3	1.3	4.3	24.7	109.5	185.9
Jasper	0.3	4.2	5.5	4.7	-5.0	-17.0	6.3	0.6	0.0	20.1	133.9	213.8

Table 2. Percentage Changes in Estimated Population, Persons Eligible, and Adjusted Total Annual Title XIX Payments in Iowa's Counties, 1984-1999 (continued).

County	Estimated Population				Persons Eligible to Receive Title XIX Payments				Adjusted (1999 \$s) Total Annual Title XIX Payments			
	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs	1 Yr	5 Yrs	10 Yrs	15 Yrs
Jefferson	-1.6	-0.3	2.3	2.3	0.5	-9.0	23.9	52.5	6.6	28.0	108.1	249.4
Johnson	1.2	3.4	10.0	18.9	4.3	10.6	67.2	129.3	8.6	44.4	215.6	551.7
Jones	-0.3	0.6	3.6	0.9	12.2	-4.1	19.5	24.6	20.2	45.0	126.0	259.0
Keokuk	-1.1	-1.6	-2.7	-9.3	-3.7	-8.2	11.0	52.8	-10.3	24.1	103.7	198.3
Kossuth	-0.5	-2.9	-6.4	-15.3	-4.6	-20.8	27.1	51.7	-6.0	-6.8	87.5	209.1
Lee	-0.5	-1.6	-1.5	-7.8	0.5	-12.5	13.3	15.9	7.1	16.5	75.9	157.4
Linn	1.2	4.5	10.2	11.9	-2.1	-10.9	17.1	16.5	4.6	22.7	134.2	267.3
Louisa	0.1	1.6	3.3	-0.5	-5.3	-15.3	22.1	3.9	1.7	4.4	74.8	154.4
Lucas	0.4	1.3	-0.5	-9.1	-2.3	-10.3	20.5	9.8	5.1	20.9	86.9	115.0
Lyon	0.0	1.1	1.0	-4.4	-3.2	3.9	51.9	71.5	-11.0	42.2	100.7	217.1
Madison	1.6	8.2	13.7	15.3	5.5	-10.9	4.9	12.3	19.8	35.3	102.4	129.1
Mahaska	0.3	1.1	2.5	-0.8	-2.9	-11.6	9.7	25.6	-3.3	4.6	64.4	165.4
Marion	0.6	2.8	5.0	6.4	3.4	-17.1	13.9	13.2	11.6	25.5	114.3	202.4
Marshall	0.1	1.4	1.3	-5.4	1.5	-3.9	38.2	52.8	4.0	48.1	248.8	442.4
Mills	1.5	8.5	11.1	10.5	0.1	-15.0	1.1	-2.5	4.9	-0.7	-6.0	18.5
Mitchell	0.7	0.4	0.9	-4.2	4.9	-13.9	18.9	25.5	1.0	5.1	88.3	113.3
Monona	0.2	-0.1	-0.7	-10.0	-0.8	-14.3	11.1	20.3	10.2	28.1	120.2	231.1
Monroe	-0.2	-1.7	-1.0	-7.8	4.7	-13.0	0.1	32.1	11.8	21.3	110.1	239.7
Montgomery	-1.2	-2.2	-3.3	-11.1	8.5	3.2	58.8	75.7	6.7	33.1	153.5	272.0
Muscatine	0.5	0.4	3.6	0.8	-2.1	-10.8	10.4	28.7	5.1	34.9	114.3	249.7
O'Brien	-1.8	-4.6	-5.8	-12.4	-3.7	-0.8	39.2	43.6	8.8	85.2	225.4	305.6
Osceola	-0.6	-3.3	-4.8	-14.3	2.5	-18.5	-7.5	8.4	7.9	-10.8	-10.9	88.9
Page	-0.8	2.3	1.8	-5.7	0.7	1.9	23.3	49.7	10.3	73.7	188.1	317.9
Palo Alto	-1.4	-4.7	-7.9	-18.5	-4.7	-16.3	3.4	4.7	-0.2	21.8	87.1	180.1
Plymouth	0.9	2.3	5.9	3.1	6.6	-2.3	23.8	55.9	36.3	0.9	76.6	171.4
Pocahontas	0.5	-3.8	-9.7	-19.1	6.3	-10.3	38.4	34.3	7.5	14.6	109.7	224.4
Polk	1.4	5.2	13.1	18.7	-1.5	-14.2	18.3	21.6	3.6	18.4	101.2	192.2
Pottawattamie	0.3	3.7	4.4	0.9	-1.2	-18.0	16.7	22.4	3.3	4.8	88.8	150.0
Poweshiek	-0.4	-1.4	-1.9	-0.7	1.6	-9.1	41.5	40.2	7.9	28.3	127.3	341.1
Ringgold	0.1	0.5	-1.4	-10.1	0.7	-2.6	15.1	31.9	9.7	65.3	107.3	187.6
Sac	-1.1	-2.9	-4.8	-11.4	7.0	-13.1	18.2	31.9	37.9	24.6	74.8	179.2
Scott	0.7	2.2	6.3	2.0	0.0	-15.6	9.9	22.7	7.5	0.0	82.3	188.5
Shelby	-1.2	-2.6	-3.8	-13.1	4.0	-4.3	35.2	57.1	10.0	55.3	164.6	225.6
Sioux	-0.2	0.3	5.0	2.4	2.0	9.8	45.6	94.4	7.7	40.4	129.5	206.7
Story	0.7	1.6	2.2	2.7	0.7	-8.9	42.6	84.4	1.9	52.6	176.6	337.6
Tama	0.1	0.2	1.7	-6.4	0.4	-25.0	0.5	6.9	6.3	-1.9	72.0	133.8
Taylor	-1.7	-1.2	-2.3	-13.2	-6.0	-15.1	10.0	12.0	4.0	17.2	89.6	79.8
Union	0.7	1.4	-0.2	-6.5	-6.0	-21.2	-13.2	2.7	-8.6	21.5	47.1	119.4
Van Buren	0.1	1.8	2.6	-5.1	0.0	-0.6	29.0	21.0	5.8	29.2	79.8	222.0
Wapello	0.2	-1.4	-0.6	-8.7	-4.6	-7.4	13.5	24.2	6.4	37.8	102.5	177.5
Warren	1.0	5.9	13.9	16.8	-4.0	-22.8	2.4	-0.7	8.8	22.4	94.0	157.0
Washington	1.0	4.4	7.9	6.7	4.1	-4.8	24.3	59.6	6.4	20.3	122.8	274.1
Wayne	-1.4	-4.5	-6.8	-15.8	9.6	-8.8	21.8	16.8	15.8	19.5	73.8	131.4
Webster	-0.4	-1.5	-4.1	-10.7	-0.9	-17.3	2.2	13.6	4.3	7.6	89.1	188.1
Winnebago	0.2	0.6	-1.3	-5.2	0.2	-12.6	27.6	50.4	-0.1	-1.3	71.9	175.5
Winneshiak	-0.2	-0.3	-0.6	-3.5	-1.1	-8.0	24.5	43.9	5.7	32.9	152.7	340.6
Woodbury	-0.1	0.1	3.8	1.7	1.6	-10.3	3.6	14.3	3.9	5.1	55.2	139.2
Worth	-1.1	-2.2	-5.4	-13.1	-16.0	-38.9	-25.9	-27.0	0.8	-9.5	48.2	109.3
Wright	-1.0	-2.3	-3.2	-12.1	5.7	-12.1	40.0	41.3	30.5	93.1	252.1	389.4
State of Iowa	0.3	1.4	3.6	0.4	-0.5	-11.8	15.5	24.1	5.4	20.5	94.1	181.6

reported adjusted increases of at least 200 percent, with Marshall and Wright each increasing by about 250 percent. Forty-two counties had gains of less than 100 percent. Four (Boone, Hamilton, Mills, Osceola) noted a decline in total payments after adjusting for inflation.

### **Change in Selected Title XIX Figures**

The number eligible for Title XIX benefits increased by 15.5 percent between 1989 and 1999, compared with an increase of 94.1 percent in adjusted total benefits (Table 2); these figures were even higher when change across 15 years (1984-1999) was examined. Percentages for five- and one-year change periods generally were smaller and in opposite directions (adjusted payments increased while the number eligible decreased). Changes differed across the counties, of course. For example, Buena Vista, Johnson, and Montgomery experienced relatively great percentage gains in both those eligible and total payments from 1989 to 1999. While payments in Marshall and Wright gained more rapidly than all other counties, their numbers eligible did not increase as much as in some counties. In Henry, those eligible increased at a rate substantially above that for the state although adjusted payments did not. Other combinations are evident when the data are examined in detail.

**Note:** Eligibility requirements for the medical assistance program may vary by year because of revisions in federal codes. Thus, caution is urged in examining year-to-year changes.

## The Family Investment Program in Iowa's Counties: 1984 and 1989-1999

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The Iowa Department of Human Services maintains information on the number of families and persons receiving assistance each month in the Family Investment Program (FIP), which formerly was called the Aid to Families With Dependent Children (AFDC) program. To be eligible for the program, a family must have very low assets and income and have at least one dependent child. In Iowa, both one- and two-parent families can qualify for the FIP if they meet the guidelines for assets, income, incapacitation, or unemployment. Families qualify for assistance in either the regular program or the unemployed-parent program. Most families are in the regular program, but there are provisions in the FIP regulations that allow aid to families in which the main worker becomes unemployed. Each family served constitutes a case in the data system maintained by the Department of Human Services; because numbers of people assisted varies across cases, information on the total number receiving benefits also is provided.

For this report, calendar-year monthly averages were computed for cases and recipients in both the regular and unemployed-parent program. Two cautions are noted for using these data. Federal and state changes in the eligibility for these programs affect year-to-year comparisons and decade trends; particularly important are legislative mandates limiting eligibility that occurred in recent years.

### Regular Family Investment Cases and Recipients

Iowa averaged nearly 35,700 regular FIP cases monthly in 1994, which was the highest number in the period examined (Table 1). These cases decreased dramatically with new legislation that limited eligibility; 19,900 cases were reported per month in 1999. Thirty-one counties averaged fewer than 50 cases each month. Four others (Black Hawk, Linn, Polk, Scott) recorded averages above 1,000, with Polk's 3,027 the highest. The decrease in regular FIP cases occurring from 1998 to 1999 was the fifth consecutive decline since 1994. A comparison of 1989 with 1999 reveals that Iowa had 12,347 fewer regular cases at the end of the period than at the beginning. All but one county also had fewer cases in 1999 than in 1989.

Most FIP cases serve more than one individual, of course. The average number of Iowans receiving benefits in the regular FIP each month in 1999 was 51,131 (Table 1). This figure was substantially lower than the other years examined and represented a decrease of 6,217 from 1998. More than 100,000 persons were in the program each month, on average, in both 1985 and 1986 (Figure 1).

Polk County averaged more than 7,800 FIP recipients monthly in the regular program in 1999, the highest number for any county. The only other county above 5,000 that year was Scott. These two counties alone accounted for more than a quarter (25.9%) of Iowa's average monthly regular FIP recipients. Eighty-two counties had fewer than 500 recipients in 1999, although only 18 were below 100.

Iowa had 36,000 fewer persons receiving regular FIP payments each month, on average, in 1999 than in 1989. All but Pocahontas followed this trend. Black Hawk, Linn, Polk, Pottawattamie, Scott, and Woodbury dropped by more than 1,000; most counties (68) declined by 100 to 1,000 recipients.

Table 1. Average Monthly Number of Regular Family Investment Program Cases and Recipients in Iowa's Counties, 1984, 1989-1999.

County	Average Monthly Number of Regular Family Investment Program Cases												Avg. Monthly Number of Regular Family Investment Program Recipients											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	28	39	49	50	50	50	56	57	49	46	39	64	74	99	129	142	138	136	151	158	146	133	103	202
Adams	21	29	33	47	47	53	47	48	43	36	39	30	50	75	95	138	137	160	128	143	122	115	118	92
Allamakee	37	53	68	78	86	84	84	81	67	72	79	110	94	136	183	203	237	237	231	223	178	204	221	302
Appanoose	191	204	240	259	266	273	274	290	297	300	322	328	499	541	618	667	692	686	710	784	814	801	847	989
Audubon	23	30	30	34	37	42	37	41	42	36	33	37	59	81	72	84	92	113	103	115	125	108	100	106
Benton	104	139	151	158	183	219	216	225	216	225	199	207	240	334	386	393	468	573	571	601	599	642	542	586
Black Hawk	1616	1814	2026	2265	2447	2629	2539	2549	2526	2550	2703	2907	4210	4660	5194	5811	6371	6980	6788	6799	6859	7047	7328	7947
Boone	101	126	156	188	219	245	252	248	228	209	229	262	264	324	415	499	591	656	677	655	590	536	576	728
Bremer	80	86	97	121	142	166	148	126	131	122	124	181	178	194	223	306	369	427	380	316	336	316	322	497
Buchanan	110	140	150	181	202	223	235	242	248	236	245	269	281	372	389	461	525	606	623	647	676	634	659	771
Buena Vista	118	117	125	133	147	157	154	157	137	127	130	150	306	306	317	331	377	393	400	404	352	328	325	426
Butler	59	72	85	98	106	110	102	123	131	122	115	120	149	190	229	253	284	297	272	337	377	335	322	328
Calhoun	48	47	52	73	79	98	90	92	86	79	93	98	108	113	133	174	200	246	227	240	238	232	279	265
Carroll	72	77	92	110	124	128	128	122	122	114	122	110	186	201	237	281	323	340	339	324	327	317	324	303
Cass	82	90	112	134	160	178	170	148	138	137	134	140	193	219	284	347	417	489	485	407	370	373	369	377
Cedar	77	82	98	108	121	142	124	125	121	122	118	105	197	200	236	258	297	346	308	315	320	336	315	277
Cerro Gordo	259	310	359	442	489	570	561	558	539	539	534	525	634	768	883	1086	1215	1429	1411	1449	1418	1449	1416	1443
Cherokee	54	53	67	87	104	113	92	91	97	86	89	105	131	124	164	211	249	286	240	250	274	231	237	297
Chickasaw	49	42	62	66	77	92	84	75	73	80	90	98	120	105	154	169	205	239	208	193	194	214	234	269
Clarke	64	77	92	111	126	135	111	105	90	97	90	97	162	196	242	303	343	358	303	293	250	282	263	281
Clay	88	95	96	110	128	146	152	162	159	154	172	194	228	232	242	273	315	364	380	424	419	406	442	520
Clayton	44	48	53	58	71	85	89	105	109	102	119	139	108	113	130	142	191	234	243	286	307	304	328	407
Clinton	552	576	648	729	829	901	925	887	866	834	823	752	1395	1459	1604	1817	2097	2295	2367	2263	2268	2226	2191	2057
Crawford	114	119	130	157	185	191	168	164	166	162	162	156	280	316	344	415	492	516	467	456	459	441	438	408
Dallas	115	151	172	214	264	283	292	298	276	275	286	335	305	385	429	533	701	766	765	779	741	741	776	946
Davis	35	51	61	64	85	94	90	87	85	100	101	98	92	121	157	161	218	253	243	237	223	270	271	292
Decatur	60	84	95	114	113	124	121	124	114	104	100	101	132	202	247	297	289	327	322	319	295	264	257	275
Delaware	82	80	93	113	111	113	120	122	119	131	146	159	200	208	237	288	304	324	347	338	344	386	414	503
Des Moines	492	582	605	620	665	730	732	705	685	674	652	699	1287	1525	1572	1612	1755	1931	1970	1900	1887	1893	1799	1956
Dickinson	61	69	71	78	92	96	76	82	91	91	107	119	148	166	172	187	224	239	197	200	233	237	287	325
Dubuque	520	567	565	592	614	749	751	761	749	769	804	1011	1356	1475	1477	1541	1613	1992	1997	2024	2020	2090	2161	2901
Emmet	45	49	56	66	77	96	101	101	106	115	117	128	116	134	148	177	209	258	272	274	300	319	329	370
Fayette	153	169	189	223	219	253	265	248	236	203	201	213	406	439	506	586	574	691	719	680	651	573	549	620

Table 1. Average Monthly Number of Regular Family Investment Program Cases and Recipients in Iowa's Counties, 1984, 1989-1999 (continued).

County	Average Monthly Number of Regular Family Investment Program Cases												Avg. Monthly Number of Regular Family Investment Program Recipients											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Floyd	122	138	142	163	183	215	191	190	191	200	209	208	317	357	364	412	474	581	518	504	516	531	551	577
Franklin	39	51	64	67	82	94	81	86	79	84	92	85	102	132	161	182	222	248	215	222	212	217	250	223
Fremont	57	71	75	95	109	124	108	92	87	84	95	84	151	181	206	247	298	340	297	255	235	233	253	252
Greene	65	67	73	85	99	107	92	81	83	82	83	94	145	166	183	210	257	283	248	218	215	220	217	256
Grundy	32	36	45	55	55	57	65	68	67	63	60	64	82	91	113	136	136	145	180	185	181	174	154	183
Guthrie	42	48	54	76	91	114	115	116	108	93	99	100	108	126	139	195	234	307	306	308	282	260	277	294
Hamilton	66	73	85	98	110	143	144	134	132	117	123	152	167	187	215	233	274	369	375	344	340	298	323	412
Hancock	34	47	51	64	69	87	83	84	73	80	82	81	83	119	132	173	187	244	235	235	199	201	208	222
Hardin	92	103	135	153	183	218	209	197	174	165	162	171	224	256	328	374	445	563	526	479	427	407	397	449
Harrison	82	111	131	140	153	167	165	172	156	150	156	183	202	283	339	353	398	445	452	467	445	409	428	517
Henry	100	128	149	168	194	225	203	188	169	165	165	174	228	299	369	406	482	563	530	479	444	432	445	471
Howard	32	33	40	43	48	59	60	63	50	54	67	81	85	82	112	103	122	157	154	178	143	154	180	221
Humboldt	41	43	49	59	63	74	74	69	64	65	75	72	109	118	125	159	176	211	214	198	175	170	198	199
Ida	32	34	41	42	48	43	41	45	42	29	35	33	76	91	102	102	110	101	103	119	113	75	95	97
Iowa	47	50	55	70	72	89	74	69	69	73	64	63	115	127	134	182	181	227	188	164	165	180	159	162
Jackson	114	124	151	161	188	219	205	204	222	220	215	242	284	298	368	408	475	573	534	520	576	574	563	707
Jasper	162	187	205	251	283	306	325	315	300	291	300	403	386	451	508	625	714	765	826	803	783	739	771	1096
Jefferson	119	133	147	157	173	195	172	168	175	169	166	154	300	329	364	381	432	494	457	435	466	448	418	433
Johnson	406	414	494	545	571	599	550	492	465	455	449	449	1058	1061	1235	1364	1431	1556	1432	1267	1108	1187	1138	1187
Jones	82	92	112	132	153	157	152	139	136	145	159	191	212	259	297	337	397	421	412	376	367	390	434	522
Keokuk	75	93	111	116	115	138	143	133	145	137	139	95	208	256	299	310	302	359	385	346	390	380	405	298
Kossuth	54	74	79	87	104	124	117	120	119	116	101	94	135	192	201	231	278	330	316	316	303	298	257	275
Lee	448	493	543	577	601	695	684	699	704	663	640	692	1139	1251	1394	1504	1564	1871	1857	1888	1932	1830	1746	1950
Linn	1235	1414	1541	1701	1824	2090	2050	2044	1996	1924	1917	2299	3159	3545	3903	4321	4718	5403	5288	5265	5248	5128	5067	6308
Louisa	99	109	126	138	164	177	170	169	151	135	132	153	246	274	328	372	431	469	462	464	424	385	364	456
Lucas	89	106	122	135	147	144	124	129	130	122	123	147	220	270	310	353	390	372	327	339	344	320	317	438
Lyon	35	37	40	53	54	55	53	45	38	42	45	50	87	88	95	138	137	145	143	129	112	131	126	147
Madison	45	42	50	62	79	95	96	95	103	95	103	99	102	105	113	148	205	261	244	238	268	262	287	257
Mahaska	169	198	215	231	255	278	264	269	278	274	277	279	452	519	556	589	635	708	682	694	732	718	716	776
Marion	132	138	150	196	243	281	271	256	237	230	228	276	340	363	399	507	631	730	724	690	630	620	621	772
Marshall	337	380	413	446	480	558	548	533	481	455	452	447	896	999	1093	1169	1256	1516	1485	1440	1311	1238	1222	1249
Mills	103	122	151	170	192	201	163	150	136	137	137	134	270	306	391	443	486	539	433	391	360	370	371	395
Mitchell	23	27	35	41	43	60	58	60	59	48	54	57	57	67	90	99	103	146	144	153	152	118	133	140

Table 1. Average Monthly Number of Regular Family Investment Program Cases and Recipients in Iowa's Counties, 1984, 1989-1999 (continued).

County	Average Monthly Number of Regular Family Investment Program Cases												Avg. Monthly Number of Regular Family Investment Program Recipients											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Monona	34	50	60	69	86	107	111	124	134	125	117	117	89	117	133	164	210	270	293	333	358	332	319	323
Monroe	56	62	73	85	105	126	112	116	123	123	130	108	135	148	179	211	274	342	305	312	345	347	355	308
Montgomery	100	110	128	129	142	147	158	153	139	124	118	137	261	290	348	332	377	374	392	396	371	337	308	362
Muscatine	390	432	501	545	608	645	620	625	623	615	618	626	1016	1105	1281	1383	1600	1739	1715	1756	1753	1734	1721	1710
O'Brien	48	59	61	69	82	86	82	80	71	65	68	75	116	148	147	171	206	218	212	211	186	175	184	202
Osceola	19	19	27	33	34	37	31	29	30	28	32	34	54	50	74	92	102	111	95	87	92	87	94	89
Page	137	145	167	179	183	208	198	202	209	208	220	212	357	366	408	455	483	554	517	543	568	573	592	573
Palo Alto	26	30	45	44	54	71	66	70	66	68	71	93	70	77	108	109	143	190	192	211	194	200	200	254
Plymouth	78	81	90	98	103	110	95	96	108	98	110	121	195	199	209	233	247	268	237	237	271	257	293	321
Pocahontas	53	48	49	48	48	62	61	73	67	60	51	69	141	126	130	125	132	174	167	193	190	148	132	203
Polk	3027	3490	3938	4458	5114	5801	5654	5681	5348	4919	4717	5288	7801	8944	10255	11616	13471	15616	15220	15308	14605	13706	12858	14794
Pottawattamie	821	921	1079	1252	1443	1640	1603	1549	1505	1393	1354	1488	2164	2419	2826	3332	3872	4453	4385	4229	4123	3860	3695	4152
Poweshiek	88	99	113	123	143	174	155	156	146	131	120	147	230	254	277	314	376	458	401	398	394	366	326	398
Ringgold	35	38	45	51	52	52	51	51	51	56	64	56	80	96	113	127	135	135	126	126	138	145	170	167
Sac	41	47	57	71	80	91	82	88	83	78	81	96	106	119	146	186	201	231	214	230	219	217	215	254
Scott	2044	2212	2578	2997	3347	3605	3475	3426	3274	3123	3071	2985	5443	5828	6837	8006	8967	9693	9445	9440	9173	8899	8640	8569
Shelby	53	60	71	84	82	76	73	69	76	75	67	83	124	147	172	212	212	196	189	185	201	200	179	232
Sioux	56	60	72	88	91	96	80	81	79	78	94	88	149	152	186	232	236	245	205	220	221	223	264	253
Story	215	253	287	354	401	401	379	377	354	335	331	296	527	632	718	888	1015	1022	956	964	915	882	861	779
Tama	78	86	107	119	130	152	169	193	178	170	171	178	195	203	282	320	346	399	441	514	487	461	448	501
Taylor	32	47	57	80	85	105	99	90	94	93	85	102	90	140	160	221	233	268	251	240	268	265	239	294
Union	86	95	126	168	185	179	189	188	188	191	207	202	200	225	324	435	488	480	499	501	509	529	578	565
Van Buren	46	46	50	47	59	72	76	72	70	71	72	86	128	136	142	129	161	195	220	199	203	213	196	247
Wapello	457	526	557	621	651	698	693	703	679	664	693	697	1135	1334	1431	1597	1663	1837	1792	1830	1778	1772	1847	2003
Warren	161	193	228	253	329	377	350	332	306	287	280	326	374	477	561	613	808	942	869	830	784	734	723	872
Washington	91	106	109	126	125	153	145	146	145	149	134	146	248	271	281	328	326	394	379	394	386	410	380	437
Wayne	65	62	70	81	80	85	91	92	76	81	81	99	172	159	171	200	211	239	259	261	216	239	232	273
Webster	393	444	518	562	625	674	682	684	681	650	633	672	996	1127	1337	1445	1630	1808	1814	1825	1830	1752	1676	1867
Winnebago	31	32	47	53	62	84	70	68	67	71	58	61	81	73	120	141	163	227	191	180	183	195	160	169
Winneshiek	46	54	64	70	78	91	79	81	86	85	84	101	121	144	156	166	192	218	198	212	235	230	229	305
Woodbury	869	925	1016	1140	1305	1538	1652	1757	1726	1665	1635	1811	2258	2368	2609	2918	3441	4155	4498	4828	4859	4739	4564	5184
Worth	11	21	29	33	47	58	63	60	54	55	51	67	27	53	69	85	132	154	168	153	146	148	140	197
Wright	50	64	80	94	118	124	121	133	123	118	117	134	122	162	199	244	306	336	315	357	337	322	316	381
State of Iowa	19898	22393	25350	28683	31967	35679	34793	34666	33515	32259	32245	34752	51131	57348	65197	73937	83448	94568	92685	92638	90931	88573	87362	97240



Table 2. Average Monthly Number of Unemployed-Parent Family Investment Program Cases and Recipients in Iowa's Counties, 1984, 1989-1999.

County	Av. Monthly No. of Unemployed-Parent Family Investment Program Cases												Avg. Mo. No. of Unemployed-Parent Family Investment Program Recipients											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	2	4	7	12	8	7	6	4	2	1	1	6	10	17	27	49	36	38	28	18	8	5	8	25
Adams	2	7	8	9	10	13	12	10	8	5	5	7	7	30	34	35	38	52	50	44	39	25	21	28
Allamakee	7	9	10	7	7	9	4	2	6	3	5	14	27	35	41	27	24	36	14	12	30	12	21	61
Appanoose	21	34	46	47	54	60	46	46	39	33	31	87	78	129	183	191	217	254	196	190	159	137	128	366
Audubon	3	1	1	2	6	7	3	4	6	3	3	3	11	5	2	9	24	32	13	18	23	12	11	12
Benton	9	12	19	25	32	35	24	17	18	10	13	42	38	50	80	112	142	144	97	75	77	44	56	185
Black Hawk	108	126	145	154	162	179	135	124	135	140	179	426	441	506	580	620	663	737	563	516	553	601	746	1768
Boone	2	5	17	25	38	51	33	23	16	13	24	43	9	28	65	102	155	207	141	105	70	54	109	184
Bremer	8	10	12	16	16	20	12	14	18	16	12	40	32	39	51	63	63	78	46	51	74	70	51	183
Buchanan	14	12	25	34	35	45	22	19	24	25	33	83	57	48	101	144	158	192	88	81	99	111	143	353
Buena Vista	6	9	6	11	11	13	10	8	8	9	10	13	22	34	24	42	42	49	39	29	33	33	39	52
Butler	4	5	7	10	15	18	13	16	14	19	21	38	14	22	26	42	68	75	46	61	56	70	80	159
Calhoun	5	5	5	9	11	13	6	9	7	7	4	15	22	24	20	37	46	55	28	36	29	32	17	66
Carroll	1	2	5	8	7	8	5	5	6	6	6	17	3	7	19	31	27	39	25	19	23	24	25	64
Cass	6	8	5	17	25	28	11	12	11	9	5	17	25	29	19	67	102	119	45	56	46	37	18	63
Cedar	5	9	12	19	16	27	20	20	19	18	20	25	21	41	50	68	58	102	76	80	82	80	85	105
Cerro Gordo	18	30	33	49	55	66	40	37	36	28	23	49	72	115	133	196	221	265	172	162	150	117	95	191
Cherokee	4	3	3	6	6	9	4	3	2	2	1	10	19	12	14	22	21	32	14	11	8	9	6	45
Chickasaw	10	12	12	12	11	14	7	7	7	7	6	26	35	46	43	41	43	55	29	27	26	27	21	119
Clarke	8	10	13	20	23	19	10	15	15	10	7	14	33	51	59	82	97	83	43	61	60	45	30	58
Clay	5	7	8	8	10	13	7	6	7	8	5	20	21	28	29	33	39	57	34	24	24	30	19	78
Clayton	5	5	8	9	9	11	5	7	7	6	9	18	20	18	30	35	38	51	22	29	28	23	39	71
Clinton	49	62	75	97	104	123	70	67	76	67	71	191	200	246	298	372	386	472	269	273	306	277	286	790
Crawford	3	7	9	18	15	19	8	9	11	11	11	7	14	30	39	81	71	85	29	37	48	45	41	29
Dallas	2	5	9	18	28	36	19	19	15	14	14	35	7	19	39	71	111	144	71	72	63	57	57	135
Davis	3	5	7	7	10	7	6	6	9	9	13	35	13	19	24	27	37	26	17	20	36	38	50	149
Decatur	9	9	13	20	21	24	10	13	11	7	8	15	37	38	48	77	83	97	36	51	43	27	29	63
Delaware	16	18	13	14	18	21	12	13	11	15	24	49	66	76	60	64	78	81	49	60	51	69	109	228
Des Moines	31	56	56	66	66	75	54	42	43	45	40	76	133	221	224	268	262	298	213	157	185	191	170	333
Dickinson	4	6	10	16	16	12	7	5	6	5	9	9	17	29	41	72	69	45	27	19	25	22	38	38
Dubuque	37	42	65	80	78	99	64	62	74	75	89	246	162	184	267	322	328	414	255	252	314	331	390	1099
Emmet	2	3	5	7	11	16	14	13	12	10	11	18	8	10	21	28	51	69	55	51	52	48	48	88
Fayette	23	25	34	39	36	38	31	28	25	25	30	50	93	101	142	159	152	164	131	117	103	104	125	227

Table 2. Average Monthly Number of Unemployed-Parent Family Investment Program Cases and Recipients in Iowa's Counties, 1984, 1989-1999 (continued).

County	Av. Monthly No. of Unemployed-Parent Family Investment Program Cases												Avg. Mo. No. of Unemployed-Parent Family Investment Program Recipients											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Floyd	13	13	23	26	44	44	26	24	21	20	18	40	49	52	93	107	183	177	104	99	85	79	76	183
Franklin	2	4	5	10	14	15	5	10	11	10	12	14	6	17	21	34	51	60	24	40	42	41	46	53
Fremont	9	13	15	18	17	14	7	7	7	3	5	12	39	53	63	77	70	58	30	29	28	12	20	51
Greene	8	4	6	12	17	16	14	11	11	7	5	21	32	19	24	49	74	64	53	44	41	28	23	87
Grundy	2	6	7	6	9	7	6	7	8	7	9	14	8	20	25	22	40	31	24	26	39	28	38	52
Guthrie	3	5	7	14	12	15	10	7	5	6	8	26	13	24	29	52	52	62	45	27	19	25	31	119
Hamilton	6	8	9	12	15	23	15	16	18	12	8	19	23	32	34	47	61	94	67	78	79	51	35	77
Hancock	2	3	2	2	3	7	3	5	8	5	2	7	8	10	8	7	12	30	12	20	32	22	11	26
Hardin	7	8	12	21	23	30	11	11	12	8	10	17	27	32	46	73	84	125	48	46	51	35	43	77
Harrison	5	4	10	18	18	28	17	13	16	14	8	25	20	15	38	74	73	123	73	54	69	60	30	113
Henry	6	11	13	21	24	33	20	18	19	18	13	32	27	41	48	79	95	134	80	72	79	71	58	133
Howard	3	2	1	2	3	7	6	6	8	7	4	17	11	7	4	10	13	32	26	25	33	27	14	70
Humboldt	5	4	8	6	8	7	6	7	7	11	6	10	19	17	32	18	30	30	22	29	30	50	24	39
Ida	1	2	2	3	3	3	0	0	1	0	0	2	5	10	10	11	11	12	2	0	2	1	0	7
Iowa	3	3	1	6	6	9	6	5	5	4	2	10	13	11	3	27	25	36	19	21	22	17	10	41
Jackson	10	10	20	23	28	41	32	27	32	28	39	89	42	40	81	93	114	164	135	113	136	122	170	379
Jasper	20	23	23	28	37	44	23	17	15	22	19	59	76	89	91	105	145	170	91	66	57	92	76	228
Jefferson	11	17	24	28	42	48	33	28	23	22	19	35	47	72	99	105	159	192	136	112	92	91	79	148
Johnson	29	38	45	56	50	46	25	19	17	17	13	18	122	153	177	210	197	173	96	73	73	72	49	73
Jones	11	14	15	18	23	24	16	16	14	12	12	32	46	55	64	73	98	98	60	62	57	52	48	135
Keokuk	8	10	14	18	21	19	15	17	19	19	17	24	37	43	60	74	82	81	65	77	83	81	71	104
Kossuth	6	10	9	15	16	18	13	12	10	12	10	14	25	41	35	58	67	84	53	50	49	54	46	56
Lee	51	48	55	61	75	101	61	51	53	45	46	117	198	182	212	242	295	398	249	212	209	180	186	481
Linn	72	120	136	142	173	200	126	130	140	114	109	303	314	518	577	587	704	832	523	550	586	497	455	1254
Louisa	6	14	19	23	22	27	16	17	20	17	18	44	29	59	79	97	88	111	68	67	81	69	76	185
Lucas	8	14	21	24	23	30	12	12	12	13	14	31	31	57	85	92	92	119	51	51	51	50	53	136
Lyon	1	2	3	4	4	1	1	1	0	0	2	8	2	5	9	13	17	5	4	2	0	0	7	37
Madison	3	2	5	8	12	11	6	9	5	4	7	20	14	10	18	31	50	47	25	35	23	17	30	81
Mahaska	11	26	35	33	24	30	26	36	33	31	20	42	50	106	133	129	85	115	101	142	133	128	81	160
Marion	12	11	17	29	41	43	30	25	26	22	22	49	45	42	71	110	168	171	120	95	98	80	87	197
Marshall	23	27	35	42	54	58	45	42	35	32	25	66	102	107	141	159	205	229	175	162	141	135	105	272
Mills	13	7	15	27	25	22	10	13	10	12	8	10	54	29	58	103	98	89	41	56	42	47	32	48
Mitchell	2	2	3	4	4	4	4	2	3	2	2	9	5	10	13	17	16	11	15	8	10	9	11	39

Table 2. Average Monthly Number of Unemployed-Parent Family Investment Program Cases and Recipients in Iowa's Counties, 1984, 1989-1999 (continued).

County	Av. Monthly No. of Unemployed-Parent Family Investment Program Cases												Avg. Mo. No. of Unemployed-Parent Family Investment Program Recipients											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Monona	1	4	7	9	6	12	9	12	16	11	11	27	7	16	26	34	26	52	40	49	64	46	47	122
Monroe	6	6	10	15	20	18	15	12	11	10	15	25	21	22	41	61	81	76	60	49	43	38	58	103
Montgomery	11	15	20	21	21	27	15	11	8	7	6	10	47	58	82	84	82	106	62	39	28	28	23	42
Muscatine	33	51	86	95	103	109	75	66	73	79	77	94	131	210	348	377	422	472	320	280	318	344	323	406
O'Brien	5	5	7	10	14	10	7	10	3	1	1	12	20	19	33	40	60	42	29	40	13	5	7	47
Osceola	1	1	2	4	3	3	2	1	2	2	2	7	6	4	8	18	13	13	10	6	8	9	6	31
Page	23	31	30	36	32	42	31	26	24	16	21	30	91	131	120	140	124	167	120	100	89	64	86	132
Palo Alto	2	2	5	7	10	10	7	4	4	5	4	18	7	8	24	28	45	39	25	17	20	24	18	77
Plymouth	4	7	8	9	9	9	4	4	3	3	6	11	16	26	30	34	36	35	15	16	13	14	26	46
Pocahontas	2	3	7	9	11	7	8	5	4	8	5	11	9	14	30	32	43	29	31	18	17	34	25	46
Polk	167	206	279	316	332	332	150	162	158	137	135	285	745	869	1169	1292	1379	1419	657	696	678	619	598	1225
Pottawattamie	51	72	89	103	115	137	84	81	68	45	35	68	211	286	367	397	461	540	341	330	285	206	150	276
Poweshiek	9	12	14	21	20	15	10	16	12	8	8	28	35	43	53	79	79	62	44	69	51	34	35	121
Ringgold	6	6	6	12	15	16	8	7	6	4	7	14	21	21	23	47	59	67	35	29	27	19	30	52
Sac	2	8	10	12	12	16	8	7	5	4	5	10	8	30	43	48	52	63	35	31	23	15	21	45
Scott	143	141	183	229	274	283	187	156	165	181	196	364	607	579	755	950	1122	1204	795	666	717	813	845	1569
Shelby	7	5	4	7	13	15	7	8	6	8	4	9	26	20	15	24	49	56	23	32	27	34	13	38
Sioux	8	7	6	10	11	5	2	5	4	4	3	5	35	31	21	38	42	20	8	22	15	17	20	19
Story	31	31	55	66	70	76	31	28	29	15	11	25	109	118	222	256	273	302	124	107	113	60	45	96
Tama	4	4	9	12	13	17	12	12	15	9	6	26	13	15	34	50	50	69	45	49	62	38	27	109
Taylor	7	11	13	14	10	11	5	4	7	9	10	15	27	45	53	63	46	49	21	18	29	40	36	56
Union	11	15	19	24	22	26	15	16	17	11	13	29	45	62	81	100	91	108	62	63	68	45	56	126
Van Buren	4	6	10	11	7	9	8	6	7	8	9	23	20	27	45	50	36	35	32	24	29	38	40	104
Wapello	57	74	99	95	103	112	82	88	94	78	83	117	242	292	396	387	410	433	326	358	377	315	334	486
Warren	5	12	11	16	21	22	12	17	17	19	18	58	22	51	45	68	92	90	51	74	74	82	75	228
Washington	13	17	15	17	19	20	11	6	10	10	10	16	54	70	54	66	77	80	44	27	49	39	40	61
Wayne	7	8	13	17	13	14	9	8	6	8	10	23	30	33	57	71	62	59	35	33	26	32	41	93
Webster	26	26	43	58	73	86	63	52	52	47	46	94	105	101	173	238	311	363	267	219	226	216	190	377
Winnebago	2	3	7	7	7	7	5	5	4	5	5	6	6	9	25	28	27	28	18	17	16	18	18	22
Winneshiek	7	7	10	11	13	16	14	13	7	10	11	25	31	26	39	44	53	61	55	51	27	42	47	94
Woodbury	45	47	66	64	64	79	50	55	60	47	37	102	199	204	294	265	268	346	211	238	266	213	155	439
Worth	0	2	3	6	8	7	8	5	6	7	6	13	1	11	11	23	27	26	29	19	23	30	27	51
Wright	3	7	11	14	11	16	9	10	13	7	3	14	11	33	48	56	44	73	38	40	58	30	13	57
State of Iowa	1502	1898	2469	3000	3336	3741	2334	2222	2244	2033	2072	4587	6260	7747	10073	12055	13539	15382	9595	9181	9371	8724	8705	19350

Table 3. Total Annual Regular and Unemployed-Parent Family Investment Program Payments (in \$1,000s) in Iowa's Counties, 1984, 1989-1999.

County	Total Annual Regular FIP Payments (in \$1,000s)												Total Annual Unemployed-Parent FIP Payments (in \$1,000s)											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	112	149	191	205	213	205	242	249	230	206	164	259	11	16	34	57	40	37	33	20	9	6	6	27
Adams	77	113	134	190	190	234	201	215	193	169	183	125	6	31	39	40	47	61	59	53	45	33	28	32
Allamakee	142	192	267	321	374	369	367	357	268	313	338	417	34	36	41	31	30	43	16	13	37	16	28	65
Appanoose	771	827	978	1039	1110	1145	1191	1289	1352	1333	1379	1325	83	130	205	211	236	283	239	241	206	169	153	415
Audubon	90	120	107	124	143	164	155	171	188	158	148	144	14	6	2	10	24	31	16	20	24	15	15	12
Benton	378	520	591	606	721	909	935	983	974	1016	856	835	35	50	77	103	136	157	117	85	90	53	60	209
Black Hawk	6235	7047	7998	9085	9997	11098	11040	11091	11232	11210	11503	11447	463	539	642	667	731	840	692	627	702	732	913	1992
Boone	421	494	631	767	911	1074	1137	1106	1011	900	971	1036	9	25	62	117	178	239	178	136	86	67	136	217
Bremer	278	301	348	450	552	662	615	521	555	523	514	699	34	42	48	65	65	83	54	68	90	89	62	189
Buchanan	424	556	590	705	796	915	991	1048	1097	1035	1052	1055	61	39	97	153	171	196	107	101	120	140	167	397
Buena Vista	460	440	492	499	577	627	652	664	575	540	523	595	22	34	23	46	48	57	50	37	44	42	46	60
Butler	226	267	320	371	431	466	439	532	600	540	500	458	20	26	25	38	73	85	61	81	69	95	102	178
Calhoun	172	168	188	254	290	376	372	391	389	358	416	367	21	18	14	33	39	51	32	47	37	39	19	71
Carroll	287	293	335	411	498	528	541	516	522	505	511	415	4	8	21	34	32	39	27	23	31	26	27	73
Cass	298	321	414	509	631	738	747	646	619	600	569	541	27	30	14	66	98	106	44	64	57	45	19	76
Cedar	306	306	356	398	469	545	508	524	525	528	501	430	20	37	51	73	58	89	93	104	107	100	106	123
Cerro Gordo	959	1166	1350	1692	1944	2311	2376	2415	2371	2361	2250	2055	68	114	141	193	215	300	209	196	191	142	117	232
Cherokee	190	193	247	321	382	454	385	382	420	360	364	395	17	14	14	26	26	39	19	15	11	11	7	41
Chickasaw	194	162	236	250	311	376	341	313	317	336	372	385	44	56	47	46	43	61	34	32	31	33	22	127
Clarke	242	293	364	456	536	565	483	459	410	446	399	394	38	51	63	93	118	102	54	74	74	49	38	69
Clay	330	350	366	415	507	584	640	684	704	653	711	738	18	22	24	36	45	62	40	31	32	41	28	91
Clayton	163	155	192	223	287	367	402	471	493	463	508	555	23	21	35	37	36	56	26	39	39	30	49	80
Clinton	2035	2154	2488	2846	3325	3765	4001	3858	3820	3704	3521	2966	197	242	315	406	416	522	339	350	396	333	349	898
Crawford	423	458	531	647	778	811	754	723	741	702	692	579	11	31	37	100	72	87	42	51	66	54	53	35
Dallas	454	595	683	856	1121	1265	1319	1331	1232	1212	1245	1314	8	22	43	70	122	166	98	98	86	77	72	163
Davis	144	191	241	242	342	391	404	385	375	429	435	390	14	24	31	33	41	29	23	28	48	49	64	169
Decatur	224	307	359	417	416	502	525	536	499	438	411	390	43	44	50	85	91	105	44	66	57	36	39	70
Delaware	314	299	355	433	444	472	524	529	533	586	620	665	74	72	64	70	77	85	58	71	56	80	115	242
Des Moines	1899	2269	2390	2496	2738	3110	3244	3155	3091	3017	2806	2743	137	228	244	271	295	342	262	195	222	233	201	379
Dickinson	221	258	276	300	362	386	314	339	390	397	452	449	16	23	41	74	67	57	35	25	31	24	40	37
Dubuque	1995	2168	2167	2272	2457	3123	3270	3304	3286	3403	3537	4067	146	163	254	308	314	427	296	296	376	396	463	1169
Emmet	184	207	221	252	306	420	441	440	461	499	499	497	10	15	19	25	45	73	65	62	60	55	59	96
Fayette	599	659	773	908	901	1077	1154	1092	1051	897	852	839	108	116	152	166	158	177	163	150	136	123	157	244

Table 3. Total Annual Regular and Unemployed-Parent Family Investment Program Payments (in \$1,000s) in Iowa's Counties, 1984, 1989-1999 (continued).

County	Total Annual Regular FIP Payments (in \$1,000s)												Total Annual Unemployed-Parent FIP Payments (in \$1,000s)											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Floyd	485	529	542	623	739	900	842	820	848	861	862	796	48	56	90	116	201	195	127	125	106	105	88	184
Franklin	142	187	245	265	319	378	344	370	353	347	396	320	7	18	22	34	52	57	25	47	53	48	56	59
Fremont	218	252	294	357	442	506	470	399	373	359	389	341	39	48	62	70	60	50	35	34	34	14	24	56
Greene	225	251	269	327	404	442	391	351	350	352	341	356	29	15	25	57	81	69	68	51	54	32	29	98
Grundy	120	139	167	211	223	234	292	309	306	289	245	255	10	22	31	26	45	35	29	29	44	38	49	58
Guthrie	151	185	202	284	359	463	490	495	452	403	426	394	17	25	28	56	61	66	52	34	25	31	40	126
Hamilton	254	284	320	367	447	603	622	577	572	484	492	557	29	33	40	46	58	100	80	90	94	61	40	83
Hancock	131	178	204	245	269	371	377	377	323	334	339	308	11	12	9	8	12	32	14	23	38	29	11	28
Hardin	332	378	505	562	695	878	864	799	717	691	656	671	32	34	54	87	105	135	63	58	60	40	50	84
Harrison	306	412	495	532	601	667	700	734	684	649	636	703	22	19	42	73	69	112	79	66	77	75	38	120
Henry	357	449	546	615	728	858	852	781	714	684	678	670	32	43	43	78	97	141	94	82	91	89	64	156
Howard	117	114	143	144	176	228	244	279	230	241	283	307	13	9	3	10	15	34	30	29	39	38	18	72
Humboldt	164	168	201	232	245	285	325	310	286	281	306	279	20	17	30	19	31	30	28	39	40	60	26	44
Ida	97	116	134	144	169	154	167	186	171	115	141	136	5	6	9	11	9	9	1	0	3	1	0	7
Iowa	170	176	207	260	260	328	298	279	280	298	257	232	16	12	3	25	27	36	25	26	26	21	12	49
Jackson	418	438	552	623	734	923	885	871	958	953	904	994	37	33	87	105	120	181	167	132	168	155	202	419
Jasper	610	697	773	950	1119	1238	1396	1328	1297	1211	1211	1520	77	106	94	113	161	197	112	85	77	109	96	268
Jefferson	457	505	577	599	673	788	754	748	789	733	683	606	51	81	100	114	162	214	169	141	119	113	99	161
Johnson	1582	1612	1919	2122	2264	2463	2353	2126	1996	1956	1899	1778	133	164	182	235	221	195	118	94	90	85	58	84
Jones	313	369	448	524	620	654	658	616	604	617	679	756	52	58	67	77	103	94	74	76	68	66	58	160
Keokuk	299	376	442	464	468	561	623	589	654	600	612	388	35	38	57	77	96	87	73	86	95	104	89	120
Kossuth	204	276	302	333	412	507	503	497	499	481	406	348	25	42	38	53	60	74	52	60	52	58	52	57
Lee	1765	1942	2192	2276	2362	2918	2984	3066	3137	2943	2728	2700	227	195	224	248	277	420	314	267	271	227	227	544
Linn	4809	5347	5967	6690	7253	8577	8724	8803	8763	8391	8190	9156	335	526	580	613	717	870	622	649	712	597	552	1494
Louisia	366	420	502	545	674	750	744	750	684	621	568	619	24	56	88	100	109	134	86	82	107	91	91	212
Lucas	335	422	494	559	614	600	538	568	571	538	501	573	38	66	99	112	110	135	59	63	57	60	62	154
Lyon	134	132	144	200	210	221	218	184	162	181	186	192	2	7	13	14	16	6	5	3	0	0	8	37
Madison	162	145	178	234	312	396	404	403	451	428	452	351	10	11	21	32	51	45	32	46	26	19	37	94
Mahaska	673	789	867	914	1021	1168	1154	1199	1209	1176	1159	1100	51	117	154	137	92	124	130	191	178	163	107	193
Marion	506	528	555	721	931	1155	1184	1128	1040	1016	992	1099	52	39	68	116	192	192	156	125	130	106	113	234
Marshall	1357	1501	1673	1786	1950	2370	2421	2400	2159	2034	1967	1806	98	107	166	173	222	237	221	211	173	174	133	323
Mills	405	463	576	651	736	804	689	628	576	580	566	530	62	32	56	98	98	91	45	69	49	61	37	50
Mitchell	90	104	136	149	169	236	241	259	247	196	222	210	7	11	11	17	18	16	20	10	15	10	15	43

Table 3. Total Annual Regular and Unemployed-Parent Family Investment Program Payments (in \$1,000s) in Iowa's Counties, 1984, 1989-1999 (continued).

County	Total Annual Regular FIP Payments (in \$1,000s)												Total Annual Unemployed-Parent FIP Payments (in \$1,000s)											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Monona	125	171	197	232	306	420	467	537	582	537	474	441	9	16	29	44	32	55	53	60	79	58	57	128
Monroe	210	223	268	320	413	523	491	502	559	542	542	422	26	23	38	59	86	83	76	62	53	47	72	119
Montgomery	384	447	542	510	559	591	661	665	628	552	482	511	43	62	82	84	81	103	70	55	40	35	31	48
Muscatine	1539	1735	2049	2253	2548	2798	2795	2841	2840	2791	2678	2471	138	197	373	435	451	506	379	349	393	432	395	468
O'Brien	175	218	228	248	306	327	335	334	301	276	287	279	19	20	29	41	58	38	30	44	16	7	7	55
Osceola	73	64	106	132	139	163	146	140	141	125	134	129	4	4	9	18	12	16	12	8	11	12	6	31
Page	534	548	618	670	716	837	825	868	913	890	915	798	102	133	114	141	133	167	147	116	118	73	105	129
Palo Alto	98	116	162	159	211	292	297	317	299	314	300	341	4	5	21	25	40	38	34	22	24	26	22	87
Plymouth	291	296	312	342	377	414	401	395	451	408	462	462	20	24	27	38	32	35	17	21	18	14	33	50
Pocahontas	199	180	198	189	189	258	267	317	303	241	200	266	9	16	35	36	53	30	38	22	22	39	29	53
Polk	11934	13833	15827	17992	21317	25235	25424	25712	24517	22482	20561	20915	735	874	1249	1405	1513	1578	818	877	883	778	730	1362
Pottawattamie	3312	3700	4343	5066	5939	6924	7026	6840	6686	6181	5776	5798	216	312	393	431	475	576	413	412	359	249	178	294
Poweshiek	336	396	434	482	564	725	670	661	642	586	498	576	36	50	66	93	94	69	56	87	63	39	34	139
Ringgold	131	149	166	195	198	211	209	220	232	240	273	229	20	24	21	48	58	80	48	40	37	25	35	64
Sac	161	165	202	272	301	364	349	371	354	339	330	361	10	29	45	39	47	62	41	37	28	20	26	45
Scott	8012	8509	10205	12130	13947	15617	15634	15564	15068	14370	13684	12039	644	616	760	961	1219	1330	982	823	915	1009	1037	1760
Shelby	192	209	258	318	329	314	300	299	324	310	273	309	32	24	18	28	54	67	28	39	34	43	16	43
Sioux	218	228	270	346	341	363	342	355	350	333	399	340	37	37	22	42	52	25	10	27	22	21	16	20
Story	868	1005	1121	1413	1654	1706	1639	1652	1575	1496	1464	1181	127	113	218	265	290	309	150	140	144	74	63	119
Tama	288	325	420	480	515	621	716	838	783	740	701	682	12	13	34	54	53	70	54	61	75	49	34	122
Taylor	137	194	228	300	315	418	417	385	425	411	365	417	27	46	49	57	44	53	22	23	37	43	44	73
Union	309	357	497	680	763	762	831	831	833	824	921	821	41	61	81	99	80	101	71	81	91	57	65	154
Van Buren	193	193	203	184	245	312	354	326	327	334	311	350	19	30	49	52	38	34	41	33	38	48	47	117
Wapello	1770	2071	2257	2496	2613	2940	3001	3082	3005	2880	2947	2739	257	334	446	435	440	493	405	437	475	402	416	557
Warren	582	701	822	895	1266	1511	1499	1425	1320	1229	1198	1234	20	47	46	67	88	87	60	95	89	100	94	269
Washington	345	389	410	484	465	614	610	639	622	627	569	584	48	67	62	67	78	72	52	34	58	52	50	73
Wayne	262	249	265	327	320	350	402	400	337	377	345	379	28	38	60	74	61	65	40	40	30	37	54	106
Webster	1512	1670	2047	2182	2513	2827	2967	2992	2989	2823	2608	2545	108	95	170	218	323	400	318	266	262	259	224	415
Winnebago	128	110	180	207	237	346	307	295	288	309	242	230	8	12	32	28	30	33	27	25	18	21	21	24
Winneshiek	183	216	240	279	303	359	313	333	370	371	355	384	35	28	36	46	45	57	63	62	35	50	57	99
Woodbury	3397	3558	3997	4505	5273	6452	7243	7785	7796	7452	7089	7188	201	219	307	299	283	350	259	293	324	253	183	505
Worth	40	82	102	120	187	247	282	264	231	239	207	268	1	9	10	23	27	27	39	26	25	36	26	63
Wright	196	236	292	358	468	514	469	562	551	519	495	522	14	31	45	55	46	69	48	47	70	41	15	65
State of Iowa	77134	86428	99416	113236	129496	150015	152185	149622	143031	138255	136831	6528	7988	10543	12742	14349	16580	11733	11388	11721	10763	10562	21806	

Table 4. Average and Adjusted (in 1999 \$s) Monthly Regular Family Investment Program Payments Per Person in Iowa's Counties, 1984, 1989-1999.

County	Average Regular FIP Payments Per Person												Adjusted (in 1999 \$s) Regular FIP Payments Per Person										
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	127	125	123	121	129	126	134	131	132	129	133	107	128	127	128	141	141	154	155	160	163	177	169
Adams	129	125	118	115	115	122	131	125	132	123	129	113	128	122	122	125	137	151	148	160	156	172	179
Allamakee	126	118	122	132	132	130	133	133	125	128	128	115	121	126	140	144	146	153	157	152	162	170	182
Appanoose	129	127	132	130	134	139	140	137	138	139	136	112	130	137	138	146	156	161	162	168	176	181	177
Audubon	127	123	124	123	130	121	126	124	126	122	123	113	126	128	130	142	136	145	147	153	154	164	179
Benton	131	130	128	129	128	132	136	136	136	132	132	119	133	133	137	140	148	156	161	165	167	176	188
Black Hawk	123	126	128	130	131	132	136	136	136	133	131	120	129	133	138	143	148	156	161	165	168	174	190
Boone	133	127	127	128	128	136	140	141	143	140	141	119	130	132	136	140	152	161	167	174	177	188	188
Bremer	130	129	130	122	125	129	135	138	138	138	133	117	132	135	129	136	145	155	163	168	175	177	185
Buchanan	126	125	126	127	126	126	133	135	135	136	133	114	128	131	134	137	141	153	160	164	172	177	180
Buena Vista	125	120	129	126	128	133	136	137	136	137	134	116	123	134	133	140	149	156	162	165	173	178	183
Butler	126	117	116	122	126	131	134	132	133	134	129	116	120	120	129	137	147	154	156	162	169	172	183
Calhoun	133	124	118	122	121	127	137	136	136	128	124	115	127	122	129	132	142	157	161	165	162	165	182
Carroll	128	122	118	122	129	129	133	133	133	133	132	114	125	122	129	141	145	153	157	162	168	176	180
Cass	129	122	121	122	126	126	128	132	139	134	129	119	125	125	129	137	141	147	156	169	169	172	188
Cedar	129	127	126	129	132	131	137	139	137	131	132	129	130	131	137	144	147	157	164	167	166	176	204
Cerro Gordo	126	127	127	130	133	135	140	139	139	136	132	119	130	132	138	145	151	161	164	169	172	176	188
Cherokee	121	130	125	127	128	132	134	127	128	130	128	111	133	130	134	140	148	154	150	156	164	170	175
Chickasaw	134	128	128	123	126	131	137	135	136	131	133	119	131	133	130	137	147	157	160	165	166	177	188
Clarke	124	125	125	126	130	132	133	130	137	132	126	117	128	130	133	142	148	153	154	167	167	168	185
Clay	121	126	126	127	134	134	140	135	140	134	134	118	129	131	134	146	150	161	160	170	169	178	187
Clayton	126	114	123	131	125	131	138	137	134	127	129	114	117	127	139	136	147	159	162	163	161	172	180
Clinton	122	123	129	131	132	137	141	142	140	139	134	120	126	134	139	144	154	162	168	170	176	178	190
Crawford	126	121	129	130	132	131	135	132	134	133	132	118	124	134	138	144	147	155	156	163	168	176	187
Dallas	124	129	133	134	133	138	144	142	139	136	134	116	132	138	142	145	155	165	168	169	172	178	183
Davis	130	132	128	125	131	129	138	135	140	132	134	111	135	133	132	143	145	159	160	170	167	178	175
Decatur	141	126	121	117	120	128	136	140	141	138	133	118	129	125	124	131	143	156	165	171	175	177	187
Delaware	131	120	125	125	122	121	126	130	129	127	125	110	123	130	132	133	136	145	154	157	161	166	174
Des Moines	123	124	127	129	130	134	137	138	137	133	130	117	127	132	137	142	150	157	163	167	168	173	185
Dickinson	125	129	134	134	135	135	133	141	140	140	131	115	132	139	142	147	151	153	167	170	177	174	182
Dubuque	123	122	122	123	127	131	136	136	136	136	136	117	125	126	130	138	147	156	161	165	172	181	185
Emmet	132	129	125	118	122	136	135	134	128	130	126	112	132	130	125	133	152	155	158	156	164	168	177
Fayette	123	125	127	129	131	130	134	134	134	130	129	113	128	132	137	143	146	154	158	163	164	172	179

Table 4. Average and Adjusted (in 1999 \$s) Monthly Regular Family Investment Program Payments Per Person in Iowa's Counties, 1984, 1989-1999 (continued).

County	Average Regular FIP Payments Per Person												Adjusted (in 1999 \$s) Regular FIP Payments Per Person											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	
Floyd	127	124	124	126	130	129	135	136	137	135	130	115	127	128	133	142	145	155	161	167	171	173	182	
Franklin	116	118	127	121	120	127	133	139	139	133	132	120	121	132	128	131	142	153	164	169	168	176	190	
Fremont	120	116	119	120	124	124	132	130	132	129	128	113	119	123	127	135	139	152	154	160	163	170	179	
Greene	129	126	122	130	131	130	131	134	136	133	131	116	129	126	138	143	146	151	158	165	168	174	183	
Grundy	122	127	123	129	137	134	135	139	141	138	133	116	130	127	137	149	150	155	164	171	175	177	183	
Guthrie	116	123	121	121	128	126	133	134	134	129	128	112	126	125	128	140	141	153	158	163	163	170	177	
Hamilton	127	127	124	131	136	136	138	140	140	135	127	113	130	128	139	148	152	159	165	170	171	169	179	
Hancock	131	124	129	118	120	127	134	134	135	138	136	116	127	134	125	131	142	154	158	164	175	181	183	
Hardin	123	123	128	125	130	130	137	139	140	142	138	125	126	133	132	142	146	157	164	170	180	184	198	
Harrison	126	121	122	126	126	125	129	131	128	132	124	113	124	126	133	137	140	148	155	156	167	165	179	
Henry	131	125	123	126	126	127	134	136	134	132	127	119	128	127	133	137	142	154	161	163	167	169	188	
Howard	115	115	106	117	120	121	132	131	134	130	131	116	118	110	124	131	136	152	155	163	164	174	183	
Humboldt	125	119	134	121	116	113	126	130	136	138	129	117	122	139	128	126	127	145	154	165	175	172	185	
Ida	107	106	110	118	128	127	135	130	126	128	123	117	108	114	125	140	142	155	154	153	162	164	185	
Iowa	123	115	128	119	120	120	132	142	141	138	135	119	118	133	126	131	134	152	168	171	175	180	188	
Jackson	123	123	125	127	129	134	138	140	139	138	134	117	126	130	134	141	150	159	165	169	175	178	185	
Jasper	132	129	127	127	131	135	141	138	138	137	131	116	132	132	134	143	151	162	163	168	173	174	183	
Jefferson	127	128	132	131	130	133	137	143	141	136	136	117	131	137	139	142	149	157	169	171	172	181	185	
Johnson	125	127	130	130	132	132	137	140	150	137	139	125	130	135	138	144	148	157	165	182	173	185	198	
Jones	123	119	126	129	130	129	133	136	137	132	130	121	122	131	137	142	145	153	161	167	167	173	191	
Keokuk	120	122	123	125	129	130	135	142	140	132	126	108	125	127	132	141	146	155	168	170	167	168	171	
Kossuth	126	120	125	120	123	128	133	131	137	134	132	105	123	130	127	134	143	153	155	167	169	176	166	
Lee	129	129	131	126	126	130	134	135	135	134	130	115	132	136	133	137	146	154	160	164	169	173	182	
Linn	127	126	127	129	128	132	137	139	139	136	135	121	129	132	137	140	148	157	164	169	172	180	191	
Louisa	124	128	128	122	130	133	134	135	134	134	130	113	131	133	129	142	149	154	160	163	169	173	179	
Lucas	127	130	133	132	131	134	137	140	138	140	132	109	133	138	140	143	150	157	165	168	177	176	172	
Lyon	128	125	127	121	128	127	127	119	121	115	123	109	128	132	128	140	142	146	141	147	145	164	172	
Madison	133	115	131	131	127	126	138	141	140	136	131	114	118	136	139	138	141	159	167	170	172	174	180	
Mahaska	124	127	130	129	134	137	141	144	138	136	135	118	130	135	137	146	154	162	170	168	172	180	187	
Marion	124	121	116	119	123	132	136	136	138	137	133	119	124	120	126	134	148	156	161	168	173	177	188	
Marshall	126	125	128	127	129	130	136	139	137	137	134	121	128	133	134	141	146	156	164	167	173	178	191	
Mills	125	126	123	123	126	124	133	134	133	131	127	112	129	127	130	137	139	153	158	162	166	169	177	
Mitchell	132	129	126	126	137	135	139	141	135	138	139	125	132	131	133	149	151	160	167	164	175	185	198	



Table 4. Average and Adjusted (in 1999 \$s) Monthly Regular Family Investment Program Payments Per Person in Iowa's Counties, 1984, 1989-1999 (continued).

County	Average Regular FIP Payments Per Person												Adjusted (in 1999 \$s) Regular FIP Payments Per Person											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	
Monona	117	122	123	118	122	130	133	134	136	135	124	114	125	127	125	133	146	153	158	165	171	165	180	
Monroe	129	126	125	126	125	127	134	134	135	130	127	114	129	130	133	136	142	154	158	164	164	169	180	
Montgomery	122	129	130	128	124	132	141	140	141	137	131	118	132	135	136	135	148	162	165	171	173	174	187	
Muscatine	126	131	133	136	133	134	136	135	135	134	130	120	134	138	144	145	150	156	160	164	169	173	190	
O'Brien	125	123	129	121	124	125	132	132	135	132	130	115	126	134	128	135	140	152	156	164	167	173	182	
Osceola	113	106	119	120	114	122	128	134	127	120	119	121	108	123	127	124	137	147	158	154	152	158	191	
Page	125	125	126	123	123	126	133	133	134	129	129	116	128	131	130	134	141	153	157	163	163	172	183	
Palo Alto	117	126	125	122	123	128	129	125	128	131	125	112	129	130	129	134	143	148	148	156	166	166	177	
Plymouth	124	124	125	122	127	129	141	139	139	132	131	120	127	130	129	138	145	162	164	169	167	174	190	
Pocahontas	117	119	127	126	119	124	133	137	133	136	126	109	122	132	133	130	139	153	162	162	172	168	172	
Polk	127	129	129	129	132	135	139	140	140	137	133	118	132	134	137	144	151	160	165	170	173	177	187	
Pottawattamie	128	127	128	127	128	130	134	135	135	133	130	116	130	133	134	140	146	154	160	164	168	173	183	
Poweshiek	122	130	131	128	125	132	139	138	136	134	127	121	133	136	136	136	148	160	163	165	169	169	191	
Ringgold	136	130	122	128	122	130	139	146	140	138	134	114	133	126	136	133	146	160	173	170	175	178	180	
Sac	127	116	115	122	125	131	136	134	135	130	128	118	119	119	129	136	147	156	158	164	164	170	187	
Scott	123	122	124	126	130	134	138	137	137	135	132	117	125	128	133	142	150	159	162	167	171	176	185	
Shelby	129	118	125	125	129	134	132	135	134	129	127	111	121	130	132	141	150	152	160	163	163	169	175	
Sioux	122	125	121	124	120	123	139	135	132	124	126	112	128	125	131	131	138	160	160	160	157	168	177	
Story	137	133	130	133	136	139	143	143	143	141	142	126	136	135	141	148	156	164	169	174	178	189	199	
Tama	123	133	124	125	124	130	135	136	134	134	130	113	136	128	132	135	146	155	161	163	169	173	179	
Taylor	127	116	119	113	113	130	139	134	132	129	127	118	119	123	120	123	146	160	158	160	163	169	187	
Union	129	132	128	130	130	132	139	138	136	130	133	121	135	133	138	142	148	160	163	165	164	177	191	
Van Buren	126	118	119	119	127	133	134	137	134	131	132	118	121	123	126	138	149	154	162	163	166	176	187	
Wapello	130	129	131	130	131	133	140	140	141	135	133	114	132	136	138	143	149	161	165	171	171	177	180	
Warren	130	122	122	122	131	134	144	143	140	139	138	118	125	126	129	143	150	165	169	170	176	184	187	
Washington	116	120	121	123	119	130	134	135	134	127	125	111	123	125	130	130	146	154	160	163	161	166	175	
Wayne	127	130	129	136	126	122	129	128	130	132	124	116	133	134	144	137	137	148	151	158	167	165	183	
Webster	127	124	128	126	128	130	136	137	136	134	130	114	127	133	133	140	146	156	162	165	169	173	180	
Winnebago	132	126	125	122	121	127	134	137	131	132	126	114	129	130	129	132	142	154	162	159	167	168	180	
Winneshiek	126	125	128	140	132	137	132	131	131	134	129	105	128	133	148	144	154	152	155	159	169	172	166	
Woodbury	125	125	128	129	128	129	134	134	134	131	129	116	128	133	137	140	145	154	158	163	166	172	183	
Worth	123	129	123	118	118	134	140	144	132	134	123	113	132	127	125	129	150	161	170	160	169	164	179	
Wright	134	122	122	122	127	127	124	131	136	134	130	114	125	126	129	138	142	142	155	165	169	173	180	
State of Iowa	126	126	127	128	129	132	137	137	137	135	132	117	129	132	136	141	148	157	162	167	171	176	185	

Table 5. Average and Adjusted (in 1999 \$s) Monthly Unemployed-Parent Family Investment Program Payments Per Person in Iowa's Counties, 1984, 1989-1999.

County	Average Unemployed-Parent FIP Payments Per Person												Adj. (in 1999 \$s) Avg. Unemployed-Parent FIP Payments Per Person											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	
Adair	94	79	104	96	92	82	99	91	92	103	66	90	81	108	102	100	92	114	108	112	130	88	142	
Adams	69	85	96	96	104	98	99	100	97	111	111	94	87	99	102	113	110	114	118	118	140	148	149	
Allamakee	105	85	83	95	105	99	97	88	102	111	112	88	87	86	101	114	111	111	104	124	140	149	139	
Appanoose	89	84	93	92	91	93	102	106	108	103	99	94	86	96	97	99	104	117	125	131	130	132	149	
Audubon	103	101	92	96	84	80	105	93	88	103	115	86	103	95	102	92	90	121	110	107	130	153	136	
Benton	77	83	80	77	80	91	101	94	97	101	90	94	85	83	82	87	102	116	111	118	128	120	149	
Black Hawk	87	89	92	90	92	95	102	101	106	102	102	94	91	95	95	100	106	117	119	129	129	136	149	
Boone	81	73	80	96	96	96	105	108	102	104	104	98	75	83	102	105	108	121	128	124	132	138	155	
Bremer	89	90	79	86	86	88	97	111	101	106	102	86	92	82	91	94	99	111	131	123	134	136	136	
Buchanan	89	69	80	88	90	85	101	104	101	105	98	94	71	83	93	98	95	116	123	123	133	130	149	
Buena Vista	83	84	79	92	95	97	107	107	112	107	98	96	86	82	97	104	109	123	126	136	135	130	152	
Butler	117	98	81	76	90	95	110	111	102	113	106	93	100	84	80	98	106	126	131	124	143	141	147	
Calhoun	79	61	59	74	71	77	94	109	107	101	95	89	62	61	78	77	86	108	129	130	128	126	141	
Carroll	116	98	94	92	98	84	89	99	114	92	89	95	100	97	97	107	94	102	117	139	116	118	150	
Cass	89	86	63	82	80	74	82	96	103	101	88	101	88	65	87	87	83	94	113	125	128	117	160	
Cedar	77	75	85	89	83	73	102	109	109	104	104	97	77	88	94	90	82	117	129	133	132	138	153	
Cerro Gordo	79	82	88	82	81	94	101	101	106	101	103	101	84	91	87	88	105	116	119	129	128	137	160	
Cherokee	75	94	85	98	103	102	110	110	116	104	97	77	96	88	104	112	114	126	130	141	132	129	122	
Chickasaw	105	101	92	93	84	93	98	99	101	102	88	89	103	95	98	92	104	113	117	123	129	117	141	
Clarke	97	84	89	94	101	103	105	101	103	91	106	99	86	92	100	110	115	121	119	125	115	141	156	
Clay	70	67	70	90	96	91	99	107	113	115	122	97	68	73	95	105	102	114	126	137	145	162	153	
Clayton	95	99	96	89	79	92	100	111	115	108	106	94	101	99	94	86	103	115	131	140	137	141	149	
Clinton	82	82	88	91	90	92	105	107	108	100	102	95	84	91	96	98	103	121	126	131	126	136	150	
Crawford	66	87	79	102	85	85	120	114	114	101	107	102	89	82	108	93	95	138	135	139	128	142	161	
Dallas	95	95	91	82	91	96	115	114	114	112	105	100	97	94	87	99	108	132	135	139	142	140	158	
Davis	90	105	108	103	93	93	112	116	112	108	106	95	107	112	109	101	104	129	137	136	137	141	150	
Decatur	96	97	87	92	91	90	101	109	110	110	112	93	99	90	97	99	101	116	129	134	139	149	147	
Delaware	93	79	89	91	82	87	98	98	91	96	88	89	81	92	96	89	98	113	116	111	121	117	141	
Des Moines	86	86	91	84	94	96	103	104	100	102	99	95	88	94	89	102	108	118	123	122	129	132	150	
Dickinson	76	67	83	85	81	106	110	109	102	92	87	80	68	86	90	88	119	126	129	124	116	116	126	
Dubuque	75	74	79	80	80	86	97	98	100	100	99	89	76	82	85	87	96	111	116	122	126	132	141	
Emmet	106	124	75	74	73	89	99	102	96	95	102	91	127	78	78	80	100	114	121	117	120	136	144	
Fayette	97	96	89	87	87	90	104	107	110	99	105	90	98	92	92	95	101	120	126	134	125	140	142	

Table 5. Average and Adjusted (in 1999 \$s) Monthly Unemployed-Parent Family Investment Program Payments Per Person in Iowa's Counties, 1984, 1989-1999 (cont.).

County	Average Unemployed-Parent FIP Payments Per Person												Adj. (in 1999 \$s) Avg. Unemployed-Parent FIP Payments Per Person										
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Floyd	82	90	81	90	92	92	102	105	104	111	97	84	92	84	95	100	103	117	124	126	140	129	133
Franklin	91	86	89	84	84	80	86	98	105	97	102	92	88	92	89	92	90	99	116	128	123	136	145
Fremont	82	76	82	76	71	72	98	96	101	97	99	91	78	85	80	77	81	113	113	123	123	132	144
Greene	77	67	86	98	91	89	106	96	109	97	106	93	68	89	104	99	100	122	113	133	123	141	147
Grundy	102	92	103	98	93	94	101	94	94	114	107	93	94	107	104	101	105	116	111	114	144	142	147
Guthrie	108	87	80	90	98	89	96	106	109	102	106	88	89	83	95	107	100	110	125	133	129	141	139
Hamilton	105	85	98	82	79	89	100	97	99	99	95	90	87	102	87	86	100	115	115	120	125	126	142
Hancock	114	99	90	95	82	89	101	97	99	108	85	89	101	93	101	89	100	116	115	120	137	113	141
Hardin	98	88	97	99	104	90	109	105	98	96	96	91	90	100	105	113	101	125	124	119	121	128	144
Harrison	92	107	91	82	78	76	90	101	93	104	106	88	109	94	87	85	85	103	119	113	132	141	139
Henry	98	88	74	82	85	88	98	95	96	105	93	98	90	77	87	93	99	113	112	117	133	124	155
Howard	101	109	64	84	97	89	96	96	98	117	105	86	111	66	89	106	100	110	113	119	148	140	136
Humboldt	86	81	79	90	87	83	104	111	110	101	90	94	83	82	95	95	93	120	131	134	128	120	149
Ida	87	51	78	83	70	62	62	a	117	108	a	85	52	81	88	76	69	71	a	142	137	a	134
Iowa	101	90	91	79	90	83	110	102	100	102	100	99	92	94	84	98	93	126	121	122	129	133	156
Jackson	73	69	89	94	88	92	103	97	103	106	99	92	71	92	100	96	103	118	115	125	134	132	145
Jasper	85	99	86	90	93	96	102	107	112	98	106	98	101	89	95	101	108	117	126	136	124	141	155
Jefferson	90	93	84	91	85	93	103	105	108	103	105	91	95	87	96	93	104	118	124	131	130	140	144
Johnson	91	89	86	93	94	94	103	108	103	98	99	96	91	89	98	102	105	118	128	125	124	132	152
Jones	93	88	87	88	87	80	103	102	100	105	100	99	90	90	93	95	90	118	121	122	133	133	156
Keokuk	79	73	78	87	98	90	94	93	95	107	104	96	75	81	92	107	101	108	110	116	135	138	152
Kossuth	84	85	91	77	75	73	82	99	89	89	94	85	87	94	82	82	82	94	117	108	113	125	134
Lee	96	89	88	85	78	88	105	105	108	105	102	94	91	91	90	85	99	121	124	131	133	136	149
Linn	89	85	84	87	85	87	99	98	101	100	101	99	87	87	92	93	98	114	116	123	126	134	156
Louisa	69	80	93	86	103	100	106	103	110	110	100	96	82	96	91	112	112	122	122	134	139	133	152
Lucas	102	96	97	101	100	94	97	103	92	100	98	95	98	100	107	109	105	111	122	112	126	130	150
Lyon	101	113	116	93	76	101	104	124	a	a	91	84	116	120	98	83	113	120	147	a	a	121	133
Madison	58	95	99	85	85	79	107	109	93	92	103	97	97	103	90	93	89	123	129	113	116	137	153
Mahaska	84	92	97	89	90	90	108	112	112	106	110	101	94	100	94	98	101	124	132	136	134	146	160
Marion	96	78	80	88	95	94	108	109	110	111	108	99	80	83	93	104	105	124	129	134	140	144	156
Marshall	80	83	98	91	90	86	105	109	102	107	106	99	85	102	96	98	96	121	129	124	135	141	156
Mills	95	91	80	79	83	85	92	103	97	108	97	87	93	83	84	90	95	106	122	118	137	129	138
Mitchell	114	92	71	83	92	119	110	103	123	96	110	91	94	74	88	100	133	126	122	150	121	146	144

<sup>a</sup>No payments of this kind were made this year.

Table 5. Average and Adjusted (in 1999 \$s) Monthly Unemployed-Parent Family Investment Program Payments Per Person in Iowa's Counties, 1984, 1989-1999 (cont.).

County	Average Unemployed-Parent FIP Payments Per Person												Adj. (in 1999 \$s) Avg. Unemployed-Parent FIP Payments Per Person											
	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	
Monona	102	83	92	108	103	88	110	102	103	104	101	87	85	95	114	112	99	126	121	125	132	134	138	
Monroe	105	86	78	81	88	91	105	105	104	102	103	97	88	81	86	96	102	121	124	126	129	137	153	
Montgomery	76	89	83	83	82	81	94	118	120	103	112	95	91	86	88	89	91	108	139	146	130	149	150	
Muscatine	88	78	89	96	89	89	99	104	103	105	102	96	80	92	102	97	100	114	123	125	133	136	152	
O'Brien	79	87	72	86	80	76	85	92	104	116	78	98	89	75	91	87	85	98	109	126	147	104	155	
Osceola	55	77	96	82	75	105	99	113	115	113	89	84	79	99	87	82	118	114	134	140	143	118	133	
Page	93	85	79	84	90	83	102	97	110	95	102	82	87	82	89	98	93	117	115	134	120	136	130	
Palo Alto	49	50	72	75	74	81	113	109	99	91	100	94	51	75	79	81	91	130	129	120	115	133	149	
Plymouth	105	78	74	92	75	84	95	111	117	85	107	90	80	77	97	82	94	109	131	142	108	142	142	
Pocahontas	88	98	98	93	103	87	102	104	106	94	97	96	100	102	98	112	98	117	123	129	119	129	152	
Polk	82	84	89	91	91	93	104	105	109	105	102	93	86	92	96	99	104	120	124	133	133	136	147	
Pottawattamie	85	91	89	90	86	89	101	104	105	101	99	89	93	92	95	94	100	116	123	128	128	132	141	
Poweshiek	86	96	103	98	99	92	106	105	102	95	80	95	98	107	104	108	103	122	124	124	120	107	150	
Ringgold	79	95	75	85	82	99	114	115	114	109	97	103	97	78	90	89	111	131	136	139	138	129	163	
Sac	107	80	88	67	75	83	97	100	100	113	103	84	82	91	71	82	93	111	118	122	143	137	133	
Scott	88	89	84	84	91	92	103	103	106	103	102	93	91	87	89	99	103	118	122	129	130	136	147	
Shelby	101	99	100	99	92	100	103	102	106	104	99	94	101	104	105	100	112	118	121	129	132	132	149	
Sioux	88	99	85	93	103	105	100	103	120	105	66	88	101	88	98	112	118	115	122	146	133	88	139	
Story	97	80	82	86	88	85	101	109	106	103	118	103	82	85	91	96	95	116	129	129	130	157	163	
Tama	79	74	83	90	89	84	99	103	101	107	105	93	76	86	95	97	94	114	122	123	135	140	147	
Taylor	84	85	77	75	79	90	89	105	105	89	102	109	87	80	79	86	101	102	124	128	113	136	172	
Union	76	82	83	82	74	78	96	107	111	105	97	102	84	86	87	81	87	110	126	135	133	129	161	
Van Buren	79	93	91	86	89	82	108	115	109	106	98	94	95	94	91	97	92	124	136	133	134	130	149	
Wapello	88	95	94	94	89	95	104	102	105	106	104	95	97	97	100	97	106	120	121	128	134	138	150	
Warren	75	77	85	82	80	81	98	107	100	101	105	98	79	88	87	87	91	113	126	122	128	140	155	
Washington	75	80	95	85	85	75	99	104	99	110	105	100	82	98	90	93	84	114	123	120	139	140	158	
Wayne	77	96	88	87	82	92	96	100	96	97	109	95	98	91	92	89	103	110	118	117	123	145	150	
Webster	86	78	82	76	87	92	99	101	97	100	98	92	80	85	80	95	103	114	119	118	126	130	145	
Winnebago	111	108	106	85	91	97	123	121	91	98	97	92	110	110	90	99	109	141	143	111	124	129	145	
Winneshiek	94	90	76	87	71	78	96	102	109	100	101	88	92	79	92	77	87	110	121	133	126	134	139	
Woodbury	84	90	87	94	88	84	102	103	101	99	98	96	92	90	100	96	94	117	122	123	125	130	152	
Worth	87	71	79	84	82	87	113	113	92	100	79	102	73	82	89	89	98	130	134	112	126	105	161	
Wright	107	79	78	82	87	79	105	99	101	114	95	96	81	81	87	95	89	121	117	123	144	126	152	
State of Iowa	87	86	87	88	88	90	102	103	104	103	101	94	88	90	93	96	101	117	122	126	130	134	149	

## Unemployed-Parent Family Investment Cases and Recipients

Iowa averaged 1,500 unemployed-parent FIP cases each month in 1999, which was the lowest in the years examined (Table 2). Sixty-five of the counties averaged fewer than 10 unemployed-parent cases each month in 1999. The highest monthly averages were in Black Hawk, Polk, and Scott, each of which had more than 100 cases.

Iowa's unemployed-parent case average was lower by 570 in 1999 than it was in 1989. Sixty-seven counties also had declines when comparing these years. Black Hawk, Dubuque, and Scott had decreases of 50 or more cases. Five counties remained the same; the remaining 27 had increases over the period, although only Polk and Story reported at least 20 more cases in 1999 than in 1989.

The average monthly number of FIP recipients in the unemployed-parent program was 6,260 in 1999, a figure 1,487 lower than in 1998 (Table 2, Figure 2). Polk had the highest monthly average (745) of unemployed-parent recipients in 1999; Black Hawk and Scott also were greater than 400. Thirteen other counties averaged at least 100 recipients.

Iowa averaged 2,445 fewer persons per month receiving unemployed-parent FIP benefits in 1999 than in 1989. Most (69) of the counties followed the downward state trend. Decreases greater than 200 occurred in Black Hawk, Dubuque, and Scott. Of the 26 counties with more unemployed-parent recipients in 1999 than in 1989, only Polk increased by more than 100.

Cases and recipients in the unemployed-parent portion of the FIP have varied much more in the 1980s and 1990s than those in the regular Family Investment Program. The unemployed-parent program corresponds much more closely to variations in Iowa's economy than does the regular program.

## Total Annual Family Investment Payments

Total benefits paid in Iowa in 1999 for the regular FIP exceeded \$77 million, which was about \$9 million less than the 1998 total (Table 3, Figure 3). Payments decreased in 7 of the 10 year-to-year comparisons; declines of at least \$9 million occurred each year since 1994. Totals paid in 1999 varied from less than \$100,000 in seven counties to more than \$10 million in Polk. Polk's figure, at \$11.9 million, was nearly \$4 million above the second highest total (Scott, \$8.0 million).

Iowa's total payments to regular recipients decreased by \$61 million between 1989 and 1999; all of the counties had lower benefits paid at the end of the period. Declines in Black Hawk, Polk, and Scott each topped \$5 million; benefits in nine others decreased by at least \$1 million.

Unemployed-parent program benefits totaled \$6.5 million in 1999 (Table 3, Figure 4). Benefits paid by this program have been significantly lower than those for the regular program because the caseload is much smaller. Payments increased from 1992 to 1994 but declined from then to 1999.

Fourteen counties provided less than \$10,000 in unemployed-parent benefits in 1999. Black Hawk, Linn, Polk, and Scott each released more than \$300,000. Total costs for the unemployed-parent program in Iowa were \$4.0 million lower in 1999 than in 1989. Most (75) counties also reported lower benefits at the end of the period. For counties with higher payments in 1999 than in 1989, the increases tended to be small, with only Johnson and Story paying at least \$50,000 more of these benefits at the end of the period than at the beginning.

## Average Monthly Payments Per Person

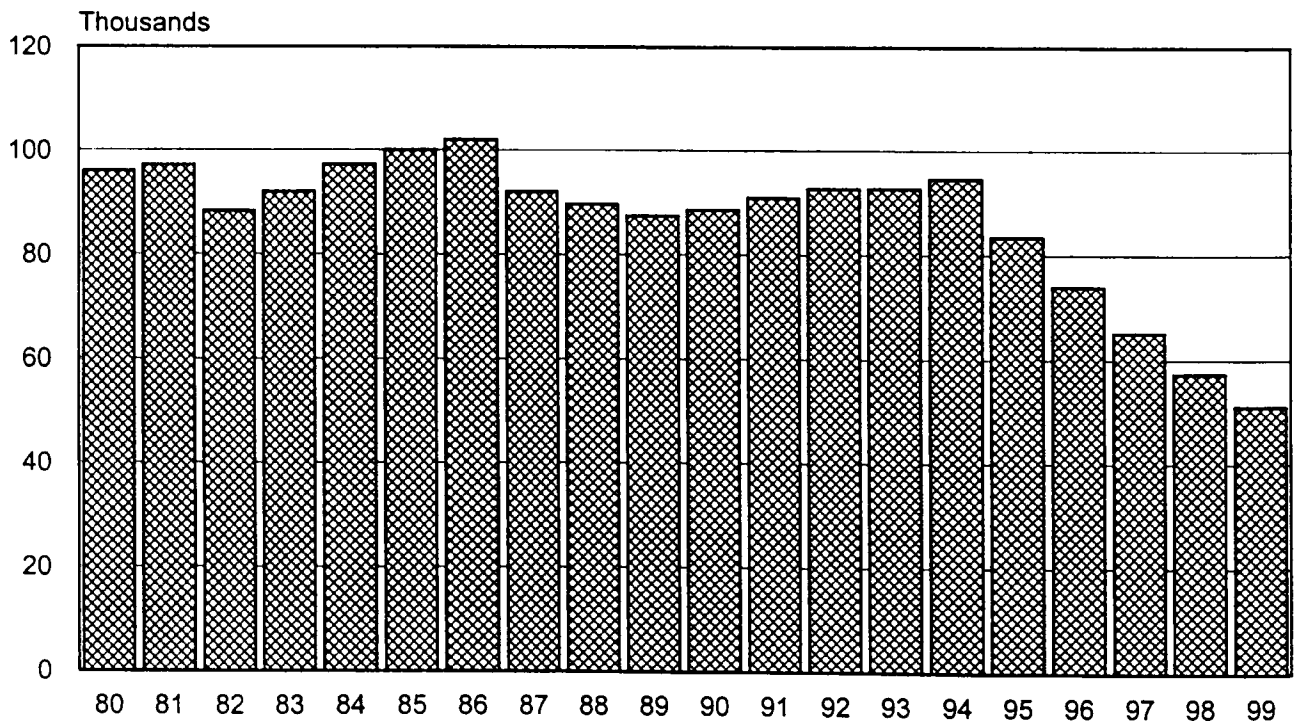
The average per person benefit per month for the regular program was \$126 in 1999 (Table 4). This was slightly lower than the figures from 1989 through 1997 and unchanged from 1998 (Figure 5). Among the counties, there was a \$34 difference between the lowest (\$107 in Ida) and the highest (\$141 in Decatur) monthly per person benefits in 1999. For all the years from 1989 through 1999, \$35 or less separated the lowest and highest county in per person monthly payments for the regular program.

The small negative percentage change (-4.5%) in per person benefits for the regular FIP from 1989 to 1999 contrasts sharply with percentage increases for average monthly benefits per person in the food stamp program (+37.1%). Clearly, the increase in average regular FIP payments per month did not keep pace with inflationary trends either. After adjusting for inflation, regular program payments per person declined from \$176 in 1989 to \$126 in 1999, a 28.4 percent decrease in purchasing power (Table 4, Figure 5). All 99 counties experienced a similar trend.

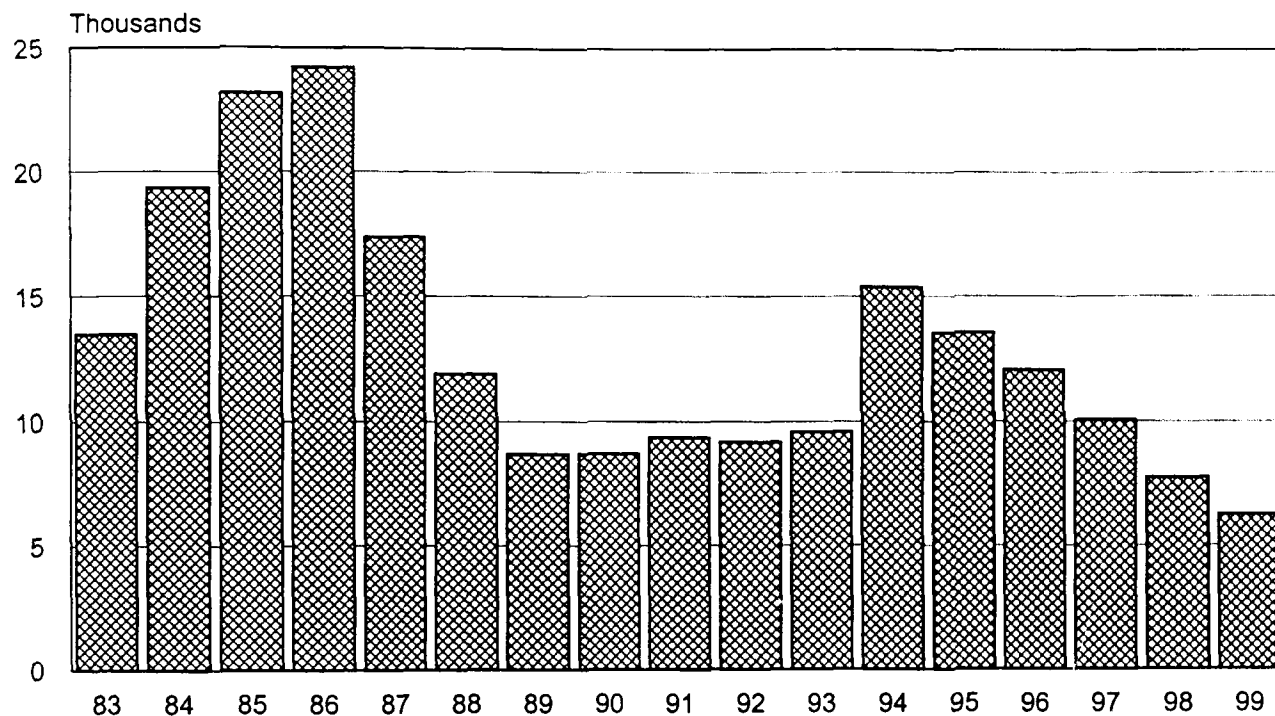
For persons in the unemployed-parent program, monthly payments statewide averaged \$87 in 1999 (Table 5). This was about the same as 1995-1998 (Figure 5). For the state and the counties, per person payments for the unemployed-parent program have been lower than those for the regular program, frequently by \$40 or more per month. For any given year, there was more variation among the counties in the unemployed-parent payments than in those for the regular program.

The 1999 average benefits for persons in the unemployed-parent program were \$14 less than that in 1989 for the state, and 72 counties had lower average payments in 1999 than 10 years earlier. When adjusted for inflation, average benefits for persons in the unemployed-parent program decreased 35.1 percent from 1989 to 1999 (Table 5, Figure 5). All counties except Adair, Hancock, and Sioux experienced this trend.

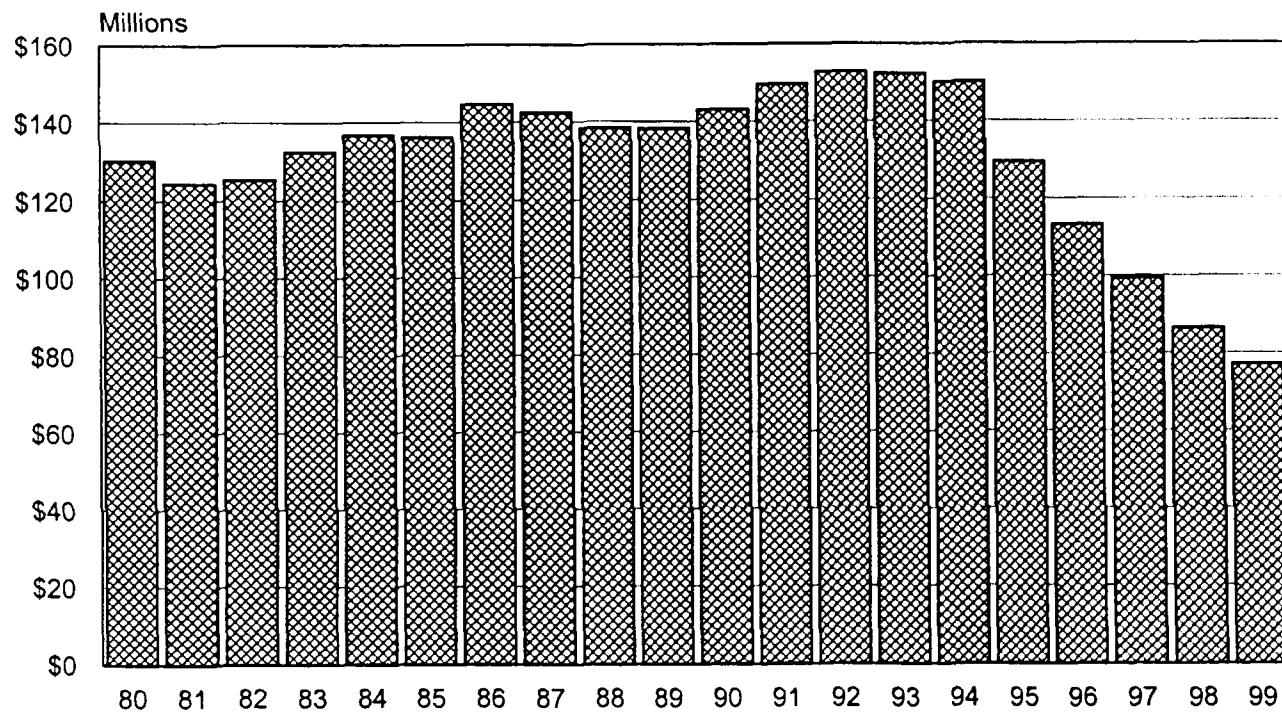
**Figure 1. Average number of FIP regular recipients per month in Iowa, 1980–1999.**



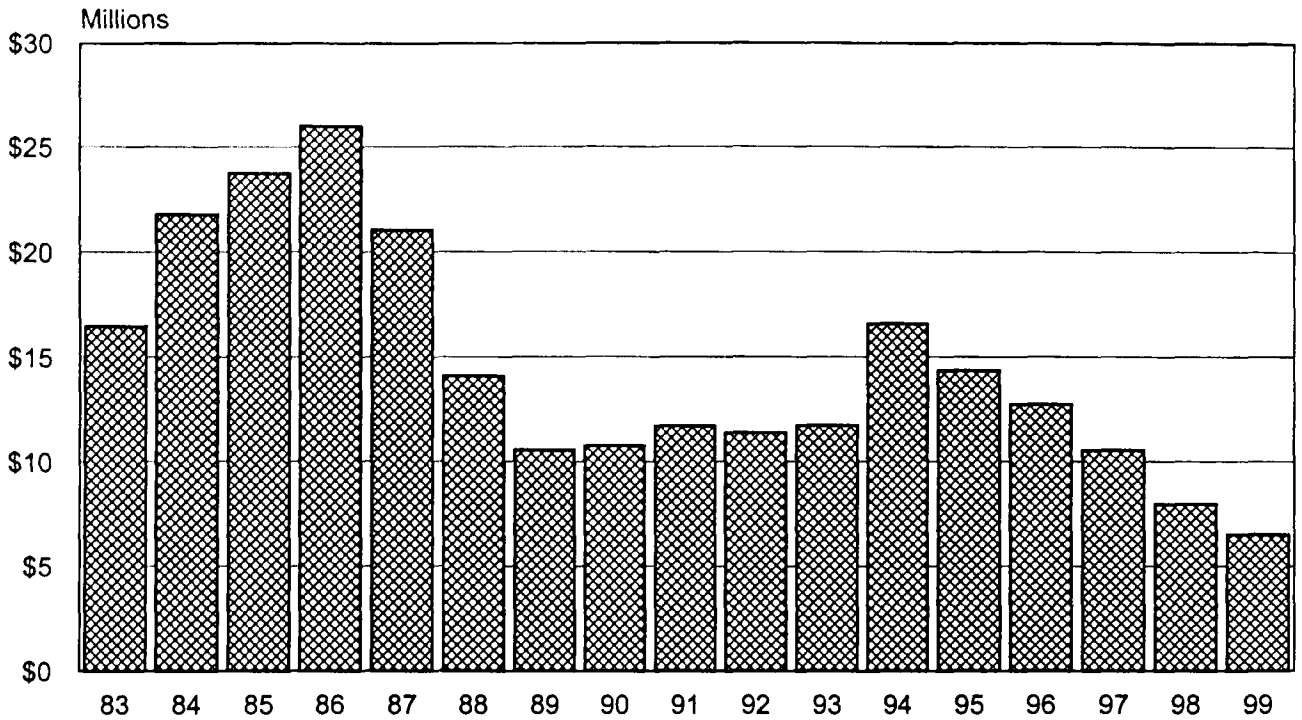
**Figure 2. Average number of FIP unemployed-parent recipients per month in Iowa, 1983–1999.**



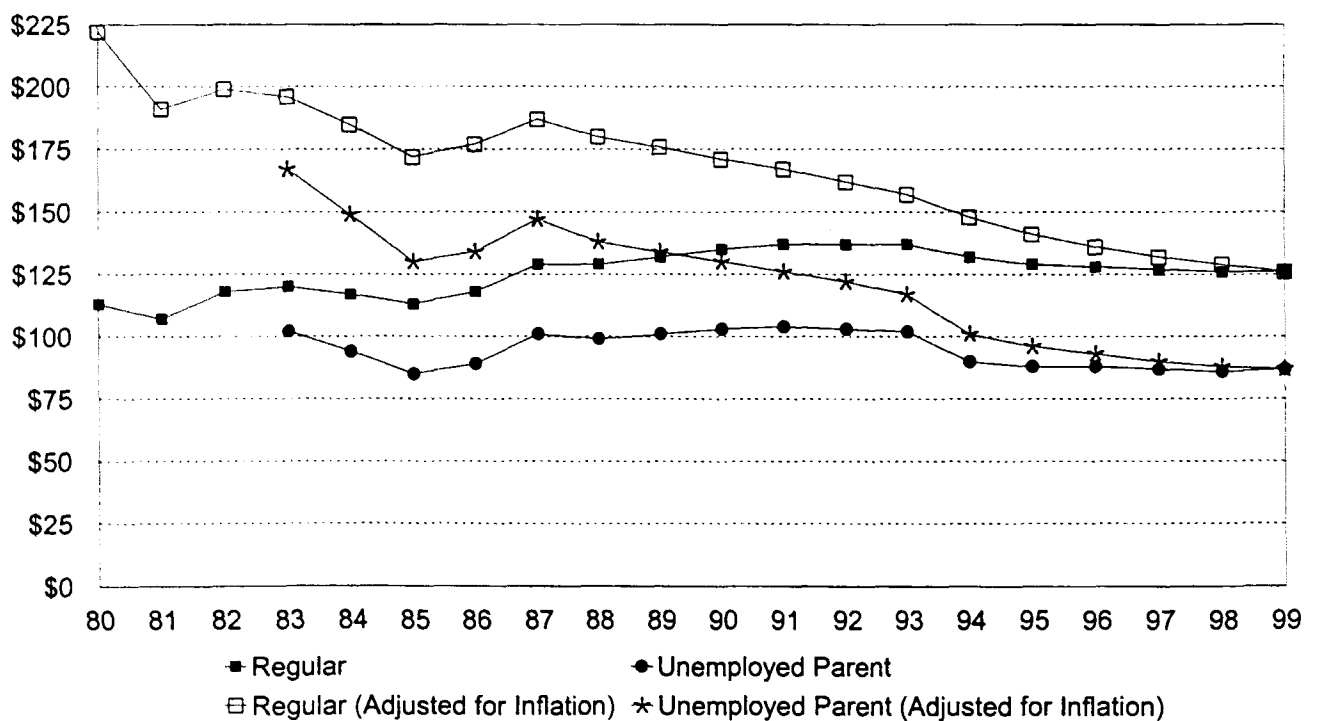
**Figure 3. Total annual payments to persons receiving regular FIP benefits in Iowa, 1980–1999.**



**Figure 4. Total annual payments to persons receiving unemployed-parent FIP benefits in Iowa, 1983–1999.**



**Figure 5. Average monthly FIP payments (in \$s and 1999 \$s adjusted for inflation) per recipient, 1980–1999.**





## Children in Foster Care in Iowa's Counties: 1997-1999

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Information on the number of children in foster care is reported each month by the Iowa Department of Human Services. These data were summed over the months in each calendar year and divided by 12 to yield average monthly numbers.

In 1999, nearly 4,700 children were in foster care in an average month (Table 1). That was a decrease of 100 from the 1998 average of 4,800 and 400 from the 1997 figure of 5,100. Eight counties (Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, Woodbury) averaged at least 100 children in foster care in 1999; these eight accounted for more than half (51.7%) the total that year. Twenty counties reported fewer than 10 children under such care in 1999, with the lowest averages occurring in Adams and Osceola.

Changes among the averages between 1997 and 1999 were minimal in many counties. For example, the number of children in foster care remained the same or changed by less than 5 in 44 counties. Twelve noted gains of at least 10 foster children, although no increase was as great as 25. Eighteen counties had declines of at least 10 when 1997 and 1999 were compared, with the decreases exceeding 50 in Black Hawk, Cerro Gordo, Polk, and Woodbury.

**Note:** Because of changes in the manner in which the numbers are reported, figures on children in foster care included in the 1995 and earlier editions of this volume should not be compared with those in Table 1.

Table 1. Average Monthly Number of Children in Foster Care in Iowa's Counties, 1997-1999.

County	1999	1998	1997	County	1999	1998	1997
Adair	10	7	6	Jefferson	19	26	28
Adams	3	5	8	Johnson	139	122	119
Allamakee	27	25	7	Jones	15	22	26
Appanoose	47	49	62	Keokuk	17	19	18
Audubon	13	17	11	Kossuth	5	4	10
Benton	44	42	52	Lee	58	47	46
Black Hawk	226	246	305	Linn	359	352	351
Boone	36	32	36	Louisa	14	17	17
Bremer	14	12	21	Lucas	14	9	10
Buchanan	37	36	50	Lyon	14	9	11
Buena Vista	35	32	19	Madison	14	16	0
Butler	10	11	17	Mahaska	31	35	40
Calhoun	11	8	6	Marion	40	34	33
Carroll	17	20	26	Marshall	56	62	68
Cass	12	18	20	Mills	14	21	22
Cedar	9	8	12	Mitchell	10	12	11
Cerro Gordo	80	96	155	Monona	21	18	19
Cherokee	22	12	9	Monroe	6	9	10
Chickasaw	12	12	8	Montgomery	20	22	25
Clarke	8	13	13	Muscatine	92	89	99
Clay	27	23	30	O'Brien	14	16	20
Clayton	12	9	13	Osceola	4	4	3
Clinton	80	90	86	Page	28	18	26
Crawford	20	14	13	Palo Alto	8	9	12
Dallas	60	68	56	Plymouth	17	20	18
Davis	6	8	8	Pocahontas	6	4	7
Decatur	8	8	7	Polk	716	743	817
Delaware	24	26	20	Pottawattamie	167	158	153
Des Moines	77	74	62	Poweshiek	27	32	41
Dickinson	30	30	29	Ringgold	7	8	4
Dubuque	115	111	124	Sac	7	4	5
Emmet	28	41	39	Scott	314	324	358
Fayette	33	32	32	Shelby	14	20	10
Floyd	26	23	26	Sioux	19	22	17
Franklin	13	12	11	Story	77	80	79
Fremont	12	16	14	Tama	49	54	36
Greene	27	20	13	Taylor	5	4	12
Grundy	11	6	1	Union	14	20	23
Guthrie	10	11	12	Van Buren	8	8	4
Hamilton	19	17	18	Wapello	84	96	89
Hancock	7	5	2	Warren	54	52	75
Hardin	27	20	29	Washington	42	47	40
Harrison	29	17	32	Wayne	8	10	9
Henry	21	21	32	Webster	90	89	114
Howard	8	10	6	Winnebago	8	5	1
Humboldt	15	12	13	Winneshiek	15	15	35
Ida	7	5	6	Woodbury	376	412	440
Iowa	20	19	10	Worth	9	6	1
Jackson	17	20	21	Wright	21	25	26
Jasper	45	48	43				
				State of Iowa	4664	4762	5085

## Founded Child Abuse in Iowa's Counties: 1984-1999

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Information on child abuse is compiled by the Iowa Department of Human Services. The department, among many other duties, investigates reported or suspected cases of child abuse. A case is classified as founded child abuse if the investigation results in a determination that child abuse, as legally defined in Chapter 232.68 of the Iowa Code, occurred. Physical abuse, sexual abuse, denial of critical care, or any combination of these categories is included.

For this report, the number of children involved in founded abuse cases was summed for each year. The same child may be counted more than once if he or she was involved in more than one founded incident during the year. In 1987, the Department of Human Services made some changes in the method of reporting child abuse information. These changes may affect comparisons of data before and after those dates. In addition, the 1996 and 1997 cases were reported for the state and regions but not for counties.

In 1999, 9,373 children were determined to be abused in Iowa, which was nearly 600 below the highest figure (9,967 in 1995) (Table 1, Figure 1). A decline of 49 occurred between 1998 and 1999. Gains were relatively great between 1987 and 1988, 1992 and 1993, and 1994 and 1995.

Polk had 1,351 children with founded abuse in 1999, the highest number reported among the state's 99 counties. Five other counties (Black Hawk, Linn, Pottawattamie, Scott, Woodbury) had at least 300 children abused; these five plus Polk accounted for nearly two-fifths (39.1%) of the cases of child abuse in 1999. Fewer than 20 abused children were reported in 16 counties.

Fifty-three counties had more abused children in 1999 than in 1998. For some of these counties, the differences between the two years were small; in 27 of these 53, for example, the gains were less than 10. Only Muscatine and Washington had gains greater than 50. Forty-two counties had fewer children with founded abuse in 1999 than in 1998. From one to nine fewer abused children were recorded for 11 counties. Declines exceeded 50 cases in Linn, Polk, and Scott.

The number of children with founded abuse increased by 201 between 1994 and 1999. Fifty-five counties followed the state trend of increase during this period. Gains exceeded 50 in eight counties while declines were more than 50 in another six. Declines greater than 100 occurred in Black Hawk and Polk, while gains of that magnitude took place in Dubuque, Lee, and Webster. A third (33) of Iowa's counties changed by fewer than 10 cases in either direction between 1994 and 1999.

When the years of 1989 and 1999 were compared, the number of cases in which abuse was found increased by 1,278. Two-thirds (66) of the counties also had gains. Again, changes were modest for the most part, with 39 counties increasing or decreasing by fewer than 10 cases.

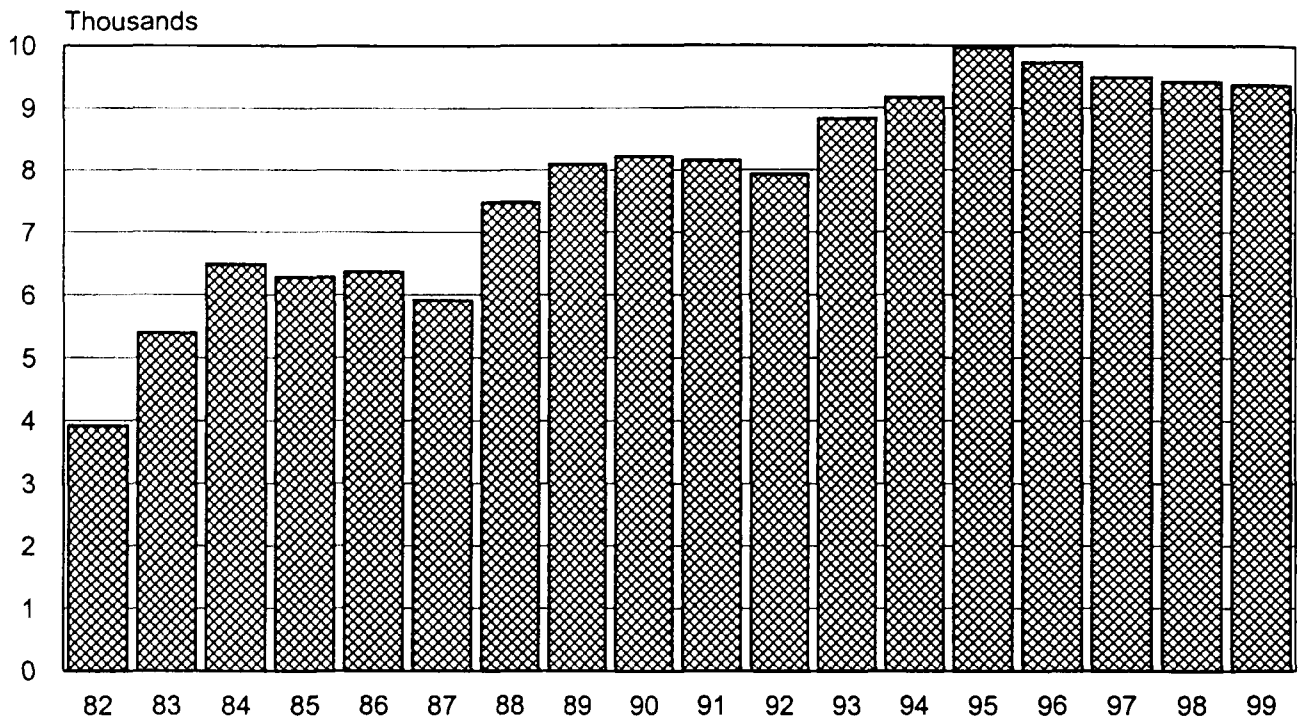
Table 1. Number of Children in Founded Cases of Child Abuse in Iowa's Counties, 1984-1995 and 1998-1999.\*

County	1999	1998	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	21	24	17	30	13	16	14	22	12	3	10	13	20	14
Adams	18	11	4	6	13	13	13	8	3	11	4	6	6	5
Allamakee	44	33	43	16	25	31	35	46	37	20	17	26	16	13
Appanoose	51	48	40	20	44	38	24	16	24	18	15	25	8	35
Audubon	11	4	24	22	13	8	8	18	17	17	24	7	5	23
Benton	111	131	119	67	69	28	56	47	62	46	39	40	30	27
Black Hawk	505	500	657	661	608	497	472	459	471	482	368	437	324	307
Boone	82	74	65	90	59	79	113	109	168	113	46	39	65	107
Bremer	39	37	24	33	29	38	20	20	31	29	19	30	23	26
Buchanan	94	84	64	42	60	43	40	29	37	54	40	59	49	21
Buena Vista	59	87	56	48	55	58	45	45	58	34	20	29	27	82
Butler	42	33	38	21	26	27	31	15	32	32	10	11	16	11
Calhoun	32	20	33	16	21	14	36	36	11	20	13	5	18	20
Carroll	22	33	53	32	36	15	50	37	38	41	41	9	27	21
Cass	32	42	44	14	43	29	27	31	26	37	29	18	23	27
Cedar	43	26	30	55	51	37	22	32	36	24	16	24	29	32
Cerro Gordo	283	234	251	205	225	161	173	121	149	130	87	102	69	83
Cherokee	49	33	19	33	19	15	26	27	36	18	9	16	25	26
Chickasaw	29	29	41	25	47	19	18	26	30	16	17	19	25	14
Clarke	33	32	36	40	23	31	25	22	37	29	13	10	22	7
Clay	43	28	56	54	54	65	57	69	56	65	41	50	38	38
Clayton	46	31	44	33	27	26	44	51	65	33	38	18	42	28
Clinton	105	133	163	162	188	147	119	150	144	128	127	119	140	154
Crawford	50	70	76	47	36	24	44	44	49	41	19	23	18	33
Dallas	96	107	97	84	62	52	95	69	78	74	85	64	42	58
Davis	19	12	8	8	21	24	14	19	13	17	14	7	20	18
Decatur	35	35	17	42	42	36	40	28	23	24	13	23	16	17
Delaware	54	47	36	33	20	39	55	65	91	68	55	47	37	85
Des Moines	246	217	167	170	129	135	109	121	132	91	98	127	108	119
Dickinson	26	24	54	52	28	39	25	33	45	22	31	24	16	12
Dubuque	298	276	200	170	235	199	185	198	187	178	106	106	176	162
Emmet	56	32	45	41	41	39	39	26	28	32	18	31	16	17
Fayette	103	71	45	48	63	46	52	73	46	38	62	46	53	48
Floyd	67	67	72	79	68	74	56	46	42	36	42	29	30	13
Franklin	18	11	13	18	12	11	25	16	24	22	10	10	19	14
Fremont	18	10	20	18	19	22	11	19	20	26	10	6	8	3
Greene	36	39	48	47	46	18	39	24	34	15	21	25	18	29
Grundy	18	17	18	15	22	13	16	10	17	11	9	6	6	2
Guthrie	37	32	48	38	22	36	18	24	22	17	24	14	18	23
Hamilton	52	73	62	77	57	63	83	74	56	34	27	26	24	31
Hancock	29	33	33	16	39	24	15	12	27	13	16	24	13	17
Hardin	41	21	42	36	11	18	21	31	39	41	27	34	32	22
Harrison	50	41	31	53	29	58	35	49	54	61	44	42	28	36
Henry	65	97	38	34	27	42	56	43	35	42	33	36	39	39
Howard	30	41	23	18	14	14	17	18	14	14	12	16	19	17
Humboldt	14	20	23	26	24	10	16	19	29	7	10	13	13	32
Ida	19	17	18	14	10	8	15	7	21	10	2	3	3	3
Iowa	37	43	39	13	42	24	9	22	24	23	17	18	11	14
Jackson	48	45	43	71	58	47	45	58	40	34	58	41	43	41
Jasper	72	76	138	126	104	109	129	135	90	131	80	159	209	171

\*Data for 1996 and 1997 were not reported for counties. The state totals were 9,728 in 1996 and 9,489 in 1997.

Table 1. Number of Children in Founded Cases of Child Abuse in Iowa's Counties, 1984-1995 and 1998-1999  
(continued).\*

County	1999	1998	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	71	31	20	39	44	29	35	19	23	21	17	29	20	23
Johnson	238	239	113	151	155	137	114	135	130	110	89	98	80	68
Jones	37	52	13	34	30	54	38	35	32	39	32	49	45	65
Keokuk	67	34	39	20	31	25	32	26	20	17	8	9	22	29
Kossuth	38	49	38	26	35	52	22	12	13	5	15	14	10	24
Lee	283	253	111	125	113	106	114	110	102	111	121	146	190	182
Linn	463	524	444	422	455	394	460	469	586	476	371	434	405	492
Louisa	30	46	35	44	35	10	34	38	34	28	12	21	24	20
Lucas	22	34	16	14	21	28	11	10	6	5	8	7	16	12
Lyon	13	28	21	13	15	10	15	15	7	12	13	4	13	9
Madison	29	43	28	30	26	16	25	31	32	26	30	23	21	13
Mahaska	32	47	58	43	32	51	49	37	23	31	29	28	37	41
Marion	90	99	69	92	91	107	119	98	105	120	79	119	92	60
Marshall	110	133	121	139	116	81	85	117	155	135	112	116	88	86
Mills	38	34	91	59	72	42	40	30	44	55	28	22	21	16
Mitchell	13	8	18	18	32	26	14	12	7	13	12	14	1	4
Monona	10	21	40	19	6	13	28	27	9	13	16	7	16	17
Monroe	24	12	10	19	19	24	25	15	7	6	7	12	9	5
Montgomery	31	42	20	31	21	24	31	16	31	20	37	21	11	20
Muscatine	249	195	223	342	277	205	276	222	182	138	91	85	129	141
O'Brien	15	27	28	44	16	32	14	21	15	17	7	13	12	3
Osceola	13	6	11	8	10	10	12	15	9	12	1	10	14	3
Page	34	46	49	29	38	61	30	64	57	50	22	19	13	39
Palo Alto	25	36	19	18	31	19	20	31	12	23	17	25	21	34
Plymouth	38	28	23	35	14	20	35	54	34	27	29	15	23	28
Pocahontas	27	23	19	19	18	8	12	28	23	19	21	16	7	27
Polk	1351	1518	2121	1777	1803	1474	1528	1478	1348	1518	1189	1271	1093	1122
Pottawattamie	323	293	324	332	377	302	273	245	249	265	290	339	372	316
Poweshiek	79	93	82	56	51	22	28	27	39	28	31	37	16	27
Ringgold	18	18	22	16	18	23	15	9	6	4	8	13	13	7
Sac	41	36	40	39	42	41	20	37	28	21	17	9	27	12
Scott	653	753	846	643	642	584	539	522	428	423	342	397	425	543
Shelby	35	28	5	19	15	28	19	9	14	18	11	10	4	11
Sioux	47	33	23	22	14	24	30	16	32	19	31	10	16	16
Story	82	97	94	119	118	85	120	178	154	134	63	86	70	29
Tama	75	104	96	88	40	46	34	52	52	66	51	52	27	24
Taylor	21	11	12	7	6	18	22	16	14	21	7	10	9	11
Union	78	70	46	81	60	65	47	65	51	45	31	44	60	51
Van Buren	56	39	24	12	29	6	16	17	8	13	4	8	11	19
Wapello	173	171	169	128	113	140	130	124	161	106	94	93	115	124
Warren	53	69	95	77	117	112	148	126	94	142	94	99	111	99
Washington	94	40	72	45	45	38	49	54	42	34	24	16	21	16
Wayne	9	28	22	32	24	33	9	6	18	1	3	8	7	7
Webster	206	162	168	103	108	148	154	195	154	131	102	109	130	161
Winnebago	38	30	54	50	46	27	14	17	27	21	25	9	15	15
Winneshiek	46	25	24	28	26	20	48	32	50	23	47	9	16	17
Woodbury	369	372	473	441	267	390	430	507	497	357	208	222	259	169
Worth	18	21	24	19	46	21	12	13	18	11	7	7	8	7
Wright	36	38	74	73	40	40	39	51	50	14	21	30	20	23
County Not Reported	4	2	5	13	5	4	8	13	3	17	8	16	14	5
State of Iowa	9373	9422	9967	9172	8834	7934	8154	8215	8095	7483	5918	6372	6281	6489

**Figure 1. Abused children in Iowa, 1982–1999.**

## Licensed Hospitals/Beds and Nursing Facilities/Beds in Iowa's Counties: 1994-1999

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Information on health care facilities throughout the state is obtained by the Division of Health Facilities in the Iowa Department of Inspections and Appeals. Numbers of licensed hospitals and nursing facilities as well as the beds counted in each type are taken from the last report for a calendar year, which usually means the end of December.

### Licensed Hospital Facilities and Beds

There were 124 licensed hospitals in Iowa in December of 1999 (Table 1). Butler, Cedar, Louisa, Tama, Taylor, Warren, Winnebago, and Worth were the only counties that had no licensed hospital. Black Hawk, Johnson, Page, Polk, and Sioux each had at least three hospitals. Of the remaining 86 counties, 66 had one and 20 had two hospitals.

No county gained a licensed hospital facility when 1994 and 1999 were compared; Story declined by one. As a result, the state had one less licensed hospital at the end of that five-year period than at the beginning.

In 1999, one of every five (21.0%) of the 14,891 licensed hospital beds were located in just two counties—Johnson and Polk (Table 1). Black Hawk, Boone, Dubuque, Linn, Mills, and Scott were the only others with more than 500 hospital beds. Among counties with hospital facilities, fewer than 25 beds were reported in Adams, Chickasaw, and Lucas.

The state had 204 fewer hospital beds in 1999 than in 1994. Thirty-one counties reported decreases, which exceeded 100 in Pottawattamie and Woodbury. Among the 18 counties with gains, at least 100 more beds were counted in 1999 than in 1994 in Des Moines, Marion, and Sioux. In 50 counties, the number of beds in 1999 equaled that reported in 1994. In another 21, gains or declines amounted to 10 or fewer beds. Thus, no or minimal change in licensed hospital beds occurred in nearly three-quarters (71) of the counties.

### Licensed Nursing Facilities and Beds

As of December of 1999, there were 428 licensed nursing facilities in Iowa (Table 2). Every county reported at least one such facility that year; five counties (Black Hawk, Linn, Polk, Scott, Woodbury) had more than 10. From 1994 to 1999, the number of licensed nursing facilities increased by one statewide. Linn had a gain of two such facilities, while Hardin, Howard, and Mills had one more at the end of the period than at the beginning. Decatur, Mahaska, Marshall, and Scott each had one less licensed nursing facility in 1999 than in 1994.

At the end of 1999, there were more than 33,700 licensed nursing facility beds in Iowa (Table 2). Nearly a fourth (23.9%) of these beds were in Black Hawk, Linn, Marshall, Polk, Scott, or Woodbury, each of which counted more than 1,000 beds. Adams, Greene, and Van Buren were the only counties with fewer than 100 nursing facility beds.

As a result of the change in the number of facilities and changes within existing facilities, the state had 146 fewer beds in licensed nursing facilities in 1999 than five years earlier. Bed numbers

Table 1. Number of Licensed Hospitals and Hospital Beds in Iowa's Counties, 1994-1999.

County	Licensed Hospitals						Licensed Hospital Beds					
	1999	1998	1997	1996	1995	1994	1999	1998	1997	1996	1995	1994
Adair	1	1	1	1	1	1	31	31	31	31	31	31
Adams	1	1	1	1	1	1	22	22	22	22	22	29
Allamakee	1	1	1	1	1	1	40	40	40	40	40	40
Appanoose	1	1	1	1	1	1	54	54	54	49	49	49
Audubon	1	1	1	1	1	1	29	29	29	29	29	29
Benton	1	1	1	1	1	1	97	31	31	31	31	31
Black Hawk	3	3	3	3	3	3	610	616	616	687	687	687
Boone	2	2	2	2	2	2	696	696	696	696	696	696
Bremer	2	2	2	2	2	2	74	74	70	74	67	74
Buchanan	2	2	2	2	2	2	260	270	290	290	263	263
Buena Vista	1	1	1	1	1	1	54	54	54	54	54	54
Butler	0	0	0	0	0	0	0	0	0	0	0	0
Calhoun	1	1	1	1	1	1	49	49	53	53	53	53
Carroll	2	2	2	2	2	2	229	229	229	229	166	229
Cass	1	1	1	1	1	1	69	69	71	71	75	75
Cedar	0	0	0	0	0	0	0	0	0	0	0	0
Cerro Gordo	1	1	1	1	1	1	350	350	350	350	350	350
Cherokee	2	2	2	2	2	2	135	135	135	177	199	199
Chickasaw	1	1	1	1	1	1	22	22	12	49	49	49
Clarke	1	1	1	1	1	1	48	48	48	48	48	48
Clay	1	1	1	1	1	1	99	99	99	99	99	99
Clayton	2	2	2	2	2	2	58	58	58	58	58	58
Clinton	2	2	2	2	2	2	253	253	272	195	195	195
Crawford	1	1	1	1	1	1	72	72	72	72	48	72
Dallas	1	1	1	1	1	1	49	49	49	53	53	53
Davis	1	1	1	1	1	1	80	80	80	80	48	48
Decatur	1	1	1	1	1	1	49	49	49	49	49	49
Delaware	1	1	1	1	1	1	37	37	37	49	58	58
Des Moines	1	1	1	1	1	1	380	380	380	380	221	221
Dickinson	1	1	1	1	1	1	49	49	49	49	49	49
Dubuque	2	2	2	2	2	2	649	649	649	649	649	649
Emmet	1	1	1	1	1	1	58	58	58	58	58	58
Fayette	2	2	2	2	2	2	94	94	94	94	55	59
Floyd	1	1	1	1	1	1	35	35	35	35	35	35
Franklin	1	1	1	1	1	1	92	92	92	92	40	40
Fremont	1	1	1	1	1	1	28	26	49	49	49	49
Greene	1	1	1	1	1	1	127	117	127	127	127	53
Grundy	1	1	1	1	1	1	80	75	88	88	88	88
Guthrie	1	1	1	1	1	1	26	26	26	26	26	27
Hamilton	1	1	1	1	1	1	40	40	40	42	49	49
Hancock	1	1	1	1	1	1	26	26	26	26	26	30
Hardin	2	2	2	2	2	2	51	58	60	60	60	60
Harrison	1	1	1	1	1	1	35	35	35	35	35	35
Henry	2	2	2	2	2	2	139	139	139	139	139	121
Howard	1	1	1	1	1	1	32	32	32	32	42	42
Humboldt	1	1	1	1	1	1	49	49	49	49	49	49
Ida	1	1	1	1	1	1	36	36	36	36	36	36
Iowa	1	1	1	1	1	1	44	44	44	44	44	44
Jackson	1	1	1	1	1	1	61	61	61	61	61	61
Jasper	1	1	1	1	1	1	68	68	50	64	50	50



Table 1. Number of Licensed Hospitals and Hospital Beds in Iowa's Counties, 1994-1999 (continued).

County	Licensed Hospitals						Licensed Hospital Beds					
	1999	1998	1997	1996	1995	1994	1999	1998	1997	1996	1995	1994
Jefferson	1	1	1	1	1	1	67	67	83	83	83	83
Johnson	3	3	3	3	3	3	1092	1125	1102	1102	1102	1161
Jones	1	1	1	1	1	1	38	38	38	38	38	38
Keokuk	1	1	1	1	1	1	25	25	25	26	26	26
Kossuth	1	1	1	1	1	1	40	40	40	40	40	40
Lee	2	2	2	2	2	2	175	175	175	175	242	167
Linn	2	2	2	2	2	2	803	809	853	766	749	803
Louisa	0	0	0	0	0	0	0	0	0	0	0	0
Lucas	1	1	1	1	1	1	22	22	22	22	44	44
Lyon	1	1	1	1	1	1	30	30	30	30	30	30
Madison	1	1	1	1	1	1	31	31	31	31	24	31
Mahaska	1	1	1	1	1	1	77	77	77	77	77	53
Marion	2	2	2	2	2	2	215	215	215	215	106	106
Marshall	1	1	1	1	1	1	124	132	132	132	132	132
Mills	1	1	1	1	1	1	851	851	851	851	851	851
Mitchell	1	1	1	1	1	1	40	40	40	40	40	40
Monona	1	1	1	1	1	1	48	48	48	48	48	48
Monroe	1	1	1	1	1	1	38	46	46	46	46	46
Montgomery	1	1	1	1	1	1	40	40	40	40	40	40
Muscatine	1	1	1	1	1	1	80	80	80	80	80	80
O'Brien	2	2	2	2	2	2	44	44	47	47	53	53
Osceola	1	1	1	1	1	1	32	32	32	32	32	32
Page	3	3	3	3	3	3	155	155	155	155	155	155
Palo Alto	1	1	1	1	1	1	54	54	54	54	32	32
Plymouth	1	1	1	1	1	1	44	44	44	44	44	44
Pocahontas	1	1	1	1	1	1	32	32	32	20	20	20
Polk	5	5	5	5	5	5	2033	2033	1833	1833	2019	2041
Pottawattamie	2	2	2	2	2	2	297	322	449	449	449	495
Poweshiek	1	1	1	1	1	1	46	46	46	46	46	46
Ringgold	1	1	1	1	1	1	46	46	46	46	46	46
Sac	1	1	1	1	1	1	54	54	54	54	54	33
Scott	2	2	2	2	2	2	651	651	651	652	652	652
Shelby	1	1	1	1	1	1	49	49	45	45	45	45
Sioux	4	4	4	4	4	4	303	304	226	226	200	141
Story	2	2	2	2	3	3	342	342	342	342	378	378
Tama	0	0	0	0	0	0	0	0	0	0	0	0
Taylor	0	0	0	0	0	0	0	0	0	0	0	0
Union	1	1	1	1	1	1	53	53	53	53	53	53
Van Buren	1	1	1	1	1	1	40	40	40	40	40	40
Wapello	1	1	1	1	1	1	235	235	235	235	235	235
Warren	0	0	0	0	0	0	0	0	0	0	0	0
Washington	1	1	1	1	1	1	40	40	40	40	40	40
Wayne	1	1	1	1	1	1	28	28	28	28	28	28
Webster	1	1	1	1	1	1	174	174	174	174	194	194
Winnebago	0	0	0	0	0	0	0	0	0	0	0	0
Winneshiek	1	1	1	1	1	1	57	57	57	57	57	83
Woodbury	2	2	2	2	2	2	434	651	656	731	812	812
Worth	0	0	0	0	0	0	0	0	0	0	0	0
Wright	2	2	2	2	2	2	47	56	54	56	54	55
State of Iowa	124	124	124	124	125	125	14891	15138	15087	15171	15041	15095

Table 2. Number of Licensed Nursing Facilities and Nursing Facility Beds in Iowa's Counties, 1994-1999.

County	Licensed Nursing Facilities						Licensed Nursing Facility Beds					
	1999	1998	1997	1996	1995	1994	1999	1998	1997	1996	1995	1994
Adair	3	3	3	3	3	3	185	185	180	180	180	180
Adams	1	1	1	1	1	1	64	64	64	64	64	64
Allamakee	4	4	4	4	4	4	279	279	279	279	279	279
Appanoose	2	2	2	2	2	2	197	197	197	197	197	197
Audubon	2	2	2	2	2	2	156	156	156	163	163	163
Benton	3	3	3	3	3	3	176	176	176	176	176	176
Black Hawk	11	11	11	11	11	11	1216	1231	1231	1231	1231	1231
Boone	5	5	5	5	5	5	468	484	484	484	484	484
Bremer	4	4	4	4	4	4	312	315	315	320	320	310
Buchanan	2	2	2	2	2	2	156	156	156	156	156	156
Buena Vista	5	5	5	5	5	5	323	328	328	328	328	328
Butler	6	6	6	6	6	6	315	301	301	296	296	296
Calhoun	4	4	4	4	4	4	256	266	266	271	280	280
Carroll	3	3	3	3	3	3	246	246	257	257	257	257
Cass	4	4	4	4	4	4	294	296	296	296	296	296
Cedar	4	4	4	4	4	4	240	240	240	240	240	240
Cerro Gordo	6	6	6	6	6	6	738	738	738	738	738	674
Cherokee	5	5	5	5	5	5	244	302	302	302	302	302
Chickasaw	3	3	3	3	3	3	216	220	220	220	200	200
Clarke	1	1	1	1	1	1	101	101	101	101	101	101
Clay	2	2	2	2	2	2	254	254	254	254	254	254
Clayton	4	4	4	4	4	4	292	292	292	292	287	287
Clinton	4	4	4	4	4	4	434	434	434	434	434	434
Crawford	3	3	3	3	3	3	225	225	225	225	225	225
Dallas	7	7	7	7	7	7	428	434	434	434	434	420
Davis	1	1	1	1	1	1	104	104	104	104	104	104
Decatur	2	2	3	3	3	3	142	142	203	203	203	203
Delaware	2	2	2	2	2	2	180	177	169	169	169	169
Des Moines	5	5	5	5	5	5	383	393	393	393	393	393
Dickinson	3	3	3	3	3	3	238	238	238	238	238	238
Dubuque	9	9	9	9	9	9	888	883	867	867	860	860
Emmet	3	3	3	3	3	3	243	251	251	251	251	251
Fayette	4	4	4	4	4	4	285	285	285	285	285	285
Floyd	5	5	5	5	5	5	325	335	335	335	335	335
Franklin	2	2	2	2	2	2	161	161	161	161	161	161
Fremont	2	2	2	2	2	2	183	183	183	183	183	183
Greene	1	1	1	1	1	1	93	93	93	93	93	93
Grundy	3	3	3	3	3	3	141	141	141	141	141	141
Guthrie	4	4	4	4	4	4	267	267	267	267	267	267
Hamilton	3	3	3	3	3	3	242	242	242	242	242	242
Hancock	3	3	3	3	3	3	189	189	189	189	189	177
Hardin	6	6	6	5	5	5	434	434	434	374	374	369
Harrison	4	4	4	4	4	4	370	358	358	336	336	336
Henry	5	5	5	5	5	5	265	283	283	283	279	279
Howard	4	4	4	4	4	3	224	224	224	224	224	200
Humboldt	2	2	2	2	2	2	150	150	150	150	150	150
Ida	3	3	3	3	3	3	193	193	193	193	193	193
Iowa	4	4	4	4	4	4	229	229	229	225	225	225
Jackson	3	3	3	3	3	3	235	235	235	235	235	235
Jasper	8	8	8	8	8	8	472	472	472	472	472	472

Table 2. Number of Licensed Nursing Facilities and Nursing Facility Beds in Iowa's Counties, 1994-1999  
(cont.).

County	Licensed Nursing Facilities						Licensed Nursing Facility Beds					
	1999	1998	1997	1996	1995	1994	1999	1998	1997	1996	1995	1994
Jefferson	2	2	2	2	2	2	175	175	175	175	175	175
Johnson	7	7	7	7	7	7	458	458	458	458	458	458
Jones	2	2	2	2	2	2	209	209	209	209	209	209
Keokuk	3	3	3	3	3	3	193	194	194	194	194	194
Kossuth	4	4	4	4	4	4	271	271	271	271	271	271
Lee	6	6	6	6	6	6	489	501	501	501	501	501
Linn	14	14	14	14	13	12	1205	1205	1205	1205	1189	1129
Louisa	3	3	3	3	3	3	174	174	174	174	174	174
Lucas	1	1	1	1	1	1	130	130	130	130	130	130
Lyon	4	4	4	4	4	4	216	216	216	216	216	216
Madison	4	4	4	4	4	4	248	248	248	248	248	248
Mahaska	3	3	3	3	3	4	192	192	192	192	192	295
Marion	3	3	3	3	3	3	230	230	230	230	230	230
Marshall	5	5	5	6	6	6	1096	1096	1096	1176	1176	1176
Mills	3	3	3	4	2	2	163	163	163	185	141	141
Mitchell	5	5	5	5	5	5	285	295	298	298	309	309
Monona	3	3	3	3	3	3	297	297	297	297	289	289
Monroe	2	2	2	2	2	2	154	154	154	154	154	154
Montgomery	4	4	4	4	4	4	296	296	296	296	304	288
Muscatine	5	5	5	5	5	5	491	491	491	491	474	474
O'Brien	5	5	5	5	5	5	254	263	263	261	261	261
Osceola	2	2	2	2	2	2	119	119	119	119	119	119
Page	4	4	4	4	4	4	319	319	331	331	331	331
Palo Alto	4	4	4	4	4	4	258	258	258	258	254	254
Plymouth	6	6	6	6	6	6	381	381	381	367	350	350
Pocahontas	4	4	4	4	4	4	189	189	189	204	204	204
Polk	27	28	28	28	28	27	2326	2540	2535	2550	2508	2448
Pottawattamie	7	7	7	7	7	7	674	674	674	674	663	651
Poweshiek	5	5	5	5	5	5	326	326	326	326	326	322
Ringgold	2	2	2	2	2	2	150	150	150	150	150	150
Sac	4	4	4	4	4	4	271	271	271	271	271	271
Scott	11	11	11	12	12	12	1114	1114	1119	1168	1168	1168
Shelby	3	3	3	3	3	3	229	232	232	232	232	232
Sioux	3	3	3	3	3	3	164	164	164	164	164	164
Story	7	7	7	7	7	7	497	518	518	518	518	518
Tama	5	5	5	5	5	5	369	369	369	369	369	369
Taylor	3	3	3	3	3	3	149	149	149	149	149	149
Union	3	3	3	3	3	3	186	192	203	203	205	205
Van Buren	1	1	1	1	1	1	75	75	75	75	75	75
Wapello	5	5	5	5	5	5	438	438	418	418	418	418
Warren	7	7	7	7	7	7	523	523	523	503	503	503
Washington	5	5	5	5	5	5	388	388	388	388	388	380
Wayne	2	2	2	2	2	2	130	130	130	130	130	130
Webster	7	7	7	7	7	7	726	726	726	726	726	712
Winnebago	3	3	3	3	3	3	223	223	223	223	223	223
Winneshiek	4	4	4	4	4	4	281	281	281	281	281	281
Woodbury	11	11	11	11	11	11	1093	1095	1095	1095	1077	1077
Worth	2	2	2	2	2	2	149	149	149	149	149	149
Wright	4	4	4	4	4	4	278	278	278	278	278	278
State of Iowa	428	429	430	432	429	427	33702	34111	34160	34231	34048	33848

declined in 26 counties over this period and 28 had gains. Gains of at least 50 nursing beds occurred in Cerro Gordo, Hardin, and Linn, while declines of that magnitude took place in Cherokee, Decatur, Mahaska, Marshall, Polk, and Scott. Nearly two-thirds (62) of the counties remained the same or noted changes in the number of licensed nursing beds of less than 10 in either direction from 1994 to 1999.

**Note:** Due to payment issues, beds located in hospitals that are maintained for nursing care are counted as hospital beds rather than as beds in nursing facilities.

## Public and Non-Public School Enrollment in Iowa's Counties: 1979, 1984, and 1989-1999

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The Iowa Department of Education gathers information on Iowa's primary and secondary public and non-public educational institutions. Each year, the department obtains the number of students enrolled in the month of September. Information on enrollment 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. Additional caution is merited because some districts have merged between 1979 and 1999 the years for which data are reported. That means the administrative headquarters, the location of which determines where students are counted, may have changed. Such changes will affect year-to-year comparisons.

### Enrollment in Public Schools

In 1999, 491,804 students were enrolled in public schools in Iowa (Table 1). This was 15,200 more than the 476,605 reported in 1989 but nearly 56,300 fewer than those enrolled in 1979. Declines occurred annually from 1979 through 1988; slight gains took place each year from 1988 to 1996, although small decreases then returned through 1999 (Figure 1).

Forty-five counties had more students in public schools in 1999 than 10 years earlier; six (Dallas, Johnson, Linn, Polk, Pottawattamie, Story) had at least 1,000 more. Black Hawk was the only county with a comparable decline.

### Enrollment in Non-Public Schools

A total of 42,291 non-public school students were enrolled in Iowa in 1999 (Table 2). This was down more than 5,500 from the 47,959 reported in 1989 and nearly 11,400 below the 1979 figure. In only two year-to-year comparisons during this period were there slight increases; there were 180 more non-public school students in 1988 than in 1987 and 99 more in 1993 than in 1992 (Figure 1).

Some counties had no students enrolled in non-public schools according to reports from the Iowa Department of Education. That does not necessarily mean that some students of non-public schools do not live in these counties; they could, but the location of the administrative headquarters could be in another county. It also could be that a school did not file an enrollment report.

Of the 65 counties with non-public school students in both 1989 and in 1999, 16 had increases among these students, 48 had decreases, and one was the same both years. Gains ranged from less than 50 in 12 counties to 100 or more in three (Buena Vista, Johnson, Linn). Declines had a much greater range; 18 counties had decreases among non-public school students that were less than 50, but 16 dropped by more than 100. The greatest decrease occurred in Dubuque (-1,069); Black Hawk also reported a decline greater than 500.

Table 1. Public School Enrollment in Iowa's Counties, 1979, 1984, and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	1098	1214	1253	1259	1281	1273	1226	1252	1184	1188	1148	1249	1428
Adams	748	727	733	736	754	768	755	728	770	773	767	791	937
Allamakee	2650	2750	2773	2767	2767	2832	2776	2774	2762	2744	2770	2891	3496
Appanoose	2336	2343	2427	2478	2492	2460	2461	2524	2518	2502	2485	2542	2925
Audubon	1105	1137	1146	1162	1191	1178	1204	1237	1211	1211	1184	1327	1562
Benton	4244	4302	4273	4305	4172	4117	4121	4362	4322	4325	4297	4330	5039
Black Hawk	17656	17948	18317	18283	18445	18518	18449	18143	18625	18791	18710	20094	22616
Boone	4178	4153	4142	4218	4212	4123	4136	4099	4043	3992	3934	3912	4350
Bremer	5153	5308	5309	5677	5812	5815	5812	5774	5699	5594	5675	6129	6856
Buchanan	3189	3273	3302	3383	3422	3431	3410	3446	3382	3424	3353	3357	3878
Buena Vista	3905	3842	3892	3843	3897	3912	3898	3432	3445	3312	3130	3077	3350
Butler	2057	2097	2124	2170	2465	2670	2643	2656	2667	2769	2741	2918	3373
Calhoun	2472	2532	2571	2612	2639	2755	2698	2609	2602	2460	2465	2580	3070
Carroll	3340	3447	3371	3406	3239	3255	3313	3295	3179	3069	2926	2674	3012
Cass	2981	3048	3110	3180	3233	3230	3188	3194	3261	3236	3238	3248	3645
Cedar	3634	3647	3670	3672	3659	3629	3588	3674	3640	3671	3597	3677	4145
Cerro Gordo	7024	7183	7287	7413	7437	7408	7357	7321	7349	7320	7282	7294	7978
Cherokee	2235	2311	2318	2369	2737	2809	3082	2810	2794	2791	2767	2922	3333
Chickasaw	2511	2567	2626	2389	2392	2355	2352	2346	2339	2367	2359	2613	3155
Clarke	1857	1834	1782	1793	1789	1755	1713	1753	1745	1722	1634	1600	1677
Clay	2818	2886	2970	2986	3046	3057	3071	3458	3450	3419	3392	3349	3651
Clayton	3518	3579	3711	3724	3743	3760	3740	3737	3769	3780	3785	3912	4363
Clinton	8721	8822	8901	8951	9062	9186	9276	9365	9418	9325	9359	9950	11609
Crawford	2619	2611	2678	2621	2660	2751	2928	2956	3210	3243	3279	3622	3920
Dallas	8331	8074	8021	7757	7589	7250	7060	6887	6776	6627	6417	6134	6569
Davis	1221	1221	1251	1310	1319	1360	1388	1410	1423	1398	1365	1514	1608
Decatur	1545	1436	1420	1385	1385	1444	1342	1442	1460	1480	1458	1558	1763
Delaware	3584	3679	3793	3812	3811	3737	3754	3679	3608	3581	3453	3434	3976
Des Moines	7191	7091	7304	7482	7503	7615	7643	7645	7715	7762	7750	7789	8932
Dickinson	2838	2850	2844	2895	2856	2852	2747	2790	2771	2807	2804	2825	2957
Dubuque	12445	12254	12391	12520	12481	12367	12380	12063	11893	11869	12019	12643	15118
Emmet	1922	2027	2036	2083	2224	2248	2260	2247	2271	2278	2324	2655	2778
Fayette	4390	4376	4385	4421	4453	4514	4470	4481	4440	4449	4396	4853	5829
Floyd	2968	3011	3094	3136	3112	3185	3171	3224	3207	3174	3142	3510	4159
Franklin	1875	1911	1999	2165	2046	1905	1862	1968	1941	1985	1856	1819	2043
Fremont	1600	1621	1612	1650	1673	1679	1696	1692	1704	1688	1672	1804	1820
Greene	2067	2078	2024	2026	2004	1992	1975	1949	1996	1905	1887	2063	2451
Grundy	2543	2488	2974	3019	2752	2747	2727	2740	2261	2223	2267	2571	3008
Guthrie	2234	2331	2325	2326	2330	2347	2425	2411	2453	2477	2424	2660	2980
Hamilton	2974	2999	2990	3029	3072	3095	3050	3074	3088	3099	3184	3176	3691
Hancock	2049	2055	2103	2129	2070	2086	2320	2332	2397	2393	2352	2365	2726
Hardin	3410	3489	3541	3656	3672	3707	3714	3707	4022	3956	3956	4230	4846
Harrison	3408	3390	3381	3345	3349	3327	3010	3063	3032	3016	2926	3208	3604
Henry	3823	3863	3844	3773	3822	3950	3904	3960	3861	4161	3668	3585	3754
Howard	2028	2083	2158	2162	2246	2286	2191	2168	2143	2119	2063	2101	2638
Humboldt	1904	1920	1925	1923	1934	1936	1940	1916	1948	1912	1899	1991	2405
Ida	1434	1484	1546	1553	1578	1628	1750	1644	1585	1580	1569	1395	1588
Iowa	2835	2876	2785	2748	2716	3085	2991	2973	2913	2828	2635	2651	3230
Jackson	3547	3557	3590	3659	3655	3680	3732	3725	3675	3621	3588	3998	4597
Jasper	6375	6438	6329	6418	6365	6318	6492	6411	6439	6344	6338	6456	7208

Table 1. Public School Enrollment in Iowa's Counties, 1979, 1984, and 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	2137	2197	2145	2134	2137	2030	2011	2014	2102	1977	1976	2246	2656
Johnson	13413	12994	12992	12787	12695	11985	11911	11654	11388	11070	10953	10140	10562
Jones	3391	3411	3482	3513	3523	3562	3523	3337	3211	3214	3304	3517	4046
Keokuk	2355	2384	2446	2471	2488	2445	2440	2399	2437	2447	2436	2450	2720
Kossuth	2528	2623	2694	2748	2712	2707	2727	2685	2679	2702	2649	2754	3260
Lee	6114	6189	6224	6341	6462	6536	6565	6540	6533	6380	6287	6483	7274
Linn	32448	32091	31895	31612	30981	30622	29881	29409	28745	28410	28424	29960	34363
Louisa	2965	2837	2925	2987	2992	2882	2848	2824	2720	2803	2852	2817	3150
Lucas	1546	1550	1620	1632	1581	1594	1620	1580	1583	1574	1607	1678	1855
Lyon	2088	2086	2190	2233	2279	2318	2293	2262	2256	2264	2276	2206	2586
Madison	2935	3011	2919	2893	2867	2842	2795	2845	2847	2813	2846	2835	3039
Mahaska	3335	3331	3326	3400	3305	3370	3321	3367	3286	3294	3273	3323	3326
Marion	5867	5833	5809	5773	5682	5608	5442	5462	5468	5424	5332	5382	5658
Marshall	6636	6560	6519	6529	6575	6482	6373	6414	6721	6816	6751	7124	8222
Mills	2729	2721	2749	2703	2641	2548	2619	2656	2586	2577	2573	2632	2580
Mitchell	1839	1858	1889	1917	1883	1894	1881	1839	1819	1810	1807	1816	2220
Monona	1603	1683	1712	1782	1818	1795	1826	1826	1858	1832	1825	1914	2209
Monroe	1293	1363	1369	1328	1366	1386	1364	1404	1376	1358	1364	1433	1586
Montgomery	2097	2089	2155	2153	2125	2127	2141	2137	2219	2165	2169	2253	2376
Muscatine	7459	7418	7499	7661	7600	7834	7740	7865	7842	7689	7602	7508	7984
O'Brien	2770	2865	2943	3023	3060	3013	2971	2969	2930	2926	2835	2774	3066
Osceola	1022	1069	1067	1053	1046	1038	995	1019	984	955	935	971	1218
Page	2903	3019	3120	3215	3014	3076	3090	3098	3161	3201	3208	3196	3348
Palo Alto	1885	1943	1999	2012	2044	2064	2100	2079	2076	2048	2035	2087	2569
Plymouth	4490	4565	4521	4549	4582	4454	4431	4364	4322	4182	4081	3888	4370
Pocahontas	1323	1372	1383	1390	1402	1381	1350	1670	1665	1798	1668	1802	2164
Polk	60511	60070	59685	58705	58132	57034	55975	55288	53999	53727	52029	51062	55945
Pottawattamie	16890	16835	16797	16950	16456	16100	16095	16065	16113	15931	15667	16054	18223
Poweshiek	3072	3078	3192	3247	3265	3188	3151	3090	3102	3011	3019	3153	3586
Ringgold	899	943	968	1002	1016	1047	1018	1006	1037	1020	1059	1065	1179
Sac	2230	2270	2294	2336	2341	2394	2378	2402	2401	2478	2426	2381	2741
Scott	27650	27873	27800	28225	28126	28117	29535	28508	28422	27841	27703	30002	32732
Shelby	2606	2516	2578	2577	2770	2719	2704	2598	2486	2425	2349	2572	3092
Sioux	4293	4343	4362	4426	4398	4374	4358	4281	3888	4018	3895	3684	4177
Story	11099	11024	11048	11005	11084	11023	10910	11097	10506	10166	9973	9502	10466
Tama	3399	3419	2994	2991	3004	3060	3074	3507	3305	3279	3354	3536	4097
Taylor	1300	1325	1325	1335	1346	1326	1314	1291	1338	1368	1410	1510	1618
Union	2098	2226	2217	2231	2216	2258	2350	2321	2392	2375	2452	2568	2723
Van Buren	1364	1429	1475	1453	1456	1495	1478	1449	1431	1419	1419	1531	1748
Wapello	6329	6383	6486	6519	6510	6575	6614	6683	6667	6544	6537	7306	8028
Warren	7656	7607	7664	7639	7663	7666	7568	7312	7261	7127	6941	6956	7443
Washington	3530	3523	3575	3533	3465	3580	3501	3455	3495	3455	3373	3447	3793
Wayne	1144	1148	1198	1256	1265	1217	1202	1249	1280	1247	1206	1307	1417
Webster	5855	5830	6034	6209	6042	6057	6099	6052	6069	6130	6093	6359	7646
Winnebago	2812	2848	2829	2900	2990	2966	2920	2892	2860	2901	2844	2744	3158
Winneshiek	2722	2774	2861	2877	2863	2868	2870	2780	2725	2663	2605	2540	2973
Woodbury	18481	18388	18692	18562	18226	18081	17880	18030	18203	17661	17618	16953	18325
Worth	1165	1194	1180	1175	1192	1230	1201	1237	1217	1137	1131	1296	1508
Wright	2938	2968	3100	3128	3137	3184	2876	2813	2818	2759	2745	2910	3402
State of Iowa	491804	493239	496297	497899	496386	494539	492520	489670	486235	482171	476605	488673	548073

Table 2. Non-Public School Enrollment in Iowa's Counties, 1979, 1984 and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	0	0	0	0	0	0	0	0	0	0	0	0	0
Adams	0	0	0	0	0	0	0	0	0	0	0	0	0
Allamakee	185	162	171	177	188	191	175	194	197	187	183	214	177
Appanoose	88	70	65	64	65	68	66	57	54	89	88	106	105
Audubon	0	0	0	0	0	0	0	0	0	0	0	0	0
Benton	110	114	115	123	130	128	128	132	123	161	152	144	154
Black Hawk	3048	3115	3160	3252	3363	3272	3674	3727	3731	3832	3715	3827	3855
Boone	230	224	249	273	270	251	245	242	252	277	306	338	249
Bremer	212	208	224	226	240	244	252	247	263	375	376	322	385
Buchanan	283	260	259	258	273	292	267	245	267	252	260	390	426
Buena Vista	403	430	458	462	448	444	440	346	327	335	295	367	375
Butler	0	0	0	0	0	0	0	0	0	0	0	0	0
Calhoun	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrroll	1446	1499	1549	1629	1743	1778	1814	1807	1848	1862	1884	2075	2576
Cass	0	0	0	0	0	0	0	0	0	0	0	0	0
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	28
Cerro Gordo	854	725	725	741	730	769	779	823	793	773	813	757	701
Cherokee	0	0	0	0	0	0	0	0	0	0	0	0	0
Chickasaw	202	183	171	170	155	159	139	156	165	166	177	206	236
Clarke	0	0	0	0	0	0	0	0	0	0	0	0	0
Clay	170	158	165	152	132	130	127	144	153	152	155	189	188
Clayton	145	151	156	154	157	147	154	155	162	160	164	179	223
Clinton	515	516	515	509	501	519	521	534	545	570	569	939	1008
Crawford	250	269	282	286	316	354	335	326	310	354	351	403	436
Dallas	235	237	224	232	209	190	171	169	177	277	294	236	224
Davis	0	0	0	0	0	0	0	0	0	0	0	0	0
Decatur	0	0	0	0	0	0	0	0	0	0	0	0	0
Delaware	303	293	317	305	311	323	338	337	341	322	333	280	281
Des Moines	459	477	475	473	462	459	463	415	396	403	368	451	488
Dickinson	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubuque	5503	5555	5632	5737	5882	5969	6024	6172	6357	6148	6572	7506	9176
Emmet	23	28	48	26	28	33	36	37	45	48	22	0	0
Fayette	252	254	301	297	304	304	289	297	292	306	335	344	358
Floyd	189	182	188	198	186	180	185	200	210	244	262	250	257
Franklin	58	52	50	50	50	42	47	47	44	59	52	39	31
Fremont	0	0	0	0	0	0	0	0	0	0	0	0	0
Greene	0	0	0	0	0	0	0	0	0	0	0	0	0
Grundy	58	54	44	49	59	59	42	55	61	74	74	69	41
Guthrie	0	0	0	0	0	0	0	0	0	0	0	0	0
Hamilton	118	117	124	127	120	104	102	113	83	84	97	93	115
Hancock	31	55	56	52	57	55	57	62	70	75	74	69	79
Hardin	0	0	0	0	0	0	0	0	0	0	0	0	14
Harrison	54	59	57	61	52	49	49	54	45	56	65	73	57
Henry	0	0	0	0	0	0	0	0	0	0	0	0	0
Howard	181	179	164	160	142	142	143	174	214	263	262	287	320
Humboldt	143	183	207	208	215	214	204	184	181	170	132	152	119
Ida	0	0	0	0	0	0	0	0	0	0	0	0	0
Iowa	182	202	207	215	215	216	197	199	196	222	218	236	229
Jackson	511	523	534	557	564	567	533	540	549	559	595	642	606
Jasper	200	200	201	200	203	193	181	179	200	212	221	234	220



Table 2. Non-Public School Enrollment in Iowa's Counties, 1979, 1984 and 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	209	234	265	310	314	366	651	415	418	0	575	262	0
Johnson	879	845	819	802	806	808	764	756	720	766	633	586	669
Jones	214	208	221	211	192	216	223	214	218	242	225	268	303
Keokuk	0	0	0	0	0	0	0	0	0	0	0	0	115
Kossuth	785	791	814	824	840	857	846	904	956	934	967	1218	1484
Lee	884	935	970	985	978	989	986	966	966	1053	1079	1350	1420
Linn	3075	3050	2986	2942	2903	2896	3013	2977	2953	3089	2973	3277	3472
Louisa	0	0	0	0	0	0	0	0	0	0	0	0	0
Lucas	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyon	122	125	132	144	130	129	132	145	126	125	156	186	182
Madison	0	0	0	0	0	0	0	0	0	0	0	0	0
Mahaska	150	146	158	158	164	179	195	202	208	220	211	190	184
Marion	722	726	755	793	814	845	847	847	831	838	826	784	751
Marshall	317	333	354	362	349	366	343	359	377	375	383	383	289
Mills	0	0	0	0	0	0	0	0	0	0	0	0	0
Mitchell	122	141	157	161	172	176	171	177	190	195	201	240	292
Monona	52	53	58	69	70	61	75	76	72	79	68	88	97
Monroe	0	0	0	0	0	0	0	0	0	0	0	0	0
Montgomery	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscatine	184	186	180	213	219	198	216	197	230	223	223	272	234
O'Brien	394	405	396	418	437	460	485	487	508	548	573	516	547
Osceola	39	40	37	40	37	45	49	53	55	57	73	103	114
Page	105	93	95	99	94	97	81	89	87	87	91	107	60
Palo Alto	196	190	198	222	236	235	255	259	261	279	276	275	270
Plymouth	948	990	999	1030	1019	1013	994	992	982	1001	1014	1058	1131
Pocahontas	93	93	102	110	124	115	103	194	189	181	175	148	197
Polk	4896	4959	4912	5012	4922	4731	4614	4588	4946	5197	5091	5714	5620
Pottawattamie	1024	1018	1004	1045	995	976	949	939	913	991	1023	922	942
Poweshiek	14	17	17	14	11	10	11	13	22	35	21	8	0
Ringgold	0	0	0	0	0	0	0	0	0	0	0	0	0
Sac	0	0	0	0	0	0	0	0	0	0	54	68	66
Scott	2846	2926	2987	2982	2913	2869	2786	2736	2691	2880	2999	2728	2899
Shelby	269	303	310	317	308	308	327	339	339	319	323	347	429
Sioux	2585	2676	2717	2867	2871	2905	2946	2853	2892	2809	2869	2608	2506
Story	181	184	182	173	163	173	183	168	167	182	197	185	185
Tama	0	0	0	0	0	0	0	0	0	0	0	0	0
Taylor	0	0	0	0	0	0	0	0	0	0	0	0	0
Union	124	113	112	104	108	116	118	114	123	128	130	96	108
Van Buren	0	0	0	0	0	0	0	0	0	0	0	0	0
Wapello	131	138	148	137	138	136	142	129	120	136	142	107	107
Warren	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	269	271	274	289	292	292	264	279	272	299	307	295	276
Wayne	0	0	0	0	0	0	0	0	0	0	0	0	0
Webster	1043	1051	1104	1087	1145	1200	1225	1184	1166	1238	1260	1385	1545
Winnebago	17	15	19	17	20	19	22	19	17	16	13	12	12
Winneshiek	434	424	424	433	441	465	486	517	529	605	558	537	541
Woodbury	2327	2398	2437	2519	2568	2656	2662	2686	2678	2730	2786	2928	2882
Worth	0	0	0	0	0	0	0	0	0	0	0	0	0
Wright	0	0	0	0	0	0	0	0	0	0	0	0	0
State of Iowa	42291	42811	43436	44312	44563	44752	45341	45242	45873	46924	47959	50668	53666

Table 3. Total (Public and Non-Public) School Enrollment in Iowa's Counties, 1979, 1984, and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Adair	1098	1214	1253	1259	1281	1273	1226	1252	1184	1188	1148	1249	1428
Adams	748	727	733	736	754	768	755	728	770	773	767	791	937
Allamakee	2835	2912	2944	2944	2955	3023	2951	2968	2959	2931	2953	3105	3673
Appanoose	2424	2413	2492	2542	2557	2528	2527	2581	2572	2591	2573	2648	3030
Audubon	1105	1137	1146	1162	1191	1178	1204	1237	1211	1211	1184	1327	1562
Benton	4354	4416	4388	4428	4302	4245	4249	4494	4445	4486	4449	4474	5193
Black Hawk	20704	21063	21477	21535	21808	21790	22123	21870	22356	22623	22425	23921	26471
Boone	4408	4377	4391	4491	4482	4374	4381	4341	4295	4269	4240	4250	4599
Bremer	5365	5516	5533	5903	6052	6059	6064	6021	5962	5969	6051	6451	7241
Buchanan	3472	3533	3561	3641	3695	3723	3677	3691	3649	3676	3613	3747	4304
Buena Vista	4308	4272	4350	4305	4345	4356	4338	3778	3772	3647	3425	3444	3725
Butler	2057	2097	2124	2170	2465	2670	2643	2656	2667	2769	2741	2918	3373
Calhoun	2472	2532	2571	2612	2639	2755	2698	2609	2602	2460	2465	2580	3070
Carroll	4786	4946	4920	5035	4982	5033	5127	5102	5027	4931	4810	4749	5588
Cass	2981	3048	3110	3180	3233	3230	3188	3194	3261	3236	3238	3248	3645
Cedar	3634	3647	3670	3672	3659	3629	3588	3674	3640	3671	3597	3677	4173
Cerro Gordo	7878	7908	8012	8154	8167	8177	8136	8144	8142	8093	8095	8051	8679
Cherokee	2235	2311	2318	2369	2737	2809	3082	2810	2794	2791	2767	2922	3333
Chickasaw	2713	2750	2797	2559	2547	2514	2491	2502	2504	2533	2536	2819	3391
Clarke	1857	1834	1782	1793	1789	1755	1713	1753	1745	1722	1634	1600	1677
Clay	2988	3044	3135	3138	3178	3187	3198	3602	3603	3571	3547	3538	3839
Clayton	3663	3730	3867	3878	3900	3907	3894	3892	3931	3940	3949	4091	4586
Clinton	9236	9338	9416	9460	9563	9705	9797	9899	9963	9895	9928	10889	12617
Crawford	2869	2880	2960	2907	2976	3105	3263	3282	3520	3597	3630	4025	4356
Dallas	8566	8311	8245	7989	7798	7440	7231	7056	6953	6904	6711	6370	6793
Davis	1221	1221	1251	1310	1319	1360	1388	1410	1423	1398	1365	1514	1608
Decatur	1545	1436	1420	1385	1385	1444	1342	1442	1460	1480	1458	1558	1763
Delaware	3887	3972	4110	4117	4122	4060	4092	4016	3949	3903	3786	3714	4257
Des Moines	7650	7568	7779	7955	7965	8074	8106	8060	8111	8165	8118	8240	9420
Dickinson	2838	2850	2844	2895	2856	2852	2747	2790	2771	2807	2804	2825	2957
Dubuque	17948	17809	18023	18257	18363	18336	18404	18235	18250	18017	18591	20149	24294
Emmet	1945	2055	2084	2109	2252	2281	2296	2284	2316	2326	2346	2655	2778
Fayette	4642	4630	4686	4718	4757	4818	4759	4778	4732	4755	4731	5197	6187
Floyd	3157	3193	3282	3334	3298	3365	3356	3424	3417	3418	3404	3760	4416
Franklin	1933	1963	2049	2215	2096	1947	1909	2015	1985	2044	1908	1858	2074
Fremont	1600	1621	1612	1650	1673	1679	1696	1692	1704	1688	1672	1804	1820
Greene	2067	2078	2024	2026	2004	1992	1975	1949	1996	1905	1887	2063	2451
Grundy	2601	2542	3018	3068	2811	2806	2769	2795	2322	2297	2341	2640	3049
Guthrie	2234	2331	2325	2326	2330	2347	2425	2411	2453	2477	2424	2660	2980
Hamilton	3092	3116	3114	3156	3192	3199	3152	3187	3171	3183	3281	3269	3806
Hancock	2080	2110	2159	2181	2127	2141	2377	2394	2467	2468	2426	2434	2805
Hardin	3410	3489	3541	3656	3672	3707	3714	3707	4022	3956	3956	4230	4860
Harrison	3462	3449	3438	3406	3401	3376	3059	3117	3077	3072	2991	3281	3661
Henry	3823	3863	3844	3773	3822	3950	3904	3960	3861	4161	3668	3585	3754
Howard	2209	2262	2322	2322	2388	2428	2334	2342	2357	2382	2325	2388	2958
Humboldt	2047	2103	2132	2131	2149	2150	2144	2100	2129	2082	2031	2143	2524
Ida	1434	1484	1546	1553	1578	1628	1750	1644	1585	1580	1569	1395	1588
Iowa	3017	3078	2992	2963	2931	3301	3188	3172	3109	3050	2853	2887	3459
Jackson	4058	4080	4124	4216	4219	4247	4265	4265	4224	4180	4183	4640	5203
Jasper	6575	6638	6530	6618	6568	6511	6673	6590	6639	6556	6559	6690	7428

Table 3. Total (Public and Non-Public) School Enrollment in Iowa's Counties, 1979, 1984, and 1989-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984	1979
Jefferson	2346	2431	2410	2444	2451	2396	2662	2429	2520	1977	2551	2508	2656
Johnson	14292	13839	13811	13589	13501	12793	12675	12410	12108	11836	11586	10726	11231
Jones	3605	3619	3703	3724	3715	3778	3746	3551	3429	3456	3529	3785	4349
Keokuk	2355	2384	2446	2471	2488	2445	2440	2399	2437	2447	2436	2450	2835
Kossuth	3313	3414	3508	3572	3552	3564	3573	3589	3635	3636	3616	3972	4744
Lee	6998	7124	7194	7326	7440	7525	7551	7506	7499	7433	7366	7833	8694
Linn	35523	35141	34881	34554	33884	33518	32894	32386	31698	31499	31397	33237	37835
Louisa	2965	2837	2925	2987	2992	2882	2848	2824	2720	2803	2852	2817	3150
Lucas	1546	1550	1620	1632	1581	1594	1620	1580	1583	1574	1607	1678	1855
Lyon	2210	2211	2322	2377	2409	2447	2425	2407	2382	2389	2432	2392	2768
Madison	2935	3011	2919	2893	2867	2842	2795	2845	2847	2813	2846	2835	3039
Mahaska	3485	3477	3484	3558	3469	3549	3516	3569	3494	3514	3484	3513	3510
Marion	6589	6559	6564	6566	6496	6453	6289	6309	6299	6262	6158	6166	6409
Marshall	6953	6893	6873	6891	6924	6848	6716	6773	7098	7191	7134	7507	8511
Mills	2729	2721	2749	2703	2641	2548	2619	2656	2586	2577	2573	2632	2580
Mitchell	1961	1999	2046	2078	2055	2070	2052	2016	2009	2005	2008	2056	2512
Monona	1655	1736	1770	1851	1888	1856	1901	1902	1930	1911	1893	2002	2306
Monroe	1293	1363	1369	1328	1366	1386	1364	1404	1376	1358	1364	1433	1586
Montgomery	2097	2089	2155	2153	2125	2127	2141	2137	2219	2165	2169	2253	2376
Muscatine	7643	7604	7679	7874	7819	8032	7956	8062	8072	7912	7825	7780	8218
O'Brien	3164	3270	3339	3441	3497	3473	3456	3456	3438	3474	3408	3290	3613
Osceola	1061	1109	1104	1093	1083	1083	1044	1072	1039	1012	1008	1074	1332
Page	3008	3112	3215	3314	3108	3173	3171	3187	3248	3288	3299	3303	3408
Palo Alto	2081	2133	2197	2234	2280	2299	2355	2338	2337	2327	2311	2362	2839
Plymouth	5438	5555	5520	5579	5601	5467	5425	5356	5304	5183	5095	4946	5501
Pocahontas	1416	1465	1485	1500	1526	1496	1453	1864	1854	1979	1843	1950	2361
Polk	65407	65029	64597	63717	63054	61765	60589	59876	58945	58924	57120	56776	61565
Pottawattamie	17914	17853	17801	17995	17451	17076	17044	17004	17026	16922	16690	16976	19165
Poweshiek	3086	3095	3209	3261	3276	3198	3162	3103	3124	3046	3040	3161	3586
Ringgold	899	943	968	1002	1016	1047	1018	1006	1037	1020	1059	1065	1179
Sac	2230	2270	2294	2336	2341	2394	2378	2402	2401	2478	2480	2449	2807
Scott	30496	30799	30787	31207	31039	30986	32321	31244	31113	30721	30702	32730	35631
Shelby	2875	2819	2888	2894	3078	3027	3031	2937	2825	2744	2672	2919	3521
Sioux	6878	7019	7079	7293	7269	7279	7304	7134	6780	6827	6764	6292	6683
Story	11280	11208	11230	11178	11247	11196	11093	11265	10673	10348	10170	9687	10651
Tama	3399	3419	2994	2991	3004	3060	3074	3507	3305	3279	3354	3536	4097
Taylor	1300	1325	1325	1335	1346	1326	1314	1291	1338	1368	1410	1510	1618
Union	2222	2339	2329	2335	2324	2374	2468	2435	2515	2503	2582	2664	2831
Van Buren	1364	1429	1475	1453	1456	1495	1478	1449	1431	1419	1419	1531	1748
Wapello	6460	6521	6634	6656	6648	6711	6756	6812	6787	6680	6679	7413	8135
Warren	7656	7607	7664	7639	7663	7666	7568	7312	7261	7127	6941	6956	7443
Washington	3799	3794	3849	3822	3757	3872	3765	3734	3767	3754	3680	3742	4069
Wayne	1144	1148	1198	1256	1265	1217	1202	1249	1280	1247	1206	1307	1417
Webster	6898	6881	7138	7296	7187	7257	7324	7236	7235	7368	7353	7744	9191
Winnebago	2829	2863	2848	2917	3010	2985	2942	2911	2877	2917	2857	2756	3170
Winneshiek	3156	3198	3285	3310	3304	3333	3356	3297	3254	3268	3163	3077	3514
Woodbury	20808	20786	21129	21081	20794	20737	20542	20716	20881	20391	20404	19881	21207
Worth	1165	1194	1180	1175	1192	1230	1201	1237	1217	1137	1131	1296	1508
Wright	2938	2968	3100	3128	3137	3184	2876	2813	2818	2759	2745	2910	3402
State of Iowa	534095	536050	539733	542211	540949	539291	537861	534912	532108	529095	524564	539341	601739

**Total School Enrollment**

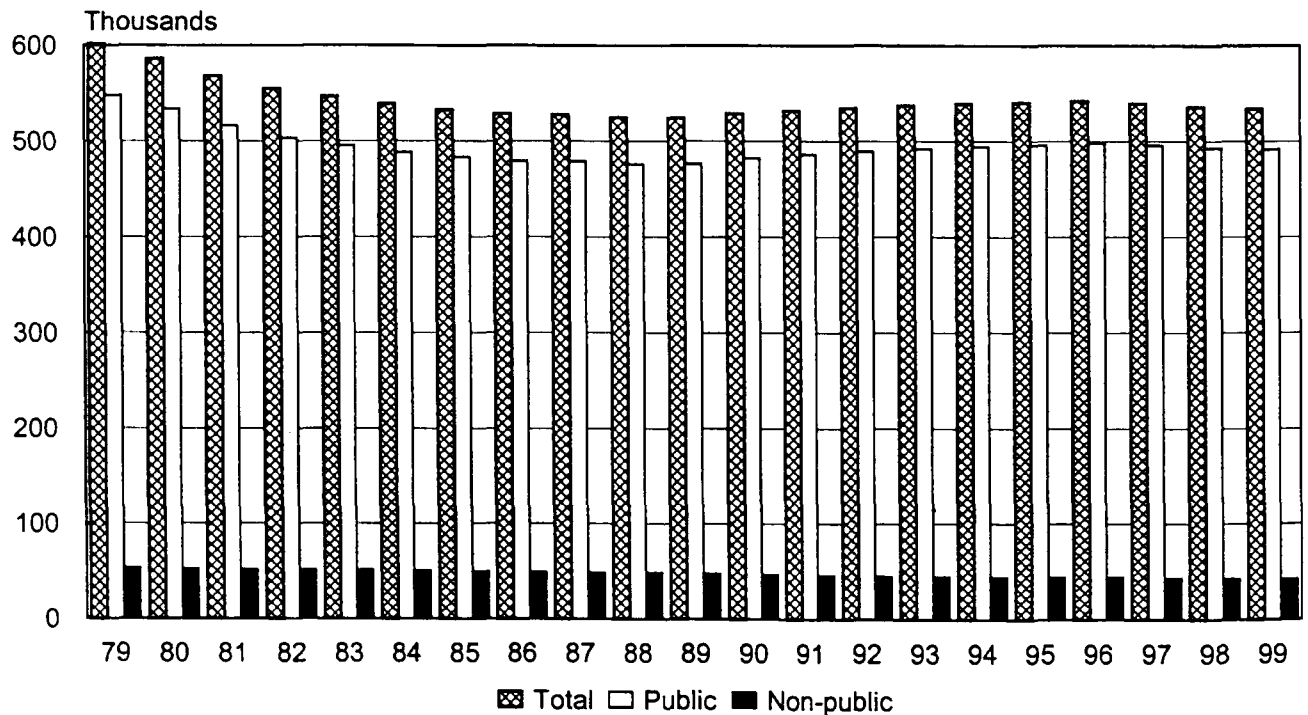
When the public and non-public figures are added, total enrollment was 9,500 students higher in 1999 than in 1989; the drop of 62,400 between 1979 and 1989 was much greater than the 1989-1999 gain, however (Table 3). Increases in total student numbers occurred from 1989 to 1996 but decreases took place earlier in the 1980s and again from 1996 to 1999.

In 1999, nine counties (Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, Story, Woodbury) each had more than 10,000 students; together, they had 43.9 percent of the state's total enrollees. Twenty-one counties had fewer than 2,000 students, although only Adams and Ringgold were below 1,000.

The total number of students increased in 40 counties when 1989 and 1999 were compared. Six of these (Dallas, Johnson, Linn, Polk, Pottawattamie, Story) reported at least 1,000 more students at the end of the period than at the beginning. Declines among total students were more common; 43 of the 59 counties with fewer students in 1999 than in 1989 dropped by at least 100. Black Hawk was the only county with a decline of at least 1,000.

**Note:** These data are from the Basic Educational Data Survey (BEDS) for September of each year. Additional information is available from the Bureau of Planning, Research, and Evaluation in the Iowa Department of Education (Grimes State Office Building, Des Moines, IA 50319).

**Figure 1. Public and non-public school enrollment, 1979–1999.**



## Projections of Public School Enrollment in Iowa's Counties: 2000-2001 – 2004-2005

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The Iowa Department of Education projects K-12 enrollment in Iowa's public schools five years into the future. This projection is based on the certified enrollment of previous years plus information on births. Enrollment 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. Some school districts may merge in the future. That means the administrative headquarters, the location of which determines where students are counted, may change. Such changes will affect projections, thus suggesting that caution be taken in interpreting these numbers.

It is projected that the number of students in Iowa will decrease slightly from the 1999-2000 school year to that for 2000-2001 (Table 1). Then the numbers may continue to decline to 2004-2005. The change from 1999-2000 to 2004-2005 would be a decrease of about 10,000 or 2.0 percent.

Eighteen counties are projected to have more students in the 2004-2005 school year than in 1999-2000, with Dallas, Linn, and Polk each gaining more than 1,000. Other gains are predicted to be rather small, with 8 under 100 and the remaining 7 varying from about 100 to 600. These increases would be less than 2 percent in 8 counties, although they could be 10 percent or more in Dallas and Louisa.

Among the 81 counties that may have fewer students in 2004-2005 than in 1999-2000, declines greater than 500 could occur in Black Hawk, Clinton, Pottawattamie, Scott, and Webster. In 17 others, decreases are predicted to be less than 100. Percentage declines (-0.2% to -14.6%) are projected to have a range comparable to that for percentage gains (+0.7% to +18.4%). Forty-eight of the 81 counties predicted to have declines in the numbers of students could have drops of at least 5 percent. Sixteen of these 48 could decrease by at least 10 percent (Figure 1).

Caution is urged in examining and interpreting these figures. Changes of various types could occur that would alter these figures. Such changes would be less likely to affect projections for the state as a whole than for individual counties, where specific factors related to projections are more difficult to predict.

**Note:** Certified enrollment figures are collected at a different point in the school year than the Basic Educational Data Survey (BEDS), which is conducted in September of each year. Thus, the certified numbers reported for 1995-1996 through 1999-2000 differ slightly from the BEDS counts for that year reported in the previous section of this volume. Additional information is available from the Bureau of Planning, Research, and Evaluation in the Iowa Department of Education (Grimes State Office Building, Des Moines, IA 50319).

Table 1. Certified Enrollment (1995-2000) and Projected Enrollment (2000-2005) of K-12 Public School Students in Iowa's Counties.

County	Certified Enrollment					Projected Enrollment				
	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
Adair	1311	1292	1264	1257	1213	1216	1222	1209	1193	1159
Adams	790	779	770	747	761	774	762	769	757	752
Allamakee	2855	2875	2889	2865	2773	2732	2705	2668	2636	2587
Appanoose	2530	2522	2444	2414	2327	2265	2255	2248	2225	2196
Audubon	1206	1201	1205	1185	1134	1159	1166	1149	1136	1112
Benton	4400	4542	4553	4589	4498	4468	4429	4351	4257	4210
Black Hawk	18610	18439	18425	18208	17921	18185	17998	17801	17525	17397
Boone	4375	4408	4388	4351	4415	4421	4418	4459	4473	4476
Bremer	5492	5383	5354	5327	5132	5068	5017	4971	4951	4901
Buchanan	3442	3374	3331	3308	3245	3168	3068	2992	2905	2853
Buena Vista	3952	3896	3961	3956	3908	3856	3841	3844	3824	3806
Butler	2238	2203	2175	2147	2098	2056	2023	1979	1943	1917
Calhoun	2696	2657	2588	2543	2501	2452	2398	2375	2351	2332
Carroll	3289	3472	3482	3505	3469	3503	3481	3428	3390	3354
Cass	3280	3238	3155	3098	3013	2939	2846	2772	2712	2670
Cedar	3693	3710	3746	3699	3686	3637	3634	3617	3610	3598
Cerro Gordo	7424	7445	7330	7258	7069	7077	6946	6921	6778	6632
Cherokee	2487	2412	2431	2373	2288	2219	2155	2082	2006	1955
Chickasaw	2738	2722	2669	2595	2525	2490	2423	2381	2321	2243
Clarke	1796	1805	1800	1827	1826	1815	1815	1809	1789	1795
Clay	3113	3079	3057	2954	2904	2853	2763	2674	2602	2536
Clayton	3800	3742	3735	3631	3530	3445	3375	3269	3174	3120
Clinton	9332	9193	9114	9061	8969	8898	8792	8648	8501	8398
Crawford	2748	2730	2806	2704	2714	2720	2685	2660	2638	2625
Dallas	7766	7923	8194	8281	8490	8749	9037	9374	9694	10055
Davis	1379	1385	1323	1290	1277	1292	1266	1246	1257	1241
Decatur	1491	1484	1513	1504	1439	1465	1491	1514	1523	1530
Delaware	3821	3816	3788	3683	3595	3560	3436	3352	3255	3201
Des Moines	7627	7576	7508	7379	7201	7078	6951	6909	6796	6738
Dickinson	2934	2966	2948	2941	2887	2864	2856	2834	2853	2880
Dubuque	12817	12835	12744	12606	12414	12277	12370	12496	12617	12501
Emmet	2230	2159	2158	2138	2016	1969	1910	1879	1864	1835
Fayette	4519	4506	4527	4452	4454	4431	4388	4334	4286	4247
Floyd	3124	3149	3119	3042	2991	2931	2874	2837	2792	2739
Franklin	2089	2104	2067	2033	1977	1948	1934	1901	1907	1894
Fremont	1724	1689	1684	1666	1648	1640	1615	1576	1544	1545
Greene	2027	2033	2078	2092	2093	2045	1994	1953	1921	1897
Grundy	2632	2649	2581	2559	2563	2556	2502	2461	2430	2431
Guthrie	2392	2391	2389	2367	2249	2205	2148	2114	2080	2061
Hamilton	3202	3136	3111	3078	3045	3016	2983	2956	2929	2917
Hancock	2132	2153	2126	2047	2019	1950	1896	1834	1784	1753
Hardin	3718	3675	3583	3504	3422	3367	3343	3346	3274	3223
Harrison	3397	3431	3418	3406	3386	3329	3315	3277	3240	3222
Henry	3827	3834	3799	3793	3802	3818	3827	3815	3760	3752
Howard	2249	2208	2173	2123	2050	2023	2004	1974	1963	1917
Humboldt	1966	1958	1960	1969	1923	1920	1895	1848	1843	1820
Ida	1564	1572	1574	1509	1453	1421	1388	1337	1317	1275
Iowa	2864	2909	2928	2976	2989	3032	3059	3128	3125	3119
Jackson	3603	3607	3531	3516	3495	3432	3386	3322	3243	3196
Jasper	6458	6455	6422	6499	6423	6548	6528	6514	6551	6535

Table 1. Certified Enrollment (1995-2000) and Projected Enrollment (2000-2005) of K-12 Public School Students in Iowa's Counties (continued).

County	Certified Enrollment					Projected Enrollment				
	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
Jefferson	2189	2199	2165	2180	2151	2154	2136	2121	2100	2068
Johnson	12899	12994	13190	13214	13307	13297	13287	13132	13056	13064
Jones	3716	3720	3677	3610	3617	3603	3583	3578	3554	3495
Keokuk	2513	2485	2497	2436	2381	2361	2356	2357	2339	2349
Kossuth	2786	2825	2791	2758	2587	2524	2429	2356	2280	2223
Lee	6618	6511	6457	6387	6260	6166	6061	5952	5882	5775
Linn	31205	31813	32041	32531	32829	32836	33208	33502	33764	34024
Louisa	3103	3073	3073	2988	3051	3088	3156	3200	3295	3384
Lucas	1621	1670	1646	1624	1560	1552	1554	1562	1578	1587
Lyon	2313	2296	2236	2174	2155	2111	2080	2039	2008	1985
Madison	2917	2940	2969	3038	2982	2991	2987	3007	3015	3036
Mahaska	3517	3567	3544	3470	3458	3471	3468	3468	3431	3417
Marion	5814	5855	5930	5929	5877	5951	5938	6016	5980	6004
Marshall	6769	6724	6749	6701	6810	6957	7008	7122	7152	7188
Mills	2694	2727	2788	2792	2784	2813	2872	2933	2961	3021
Mitchell	1905	1923	1892	1871	1872	1876	1855	1869	1868	1837
Monona	1851	1860	1856	1820	1790	1759	1724	1697	1684	1658
Monroe	1397	1369	1394	1410	1389	1361	1334	1307	1289	1263
Montgomery	2208	2215	2237	2183	2177	2155	2159	2147	2120	2084
Muscatine	7839	7848	7749	7728	7689	7704	7683	7641	7536	7499
O'Brien	3133	3146	3039	2930	2806	2767	2726	2701	2659	2627
Osceola	1019	1023	1020	994	961	943	924	907	875	851
Page	3090	3046	2963	2892	2818	2815	2784	2782	2716	2685
Palo Alto	2018	1999	1985	1931	1857	1836	1755	1706	1678	1609
Plymouth	4512	4546	4509	4607	4482	4493	4509	4488	4502	4517
Pocahontas	1409	1402	1409	1398	1360	1341	1297	1261	1216	1172
Polk	59182	59566	60225	60857	61381	62239	62595	62972	63286	63632
Pottawattamie	16810	16887	16958	16873	16817	17018	16832	16529	16211	16076
Poweshiek	3273	3226	3222	3112	3119	3113	3069	3046	3010	2951
Ringgold	1045	1090	1065	1047	989	979	960	958	957	964
Sac	2426	2405	2373	2308	2261	2181	2139	2104	2065	2023
Scott	28339	28383	28482	28175	28165	27944	27715	27414	27032	26751
Shelby	2571	2637	2583	2602	2577	2563	2528	2474	2434	2420
Sioux	4327	4353	4270	4293	4248	4229	4177	4160	4123	4131
Story	10958	10998	11005	11045	10975	10744	10678	10636	10605	10535
Tama	3531	3557	3565	3531	3500	3510	3501	3516	3527	3543
Taylor	1472	1445	1458	1424	1369	1334	1314	1300	1294	1283
Union	2263	2240	2257	2205	2103	2043	2002	1970	1931	1906
Van Buren	1534	1506	1542	1505	1462	1440	1407	1397	1371	1359
Wapello	6577	6592	6551	6488	6434	6456	6404	6381	6339	6305
Warren	7755	7732	7753	7751	7733	7717	7654	7617	7625	7621
Washington	3578	3678	3691	3662	3640	3664	3668	3716	3705	3707
Wayne	1284	1271	1254	1228	1166	1168	1151	1136	1091	1044
Webster	6196	6326	6073	5896	5838	5793	5670	5521	5401	5335
Winnebago	2966	2944	2910	2899	2884	2868	2846	2836	2799	2750
Winneshiek	2854	2851	2841	2800	2724	2707	2612	2580	2507	2445
Woodbury	18956	18946	18969	18875	18733	18809	18858	19033	19195	19315
Worth	1211	1211	1214	1214	1169	1163	1142	1117	1091	1060
Wright	3199	3184	3151	3096	3041	3003	2969	2950	2920	2863
State of Iowa	504505	505523	505130	502534	498556	497887	495372	493416	490599	488584





## **Ethnicity of K-12 Students in Iowa's Counties: 1979, 1984, 1989, and 1994-1999**

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The Iowa Department of Education gathers information about the race and Hispanic Origin of students enrolled in public and private primary and secondary schools each year in September. Information on enrollment 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. Additional caution is merited because some districts have merged between 1979 and 1999, the years for which data are reported. That means the administrative headquarters, the location of which determines where students are counted, may have changed. Such changes will affect year-to-year comparisons. As yet another caution, data for 1984 and 1989 include some pre-kindergarten students.

The Department of Education lists a student in one of five categories: American Indian, Asian American, black, Hispanic, or white. In this report, the numbers of American Indians, Asian Americans, blacks, and Hispanics are summed at times and referred to as minority enrollees.

### **Total and Majority K-12 School Enrollees**

Students in Iowa's schools numbered 534,095 in September of 1999 or 1.5 percent higher than in 1989. While 1999 enrollment was higher than 10 years earlier, it was 1,955 lower than that of 1998. Students listed as white totaled 487,022 in 1999 (Table 1). White enrollees declined by nearly 12,000 (-2.4%) from 1989 to 1999. They constituted 91.2 percent of all K-12 students in 1999, which was a decrease from 94.8 percent in 1989.

Seventy counties had fewer white enrollees in 1999 than in 1989; declines of 1,000 or more occurred in Black Hawk, Crawford, Dubuque, Marshall, Scott, and Woodbury. Gains of at least 1,000 occurred in Dallas, Johnson, Linn, and Polk. Changes among white enrollees ranged from losses of 10.0 percent or more in 27 counties to gains greater than 10.0 percent in Clarke, Dallas, Harrison, and Johnson. Caution is urged in examining change; for example, mergers between districts between 1989 and 1999 could have caused the administrative headquarters to change from one county to another for some students, thus increasing the numbers in one and decreasing them in another.

### **Minority K-12 School Enrollees**

Nearly 47,100 minority students were enrolled in Iowa's schools in 1999. Unlike white students, minority students increased across all years reported in Table 1. In the 1989-1999 period, minority students increased more than 19,600 (71.4%), in strong contrast to the decrease experienced among white students in those years. Minorities constituted 8.8 percent of school enrollees in 1999, up from 5.2 percent in 1989 (Table 2).

Although all counties had at least one minority student in 1999, 10 counted fewer than 25 (Table 1). Nineteen had at least 500 minority enrollees, with more than 5,000 in Polk and Scott. Ten years earlier in 1989, 36 counties reported fewer than 25 minority students and only 10 exceeded 500.

Table 1. Numbers of K-12 Students in Selected Ethnic Groups in Iowa's Counties, 1979, 1984, 1989, 1994-1999.

County	American Indian K-12 Students									Asian American K-12 Students									Black K-12 Students								
	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979
Adair	0	0	0	0	0	2	0	0	1	7	9	9	7	8	10	6	10	0	0	1	0	0	0	0	1	3	0
Adams	0	0	0	0	0	0	0	0	0	1	4	2	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0
Allamakee	7	5	0	1	1	0	5	1	4	16	24	20	19	22	20	10	4	6	11	10	6	7	7	7	3	2	3
Appanoose	6	4	6	7	3	1	0	0	1	23	16	12	15	9	8	11	16	17	30	34	37	31	24	18	16	23	32
Audubon	1	5	6	3	4	5	0	0	0	8	6	5	3	8	8	0	9	2	3	4	2	4	2	2	1	1	0
Benton	14	3	12	5	0	4	5	6	3	23	22	18	19	18	15	11	12	10	22	21	22	18	14	6	6	4	5
Black Hawk	59	62	57	57	59	51	30	32	41	310	307	331	341	314	343	332	289	159	3102	3054	3153	3031	2985	2934	2710	2542	2556
Boone	25	6	7	11	7	7	2	2	5	36	27	30	40	40	32	18	36	32	21	16	14	19	14	12	6	9	5
Bremer	2	3	4	6	7	13	2	6	5	30	33	41	39	33	37	35	36	34	26	34	21	24	18	17	10	12	8
Buchanan	10	2	1	0	3	2	0	1	2	26	25	22	19	23	28	8	10	11	20	17	20	10	10	8	6	2	4
Buena Vista	1	1	0	2	1	3	0	0	0	278	285	258	221	211	199	118	48	17	34	35	43	32	28	17	18	9	4
Butler	0	0	0	3	2	3	0	1	2	19	17	18	16	14	13	8	7	3	2	2	3	2	2	9	3	3	0
Calhoun	7	5	7	5	3	4	3	2	2	14	18	10	12	12	13	8	8	14	5	5	6	4	7	2	3	1	0
Carroll	2	12	6	5	2	5	1	5	7	18	25	24	19	17	13	12	7	12	16	12	14	10	9	5	2	2	4
Cass	8	4	8	11	5	11	2	6	3	21	17	13	15	21	15	13	6	17	16	17	21	18	19	20	4	10	5
Cedar	4	7	9	5	1	1	0	0	0	16	15	19	17	19	18	20	11	22	15	12	17	13	12	9	6	5	6
Cerro Gordo	12	8	11	10	5	7	3	1	1	127	101	112	95	96	86	88	78	72	152	125	117	119	115	105	71	71	80
Cherokee	2	5	4	7	5	6	1	2	2	13	21	14	11	19	11	6	8	4	10	15	8	16	22	25	15	6	4
Chickasaw	1	6	5	2	4	1	0	0	0	22	21	18	13	10	10	3	5	3	8	10	10	15	11	8	3	1	2
Clarke	3	2	3	4	3	3	0	0	1	13	14	6	6	8	13	11	11	6	1	2	2	2	2	5	1	3	1
Clay	2	5	7	6	7	9	5	7	8	60	51	51	46	40	38	28	42	19	12	10	9	11	10	10	1	2	0
Clayton	12	11	8	12	9	9	7	0	13	11	13	16	10	8	11	15	7	17	16	13	15	12	10	8	13	6	1
Clinton	18	15	20	25	20	18	15	8	17	85	72	69	82	80	92	76	73	66	343	319	300	294	283	264	199	160	158
Crawford	10	9	11	2	2	4	8	0	0	38	30	37	31	33	26	30	34	28	6	6	12	13	9	10	7	9	3
Dallas	12	5	12	8	9	15	4	4	5	86	71	68	58	57	55	30	37	21	82	74	63	61	44	29	15	28	11
Davis	6	2	0	0	0	0	1	0	0	4	8	3	3	7	7	4	7	3	4	1	0	0	0	0	1	6	6
Decatur	2	5	2	6	3	4	3	2	2	13	7	11	8	11	6	9	11	18	10	12	14	15	6	3	3	3	1
Delaware	8	16	16	8	7	4	6	2	1	18	20	22	22	22	17	15	9	3	10	8	9	6	4	3	6	1	3
Des Moines	29	40	26	35	37	24	12	6	26	99	86	87	82	80	82	77	68	57	578	463	441	478	487	461	395	334	331
Dickinson	4	2	3	0	0	0	1	2	3	16	15	14	20	31	19	14	7	0	6	11	5	8	8	3	14	7	2
Dubuque	36	42	41	41	47	38	6	19	11	155	157	146	146	155	155	85	85	66	290	249	232	233	216	201	77	62	56
Emmet	1	3	4	3	4	5	4	8	6	10	12	11	12	13	13	13	19	21	4	5	5	4	6	7	8	3	5
Fayette	5	3	3	3	0	0	2	1	4	31	31	30	35	28	22	21	11	8	23	24	21	14	17	18	6	5	5

Table 1. Numbers of K-12 Students in Selected Ethnic Groups in Iowa's Counties, 1979, 1984, 1989, 1994-1999 (continued).

County	American Indian K-12 Students									Asian American K-12 Students									Black K-12 Students								
	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979
Floyd	2	2	0	1	2	3	1	1	1	28	27	16	14	18	23	32	16	18	11	14	15	9	10	12	6	11	1
Franklin	2	2	3	3	4	4	1	1	2	12	3	3	6	4	3	3	1	27	7	4	3	5	5	0	2	2	3
Fremont	1	2	0	1	0	0	0	6	11	1	1	0	4	2	2	0	1	1	5	0	2	1	0	0	0	0	1
Greene	1	2	2	2	1	0	0	3	2	15	21	18	10	17	17	16	16	20	5	9	7	9	4	3	4	1	0
Grundy	7	8	10	7	8	5	0	1	0	21	26	30	29	26	19	3	15	9	10	8	6	8	5	4	5	3	1
Guthrie	0	0	0	0	0	1	3	2	0	12	17	14	8	8	8	5	5	2	8	11	6	5	2	1	7	1	0
Hamilton	5	11	13	9	5	4	0	0	1	71	74	57	45	46	42	41	22	13	20	10	14	13	10	10	5	3	1
Hancock	0	0	1	0	0	1	0	0	0	14	16	19	11	8	8	12	4	6	4	6	1	2	3	4	1	0	0
Hardin	11	10	8	13	10	5	8	2	5	29	32	18	21	15	17	13	15	18	24	23	26	16	12	14	9	5	6
Harrison	3	3	1	7	7	7	6	6	1	12	12	13	10	13	9	7	4	3	11	5	4	9	8	4	4	1	2
Henry	7	7	3	2	2	1	2	0	0	97	109	99	81	70	68	64	56	36	48	31	44	32	30	33	8	10	13
Howard	0	0	1	0	0	2	0	0	0	13	15	14	14	15	14	11	10	3	8	3	2	2	2	1	0	0	0
Humboldt	1	0	1	1	2	1	0	1	4	3	3	4	3	4	5	10	6	8	4	5	6	4	7	5	1	9	11
Ida	7	5	4	5	3	0	0	0	0	9	7	2	9	5	8	4	0	3	9	9	5	6	8	2	2	1	0
Iowa	3	3	4	5	3	5	2	1	3	14	18	24	25	21	19	15	27	19	19	8	11	7	6	8	3	0	0
Jackson	3	1	1	3	3	2	1	0	1	13	13	11	9	12	8	9	11	5	23	22	23	18	12	8	4	3	1
Jasper	13	6	6	5	8	6	3	1	3	39	59	45	59	61	54	69	73	38	32	38	31	32	22	20	15	13	11
Jefferson	6	1	2	1	2	4	0	0	0	52	46	39	37	35	29	34	24	14	24	23	12	11	14	18	19	18	12
Johnson	59	58	68	62	56	53	40	28	16	642	615	572	545	557	543	420	348	221	847	718	663	624	520	473	349	235	174
Jones	16	8	4	6	2	0	1	0	1	26	19	28	26	18	15	10	3	0	36	26	29	19	15	13	3	5	2
Keokuk	2	3	3	0	1	0	2	0	0	16	9	9	9	7	9	13	7	11	7	6	8	8	4	4	0	2	0
Kossuth	7	7	1	1	0	1	1	4	3	26	24	28	30	31	23	27	14	6	17	11	13	8	7	8	6	3	2
Lee	16	20	22	21	13	11	2	5	11	63	74	70	70	68	64	51	54	47	282	271	271	250	251	273	252	228	222
Linn	127	126	113	117	126	116	68	44	48	638	632	627	593	599	551	433	410	216	1749	1753	1627	1503	1405	1360	1029	917	824
Louisa	14	6	5	7	10	6	0	0	2	9	7	7	13	12	15	11	12	2	14	9	8	4	49	6	17	2	0
Lucas	0	2	1	2	0	0	4	0	1	7	6	6	10	3	8	8	0	5	12	4	3	3	6	4	4	3	0
Lyon	5	3	1	4	7	4	2	1	7	4	2	5	8	11	8	23	19	14	8	10	2	12	6	8	4	2	2
Madison	2	3	4	3	0	0	6	4	4	10	11	9	10	8	9	8	10	4	7	6	5	6	5	6	2	4	1
Mahaska	20	5	4	5	1	4	4	3	4	53	51	49	41	46	52	71	64	55	23	14	16	15	15	15	6	2	4
Marion	14	8	6	2	3	3	1	1	4	131	135	138	109	102	108	99	90	63	45	39	31	25	19	22	13	20	17
Marshall	22	23	21	30	37	32	16	10	13	114	111	106	100	102	97	109	98	66	120	112	108	88	89	106	64	66	69
Mills	4	16	3	4	2	0	1	0	0	27	18	13	12	8	7	3	0	4	13	11	9	11	6	7	2	1	0
Mitchell	0	0	0	0	0	0	0	3	0	7	11	19	16	15	17	9	8	1	2	3	0	0	0	0	0	2	0

Table 1. Numbers of K-12 Students in Selected Ethnic Groups in Iowa's Counties, 1979, 1984, 1989, 1994-1999 (continued).

County	American Indian K-12 Students									Asian American K-12 Students									Black K-12 Students								
	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979
Monona	22	19	14	14	15	4	0	2	1	6	3	2	2	3	4	1	1	0	1	0	1	0	1	6	0	0	0
Monroe	2	4	1	0	0	0	2	3	2	16	20	18	17	20	19	23	1	2	9	7	9	8	8	8	5	4	4
Montgomery	2	4	3	0	0	1	1	0	4	2	3	7	5	4	4	3	4	3	0	1	3	3	2	2	1	2	3
Muscatine	19	15	17	13	11	5	3	14	5	123	128	123	122	109	111	115	79	50	86	69	69	88	88	92	60	47	45
O'Brien	11	7	7	10	4	7	1	1	0	35	31	28	24	21	14	17	24	7	18	9	6	7	4	3	7	4	2
Osceola	2	5	5	5	8	5	3	1	0	3	5	5	5	2	6	6	2	1	12	6	8	9	7	7	0	0	1
Page	11	8	6	6	2	5	2	1	2	30	50	33	37	19	24	17	10	15	59	66	88	137	16	14	16	10	2
Palo Alto	5	6	4	5	3	3	1	3	0	12	12	8	16	11	11	10	5	1	15	13	8	9	7	5	3	0	3
Plymouth	14	24	13	12	8	10	1	1	1	51	37	43	41	45	34	14	14	13	32	31	32	32	22	13	8	3	4
Pocahontas	2	3	3	4	2	1	0	0	1	9	16	18	16	14	12	11	2	0	13	6	2	8	3	2	1	1	0
Polk	292	298	312	290	263	254	133	139	240	2228	2188	2183	2244	2224	2186	1743	1646	1004	5292	5157	5098	4931	4775	4535	3719	3760	3810
Pottawattamie	83	60	119	85	86	93	69	66	62	107	95	105	114	91	96	72	77	97	225	215	185	174	144	168	122	106	138
Poweshiek	9	10	10	15	8	8	3	3	2	41	42	43	41	42	41	52	36	25	27	25	33	27	26	26	8	3	7
Ringgold	0	0	0	0	0	0	0	0	0	5	6	4	4	5	4	13	5	4	2	0	2	1	1	1	2	2	1
Sac	0	2	0	0	6	0	0	0	0	4	3	4	2	1	1	5	9	6	10	9	8	4	3	1	1	1	1
Scott	280	287	328	271	260	219	135	84	90	627	647	576	645	572	558	472	389	257	3410	3232	3188	3182	3120	3072	2844	2547	2110
Shelby	3	8	5	5	9	2	1	1	4	13	14	15	14	13	15	15	14	25	6	8	10	4	6	1	3	5	3
Sioux	24	22	20	19	12	14	8	5	17	60	53	49	55	49	55	56	68	16	31	18	22	20	13	16	4	6	9
Story	36	23	26	29	28	36	19	12	13	496	477	493	458	443	471	455	338	139	288	265	264	248	253	236	152	129	126
Tama	238	204	208	200	188	170	250	167	231	20	21	22	17	18	18	30	28	21	16	17	18	19	15	9	6	3	4
Taylor	0	0	0	1	0	0	0	2	0	10	13	18	13	11	7	11	8	2	3	5	4	11	4	4	4	0	0
Union	6	5	6	3	6	2	0	3	0	7	12	10	10	8	4	15	21	11	13	16	17	11	8	6	2	1	2
Van Buren	2	1	2	1	1	2	0	0	0	7	8	7	8	2	3	8	11	7	7	2	3	2	0	2	2	0	0
Wapello	37	37	25	17	25	12	4	1	2	94	96	91	92	71	67	49	30	29	97	90	106	85	90	85	86	86	71
Warren	11	16	16	10	10	11	8	8	288	60	60	55	46	45	51	49	43	19	49	47	50	36	42	41	34	20	30
Washington	5	0	2	0	0	1	3	4	0	18	21	16	21	18	19	18	21	15	46	44	44	51	51	51	18	3	7
Wayne	0	0	1	0	0	1	0	0	0	3	3	4	11	4	10	10	9	3	0	5	9	8	6	3	1	1	1
Webster	18	14	17	12	11	10	7	13	3	112	105	86	83	82	64	49	56	56	369	343	331	344	309	315	298	299	269
Winnebago	6	9	7	10	14	11	4	7	0	25	24	33	29	28	27	28	31	23	11	18	13	13	6	4	7	5	2
Winneshiek	3	2	2	1	1	1	1	2	2	36	37	33	33	32	36	31	28	27	6	11	20	9	8	7	4	12	20
Woodbury	708	689	693	630	670	626	499	403	427	713	703	652	652	608	580	355	209	82	849	770	733	664	690	685	562	394	310
Worth	1	1	7	7	4	0	0	1	1	5	4	4	3	1	1	1	10	8	8	6	7	4	6	3	3	2	1
Wright	0	0	0	1	2	0	1	5	4	19	20	19	17	24	13	15	26	23	16	18	20	13	7	7	7	8	2
State of Iowa	2541	2432	2495	2298	2235	2054	1462	1204	1726	8872	8761	8466	8367	8076	7880	6547	5719	3718	19358	18372	18064	17451	16699	16108	13466	12372	11669

Table 1. Numbers of K-12 Students in Selected Ethnic Groups in Iowa's Counties, 1979, 1984, 1989, 1994-1999 (continued).

County	Hispanic K-12 Students									Total Minority K-12 Students									White K-12 Students								
	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979
Adair	2	3	4	3	3	5	2	0	1	9	13	13	10	11	17	9	13	2	1089	1201	1240	1249	1270	1256	1144	1238	1426
Adams	1	1	4	0	0	0	0	0	0	2	5	6	1	2	0	0	0	1	746	722	727	735	752	768	767	791	936
Allamakee	33	31	20	6	8	6	11	1	4	67	70	46	33	38	33	29	8	17	2768	2842	2898	2911	2917	2990	2924	3099	3656
Appanoose	25	20	14	7	6	8	4	3	7	84	74	69	60	42	35	31	42	57	2340	2339	2423	2482	2515	2493	2545	2606	2973
Audubon	1	3	4	0	1	3	0	3	3	13	18	17	10	15	18	1	13	5	1092	1119	1129	1152	1176	1160	1183	1316	1557
Benton	12	18	18	15	16	8	15	9	4	71	64	70	57	48	33	37	31	22	4283	4352	4318	4371	4254	4212	4423	4446	5171
Black Hawk	418	339	295	287	244	208	122	109	86	3889	3762	3836	3716	3602	3536	3194	2972	2842	16815	17301	17641	17819	18206	18254	19294	21032	23629
Boone	21	21	32	25	14	8	11	7	4	103	70	83	95	75	59	37	54	46	4305	4307	4308	4396	4407	4315	4213	4205	4553
Bremer	15	17	17	15	20	20	4	4	2	73	87	83	84	78	87	51	58	49	5292	5429	5450	5819	5974	5972	6009	6422	7192
Buchanan	16	15	8	9	17	16	8	2	1	72	59	51	38	53	54	22	15	18	3400	3474	3510	3603	3642	3669	3596	3737	4286
Buena Vista	589	478	408	337	272	167	8	3	5	902	799	709	592	512	386	144	60	26	3406	3473	3641	3713	3833	3970	3281	3404	3699
Butler	0	3	5	4	4	2	0	6	3	21	22	26	25	22	27	11	17	8	2036	2075	2098	2145	2443	2643	2732	2902	3365
Calhoun	8	19	8	13	6	12	2	0	2	34	47	31	34	28	31	16	11	18	2438	2485	2540	2578	2611	2724	2451	2570	3052
Carroll	21	31	36	22	11	9	23	1	1	57	80	80	56	39	32	38	15	24	4729	4866	4840	4979	4943	5001	4784	4745	5564
Cass	15	14	5	11	17	12	7	4	4	60	52	47	55	62	58	26	26	29	2921	2996	3063	3125	3171	3172	3226	3232	3616
Cedar	18	19	26	27	30	22	15	6	5	53	53	71	62	62	50	41	22	33	3581	3594	3599	3610	3597	3579	3565	3662	4140
Cerro Gordo	314	268	265	278	275	241	199	186	216	605	502	505	502	491	439	361	336	369	7273	7406	7507	7652	7676	7738	7782	7752	8310
Cherokee	11	19	10	11	11	15	6	0	1	36	60	36	45	57	57	28	16	11	2199	2251	2282	2324	2680	2752	2743	2915	3322
Chickasaw	20	22	25	10	9	5	4	0	2	51	59	58	40	34	24	10	6	7	2662	2691	2739	2519	2513	2490	2526	2822	3384
Clarke	49	23	11	4	5	6	5	2	8	66	41	22	16	18	27	17	16	16	1791	1793	1760	1777	1771	1728	1624	1594	1661
Clay	20	13	18	13	8	7	4	5	10	94	79	85	76	65	64	38	56	37	2894	2965	3050	3062	3113	3123	3528	3502	3802
Clayton	8	11	7	7	4	9	17	11	9	47	48	46	41	31	37	52	24	40	3616	3682	3821	3837	3869	3870	3906	4068	4546
Clinton	107	101	92	88	83	83	51	63	25	553	507	481	489	466	457	341	304	266	8683	8831	8935	8971	9097	9248	9623	10623	12351
Crawford	232	156	115	65	41	23	10	18	14	286	201	175	111	85	63	55	61	45	2583	2679	2785	2796	2891	3042	3583	3977	4311
Dallas	461	364	327	247	212	142	21	14	4	641	514	470	374	322	241	70	83	41	7925	7797	7775	7615	7476	7199	6659	6287	6752
Davis	3	6	3	1	1	0	1	5	6	17	17	6	4	8	7	7	18	15	1204	1204	1245	1306	1311	1353	1377	1496	1593
Decatur	20	15	16	3	12	5	8	6	13	45	39	43	32	32	18	23	22	34	1500	1397	1377	1353	1353	1426	1440	1547	1729
Delaware	19	19	22	22	14	19	5	0	4	55	63	69	58	47	43	32	12	11	3832	3909	4041	4059	4075	4017	3762	3714	4246
Des Moines	147	136	131	163	127	124	113	77	104	853	725	685	758	731	691	597	485	518	6797	6843	7094	7197	7234	7383	7574	7864	8902
Dickinson	17	9	12	16	14	10	8	2	1	43	37	34	44	53	32	37	18	6	2795	2813	2810	2851	2803	2820	2783	2819	2951
Dubuque	119	122	95	97	96	90	49	39	37	600	570	514	517	514	484	217	205	170	17348	17239	17509	17740	17849	17852	18436	20019	24124
Emmet	111	115	88	83	89	79	17	25	11	126	135	108	102	112	104	42	55	43	1819	1920	1976	2007	2140	2177	2305	2608	2735
Fayette	63	50	47	44	42	48	22	28	42	122	108	101	96	87	88	51	45	59	4520	4522	4585	4622	4670	4730	4705	5167	6128

Table 1. Numbers of K-12 Students in Selected Ethnic Groups in Iowa's Counties, 1979, 1984, 1989, 1994-1999 (continued).

County	Hispanic K-12 Students									Total Minority K-12 Students									White K-12 Students								
	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979
Floyd	29	32	18	27	33	33	17	9	15	70	75	49	51	63	71	56	37	35	3087	3118	3233	3283	3235	3294	3354	3732	4381
Franklin	126	122	141	204	121	105	28	20	1	147	131	150	218	134	112	34	24	33	1786	1832	1899	1997	1962	1835	1874	1834	2041
Fremont	11	6	15	14	12	19	11	14	6	18	9	17	20	14	21	11	21	19	1582	1612	1595	1630	1659	1658	1663	1789	1801
Greene	38	47	21	22	13	9	3	1	5	59	79	48	43	35	29	23	21	27	2008	1999	1976	1983	1969	1963	1864	2042	2424
Grundy	33	23	21	11	14	22	2	2	2	71	65	67	55	53	50	10	21	12	2530	2477	2951	3013	2758	2756	2332	2622	3037
Guthrie	5	6	11	11	7	8	8	7	1	25	34	31	24	17	18	23	15	3	2209	2297	2294	2302	2313	2329	2406	2646	2977
Hamilton	33	33	42	43	41	39	34	22	26	129	128	126	110	102	95	80	47	41	2963	2988	2988	3046	3090	3104	3229	3233	3765
Hancock	45	44	48	26	22	24	26	10	18	63	66	69	39	33	37	39	14	24	2017	2044	2090	2142	2094	2104	2391	2420	2781
Hardin	109	114	108	82	76	86	34	7	11	173	179	160	132	113	122	64	29	40	3237	3310	3381	3524	3559	3585	3909	4226	4820
Harrison	26	14	9	2	8	5	6	1	3	52	34	27	28	36	25	23	12	9	3410	3415	3411	3378	3365	3351	2979	3279	3652
Henry	62	41	40	31	42	26	14	11	9	214	188	186	146	144	128	88	77	58	3609	3675	3658	3627	3678	3822	3591	3516	3696
Howard	6	4	6	3	5	7	4	2	1	27	22	23	19	22	24	15	12	4	2182	2240	2299	2303	2366	2404	2310	2376	2954
Humboldt	20	7	9	4	2	1	5	6	2	28	15	21	12	15	12	16	22	25	2019	2088	2111	2119	2134	2138	2015	2122	2499
Ia	3	1	1	2	1	0	2	1	0	28	22	12	22	17	10	8	2	3	1406	1462	1534	1531	1561	1618	1566	1401	1585
Iowa	73	76	74	58	54	46	11	11	11	109	105	113	95	84	78	31	39	33	2908	2973	2879	2868	2847	3223	2831	2862	3426
Jackson	13	13	11	14	10	7	3	3	4	52	49	46	44	37	25	17	17	11	4006	4031	4078	4172	4182	4222	4185	4636	5192
Jasper	33	39	50	38	33	38	28	20	5	117	142	132	134	124	118	115	107	57	6458	6496	6398	6484	6444	6393	6481	6599	7371
Jefferson	37	40	34	30	33	28	17	4	3	119	110	87	79	84	79	70	46	29	2227	2321	2323	2365	2367	2317	2489	2471	2627
Johnson	391	347	343	342	334	308	173	152	99	1939	1738	1646	1573	1467	1377	982	763	510	12353	12101	12165	12016	12034	11416	10634	9987	10721
Jones	20	16	9	12	6	13	0	3	0	98	69	70	63	41	41	14	11	3	3507	3550	3633	3661	3674	3737	3538	3783	4346
Keokuk	10	10	11	9	7	6	2	2	1	35	28	31	26	19	19	17	11	12	2320	2356	2415	2445	2469	2426	2420	2456	2823
Kossuth	43	45	47	49	32	25	18	13	16	93	87	89	88	70	57	52	34	27	3220	3327	3419	3484	3482	3507	3577	3954	4717
Lee	161	155	172	178	165	176	170	152	155	522	520	535	519	497	524	475	439	435	6476	6604	6659	6807	6943	7001	6932	7429	8259
Linn	499	493	473	442	414	388	266	243	198	3013	3004	2840	2655	2544	2415	1796	1614	1286	32510	32137	32041	31899	31340	31103	29695	31730	36549
Louisa	574	484	434	439	343	309	146	75	93	611	506	454	463	414	336	174	89	97	2354	2331	2471	2524	2578	2546	2685	2741	3053
Lucas	10	13	14	9	8	8	2	3	0	29	25	24	24	17	20	18	6	6	1517	1525	1596	1608	1564	1574	1595	1680	1849
Lyon	12	7	5	6	7	4	1	0	0	29	22	13	30	31	24	30	22	23	2181	2189	2309	2347	2378	2423	2406	2379	2745
Madison	12	18	11	13	4	9	10	2	15	31	38	29	32	17	24	26	20	24	2904	2973	2890	2861	2850	2818	2826	2815	3015
Mahaska	33	25	11	9	13	13	9	8	9	129	95	80	70	75	84	90	77	72	3356	3382	3404	3488	3394	3465	3394	3436	3438
Marion	44	38	32	28	28	32	16	20	6	234	220	207	164	152	165	129	131	90	6355	6339	6357	6402	6344	6288	6043	6035	6319
Marshall	856	663	560	448	350	257	54	53	57	1112	909	795	666	578	492	243	227	205	5841	5984	6078	6225	6346	6356	6940	7395	8306
Mills	40	40	30	23	15	6	8	4	3	84	85	55	50	31	20	14	5	7	2645	2636	2694	2653	2610	2528	2566	2644	2573
Mitchell	7	6	2	3	2	1	5	4	8	16	20	21	19	17	18	14	17	9	1945	1979	2025	2059	2038	2052	2001	2039	2503

Table 1. Numbers of K-12 Students in Selected Ethnic Groups in Iowa's Counties, 1979, 1984, 1989, 1994-1999 (continued).

County	Hispanic K-12 Students									Total Minority K-12 Students									White K-12 Students								
	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979	1999	1998	1997	1996	1995	1994	1989	1984	1979
Monona	12	9	3	10	3	0	12	0	3	41	31	20	26	22	14	13	3	4	1614	1705	1750	1825	1866	1842	1890	2007	2302
Monroe	13	17	10	10	11	11	4	2	0	40	48	38	35	39	38	34	10	8	1253	1315	1331	1293	1327	1348	1334	1423	1578
Montgomery	10	8	9	5	7	13	6	7	3	14	16	22	13	13	20	11	13	13	2083	2073	2133	2140	2112	2107	2162	2251	2363
Muscatine	1329	1185	1185	1156	1107	1103	851	675	517	1557	1397	1394	1379	1315	1311	1029	815	617	6086	6207	6285	6495	6504	6721	6834	7005	7601
O'Brien	32	31	22	34	33	12	6	8	3	96	78	63	75	62	36	31	37	12	3068	3192	3276	3366	3435	3437	3403	3263	3601
Osceola	24	25	20	17	19	21	2	2	1	41	41	38	36	36	39	11	5	3	1020	1068	1066	1057	1047	1044	997	1069	1329
Page	59	56	45	51	31	37	34	8	5	159	180	172	231	68	80	69	29	24	2849	2932	3043	3083	3040	3093	3244	3284	3384
Palo Alto	13	14	22	22	11	6	7	2	8	45	45	42	52	32	25	21	10	12	2036	2088	2155	2182	2248	2274	2303	2359	2827
Plymouth	56	55	39	34	27	14	3	5	2	153	147	127	119	102	71	26	23	20	5285	5408	5393	5460	5499	5396	5077	4930	5481
Pocahontas	9	12	15	16	5	7	3	0	3	33	37	38	44	24	22	15	3	4	1383	1428	1447	1456	1502	1474	1831	1947	2357
Polk	2974	2608	2332	2093	1812	1531	886	931	905	10786	10251	9925	9558	9074	8506	6481	6476	5959	54621	54778	54672	54159	53980	53259	50909	50441	55606
Pottawattamie	537	491	431	407	360	281	254	229	266	952	861	840	780	681	638	517	478	563	16962	16992	16961	17215	16770	16438	16236	16578	18602
Poweshiek	37	24	19	19	14	14	10	8	8	114	101	105	102	90	89	73	50	42	2972	2994	3104	3159	3186	3109	2980	3116	3544
Ringgold	2	3	2	2	0	1	0	1	3	9	9	8	7	6	6	15	8	8	890	934	960	995	1010	1041	1052	1059	1171
Sac	23	16	21	13	12	3	3	4	1	37	30	33	19	22	5	9	14	8	2193	2240	2261	2317	2319	2389	2486	2435	2799
Scott	1310	1359	1357	1355	1219	1156	1199	897	886	5627	5525	5449	5453	5171	5005	4650	3917	3343	24869	25274	25338	25754	25868	25981	26157	28896	32288
Shelby	10	12	9	14	7	7	6	5	1	32	42	39	37	35	25	25	25	33	2843	2777	2849	2857	3043	3002	2659	2903	3488
Sioux	169	125	102	77	52	37	12	2	1	284	218	193	171	126	122	80	81	43	6594	6801	6886	7122	7143	7157	6718	6244	6640
Story	174	178	175	148	181	158	123	83	65	994	943	958	883	905	901	749	562	343	10286	10265	10272	10295	10342	10295	9468	9148	10308
Tama	178	174	158	125	108	88	38	16	4	452	416	406	361	329	285	324	214	260	2947	3003	2588	2630	2675	2775	3047	3336	3837
Taylor	75	61	45	39	44	19	4	3	0	88	79	67	64	59	30	19	13	2	1212	1246	1258	1271	1287	1296	1399	1504	1616
Union	22	9	11	13	11	1	1	2	5	48	42	44	37	33	13	18	27	18	2174	2297	2285	2298	2291	2361	2573	2657	2813
Van Buren	9	5	4	6	6	1	1	0	1	25	16	16	17	9	8	11	11	8	1339	1413	1459	1436	1447	1487	1414	1534	1740
Wapello	130	100	100	65	47	39	17	9	10	358	323	322	259	233	203	156	126	112	6102	6198	6312	6397	6415	6508	6568	7287	8023
Warren	55	67	62	37	50	40	25	7	4	175	190	183	129	147	143	116	78	341	7481	7417	7481	7510	7516	7523	6847	6884	7102
Washington	136	116	128	112	91	81	20	14	11	205	181	190	184	160	152	59	42	33	3594	3613	3659	3638	3597	3720	3628	3710	4036
Wayne	2	6	8	4	5	1	3	1	2	5	14	22	23	15	15	14	11	6	1139	1134	1176	1233	1250	1202	1197	1301	1411
Webster	164	132	125	93	89	99	65	80	84	663	594	559	532	491	488	419	448	412	6235	6287	6579	6764	6696	6769	6959	7328	8779
Winnebago	41	42	52	49	39	36	40	40	19	83	93	105	101	87	78	79	83	44	2746	2770	2743	2816	2923	2907	2799	2688	3126
Winneshiek	16	7	12	6	3	4	4	8	7	61	57	67	49	44	48	40	50	56	3095	3141	3218	3261	3260	3285	3150	3027	3458
Woodbury	2197	1959	1770	1636	1388	1054	403	199	161	4467	4121	3848	3582	3356	2945	1819	1205	980	16341	16665	17281	17499	17438	17792	18639	18735	20227
Worth	11	11	16	15	16	20	20	12	6	25	22	34	29	27	24	24	25	16	1140	1172	1146	1146	1165	1206	1107	1271	1492
Wright	143	93	87	74	73	40	17	11	7	178	131	126	105	106	60	40	50	36	2760	2837	2974	3023	3031	3124	2705	2870	3366
State of Iowa	14513	13397	12322	10848	9405	5984	4795	4424	47073	44078	42422	40438	37858	35447	27459	24090	21537	487022	491972	497311	501773	503091	503844	498986	516980	580202	

Table 2. Minority Students as Percent of Total K-12 Students in Iowa's Counties, 1979, 1984, 1989, 1994-1999.

County	1999	1998	1997	1996	1995	1994	1989	1984	1979
Adair	0.8	1.1	1.0	0.8	0.9	1.3	0.8	1.0	0.1
Adams	0.3	0.7	0.8	0.1	0.3	0.0	0.0	0.0	0.1
Allamakee	2.4	2.4	1.6	1.1	1.3	1.1	1.0	0.3	0.5
Appanoose	3.5	3.1	2.8	2.4	1.6	1.4	1.2	1.6	1.9
Audubon	1.2	1.6	1.5	0.9	1.3	1.5	0.1	1.0	0.3
Benton	1.6	1.4	1.6	1.3	1.1	0.8	0.8	0.7	0.4
Black Hawk	18.8	17.9	17.9	17.3	16.5	16.2	14.2	12.4	10.7
Boone	2.3	1.6	1.9	2.1	1.7	1.3	0.9	1.3	1.0
Bremer	1.4	1.6	1.5	1.4	1.3	1.4	0.8	0.9	0.7
Buchanan	2.1	1.7	1.4	1.0	1.4	1.5	0.6	0.4	0.4
Buena Vista	20.9	18.7	16.3	13.8	11.8	8.9	4.2	1.7	0.7
Butler	1.0	1.0	1.2	1.2	0.9	1.0	0.4	0.6	0.2
Calhoun	1.4	1.9	1.2	1.3	1.1	1.1	0.6	0.4	0.6
Carroll	1.2	1.6	1.6	1.1	0.8	0.6	0.8	0.3	0.4
Cass	2.0	1.7	1.5	1.7	1.9	1.8	0.8	0.8	0.8
Cedar	1.5	1.5	1.9	1.7	1.7	1.4	1.1	0.6	0.8
Cerro Gordo	7.7	6.3	6.3	6.2	6.0	5.4	4.4	4.2	4.3
Cherokee	1.6	2.6	1.6	1.9	2.1	2.0	1.0	0.5	0.3
Chickasaw	1.9	2.1	2.1	1.6	1.3	1.0	0.4	0.2	0.2
Clarke	3.6	2.2	1.2	0.9	1.0	1.5	1.0	1.0	1.0
Clay	3.1	2.6	2.7	2.4	2.0	2.0	1.1	1.6	1.0
Clayton	1.3	1.3	1.2	1.1	0.8	0.9	1.3	0.6	0.9
Clinton	6.0	5.4	5.1	5.2	4.9	4.7	3.4	2.8	2.1
Crawford	10.0	7.0	5.9	3.8	2.9	2.0	1.5	1.5	1.0
Dallas	7.5	6.2	5.7	4.7	4.1	3.2	1.0	1.3	0.6
Davis	1.4	1.4	0.5	0.3	0.6	0.5	0.5	1.2	0.9
Decatur	2.9	2.7	3.0	2.3	2.3	1.2	1.6	1.4	1.9
Delaware	1.4	1.6	1.7	1.4	1.1	1.1	0.8	0.3	0.3
Des Moines	11.2	9.6	8.8	9.5	9.2	8.6	7.3	5.8	5.5
Dickinson	1.5	1.3	1.2	1.5	1.9	1.1	1.3	0.6	0.2
Dubuque	3.3	3.2	2.9	2.8	2.8	2.6	1.2	1.0	0.7
Emmet	6.5	6.6	5.2	4.8	5.0	4.6	1.8	2.1	1.5
Fayette	2.6	2.3	2.2	2.0	1.8	1.8	1.1	0.9	1.0
Floyd	2.2	2.3	1.5	1.5	1.9	2.1	1.6	1.0	0.8
Franklin	7.6	6.7	7.3	9.8	6.4	5.8	1.8	1.3	1.6
Fremont	1.1	0.6	1.1	1.2	0.8	1.3	0.7	1.2	1.0
Greene	2.9	3.8	2.4	2.1	1.7	1.5	1.2	1.0	1.1
Grundy	2.7	2.6	2.2	1.8	1.9	1.8	0.4	0.8	0.4
Guthrie	1.1	1.5	1.3	1.0	0.7	0.8	0.9	0.6	0.1
Hamilton	4.2	4.1	4.0	3.5	3.2	3.0	2.4	1.4	1.1
Hancock	3.0	3.1	3.2	1.8	1.6	1.7	1.6	0.6	0.9
Hardin	5.1	5.1	4.5	3.6	3.1	3.3	1.6	0.7	0.8
Harrison	1.5	1.0	0.8	0.8	1.1	0.7	0.8	0.4	0.2
Henry	5.6	4.9	4.8	3.9	3.8	3.2	2.4	2.1	1.5
Howard	1.2	1.0	1.0	0.8	0.9	1.0	0.6	0.5	0.1
Humboldt	1.4	0.7	1.0	0.6	0.7	0.6	0.8	1.0	1.0
Ida	2.0	1.5	0.8	1.4	1.1	0.6	0.5	0.1	0.2
Iowa	3.6	3.4	3.8	3.2	2.9	2.4	1.1	1.3	1.0
Jackson	1.3	1.2	1.1	1.0	0.9	0.6	0.4	0.4	0.2
Jasper	1.8	2.1	2.0	2.0	1.9	1.8	1.7	1.6	0.8



Table 2. Minority Students as Percent of Total K-12 Students in Iowa's Counties, 1979, 1984, 1989, 1994-1999  
(continued).

County	1999	1998	1997	1996	1995	1994	1989	1984	1979
Jefferson	5.1	4.5	3.6	3.2	3.4	3.3	2.7	1.8	1.1
Johnson	13.6	12.6	11.9	11.6	10.9	10.8	8.5	7.1	4.5
Jones	2.7	1.9	1.9	1.7	1.1	1.1	0.4	0.3	0.1
Keokuk	1.5	1.2	1.3	1.1	0.8	0.8	0.7	0.4	0.4
Kossuth	2.8	2.5	2.5	2.5	2.0	1.6	1.4	0.9	0.6
Lee	7.5	7.3	7.4	7.1	6.7	7.0	6.4	5.6	5.0
Linn	8.5	8.5	8.1	7.7	7.5	7.2	5.7	4.8	3.4
Louisa	20.6	17.8	15.5	15.5	13.8	11.7	6.1	3.1	3.1
Lucas	1.9	1.6	1.5	1.5	1.1	1.3	1.1	0.4	0.3
Lyon	1.3	1.0	0.6	1.3	1.3	1.0	1.2	0.9	0.8
Madison	1.1	1.3	1.0	1.1	0.6	0.8	0.9	0.7	0.8
Mahaska	3.7	2.7	2.3	2.0	2.2	2.4	2.6	2.2	2.1
Marion	3.6	3.4	3.2	2.5	2.3	2.6	2.1	2.1	1.4
Marshall	16.0	13.2	11.6	9.7	8.3	7.2	3.4	3.0	2.4
Mills	3.1	3.1	2.0	1.8	1.2	0.8	0.5	0.2	0.3
Mitchell	0.8	1.0	1.0	0.9	0.8	0.9	0.7	0.8	0.4
Monona	2.5	1.8	1.1	1.4	1.2	0.8	0.7	0.1	0.2
Monroe	3.1	3.5	2.8	2.6	2.9	2.7	2.5	0.7	0.5
Montgomery	0.7	0.8	1.0	0.6	0.6	0.9	0.5	0.6	0.5
Muscatine	20.4	18.4	18.2	17.5	16.8	16.3	13.1	10.4	7.5
O'Brien	3.0	2.4	1.9	2.2	1.8	1.0	0.9	1.1	0.3
Osceola	3.9	3.7	3.4	3.3	3.3	3.6	1.1	0.5	0.2
Page	5.3	5.8	5.3	7.0	2.2	2.5	2.1	0.9	0.7
Palo Alto	2.2	2.1	1.9	2.3	1.4	1.1	0.9	0.4	0.4
Plymouth	2.8	2.6	2.3	2.1	1.8	1.3	0.5	0.5	0.4
Pocahontas	2.3	2.5	2.6	2.9	1.6	1.5	0.8	0.2	0.2
Polk	16.5	15.8	15.4	15.0	14.4	13.8	11.3	11.4	9.7
Pottawattamie	5.3	4.8	4.7	4.3	3.9	3.7	3.1	2.8	2.9
Poweshiek	3.7	3.3	3.3	3.1	2.7	2.8	2.4	1.6	1.2
Ringgold	1.0	1.0	0.8	0.7	0.6	0.6	1.4	0.7	0.7
Sac	1.7	1.3	1.4	0.8	0.9	0.2	0.4	0.6	0.3
Scott	18.5	17.9	17.7	17.5	16.7	16.2	15.1	11.9	9.4
Shelby	1.1	1.5	1.4	1.3	1.1	0.8	0.9	0.9	0.9
Sioux	4.1	3.1	2.7	2.3	1.7	1.7	1.2	1.3	0.6
Story	8.8	8.4	8.5	7.9	8.0	8.0	7.3	5.8	3.2
Tama	13.3	12.2	13.6	12.1	11.0	9.3	9.6	6.0	6.3
Taylor	6.8	6.0	5.1	4.8	4.4	2.3	1.3	0.9	0.1
Union	2.2	1.8	1.9	1.6	1.4	0.5	0.7	1.0	0.6
Van Buren	1.8	1.1	1.1	1.2	0.6	0.5	0.8	0.7	0.5
Wapello	5.5	5.0	4.9	3.9	3.5	3.0	2.3	1.7	1.4
Warren	2.3	2.5	2.4	1.7	1.9	1.9	1.7	1.1	4.6
Washington	5.4	4.8	4.9	4.8	4.3	3.9	1.6	1.1	0.8
Wayne	0.4	1.2	1.8	1.8	1.2	1.2	1.2	0.8	0.4
Webster	9.6	8.6	7.8	7.3	6.8	6.7	5.7	5.8	4.5
Winnebago	2.9	3.2	3.7	3.5	2.9	2.6	2.7	3.0	1.4
Winneshiek	1.9	1.8	2.0	1.5	1.3	1.4	1.3	1.6	1.6
Woodbury	21.5	19.8	18.2	17.0	16.1	14.2	8.9	6.0	4.6
Worth	2.1	1.8	2.9	2.5	2.3	2.0	2.1	1.9	1.1
Wright	6.1	4.4	4.1	3.4	3.4	1.9	1.5	1.7	1.1
State of Iowa	8.8	8.2	7.9	7.5	7.0	6.6	5.2	4.5	3.6

The percentage of enrollees accounted for by the total of American Indian, Asian American, black, and Hispanic students changed significantly across counties when 1989 and 1999 were compared. In 1989, less than 1 percent of enrollees were minority students in 37 counties; only five counties were under 1 percent in 1999. Black Hawk, Muscatine, Polk, and Scott were the only counties in which at least 10 percent of enrollees were in the minority category in 1989, with Scott's percentage of 15.1 the highest. By 1999, at least 20 percent of students in Buena Vista, Louisa, Muscatine, and Woodbury were members of minority groups, as were more than 15 percent in Black Hawk, Marshall, Polk, and Scott. Crawford, Des Moines, Johnson, and Tama ranged from 10.0 to 14.9 percent that year (Figure 1). The numbers in Tables 1 and 2 indicate that minority enrollment grew in some of Iowa's more rural counties as well as in metropolitan areas.

Minority students declined between 1989 and 1999 in four counties, although the declines were small (-1 to -9). Increases were of a much greater magnitude. Twenty-nine counties gained at least 100 minority students. Ten of these increased by 500 or more with Polk's gain of 4,300 and Woodbury's increase of nearly 2,650 the highest. Nearly half (47) of the counties at least doubled their minority enrollments from 1989 to 1999; 26 of these tripled their numbers. Of course, caution is urged because relatively modest numerical changes sometimes resulted in substantial percentage changes because of the small numbers reported in 1989.

### **American Indian Enrollees**

Iowa's schools had 2,541 American Indian students enrolled in 1999, the fewest among the minority groups. Thirteen counties had no American Indian enrollees and 50 others had fewer than 10. Woodbury's enrollment (708) along with four others with at least 100 (Linn, Polk, Scott, Tama) accounted for nearly two-thirds (64.7%) of the state's American Indian students. In Davis, Monona, and Tama, American Indian enrollment was the largest of the four minority groups.

Nearly three of every four (73) counties changed by less than 10 American Indian students in either direction (+ or -) between 1989 and 1999. Three counties (Polk, Scott, Woodbury) each gained more than 100 during this period. The state's increase was 1,079 (+73.8%).

### **Asian American Enrollees**

In 1999, Asian American students numbered 8,872 in the schools, an increase of 2,325 (+35.5%) from 1989. While all counties reported at least one Asian American enrollee, 21 had fewer than 10 in 1999. Polk's enrollment of 2,200 was the largest and was a quarter (25.1%) of the state's Asian American students that year.

Counties with at least 100 Asian American students were mostly those with larger cities. Twenty-nine counties had Asian Americans as their largest student minority group. Two-thirds (67) of Iowa's 99 counties had more Asian American students in 1999 than in 1989. Gains greater than 100 occurred in six counties, led by an increase of nearly 500 in Polk.

### **Black Enrollees**

Black students (19,358) were greater in number than any of the other minority groups in 1999; this was true for all years reported in Table 1. Four metropolitan counties (Black Hawk, Linn, Polk, Scott) contained 70.0 percent of the black students in 1999. Four counties had no black students and 29 others had fewer than 10. Blacks were the largest minority group in 17 of Iowa's counties.

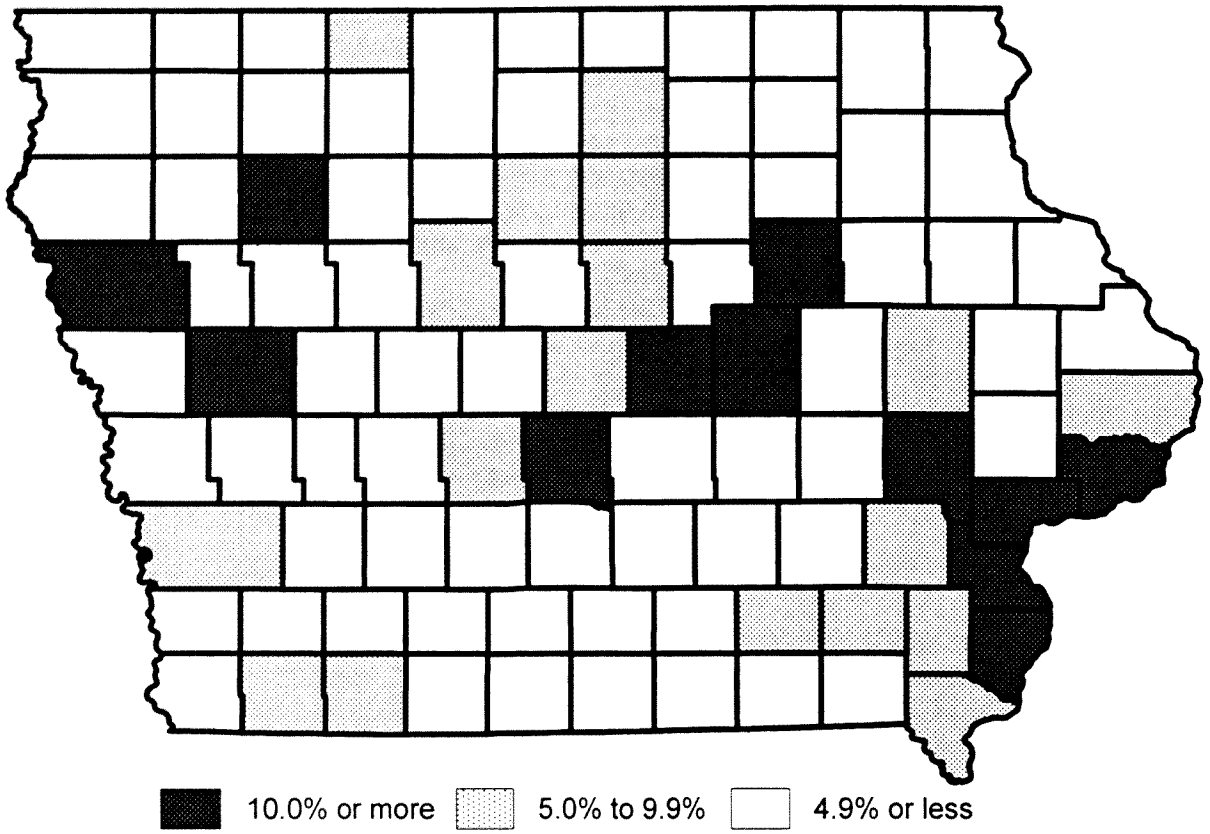
Black enrollees increased by 5,892 (+43.8%) between 1989 and 1999. Black Hawk, Johnson, Linn, Polk, and Scott experienced the greatest increases during the 10 years. Only 10 counties had fewer black students in 1999 than in 1989 and these drops were small; three others did not change.

## Hispanic Enrollees

Hispanic students numbered 16,302 in 1999. Muscatine, Polk, Scott, and Woodbury each had more than 1,000 Hispanic enrollees. Nine others ranged from 300 to 999. Hispanic students constituted the largest minority group in 41 counties.

Hispanic enrollment grew more in both number (+10,318) and percentage (+172.4%) than American Indians, Asian Americans, or blacks between 1989 and 1999. Eight counties lost a few Hispanic enrollees, but increases of 100 or more took place in 19 counties; Polk and Woodbury each gained more than 1,000. Buena Vista, Dallas, Louisa, Marshall, and Muscatine also added at least 400 Hispanic enrollees during the 1989-1999 period.

Figure 1. Minority students as percent of total K-12 school students, 1999.



## Public Secondary School Dropouts in Iowa's Counties: 1984 and 1989-1999

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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 1999 dropouts are those who left school between 1 July 1998 and 30 June 1999.

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 4,023 for 1999 (Table 1). That is the lowest total reported for any year included in the table. The highest number was the 5,652 noted in 1989, although even greater totals were reached in earlier years (Figure 1).

Polk had the highest number of dropouts in 1999; indeed, Polk had the greatest number each year from 1989 through 1999 except 1993, when Scott had the most. Other counties with at least 100 dropouts each year included Black Hawk, Dubuque, Linn, Pottawattamie, and Woodbury. Some counties had very few or no dropouts in selected years. Audubon, Ida, Lyon, and Osceola had fewer than 10 dropouts in at least 10 of the last 11 years.

The state as a whole and all counties had years between 1989 and 1999 when the number of dropouts increased and other years when the number decreased. Fifty-six counties had fewer dropouts in 1999 than in 1989. Black Hawk, Linn, Polk, Pottawattamie, and Scott had at least 100 fewer dropouts in 1999 than in 1989. Thirty-eight counties had more dropouts in 1999 than in 1989, although only Woodbury increased by more than 100.

At the same time the number of dropouts was changing in Iowa, so was the number of school enrollees (Table 1). Student enrollment in public secondary schools declined every year in Iowa between 1989 and 1991; it increased from 1991 to 1997, only to decrease again to 1998; a slight gain was reported from 1998 to 1999. Overall, there were about 15,500 more secondary school students in Iowa in 1999 than in 1989. Three-fourths (75) of Iowa's 99 counties had more secondary enrollees in 1999 than in 1989. Gains were greater than 200 in 25 counties, with at least 1,000 more secondary students in Johnson, Polk, Pottawattamie, and Story. Twenty-three counties recorded decreases in secondary enrollees between 1989 and 1999, with declines exceeding 200 in six counties. Caution must be reiterated; mergers and other boundary changes could affect differences noted here.

**Percentage of Dropouts**

In 1999, 1.7 percent of public secondary enrollees in Iowa became dropouts, which was the smallest percentage of any year reported (Table 2). The proportion of dropouts for Iowa varied between 1.7 and 2.6 percent for the 11 years from 1989 through 1999 but was higher in 1980 as noted in Figure 2.

There were significant variations among the counties in the percentage of students that dropped out in 1999. Thirty-two counties had fewer than 1 percent of their secondary students leave school in 1999, but Muscatine, Wapello, and Woodbury had percentages ranging from 4.6 to 5.5.

Sixty-three of Iowa's counties had lower percentages of students drop out in 1999 than in 1989 while 33 counties were higher and three remained the same. Some counties, however, were consistently among those with the highest percentages while others were consistently among the lowest.

**Note:** Additional information on public secondary school dropouts is available from the Division of Instructional Services in the Iowa Department of Education (Grimes State Office Building, Des Moines, IA 50319).

Table 1. Public Secondary School Dropouts and Enrollees in Iowa's Counties, 1984 and 1989-1999.<sup>1</sup>

County	1999 <sup>2</sup>		1998		1997		1996		1995		1994		1993		1992		1991		1990		1989		1984	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Adair	6	577	15	596	10	600	13	614	7	618	3	584	12	586	2	530	3	519	4	489	0	487	3	589
Adams	3	332	2	337	2	349	3	345	3	346	3	333	2	315	12	302	9	300	12	361	3	356	5	368
Allamakee	15	1383	13	1389	12	1398	9	1367	7	1386	4	1339	18	1286	11	1268	25	1233	13	1313	26	1309	15	1569
Appanoose	37	1142	43	1193	106	1222	48	1199	60	1198	37	1191	43	1160	42	1144	41	1089	45	1186	34	1188	34	1234
Audubon	0	540	5	537	8	584	1	543	5	554	7	562	6	542	1	534	8	513	0	507	6	522	10	687
Benton	40	1949	24	1926	47	2082	43	1811	52	1793	35	1806	41	1868	26	1761	30	1770	33	1874	26	1832	39	2257
Black Hawk	314	8366	397	7968	388	9214	481	8226	257	8450	318	8202	549	7813	546	7813	493	7668	488	7653	516	8075	355	9476
Boone	43	1996	44	1945	32	2039	25	1958	47	1891	52	1844	43	1755	23	1677	21	1639	34	1729	45	1784	41	1993
Bremer	46	2677	35	2697	28	3037	20	2919	21	2817	14	2713	20	2616	13	2568	17	2457	32	2615	21	2665	20	3208
Buchanan	20	1527	20	1488	37	1700	31	1572	40	1550	35	1477	41	1496	24	1485	19	1454	21	1518	28	1462	40	1656
Buena Vista	27	1825	37	1864	20	1930	35	1821	33	1864	29	1778	36	1543	34	1457	30	1423	30	1505	26	1421	13	1420
Butler	4	1030	5	1053	7	1066	6	1166	7	1193	9	1203	6	1151	5	1188	13	1144	11	1146	11	1239	18	1499
Calhoun	13	1207	7	1236	12	1292	5	1261	11	1226	7	1246	6	1219	3	1145	13	1064	10	1066	8	1066	8	1310
Carroll	8	1660	13	1647	15	1655	10	1513	16	1490	20	1461	15	1350	10	1231	10	1130	10	1164	10	1165	12	1295
Cass	24	1499	23	1556	39	1614	21	1582	28	1546	18	1466	22	1432	19	1391	26	1334	18	1367	27	1391	21	1602
Cedar	10	1731	23	1732	9	1787	21	1751	19	1710	14	1676	19	1674	23	1636	22	1574	11	1575	10	1593	23	1836
Cerro Gordo	32	3140	96	3182	130	3623	89	3345	94	3145	122	3066	66	3012	80	2956	96	2905	70	3160	93	3194	77	3471
Cherokee	14	1130	16	1160	16	1183	9	1271	25	1268	25	1266	8	1248	17	1219	16	1206	19	1228	18	1196	15	1419
Chickasaw	12	1326	12	1337	16	1186	15	1225	18	1146	14	1119	5	1110	15	1068	17	1075	9	1099	15	1136	10	1431
Clarke	19	872	16	851	30	867	23	842	16	790	22	786	8	761	17	775	12	746	20	727	10	720	11	816
Clay	10	1428	9	1475	32	1512	42	1503	21	1494	32	1481	19	1653	25	1595	15	1495	17	1469	25	1459	32	1640
Clayton	3	1799	16	1879	22	1882	15	1864	17	1813	19	1799	20	1738	16	1704	28	1680	11	1746	19	1732	27	1900
Clinton	31	4014	129	4044	140	4385	132	4112	157	4059	103	4094	87	4064	133	4075	175	3914	92	4229	109	4227	94	5192
Crawford	8	1288	20	1344	27	1326	15	1350	11	1353	17	1404	14	1407	42	1505	18	1491	21	1551	12	1559	18	1792
Dallas	58	3642	49	3602	93	3586	65	3403	65	3097	57	3041	98	2929	69	2774	64	2697	40	2705	30	2736	46	2999
Davis	7	591	9	614	19	697	21	665	26	676	11	656	13	637	9	651	13	606	15	670	9	667	13	744
Decatur	15	668	1	677	10	689	8	653	5	699	9	594	13	640	12	690	14	642	13	643	12	664	18	817
Delaware	28	1898	33	1952	22	2017	27	1919	41	1786	19	1734	13	1600	8	1536	21	1471	18	1484	26	1521	18	1855
Des Moines	44	3259	56	3365	107	3779	97	3407	73	3401	60	3358	53	3199	48	3179	70	3113	68	3573	79	3469	189	3791
Dickinson	21	1360	9	1382	16	1427	17	1367	7	1402	13	1323	13	1315	16	1246	12	1199	12	1277	10	1245	15	1333
Dubuque	102	6262	127	6434	156	6806	133	6523	135	6221	145	6063	148	5842	116	5635	130	5546	140	6088	201	6262	170	7191
Emmet	25	1001	15	992	33	1082	24	1173	7	1141	13	1133	10	1087	11	1064	16	1018	18	1100	17	1110	10	1221
Fayette	28	2210	26	2175	36	2236	34	2189	35	2222	26	2108	39	2124	25	2026	19	2003	27	2036	17	2072	46	2653
Floyd	24	1537	29	1542	44	1619	24	1513	22	1524	20	1493	28	1521	32	1483	33	1443	33	1540	27	1630	39	1888
Franklin	10	958	17	1004	16	1141	18	991	19	976	21	944	12	900	18	873	19	852	9	821	12	757	9	890
Fremont	4	777	1	773	4	820	11	813	22	807	15	812	12	802	10	802	10	721	14	752	12	769	11	792

Table 1. Public Secondary School Dropouts and Enrollees in Iowa's Counties, 1984 and 1989-1999 (continued).<sup>1</sup>

County	1999 <sup>2</sup>		1998		1997		1996		1995		1994		1993		1992		1991		1990		1989		1984	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Greene	7	1007	3	969	7	1021	12	929	7	895	11	842	8	818	13	817	10	776	23	809	14	792	13	1017
Grundy	11	1196	7	1459	4	1491	16	1353	17	1322	12	1313	12	1303	8	1047	8	1008	4	1063	8	1090	7	1324
Guthrie	6	1143	12	1149	10	1174	8	1162	18	1135	8	1098	7	1081	13	1083	16	1101	10	1087	8	1083	21	1338
Hamilton	12	1473	15	1419	11	1502	21	1440	26	1425	25	1389	23	1406	25	1322	19	1305	20	1380	29	1405	10	1619
Hancock	15	1072	20	1089	20	1091	9	1032	10	1016	7	1156	7	1102	4	1111	6	1087	7	1053	2	1082	5	1123
Hardin	18	1839	28	1807	32	1880	37	1797	35	1799	31	1676	33	1685	24	1739	18	1657	18	1764	25	1786	23	2191
Harrison	9	1630	25	1654	24	1633	20	1607	25	1624	20	1424	22	1380	27	1381	19	1350	24	1391	27	1400	23	1642
Henry	23	1855	6	1840	23	1825	50	1835	44	1814	32	1760	28	1769	21	1680	27	1636	32	1661	34	1657	26	1732
Howard	11	1132	12	1107	12	1150	11	1142	11	1147	9	1106	10	1061	3	991	4	970	10	968	7	884	17	1164
Humboldt	5	1001	7	991	5	989	10	956	17	932	7	908	11	866	8	841	7	858	6	839	11	847	10	1069
Ida	2	745	2	764	3	762	2	724	8	726	14	778	1	664	2	652	6	649	3	689	3	683	2	659
Iowa	8	1340	9	1272	6	1329	12	1264	9	1386	5	1277	6	1244	6	1196	3	1146	11	1125	11	1132	12	1438
Jackson	31	1752	40	1809	37	1987	38	1783	52	1785	40	1789	28	1751	25	1722	26	1666	30	1721	38	1780	25	2192
Jasper	69	3014	51	2965	62	3229	30	3055	30	2966	44	2973	56	2949	39	2875	57	2768	114	2948	83	2933	64	3269
Jefferson	32	1022	22	958	22	976	22	929	23	829	16	803	33	843	24	795	20	797	23	855	30	866	11	1134
Johnson	38	5837	80	5752	46	5928	58	5443	91	5024	60	4858	64	4705	46	4490	47	4239	177	4636	135	4610	87	4833
Jones	27	1686	49	1727	49	1782	40	1721	52	1730	47	1727	34	1634	18	1461	22	1471	34	1609	14	1559	17	1913
Keokuk	14	1080	13	1164	13	1227	13	1177	17	1143	19	1132	13	1073	15	1018	14	1010	6	1042	12	1084	6	1202
Kossuth	4	1303	3	1334	7	1362	5	1285	6	1255	11	1240	13	1195	9	1131	8	1101	17	1123	11	1101	10	1366
Lee	56	2856	62	2849	106	3286	128	3068	198	3080	122	3037	94	2912	81	2851	83	2696	88	2993	101	2845	102	3200
Linn	135	13799	168	13768	139	15082	197	13276	205	13183	153	12837	135	12557	218	12098	149	11930	292	13815	433	14302	299	15912
Louisa	43	1211	53	1317	29	1380	17	1343	53	1342	27	1314	13	1319	25	1213	24	1179	36	1268	39	1236	36	1381
Lucas	12	710	30	743	17	799	24	754	33	777	16	782	15	754	10	701	12	675	18	714	26	726	26	836
Lyon	5	1005	5	1055	7	1127	13	1140	8	1165	8	1130	5	1031	4	1020	9	972	5	979	2	974	4	1081
Madison	6	1439	16	1425	9	1412	22	1414	16	1386	15	1377	8	1304	9	1217	21	1232	27	1302	14	1268	15	1346
Mahaska	40	1564	38	1541	37	1622	42	1462	41	1453	81	1410	35	1388	28	1346	28	1370	24	1369	40	1376	46	1522
Marion	31	2718	42	2773	53	2733	52	2615	54	2516	31	2424	34	2364	38	2347	32	2313	45	2346	32	2380	44	2620
Marshall	42	3190	47	3190	58	3390	52	3131	41	2941	19	2852	22	2817	45	2795	70	2711	97	3087	109	3083	67	3859
Mills	18	1270	14	1313	32	1340	24	1247	24	1225	28	1172	25	1160	25	1115	18	1165	20	1179	17	1175	13	1234
Mitchell	11	913	6	926	7	953	8	937	7	898	5	873	10	858	9	843	10	816	14	840	3	903	13	961
Monona	12	799	14	811	21	910	27	899	20	847	15	847	19	834	14	832	16	835	14	851	12	848	15	939
Monroe	14	616	17	643	13	645	23	639	15	599	13	592	14	590	19	579	12	551	15	591	11	576	23	723
Montgomery	19	963	18	990	18	984	15	958	23	953	15	961	13	986	23	963	16	881	16	985	15	971	38	1070
Muscatine	179	3466	156	3548	217	3825	194	3513	186	3701	158	3475	114	3446	87	3288	80	3144	86	3253	118	3386	156	3634
O'Brien	9	1432	15	1469	18	1532	17	1488	14	1465	11	1347	21	1336	16	1295	16	1294	16	1343	20	1322	21	1424
Osceola	6	492	4	483	0	516	3	464	4	460	1	444	7	433	2	408	7	391	9	441	3	433	2	490



Table 1. Public Secondary School Dropouts and Enrollees in Iowa's Counties, 1984 and 1989-1999 (continued).<sup>1</sup>

County	1999 <sup>2</sup>		1998		1997		1996		1995		1994		1993		1992		1991		1990		1989		1984	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Page	22	1608	15	1683	38	1764	50	1542	33	1540	32	1508	33	1506	28	1482	41	1454	33	1530	37	1495	29	1478
Palo Alto	7	1037	10	1056	9	1051	5	1031	11	1024	17	1031	11	1021	11	959	12	955	7	952	18	941	15	1109
Plymouth	18	2226	20	2190	14	2261	20	2198	27	2150	7	2077	14	1972	19	1887	24	1788	32	1816	36	1818	19	1908
Pocahontas	7	702	2	680	2	719	9	657	1	634	6	638	6	748	10	729	9	812	13	758	4	779	5	967
Polk	588	26604	736	25876	543	26387	522	25290	644	24316	610	23772	579	23006	820	21952	994	21201	889	23436	952	23710	924	26365
Pottawattamie	110	7697	150	7339	226	8351	144	7324	157	6988	142	6864	120	6633	113	6516	175	6225	255	6421	332	6620	287	7501
Poweshiek	16	1457	8	1478	14	1536	24	1513	12	1449	30	1427	27	1369	28	1257	31	1252	21	1333	29	1394	16	1593
Ringgold	5	513	3	527	3	520	2	514	6	469	5	441	13	449	10	457	3	413	3	432	8	446	3	521
Sac	4	1148	9	1123	7	1136	16	1123	19	1137	25	1114	19	1098	11	1080	8	1006	7	1025	16	1032	6	1196
Scott	257	12961	334	12690	433	13866	400	12963	401	13218	453	12594	631	12300	527	12106	540	11811	523	12558	511	12545	433	15073
Shelby	15	1321	15	1327	13	1310	17	1388	15	1326	16	1337	12	1224	3	1218	8	1083	17	1111	18	1236	14	1452
Sioux	11	2103	15	2084	16	2201	2	2075	4	2000	10	1929	16	1830	16	1478	13	1614	15	1653	13	1675	12	1867
Story	48	5341	27	5245	37	5486	50	5143	56	4964	57	4724	58	4617	43	4291	57	4126	48	4155	42	4228	60	4709
Tama	32	1626	35	1419	26	1443	30	1389	27	1437	39	1432	31	1556	32	1506	21	1468	18	1473	16	1407	25	1842
Taylor	9	616	10	620	5	640	10	600	17	585	4	561	2	538	5	503	4	527	6	540	4	623	2	732
Union	40	1169	29	1129	36	1176	18	1100	39	1101	29	1132	18	1062	20	1082	13	1073	23	1166	14	1166	15	1207
Van Buren	10	712	15	722	13	732	13	682	22	698	8	662	16	644	12	621	9	599	13	639	9	624	11	744
Wapello	160	2924	120	3006	77	3221	107	3016	111	2912	77	3031	110	3011	124	2949	70	2854	62	2932	72	3134	52	3508
Warren	39	3608	99	3621	85	3725	93	3643	140	3474	81	3400	34	3206	33	3190	45	2960	76	3122	72	3215	32	3530
Washington	23	1621	35	1628	57	1655	25	1554	46	1593	41	1546	38	1498	41	1465	26	1472	25	1541	23	1549	21	1774
Wayne	12	584	11	581	16	589	22	580	5	560	4	561	5	570	4	592	18	567	12	566	10	582	10	629
Webster	67	2680	80	2675	109	3169	69	2664	86	2642	83	2586	73	2548	72	2557	64	2394	71	2456	110	2573	52	3233
Winnebago	12	1407	18	1382	23	1428	19	1458	34	1401	25	1276	30	1254	20	1237	14	1182	19	1237	16	1261	8	1303
Winneshiek	10	1478	10	1513	12	1542	6	1468	9	1382	23	1367	22	1283	17	1209	9	1206	10	1200	8	1270	21	1426
Woodbury	389	8421	239	8661	266	9215	268	8344	170	7840	297	7639	280	7472	252	7660	287	7203	219	8046	216	7941	185	8747
Worth	4	597	10	555	17	577	11	555	5	535	10	529	9	531	6	515	7	495	12	495	5	525	7	659
Wright	23	1405	25	1464	21	1496	19	1467	19	1472	10	1252	10	1198	10	1201	10	1118	12	1210	14	1204	11	1424
State of Iowa	4023	231737	4581	231295	5033	244502	4834	230039	4985	225443	4645	219708	4768	214157	4783	207948	5030	201742	5270	213888	5652	216251	5109	246788

<sup>1</sup>This table includes public school dropouts from grades 7 through 12 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.

<sup>2</sup>This refers to the state's fiscal year; the label "1999" covers the period from 1 July 1998 through 30 June 1999, for example.

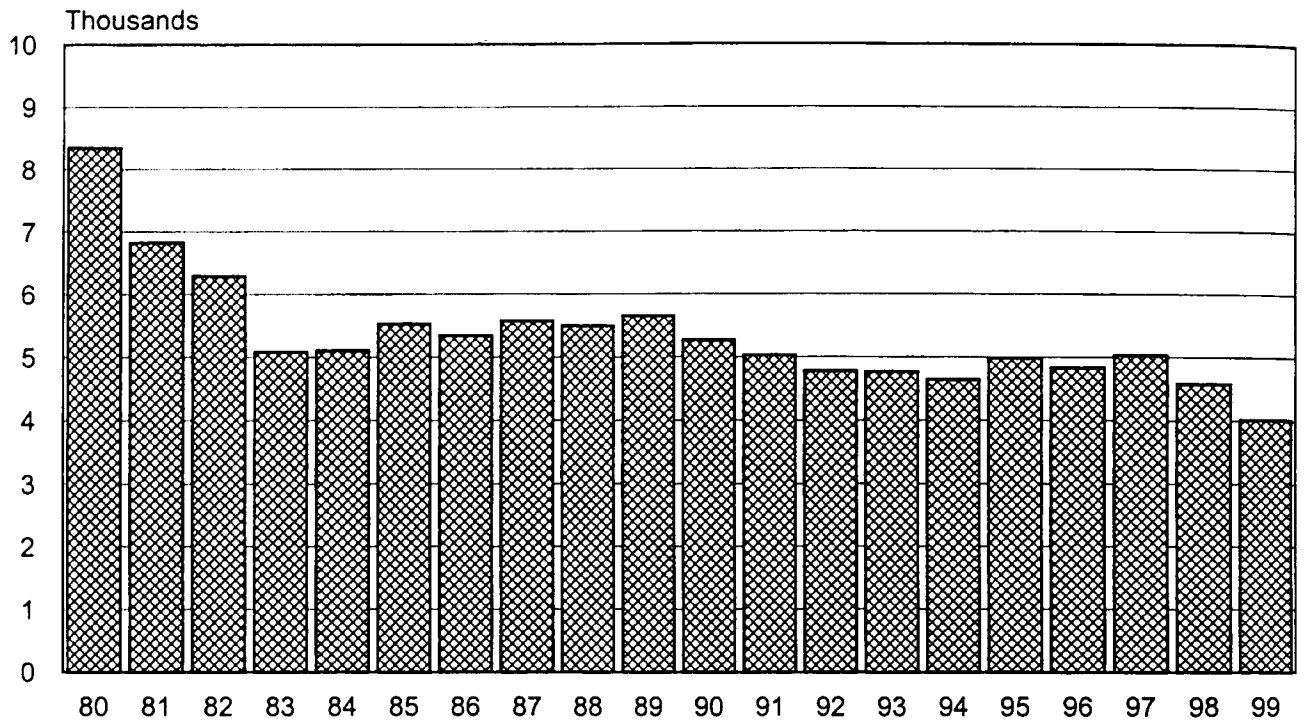
Table 2. Percentage of Public Secondary School Dropouts in Iowa's Counties, 1984 and 1989-1999.

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Adair	1.0	2.5	1.7	2.1	1.1	0.5	2.0	0.4	0.6	0.8	0.0	0.5
Adams	0.9	0.6	0.6	0.9	0.9	0.9	0.6	4.0	3.0	3.3	0.8	1.4
Allamakee	1.1	0.9	0.9	0.7	0.5	0.3	1.4	0.9	2.0	1.0	2.0	1.0
Appanoose	3.2	3.6	8.7	4.0	5.0	3.1	3.7	3.7	3.8	3.8	2.9	2.8
Audubon	0.0	0.9	1.4	0.2	0.9	1.2	1.1	0.2	1.6	0.0	1.1	1.5
Benton	2.1	1.2	2.3	2.4	2.9	1.9	2.2	1.5	1.7	1.8	1.4	1.7
Black Hawk	3.8	5.0	4.2	5.8	3.0	3.9	7.0	7.0	6.4	6.4	6.4	3.7
Boone	2.2	2.3	1.6	1.3	2.5	2.8	2.5	1.4	1.3	2.0	2.5	2.1
Bremer	1.7	1.3	0.9	0.7	0.7	0.5	0.8	0.5	0.7	1.2	0.8	0.6
Buchanan	1.3	1.3	2.2	2.0	2.6	2.4	2.7	1.6	1.3	1.4	1.9	2.4
Buena Vista	1.5	2.0	1.0	1.9	1.8	1.6	2.3	2.3	2.1	2.0	1.8	0.9
Butler	0.4	0.5	0.7	0.5	0.6	0.7	0.5	0.4	1.1	1.0	0.9	1.2
Calhoun	1.1	0.6	0.9	0.4	0.9	0.6	0.5	0.3	1.2	0.9	0.8	0.6
Carroll	0.5	0.8	0.9	0.7	1.1	1.4	1.1	0.8	0.9	0.9	0.9	0.9
Cass	1.6	1.5	2.4	1.3	1.8	1.2	1.5	1.4	1.9	1.3	1.9	1.3
Cedar	0.6	1.3	0.5	1.2	1.1	0.8	1.1	1.4	1.4	0.7	0.6	1.3
Cerro Gordo	1.0	3.0	3.6	2.7	3.0	4.0	2.2	2.7	3.3	2.2	2.9	2.2
Cherokee	1.2	1.4	1.4	0.7	2.0	2.0	0.6	1.4	1.3	1.6	1.5	1.1
Chickasaw	0.9	0.9	1.3	1.2	1.6	1.3	0.5	1.4	1.6	0.8	1.3	0.7
Clarke	2.2	1.9	3.5	2.7	2.0	2.8	1.1	2.2	1.6	2.8	1.4	1.3
Clay	0.7	0.6	2.1	2.8	1.4	2.2	1.1	1.6	1.0	1.2	1.7	2.0
Clayton	0.2	0.9	1.2	0.8	0.9	1.1	1.2	0.9	1.7	0.6	1.1	1.4
Clinton	0.8	3.2	3.2	3.2	3.9	2.5	2.1	3.3	4.5	2.2	2.6	1.8
Crawford	0.6	1.5	2.0	1.1	0.8	1.2	1.0	2.8	1.2	1.4	0.8	1.0
Dallas	1.6	1.4	2.6	1.9	2.1	1.9	3.3	2.5	2.4	1.5	1.1	1.5
Davis	1.2	1.5	2.7	3.2	3.8	1.7	2.0	1.4	2.1	2.2	1.3	1.7
Decatur	2.2	0.1	1.5	1.2	0.7	1.5	2.0	1.7	2.2	2.0	1.8	2.2
Delaware	1.5	1.7	1.1	1.4	2.3	1.1	0.8	0.5	1.4	1.2	1.7	1.0
Des Moines	1.4	1.7	2.8	2.8	2.1	1.8	1.7	1.5	2.2	1.9	2.3	5.0
Dickinson	1.5	0.7	1.1	1.2	0.5	1.0	1.0	1.3	1.0	0.9	0.8	1.1
Dubuque	1.6	2.0	2.3	2.0	2.2	2.4	2.5	2.1	2.3	2.3	3.2	2.4
Emmet	2.5	1.5	3.0	2.0	0.6	1.1	0.9	1.0	1.6	1.6	1.5	0.8
Fayette	1.3	1.2	1.6	1.6	1.6	1.2	1.8	1.2	0.9	1.3	0.8	1.7
Floyd	1.6	1.9	2.7	1.6	1.4	1.3	1.8	2.2	2.3	2.1	1.7	2.1
Franklin	1.0	1.7	1.4	1.8	1.9	2.2	1.3	2.1	2.2	1.1	1.6	1.0
Fremont	0.5	0.1	0.5	1.4	2.7	1.8	1.5	1.2	1.4	1.9	1.6	1.4
Greene	0.7	0.3	0.7	1.3	0.8	1.3	1.0	1.6	1.3	2.8	1.8	1.3
Grundy	0.9	0.5	0.3	1.2	1.3	0.9	0.9	0.8	0.8	0.4	0.7	0.5
Guthrie	0.5	1.0	0.9	0.7	1.6	0.7	0.6	1.2	1.5	0.9	0.7	1.6
Hamilton	0.8	1.1	0.7	1.5	1.8	1.8	1.6	1.9	1.5	1.4	2.1	0.6
Hancock	1.4	1.8	1.8	0.9	1.0	0.6	0.6	0.4	0.6	0.7	0.2	0.4
Hardin	1.0	1.5	1.7	2.1	1.9	1.8	2.0	1.4	1.1	1.0	1.4	1.0
Harrison	0.6	1.5	1.5	1.2	1.5	1.4	1.6	2.0	1.4	1.7	1.9	1.4
Henry	1.2	0.3	1.3	2.7	2.4	1.8	1.6	1.2	1.7	1.9	2.1	1.5
Howard	1.0	1.1	1.0	1.0	1.0	0.8	0.9	0.3	0.4	1.0	0.8	1.5
Humboldt	0.5	0.7	0.5	1.0	1.8	0.8	1.3	1.0	0.8	0.7	1.3	0.9
Ida	0.3	0.3	0.4	0.3	1.1	1.8	0.2	0.3	0.9	0.4	0.4	0.3
Iowa	0.6	0.7	0.5	0.9	0.6	0.4	0.5	0.5	0.3	1.0	1.0	0.8
Jackson	1.8	2.2	1.9	2.1	2.9	2.2	1.6	1.4	1.6	1.7	2.1	1.1
Jasper	2.3	1.7	1.9	1.0	1.0	1.5	1.9	1.4	2.1	3.9	2.8	2.0

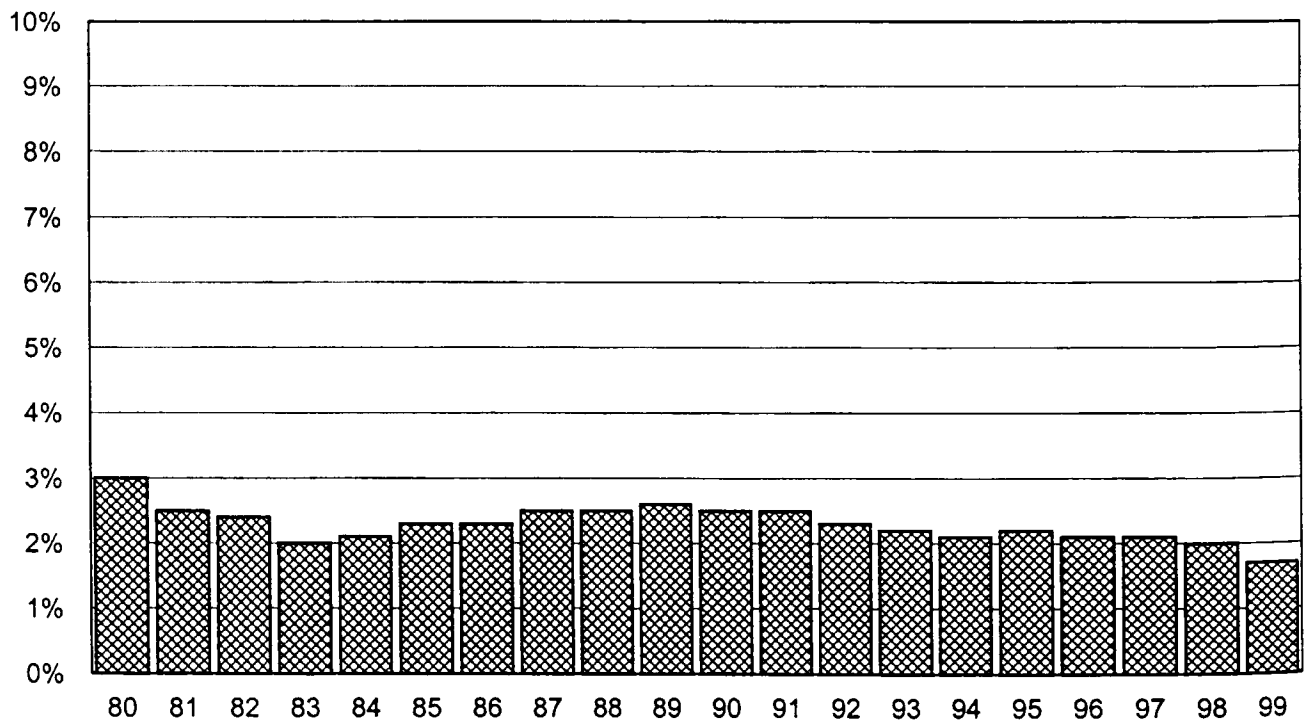
Table 2. Percentage of Public Secondary School Dropouts in Iowa's Counties, 1984 and 1989-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1984
Jefferson	3.1	2.3	2.3	2.4	2.8	2.0	3.9	3.0	2.5	2.7	3.5	1.0
Johnson	0.7	1.4	0.8	1.1	1.8	1.2	1.4	1.0	1.1	3.8	2.9	1.8
Jones	1.6	2.8	2.7	2.3	3.0	2.7	2.1	1.2	1.5	2.1	0.9	0.9
Keokuk	1.3	1.1	1.1	1.1	1.5	1.7	1.2	1.5	1.4	0.6	1.1	0.5
Kossuth	0.3	0.2	0.5	0.4	0.5	0.9	1.1	0.8	0.7	1.5	1.0	0.7
Lee	2.0	2.2	3.2	4.2	6.4	4.0	3.2	2.8	3.1	2.9	3.6	3.2
Linn	1.0	1.2	0.9	1.5	1.6	1.2	1.1	1.8	1.2	2.1	3.0	1.9
Louisa	3.6	4.0	2.1	1.3	3.9	2.1	1.0	2.1	2.0	2.8	3.2	2.6
Lucas	1.7	4.0	2.1	3.2	4.2	2.0	2.0	1.4	1.8	2.5	3.6	3.1
Lyon	0.5	0.5	0.6	1.1	0.7	0.7	0.5	0.4	0.9	0.5	0.2	0.4
Madison	0.4	1.1	0.6	1.6	1.2	1.1	0.6	0.7	1.7	2.1	1.1	1.1
Mahaska	2.6	2.5	2.3	2.9	2.8	5.7	2.5	2.1	2.0	1.8	2.9	3.0
Marion	1.1	1.5	1.9	2.0	2.1	1.3	1.4	1.6	1.4	1.9	1.3	1.7
Marshall	1.3	1.5	1.7	1.7	1.4	0.7	0.8	1.6	2.6	3.1	3.5	1.7
Mills	1.4	1.1	2.4	1.9	2.0	2.4	2.2	2.2	1.5	1.7	1.4	1.1
Mitchell	1.2	0.6	0.7	0.9	0.8	0.6	1.2	1.1	1.2	1.7	0.3	1.4
Monona	1.5	1.7	2.3	3.0	2.4	1.8	2.3	1.7	1.9	1.6	1.4	1.6
Monroe	2.3	2.6	2.0	3.6	2.5	2.2	2.4	3.3	2.2	2.5	1.9	3.2
Montgomery	2.0	1.8	1.8	1.6	2.4	1.6	1.3	2.4	1.8	1.6	1.5	3.6
Muscatine	5.2	4.4	5.7	5.5	5.0	4.5	3.3	2.6	2.5	2.6	3.5	4.3
O'Brien	0.6	1.0	1.2	1.1	1.0	0.8	1.6	1.2	1.2	1.2	1.5	1.5
Osceola	1.2	0.8	0.0	0.6	0.9	0.2	1.6	0.5	1.8	2.0	0.7	0.4
Page	1.4	0.9	2.2	3.2	2.1	2.1	2.2	1.9	2.8	2.2	2.5	2.0
Palo Alto	0.7	0.9	0.9	0.5	1.1	1.6	1.1	1.2	1.3	0.7	1.9	1.4
Plymouth	0.8	0.9	0.6	0.9	1.3	0.3	0.7	1.0	1.3	1.8	2.0	1.0
Pocahontas	1.0	0.3	0.3	1.4	0.2	0.9	0.8	1.4	1.1	1.7	0.5	0.5
Polk	2.2	2.8	2.1	2.1	2.6	2.6	2.5	3.7	4.7	3.8	4.0	3.5
Pottawattamie	1.4	2.0	2.7	2.0	2.2	2.1	1.8	1.7	2.8	4.0	5.0	3.8
Poweshiek	1.1	0.5	0.9	1.6	0.8	2.1	2.0	2.2	2.5	1.6	2.1	1.0
Ringgold	1.0	0.6	0.6	0.4	1.3	1.1	2.9	2.2	0.7	0.7	1.8	0.6
Sac	0.3	0.8	0.6	1.4	1.7	2.2	1.7	1.0	0.8	0.7	1.6	0.5
Scott	2.0	2.6	3.1	3.1	3.0	3.6	5.1	4.4	4.6	4.2	4.1	2.9
Shelby	1.1	1.1	1.0	1.2	1.1	1.2	1.0	0.2	0.7	1.5	1.5	1.0
Sioux	0.5	0.7	0.7	0.1	0.2	0.5	0.9	1.1	0.8	0.9	0.8	0.6
Story	0.9	0.5	0.7	1.0	1.1	1.2	1.3	1.0	1.4	1.2	1.0	1.3
Tama	2.0	2.5	1.8	2.2	1.9	2.7	2.0	2.1	1.4	1.2	1.1	1.4
Taylor	1.5	1.6	0.8	1.7	2.9	0.7	0.4	1.0	0.8	1.1	0.6	0.3
Union	3.4	2.6	3.1	1.6	3.5	2.6	1.7	1.8	1.2	2.0	1.2	1.2
Van Buren	1.4	2.1	1.8	1.9	3.2	1.2	2.5	1.9	1.5	2.0	1.4	1.5
Wapello	5.5	4.0	2.4	3.5	3.8	2.5	3.7	4.2	2.5	2.1	2.3	1.5
Warren	1.1	2.7	2.3	2.6	4.0	2.4	1.1	1.0	1.5	2.4	2.2	0.9
Washington	1.4	2.1	3.4	1.6	2.9	2.7	2.5	2.8	1.8	1.6	1.5	1.2
Wayne	2.1	1.9	2.7	3.8	0.9	0.7	0.9	0.7	3.2	2.1	1.7	1.6
Webster	2.5	3.0	3.4	2.6	3.3	3.2	2.9	2.8	2.7	2.9	4.3	1.6
Winnebago	0.9	1.3	1.6	1.3	2.4	2.0	2.4	1.6	1.2	1.5	1.3	0.6
Winneshiek	0.7	0.7	0.8	0.4	0.7	1.7	1.7	1.4	0.7	0.8	0.6	1.5
Woodbury	4.6	2.8	2.9	3.2	2.2	3.9	3.7	3.3	4.0	2.7	2.7	2.1
Worth	0.7	1.8	2.9	2.0	0.9	1.9	1.7	1.2	1.4	2.4	1.0	1.1
Wright	1.6	1.7	1.4	1.3	1.3	0.8	0.8	0.8	0.9	1.0	1.2	0.8
State of Iowa	1.7	2.0	2.1	2.1	2.2	2.1	2.2	2.3	2.5	2.5	2.6	2.1

**Figure 1. Dropouts from public secondary schools in Iowa, 1980–1999.**



**Figure 2. Dropouts as percent of public secondary school enrollees in Iowa, 1980–1999.**



## Students Receiving Free or Reduced-Price School Meals in October in Iowa's Counties: 1995-1999

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Nutrition assistance is provided to low-income students enrolled in Iowa's schools. Students qualify for the program on the basis of family income; those with lower income (135% or less of the federal poverty threshold) can be eligible for free meals while others with somewhat higher income (136% through 180% of the federal poverty threshold) can receive meals at a reduced price. The Iowa Department of Education administers the program based on U.S. Department of Agriculture guidelines. The program includes public and private schools and also residential child care institutions that meet the guidelines.

For this report, data from the month of October were used each year. Information on the meal program 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. Changes have been made in the eligibility requirements for the program throughout the period; they may have some effect on year-to-year comparisons.

### Free Meals

In October of 1995, more than 105,000 students in Iowa received free meals at school (Table 1). This number increased to nearly 110,000 in 1997 and then declined to the 104,000 noted in 1999, a figure below that reported in 1995.

In 1999, Black Hawk, Linn, Polk, and Scott had at least 5,000 students receiving free meals in October. Eighteen other counties had at least 1,000 such students in that category. All counties except Adams, Osceola, and Worth reported 200 or more students receiving free meals in 1999.

The number of students receiving free meals in 1999 was 1,145 fewer than in 1995. Two-thirds (68) of the counties also had fewer students in the program in 1999 than in 1995. Declines were relatively modest, however; 49 counties dropped by fewer than 100 students receiving free meals and none had declines of 200 or more. Gains, on the other hand, exceeded 200 in seven counties (Black Hawk, Clinton, Johnson, Linn, Marshall, Polk, Scott), although no increase was as much as 700. Increases in Scott (+614) and Polk (+514) were substantially higher than others.

### Reduced-Price Meals

The number of students in Iowa receiving reduced-price meals increased from 33,900 in 1995 to 39,100 in 1998 and then declined slightly to 38,700 in 1999 (Table 1). In 1999, Polk had 4,607 students getting reduced-price meals, a figure more than 2,800 greater than the second highest total, which occurred in Linn (1,784). The counts also were greater than 1,000 in Black Hawk, Dubuque, Pottawattamie, Scott, and Woodbury. Nearly two-thirds (65) of the counties had fewer than 300 students

Table 1. Number of Students Receiving Free or Reduced-Price Meals in October in Iowa's Counties, 1995-1999.

County	Students Receiving Free Meals					Students Receiving Reduced-Price Meals				
	1999	1998	1997	1996	1995	1999	1998	1997	1996	1995
Adair	250	281	257	310	300	159	123	124	148	137
Adams	173	179	186	200	187	83	69	62	63	60
Allamakee	596	605	602	563	601	260	311	287	277	247
Appanoose	790	911	895	870	881	225	293	206	216	182
Audubon	203	218	201	213	209	109	109	105	86	113
Benton	645	699	717	734	704	282	315	286	289	292
Black Hawk	5905	6015	6093	5483	5599	1628	1551	1423	1275	1067
Boone	658	630	647	629	577	288	241	258	249	253
Bremer	688	736	721	756	797	236	286	275	335	318
Buchanan	646	663	626	666	663	216	199	208	220	209
Buena Vista	1072	1105	1167	1082	1102	449	454	445	406	478
Butler	286	296	357	347	400	183	172	127	163	198
Calhoun	460	450	480	530	520	226	226	214	214	229
Carroll	706	667	717	778	796	364	389	338	383	395
Cass	610	573	641	706	720	287	272	247	240	243
Cedar	463	454	499	539	510	201	227	222	199	173
Cerro Gordo	1363	1372	1454	1528	1470	633	700	630	568	565
Cherokee	355	359	375	393	487	165	179	195	166	217
Chickasaw	383	371	391	385	370	222	229	220	219	260
Clarke	519	501	471	518	506	213	212	195	170	143
Clay	426	445	449	438	531	245	234	271	293	218
Clayton	689	695	783	754	824	407	413	376	389	376
Clinton	2009	1820	1783	1769	1724	581	518	476	407	375
Crawford	780	761	764	716	756	331	314	319	347	244
Dallas	1228	1161	1249	1150	1126	464	448	428	395	391
Davis	254	274	304	352	305	95	114	107	104	105
Decatur	552	567	623	571	519	166	180	159	188	167
Delaware	621	657	702	713	694	278	280	265	219	213
Des Moines	1724	1803	1812	1659	1614	455	468	469	420	360
Dickinson	396	426	422	443	415	184	217	193	176	199
Dubuque	2879	2911	3121	3243	3060	1375	1501	1266	1298	1224
Emmet	655	690	690	645	703	235	219	202	187	192
Fayette	1000	997	964	1015	924	462	499	425	365	440
Floyd	740	808	865	817	855	247	279	292	283	257
Franklin	355	393	406	442	408	175	194	172	186	177
Fremont	332	364	379	376	332	204	174	175	152	193
Greene	480	475	454	487	440	189	245	257	210	213
Grundy	389	385	428	458	365	227	213	256	213	202
Guthrie	432	445	485	473	490	207	188	216	208	179
Hamilton	482	521	540	515	576	216	224	233	278	252
Hancock	282	315	367	390	381	205	200	202	202	206
Hardin	1003	1044	1055	1107	1086	258	322	306	258	316
Harrison	688	793	786	769	782	355	281	357	325	317
Henry	695	716	703	688	587	261	258	289	234	243
Howard	322	372	402	408	458	229	267	241	271	272
Humboldt	282	300	288	287	305	145	147	159	166	162
Ida	289	287	275	277	306	162	168	143	192	140
Iowa	361	394	371	399	356	198	212	202	178	180
Jackson	728	819	770	803	738	384	374	362	338	334
Jasper	916	934	971	929	891	352	327	336	344	285

Table 1. Number of Students Receiving Free or Reduced-Price Meals in October in Iowa's Counties, 1995-1999 (continued).

County	Students Receiving Free Meals					Students Receiving Reduced-Price Meals				
	1999	1998	1997	1996	1995	1999	1998	1997	1996	1995
Jefferson	363	408	387	363	348	106	121	101	85	75
Johnson	1764	1677	1734	1707	1524	532	546	445	425	447
Jones	634	702	724	721	701	303	252	268	288	242
Keokuk	489	485	529	592	507	156	159	165	130	138
Kossuth	617	612	637	667	712	340	358	460	434	403
Lee	1700	1694	1857	1598	1601	460	456	484	351	373
Linn	5726	5728	5903	5734	5492	1784	1955	2013	1776	1701
Louisa	814	759	851	793	729	237	196	154	173	180
Lucas	402	451	482	446	432	115	100	109	123	102
Lyon	288	302	315	330	419	214	206	176	195	156
Madison	351	371	368	387	418	183	175	157	217	211
Mahaska	746	754	762	783	798	249	192	184	224	225
Marion	780	880	875	868	937	412	368	406	364	285
Marshall	1976	1848	1886	1735	1623	583	547	509	481	448
Mills	703	653	648	591	530	193	254	205	230	182
Mitchell	278	292	298	306	341	165	154	149	166	150
Monona	393	430	434	461	441	129	167	147	160	136
Monroe	303	326	387	366	364	105	165	136	116	85
Montgomery	536	505	528	520	422	171	168	140	112	99
Muscatine	1784	1763	1851	1886	1803	486	523	471	492	508
O'Brien	534	511	536	570	611	271	326	307	282	286
Osceola	160	157	155	194	150	81	93	110	84	103
Page	758	757	717	769	744	175	178	167	164	172
Palo Alto	411	398	427	441	502	234	239	235	198	196
Plymouth	624	597	591	672	665	345	316	343	327	359
Pocahontas	280	282	308	310	354	136	139	137	141	109
Polk	12887	13568	13889	13249	12373	4607	4301	3967	3414	3256
Pottawattamie	4232	4516	4642	4757	4419	1340	1401	1316	1324	1108
Poweshiek	499	482	507	459	449	179	193	219	210	171
Ringgold	290	279	333	364	372	70	106	100	73	68
Sac	485	469	496	528	597	242	226	251	231	256
Scott	7595	7506	7484	7458	6978	1555	1443	1307	1342	1183
Shelby	518	530	591	620	689	347	317	286	335	312
Sioux	1057	997	1079	1093	1195	763	801	811	786	817
Story	1304	1400	1418	1472	1414	505	507	506	538	461
Tama	789	816	779	744	737	340	346	316	307	269
Taylor	354	366	416	400	380	139	148	129	133	141
Union	543	568	615	641	653	281	286	250	266	265
Van Buren	340	327	365	355	401	132	153	133	142	126
Wapello	1790	1917	2060	1901	1910	506	568	525	586	490
Warren	686	778	823	807	758	377	430	461	404	357
Washington	599	594	623	670	609	274	232	264	223	193
Wayne	372	406	401	400	419	136	150	149	168	157
Webster	1451	1550	1529	1617	1483	478	543	517	510	520
Winnebago	393	386	466	431	441	245	243	219	225	236
Winneshiek	398	424	492	493	478	226	272	229	226	219
Woodbury	4757	4847	5061	4977	4684	1666	1699	1491	1408	1341
Worth	180	199	218	235	253	119	110	115	94	99
Wright	583	598	652	620	611	251	255	228	242	228
State of Iowa	104276	106522	109837	108424	105421	38664	39118	37188	35637	33855

Table 2. Percent of Students Receiving Free or Reduced-Price Meals and Number of Students Enrolled in October in Iowa's Counties, 1995-1999.

County	Percent of Students Receiving Free or Reduced-Price Meals					Number of Students Enrolled				
	1999	1998	1997	1996	1995	1999	1998	1997	1996	1995
Adair	33.7	32.8	30.8	35.8	33.9	1214	1233	1239	1279	1288
Adams	35.0	34.7	33.9	36.1	33.6	731	715	732	729	736
Allamakee	30.5	31.7	30.5	28.8	29.0	2809	2890	2915	2919	2921
Appanoose	42.0	47.3	43.3	41.2	40.2	2419	2544	2540	2633	2643
Audubon	28.0	28.6	26.7	25.8	27.4	1114	1145	1147	1159	1174
Benton	21.1	22.9	22.5	23.0	22.8	4391	4436	4451	4452	4365
Black Hawk	34.7	35.5	34.1	30.9	31.3	21721	21317	22056	21887	21306
Boone	21.2	20.4	20.8	19.9	19.7	4459	4263	4343	4406	4208
Bremer	17.1	18.5	18.8	19.5	19.6	5398	5513	5312	5607	5699
Buchanan	24.9	24.8	23.9	24.9	24.3	3465	3471	3489	3565	3595
Buena Vista	34.8	35.3	37.1	34.5	36.2	4366	4421	4347	4310	4362
Butler	22.2	22.0	22.1	23.0	24.1	2117	2132	2187	2213	2482
Calhoun	28.1	26.8	27.5	28.8	28.2	2440	2525	2525	2582	2658
Carroll	22.4	21.4	21.1	23.1	23.8	4787	4932	5002	5030	5001
Cass	30.6	29.3	30.4	31.4	31.6	2930	2887	2922	3015	3045
Cedar	18.4	18.5	19.4	20.3	18.5	3604	3682	3721	3642	3685
Cerro Gordo	25.6	26.0	25.9	25.9	25.1	7795	7954	8031	8101	8106
Cherokee	22.6	22.5	23.6	22.6	25.0	2304	2393	2419	2473	2815
Chickasaw	22.5	21.8	22.0	23.9	25.5	2691	2753	2779	2527	2471
Clarke	39.4	38.8	36.3	37.5	35.7	1856	1837	1837	1837	1819
Clay	22.7	22.2	23.4	23.7	23.7	2950	3052	3080	3080	3164
Clayton	29.1	28.6	29.9	29.1	30.3	3761	3868	3873	3926	3955
Clinton	27.7	25.7	24.9	23.8	22.8	9341	9083	9066	9158	9218
Crawford	38.6	37.6	36.9	36.4	34.2	2875	2856	2938	2920	2922
Dallas	19.4	19.0	20.3	19.3	19.4	8715	8475	8255	8024	7827
Davis	28.3	31.3	32.2	34.2	30.9	1232	1239	1277	1334	1326
Decatur	50.8	48.4	52.2	52.4	47.9	1414	1543	1498	1448	1433
Delaware	22.9	23.6	23.7	22.8	22.1	3925	3965	4082	4094	4112
Des Moines	29.1	29.6	29.4	27.2	25.6	7492	7682	7754	7630	7698
Dickinson	20.5	22.8	21.7	21.5	21.7	2829	2819	2837	2874	2836
Dubuque	24.0	24.7	24.4	24.8	22.2	17695	17863	18013	18307	19317
Emmet	39.1	39.5	38.3	36.3	37.8	2276	2303	2328	2292	2370
Fayette	31.6	32.3	29.3	29.7	29.6	4620	4632	4741	4644	4612
Floyd	30.0	33.1	34.5	32.4	33.0	3285	3286	3352	3391	3369
Franklin	27.3	29.4	29.0	30.2	28.3	1941	1997	1990	2079	2064
Fremont	32.7	33.0	34.4	32.0	31.8	1638	1629	1610	1652	1651
Greene	32.7	35.0	35.0	35.0	34.6	2049	2058	2034	1993	1885
Grundy	24.2	24.0	22.6	21.8	20.2	2550	2491	3022	3072	2808
Guthrie	28.5	27.3	29.9	29.2	28.4	2244	2320	2343	2334	2352
Hamilton	23.7	23.5	24.6	25.0	26.2	2948	3171	3143	3166	3162
Hancock	23.8	24.4	26.4	27.2	27.9	2049	2109	2155	2175	2107
Hardin	34.4	35.5	35.6	34.5	35.3	3667	3847	3826	3959	3969
Harrison	30.7	31.5	33.5	32.1	32.7	3396	3409	3410	3407	3357
Henry	24.9	25.4	25.9	24.0	21.8	3835	3830	3828	3840	3816
Howard	24.9	28.2	28.0	29.6	31.3	2214	2266	2294	2295	2332
Humboldt	21.2	21.8	22.5	23.4	23.6	2012	2054	1989	1936	1980
Ida	31.9	31.2	27.8	30.3	29.8	1412	1459	1504	1549	1497
Iowa	18.2	19.8	19.0	19.3	16.9	3072	3061	3009	2997	3181
Jackson	27.4	28.8	27.2	26.9	25.3	4056	4140	4156	4239	4243
Jasper	19.7	19.3	20.1	19.6	18.1	6451	6524	6516	6504	6499



Table 2. Percent of Students Receiving Free or Reduced-Price Meals and Number of Students Enrolled in October in Iowa's Counties, 1995-1999 (continued).

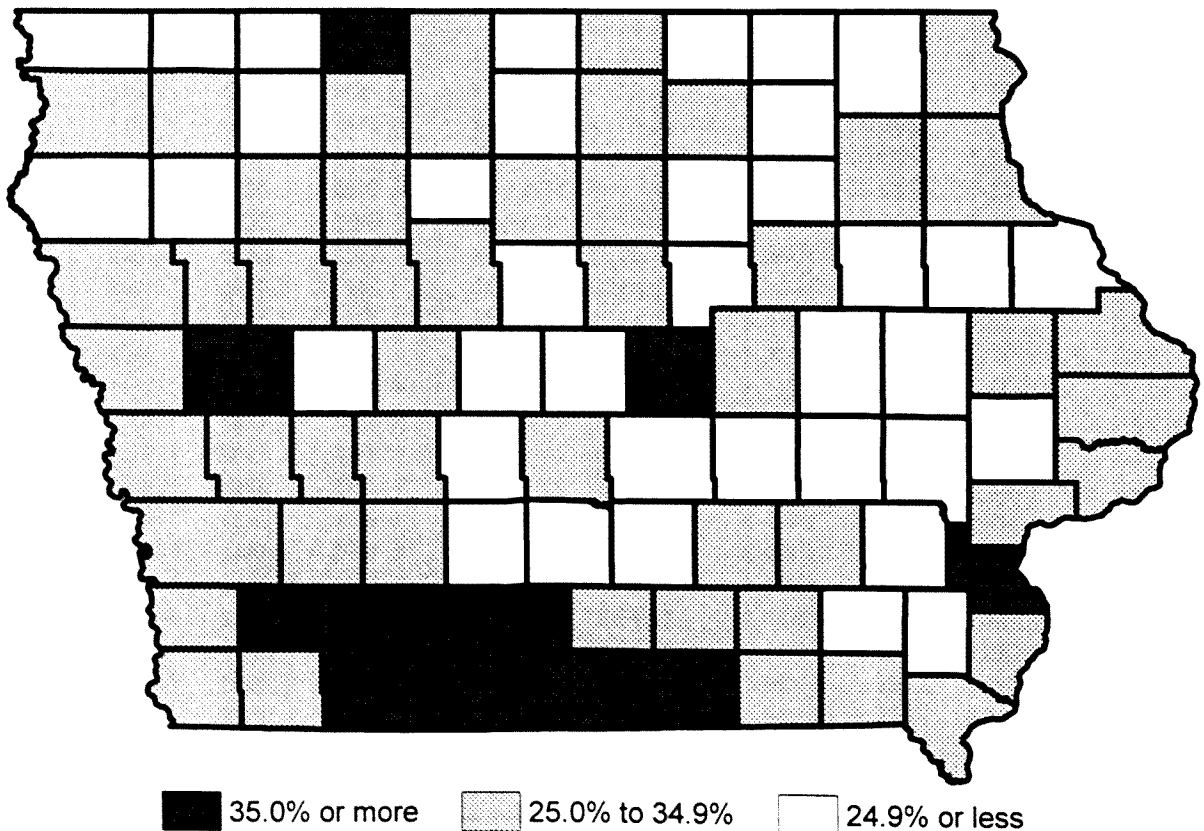
County	Percent of Students Receiving Free or Reduced-Price Meals					Number of Students Enrolled				
	1999	1998	1997	1996	1995	1999	1998	1997	1996	1995
Jefferson	22.1	24.2	22.8	22.1	21.5	2119	2183	2142	2023	1966
Johnson	16.2	16.2	16.1	16.0	15.0	14180	13721	13561	13344	13130
Jones	25.3	26.0	26.8	27.2	25.4	3706	3676	3707	3713	3716
Keokuk	27.0	26.8	27.7	28.8	26.1	2388	2407	2507	2507	2474
Kossuth	29.0	29.0	31.2	30.9	31.3	3298	3342	3513	3561	3560
Lee	30.8	30.5	33.0	26.8	26.7	7009	7057	7101	7284	7405
Linn	20.3	20.8	22.4	21.5	20.8	36942	36917	35387	34871	34648
Louisa	36.4	32.9	33.6	32.0	30.2	2891	2906	2987	3021	3007
Lucas	32.5	33.8	35.3	34.8	33.3	1589	1628	1673	1633	1603
Lyon	23.7	23.7	22.2	22.9	24.6	2118	2146	2216	2296	2338
Madison	18.2	18.2	17.9	20.8	21.9	2931	2992	2936	2904	2871
Mahaska	29.1	27.7	27.2	28.6	29.3	3425	3418	3483	3518	3493
Marion	18.5	19.5	20.1	19.3	19.1	6458	6411	6382	6385	6400
Marshall	36.7	34.6	35.1	32.6	30.6	6971	6914	6833	6795	6776
Mills	31.7	33.0	30.9	30.0	27.1	2827	2747	2764	2739	2627
Mitchell	22.7	22.5	22.0	22.8	23.8	1949	1984	2031	2073	2063
Monona	31.4	34.5	33.2	34.0	31.1	1663	1730	1752	1826	1855
Monroe	31.5	35.9	38.5	35.7	33.2	1297	1366	1359	1351	1352
Montgomery	35.4	34.5	32.6	32.0	26.6	1998	1950	2046	1977	1956
Muscatine	29.3	29.7	30.5	31.0	30.7	7753	7699	7622	7675	7525
O'Brien	25.6	26.1	26.0	25.9	26.6	3139	3212	3245	3293	3378
Osceola	23.9	23.7	24.6	25.6	25.6	1010	1053	1078	1086	990
Page	31.5	30.7	28.8	29.0	28.4	2958	3044	3074	3222	3226
Palo Alto	30.6	29.6	30.0	28.7	30.9	2108	2155	2207	2228	2260
Plymouth	17.6	16.4	17.0	17.7	18.6	5494	5566	5500	5644	5514
Pocahontas	29.7	28.3	28.3	28.8	28.9	1401	1488	1573	1566	1604
Polk	26.1	26.4	26.8	25.8	24.2	66927	67735	66716	64471	64587
Pottawattamie	31.6	32.7	33.2	33.8	32.2	17613	18073	17922	18017	17190
Poweshiek	21.1	22.0	23.5	20.6	19.9	3217	3074	3085	3247	3114
Ringgold	38.5	40.8	42.4	41.0	42.9	936	943	1021	1065	1026
Sac	33.2	30.8	32.2	32.6	36.2	2187	2255	2317	2331	2356
Scott	30.8	29.6	29.1	28.8	26.8	29705	30201	30245	30583	30471
Shelby	31.3	29.8	31.0	33.1	32.5	2768	2839	2833	2887	3078
Sioux	26.2	25.6	26.3	25.8	27.4	6958	7022	7186	7279	7343
Story	16.6	17.4	18.0	18.9	17.7	10922	10970	10699	10650	10574
Tama	31.2	31.1	34.2	32.8	31.7	3621	3736	3202	3204	3178
Taylor	38.4	39.5	40.4	40.8	40.1	1285	1302	1349	1305	1300
Union	37.2	37.1	36.8	39.0	38.9	2213	2299	2353	2328	2358
Van Buren	34.5	34.2	34.4	34.9	35.9	1370	1403	1447	1426	1467
Wapello	34.9	37.3	38.2	36.7	35.6	6583	6664	6763	6770	6735
Warren	14.3	16.1	17.0	16.5	14.8	7413	7503	7551	7323	7527
Washington	23.4	21.8	23.3	23.5	21.4	3736	3795	3801	3802	3744
Wayne	45.1	47.0	45.8	41.5	45.9	1126	1184	1202	1369	1254
Webster	27.9	30.2	30.2	30.3	29.6	6902	6941	6765	7010	6777
Winnebago	22.8	22.4	23.8	22.9	23.1	2803	2806	2878	2863	2936
Winneshiek	18.9	20.9	21.7	21.4	22.6	3298	3332	3321	3353	3079
Woodbury	31.6	32.0	31.7	31.5	30.6	20348	20452	20686	20261	19699
Worth	26.6	26.6	28.7	28.8	30.5	1124	1163	1160	1143	1155
Wright	27.9	28.8	29.1	28.0	27.0	2990	2962	3026	3080	3108
State of Iowa	26.7	26.9	27.2	26.7	25.9	536222	540440	540124	538987	537234

receiving reduced-price meals. Ringgold (70) had the fewest students obtaining such meals; Adams, Davis, and Osceola were the only other counties under 100.

**Percentage of Students Receiving Free or Reduced-Price Meals**

In October of 1999, 26.7 percent of students enrolled in school received either free or reduced-price meals (Table 2; this table contains the number of students enrolled that month as well). Although the percentage for the state did not vary greatly from 1995 through 1999, it was highest in 1997 (27.2%). In the most recent year, 12 counties had percentages in the meal program below 20, with Warren the lowest at 14.3 percent. Thirteen counties had percentages of 35 or greater (Figure 1), with three at 40 percent or higher (Appanoose, Decatur, Wayne). For 56 counties, the percentages for October of 1999 were lower than what they had been in 1995, although only Hancock, Howard, and Ringgold dropped by at least four percentage points. In 42 counties, percentages of students in the meal program were greater in 1999 than in 1995. Nine had gains of at least four percentage points, with the increase of 8.7 percentage points in Montgomery the highest reported.

**Figure 1. Percent of students receiving free or reduced-price school meals in October, 1999.**



## Expenditures by the U.S. Department of Veterans Affairs in Iowa's Counties: 1990 and 1994-1999

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Willis Goudy, Iowa State University  
Henry Caplan, U.S. Department of Veterans Affairs

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A report of expenditures by the U.S. Department of Veterans Affairs is released by fiscal year. In 1999, more than \$408 million was expended by Veterans Affairs in Iowa's counties (Table 1). That was an increase of nearly \$74 million since 1990, when the total was \$335 million, but a decline of \$200,000 from 1998. Expenditures varied greatly across the 99 counties in this state. Adams, Audubon, Ida, Osceola, and Ringgold each had less than \$500,000 while at least \$5 million was spent in 10 counties. The \$36.6 million in Marion, \$98.7 million in Johnson, and \$99.6 million in Polk were significantly higher than figures for other counties; each of these counties has a relatively large federal facility for veterans. The next highest level of expenditure was \$11.7 million in Linn.

Total expenditures related to programs for veterans decreased in 13 counties from 1990 to 1999. Of these 13, Buena Vista, Decatur, and Emmet had declines between \$100,000 and \$199,000. The drop of nearly \$3.6 million in Marion was substantially greater than the others, primarily because of the federal facility located there. Gains exceeded \$100,000 in 57 of Iowa's 99 counties. In Black Hawk, Dubuque, Johnson, Linn, Marshall, Polk, Pottawattamie, Scott, and Woodbury, increases in total expenditures exceeded \$1 million when 1990 and 1999 were compared.

Statewide, compensation and pension expenditures totaled \$174 million in 1999 (Table 2). Dollars spent for compensation and pensions were less than \$500,000 in nine counties but exceeded \$1 million in 45 others in 1999. The highest figure (\$24.2 million) occurred in Polk; no other county had more than \$10 million in compensation and pensions that year. Gains between 1990 and 1999 occurred in 85 counties, with the increase exceeding \$100,000 in 50 of them. In contrast, only 4 of the 14 counties with declines reported drops greater than \$100,000 during the period.

Expenditures for readjustment and vocational rehabilitation, which includes education benefits, were \$13.9 million in 1999, nearly 60 percent higher than the \$8.7 million reported in 1990 (Table 2). Black Hawk, Johnson, Linn, Polk, Scott, Story, and Woodbury each received more than a half million for readjustment and vocational rehabilitation; together, they received 56.1 percent of these expenditures in Iowa. Statewide, this category of benefits had the largest percentage increase (+59.9%) of any of the individual expenditure components between 1990 and 1999.

Insurance and indemnity expenditures totaled \$23.9 million in 1999. Although 28 counties received less than \$100,000 in this category, Black Hawk, Linn, Polk, and Scott obtained more than \$1 million. Between 1990 and 1999, insurance and indemnity expenditures increased \$1.6 million (7.0%). All but 14 counties gained, with 15 increasing by at least 20 percent.

Two other categories of expenditures are reported by the U.S. Department of Veterans Affairs. Although only three counties (Johnson, Marion, Polk) in Iowa received funds for medical services and administration in 1999, the total of \$193 million was the greatest of any category reported in 1999 (Table 3). Lee and Sac were the only other counties to obtain these funds in the 1990-1999 period. Funds for medical services and administration accounted for about half of all expenditures during each of these years.

The remaining category—construction and related costs—always was the smallest of those reported (Table 3). Again, only five counties received these funds in any year from 1990 through 1999;

Table 1. Total Veterans Affairs Expenditures (in \$1,000s) in Iowa's Counties, 1990 and 1994-1999.

County	1999	1998	1997	1996	1995	1994	1990
Adair	646	527	472	483	479	473	528
Adams	374	315	300	309	283	266	361
Allamakee	1169	1222	1045	959	910	806	745
Appanoose	1765	1839	1633	1656	1556	1498	1464
Audubon	491	690	425	430	411	437	394
Benton	1704	1600	1557	1516	1467	1331	1367
Black Hawk	8796	8706	8398	8307	7654	7005	6905
Boone	1973	1807	1937	1742	1869	1865	1821
Bremer	1134	1116	1169	1193	1170	1133	1078
Buchanan	1170	1163	1077	1058	1052	979	1031
Buena Vista	1260	1271	1333	1389	1327	1257	1427
Butler	916	866	892	862	794	791	814
Calhoun	861	928	996	868	891	802	888
Carroll	1269	1263	1199	1200	1187	1191	1220
Cass	1166	1181	1178	1188	1049	1042	1083
Cedar	1033	946	934	861	813	744	674
Cerro Gordo	3357	3376	3309	3415	3481	3382	3225
Cherokee	932	963	980	904	868	849	869
Chickasaw	769	897	759	780	755	676	737
Clarke	580	643	634	682	640	637	626
Clay	1331	1393	1265	1316	1251	1193	1117
Clayton	1380	1336	1246	1189	1139	1213	1315
Clinton	3360	3196	3126	3107	3040	2978	2965
Crawford	1002	992	1074	978	908	933	1013
Dallas	2453	2465	2309	2229	2140	2144	1772
Davis	708	706	698	621	601	708	562
Decatur	675	722	690	688	651	669	777
Delaware	978	949	919	1012	897	906	1027
Des Moines	3014	2959	2882	2899	2703	2598	2652
Dickinson	1441	1336	1265	1194	1022	991	1019
Dubuque	5848	5463	5403	5328	4650	4552	4521
Emmet	809	956	976	1045	1032	985	923
Fayette	1546	1554	1558	1561	1439	1379	1391
Floyd	1653	1656	1717	1676	1592	1371	1228
Franklin	734	732	729	726	692	682	683
Fremont	810	652	706	674	653	621	643
Greene	785	790	806	852	838	726	739
Grundy	711	659	656	649	651	602	656
Guthrie	744	702	724	733	713	699	766
Hamilton	1144	1106	1028	1037	1045	961	1051
Hancock	591	714	622	611	610	580	521
Hardin	1266	1043	1076	1108	1085	1127	1133
Harrison	1829	1221	1120	1134	1082	1089	1143
Henry	1041	888	857	864	859	897	807
Howard	723	787	725	691	588	555	627
Humboldt	687	679	669	742	668	688	585
Ida	406	413	383	409	358	352	393
Iowa	981	881	948	888	856	754	816
Jackson	1375	1395	1225	1170	1182	1131	1108
Jasper	1927	1897	1826	1833	1802	1840	1778

Table 1. Total Veterans Affairs Expenditures (in \$1,000s) in Iowa's Counties, 1990 and 1994-1999 (continued).

County	1999	1998	1997	1996	1995	1994	1990
Jefferson	730	761	809	835	774	747	676
Johnson	98704	98686	91455	96467	96742	96055	80207
Jones	1225	1194	1131	1157	1129	1096	1133
Keokuk	1170	984	917	1069	815	865	906
Kossuth	1237	1308	1278	1254	1143	1186	1107
Lee	3008	2955	2862	3079	3088	2886	2857
Linn	11683	11246	10769	10336	9849	8852	8819
Louisa	656	691	750	656	699	628	663
Lucas	982	899	852	889	879	783	808
Lyon	783	746	680	801	737	692	726
Madison	1027	983	946	873	863	798	819
Mahaska	1986	1921	1768	1821	1597	1590	1743
Marion	36551	42200	52196	55629	57635	53024	40103
Marshall	9375	8390	7966	7924	7342	6683	6549
Mills	1504	1478	1388	1276	1276	1148	935
Mitchell	682	631	528	543	497	484	528
Monona	1042	997	948	938	952	894	994
Monroe	1345	1246	1217	1209	1124	1000	888
Montgomery	1094	869	953	816	789	746	874
Muscatine	2073	2081	2011	1900	1804	1757	1965
O'Brien	1088	978	905	961	973	922	1064
Osceola	441	461	574	477	493	410	390
Page	1249	1223	1414	1210	1194	1054	1155
Palo Alto	817	726	754	739	726	660	679
Plymouth	1260	1228	1253	1283	1174	1124	1296
Pocahontas	781	766	714	770	673	618	645
Polk	99597	100059	90930	91223	93651	89573	70232
Pottawattamie	8014	7716	6916	6794	6421	5716	5699
Poweshiek	1215	1206	1184	1271	1277	1140	905
Ringgold	482	508	500	567	465	460	477
Sac	828	803	780	818	1386	1688	784
Scott	9870	9619	9005	8803	8540	7558	7134
Shelby	958	951	830	792	744	741	742
Sioux	1426	1281	1286	1260	1189	1181	1156
Story	3957	3891	3726	3824	3681	2969	3147
Tama	1009	1003	996	908	854	851	901
Taylor	761	599	608	660	644	591	670
Union	928	836	878	906	790	790	935
Van Buren	523	501	478	554	506	463	443
Wapello	3797	4220	3878	3965	3838	3532	3534
Warren	2940	2739	2757	2731	2602	2417	2196
Washington	960	955	964	929	928	950	1034
Wayne	792	732	710	711	712	671	747
Webster	3296	2891	2890	2956	2751	2689	2732
Winnebago	667	661	576	553	619	498	526
Winneshiek	1162	1148	1079	1106	1091	979	1055
Woodbury	7863	7621	7520	7158	6735	6827	6674
Worth	558	500	546	524	489	470	486
Wright	901	854	837	899	865	837	877
State of Iowa	408314	408508	396374	403587	401150	383384	334608

Table 2. Veterans Affairs Expenditures (in \$1,000s) in Selected Categories in Iowa's Counties, 1990 and 1994-1999.

County	Compensation and Pension							Readjustment and Vocational Rehabilitation							Insurance and Indemnities						
	1999	1998	1997	1996	1995	1994	1990	1999	1998	1997	1996	1995	1994	1990	1999	1998	1997	1996	1995	1994	1990
Adair	570	450	397	408	405	402	459	9	6	5	5	6	5	8	68	70	70	70	67	67	61
Adams	318	248	241	252	239	222	312	12	21	13	11	1	0	9	44	46	46	46	44	44	40
Allamakee	1036	1078	900	805	756	679	646	24	32	33	42	47	20	17	109	112	112	112	108	107	83
Appanoose	1574	1661	1430	1467	1386	1350	1346	65	49	74	60	46	25	15	125	129	129	130	124	123	103
Audubon	419	617	350	355	336	366	320	6	5	6	7	9	6	14	67	68	69	69	66	65	59
Benton	1409	1289	1226	1185	1166	1102	1137	105	117	135	134	114	43	59	190	195	196	196	188	187	171
Black Hawk	6728	6611	6282	6208	5629	5535	5246	996	994	1010	992	964	417	550	1072	1102	1105	1107	1060	1053	1110
Boone	1616	1489	1613	1412	1539	1587	1501	135	90	96	102	111	60	120	221	227	228	229	219	217	200
Bremer	852	830	871	887	864	915	808	112	112	123	131	138	51	104	170	175	175	176	168	167	166
Buchanan	955	947	845	852	847	798	832	49	46	62	34	42	18	47	166	170	171	171	164	163	152
Buena Vista	973	959	987	1084	1072	1048	1123	131	151	185	144	100	55	147	156	161	161	161	155	154	158
Butler	758	730	742	706	641	665	686	42	17	31	36	38	13	23	116	119	119	119	114	114	104
Calhoun	752	807	871	743	727	686	766	9	19	22	22	65	18	36	99	102	103	103	98	98	85
Carrroll	1046	1051	987	996	990	995	1042	63	48	48	39	40	40	30	160	164	165	165	158	157	148
Cass	1013	1027	1009	1032	906	918	940	28	26	41	28	20	1	24	125	128	128	129	123	122	119
Cedar	812	726	653	654	608	571	512	70	64	125	50	55	24	28	151	155	156	156	150	149	134
Cerro Gordo	2813	2820	2707	2784	2855	2862	2710	129	129	174	202	215	112	90	415	427	428	429	411	408	425
Cherokee	759	800	826	730	703	702	739	34	20	10	31	28	11	17	139	143	143	143	137	137	113
Chickasaw	620	737	604	637	620	561	623	45	54	48	36	32	13	21	103	106	107	107	102	102	94
Clarke	467	528	541	592	557	560	540	41	41	18	16	12	7	20	72	74	74	74	71	71	65
Clay	1124	1151	1029	1115	1040	1018	950	59	91	85	49	65	30	25	147	151	152	152	145	145	142
Clayton	1194	1148	1034	988	948	1045	1148	33	31	55	44	40	18	25	153	157	158	158	151	150	142
Clinton	2678	2550	2468	2438	2370	2395	2434	204	155	165	176	197	114	93	478	491	492	493	473	469	437
Crawford	833	818	884	790	742	780	868	29	30	46	43	28	16	18	140	144	144	144	138	137	128
Dallas	2091	2110	1957	1890	1803	1826	1471	99	85	81	68	77	60	80	263	270	271	271	260	258	221
Davis	632	608	616	534	513	633	488	14	34	19	23	28	15	15	62	63	64	64	61	61	59
Decatur	572	610	561	574	551	583	695	43	51	67	52	41	27	16	60	62	62	62	59	59	66
Delaware	809	790	749	847	743	760	897	47	34	45	39	33	25	23	122	125	126	126	121	120	107
Des Moines	2396	2371	2292	2307	2075	2118	2149	204	162	162	164	219	73	111	414	426	427	428	410	407	392
Dickinson	1220	1125	1054	993	841	819	866	59	46	45	35	22	13	23	162	166	167	167	160	159	130
Dubuque	4682	4320	4240	4093	3584	3626	3604	446	402	421	491	354	218	269	720	740	742	744	712	708	647
Emmet	668	802	819	831	860	844	785	39	50	53	109	72	41	45	102	104	105	105	100	100	93
Fayette	1224	1223	1258	1269	1161	1148	1150	142	147	116	107	101	55	72	179	184	185	185	177	176	169

Table 2. Veterans Affairs Expenditures (in \$1,000s) in Selected Categories in Iowa's Counties, 1990 and 1994-1999 (continued).

County	Compensation and Pension							Readjustment and Vocational Rehabilitation							Insurance and Indemnities						
	1999	1998	1997	1996	1995	1994	1990	1999	1998	1997	1996	1995	1994	1990	1999	1998	1997	1996	1995	1994	1990
Floyd	1472	1453	1506	1449	1367	1191	1064	34	51	59	75	80	36	28	147	151	152	152	145	144	136
Franklin	628	633	623	620	588	584	580	23	14	20	19	22	16	12	83	86	86	86	82	82	92
Fremont	725	556	607	578	561	508	550	11	21	23	20	19	40	22	74	76	76	76	73	73	71
Greene	679	681	695	731	722	636	639	19	20	22	31	30	4	18	87	89	89	89	86	85	81
Grundy	563	513	524	515	514	454	538	54	49	35	36	43	55	26	94	97	97	97	93	93	92
Guthrie	601	561	574	585	575	582	674	29	24	33	31	26	6	9	113	116	117	117	112	111	83
Hamilton	970	941	860	862	871	816	892	37	25	28	35	39	11	20	136	140	141	141	135	134	138
Hancock	472	607	514	486	488	469	405	25	11	10	28	29	19	26	94	97	97	97	93	92	90
Hardin	1051	841	860	861	865	915	930	47	30	43	74	54	48	42	167	172	173	173	166	165	161
Harrison	1675	1055	956	952	906	967	998	38	47	45	62	62	7	33	116	119	119	120	115	114	112
Henry	766	628	617	647	629	663	651	108	89	68	45	65	71	26	167	171	172	172	165	164	130
Howard	608	686	626	595	502	438	554	43	27	25	21	15	47	4	72	74	74	74	71	71	69
Humboldt	554	542	545	598	544	575	479	34	36	22	41	25	15	22	100	102	103	103	98	98	85
Ida	322	329	306	335	286	275	321	19	17	10	6	7	13	4	65	67	67	68	65	64	68
Iowa	829	723	764	745	702	606	694	33	36	62	20	37	32	20	118	122	122	122	117	116	103
Jackson	1165	1183	1032	966	973	947	942	51	48	29	39	52	27	26	159	163	164	164	157	156	140
Jasper	1526	1490	1449	1457	1436	1489	1492	90	89	57	56	58	45	21	310	319	320	321	307	305	266
Jefferson	553	587	646	660	604	588	537	48	42	30	43	44	32	37	129	132	133	133	127	126	102
Johnson	3870	3846	3322	3147	2919	2865	2608	1124	1141	1031	1202	1402	596	814	618	635	636	638	611	607	603
Jones	1012	981	924	940	896	903	952	41	36	29	39	63	23	35	173	177	178	178	171	170	147
Keokuk	1055	855	798	945	694	753	792	18	29	19	24	25	17	20	97	100	100	100	96	96	94
Kossuth	1042	1109	1037	1053	957	1018	934	44	45	87	46	38	21	30	150	154	154	155	148	147	143
Lee	2465	2470	2339	2370	2305	2264	2230	125	104	102	115	161	84	95	367	377	378	379	363	360	351
Linn	9187	8638	8143	7818	7277	6875	6712	901	969	982	871	994	409	601	1596	1640	1644	1647	1578	1567	1506
Louisa	513	549	546	534	566	511	548	35	31	93	11	26	11	26	108	111	111	111	107	106	89
Lucas	886	807	754	781	780	696	715	16	11	16	26	20	9	12	80	82	82	82	79	78	81
Lyon	676	640	573	696	632	607	627	31	27	29	26	29	10	20	76	78	79	79	75	75	79
Madison	888	851	817	743	735	684	722	36	26	24	24	27	13	18	103	106	106	106	102	101	79
Mahaska	1707	1638	1455	1528	1330	1368	1531	111	110	140	119	100	57	45	168	173	173	174	166	165	167
Marion	3726	4004	3465	3431	3214	2915	2108	96	91	76	92	106	63	44	265	272	273	274	262	260	243
Marshall	8827	7828	7377	7349	6777	6208	6113	106	107	134	118	127	41	65	442	454	456	457	437	435	372
Mills	1242	1111	1077	995	948	902	788	151	254	197	167	218	137	55	111	114	114	114	110	109	92
Mitchell	576	523	411	436	388	382	432	15	14	23	13	19	12	16	91	94	94	94	90	90	80

Table 2. Veterans Affairs Expenditures (in \$1,000s) in Selected Categories in Iowa's Counties, 1990 and 1994-1999 (continued).

County	Compensation and Pension							Readjustment and Vocational Rehabilitation							Insurance and Indemnities						
	1999	1998	1997	1996	1995	1994	1990	1999	1998	1997	1996	1995	1994	1990	1999	1998	1997	1996	1995	1994	1990
Monona	925	872	823	803	823	786	900	16	22	22	31	30	9	14	101	104	104	104	100	99	80
Monroe	1209	1119	1105	1082	1023	916	814	65	55	39	54	30	14	13	71	73	73	73	70	70	61
Montgomery	968	737	822	673	632	624	757	25	28	27	39	57	23	15	101	104	104	104	100	99	102
Muscatine	1622	1631	1565	1420	1383	1405	1587	137	128	123	156	110	43	54	314	323	324	324	311	308	325
O'Brien	923	812	742	808	808	774	885	41	38	35	25	43	26	61	124	127	128	128	122	122	119
Osceola	368	379	494	390	414	348	319	13	20	18	25	20	3	11	60	62	62	62	59	59	59
Page	1057	1033	1210	1004	996	892	983	40	35	48	50	48	13	40	152	156	156	157	150	149	131
Palo Alto	664	565	572	557	551	542	578	59	64	85	85	82	25	21	94	97	97	97	93	93	80
Plymouth	1021	964	969	994	910	905	1058	65	84	104	109	91	47	83	174	179	180	180	173	171	154
Pocahontas	675	658	614	653	561	536	553	28	27	18	36	35	5	12	79	81	81	82	78	78	81
Polk	24156	23983	22394	22658	21988	20897	19612	1757	1708	2108	2199	2402	1309	1216	2924	3005	3014	3019	2893	2873	2840
Pottawattamie	6779	6523	5696	5550	5298	4796	4606	443	380	403	427	340	142	353	792	814	816	818	783	778	740
Poweshiek	1020	1023	988	1060	1049	939	749	49	32	45	60	84	57	23	146	150	151	151	145	144	133
Ringgold	436	457	451	517	415	413	440	2	6	5	4	7	4	3	44	45	45	45	43	43	34
Sac	694	667	643	683	672	683	674	30	29	30	28	31	10	18	104	107	107	108	103	102	92
Scott	6992	6896	6445	6044	5783	5633	5172	1505	1312	1145	1341	1398	577	584	1373	1411	1415	1418	1358	1349	1378
Shelby	796	766	677	639	597	610	620	51	71	39	38	36	21	25	112	115	115	115	110	110	98
Sioux	1119	989	989	1000	938	962	915	116	95	99	62	61	31	72	191	197	197	198	189	188	168
Story	2475	2524	2280	2310	2143	2038	1903	1002	874	951	1018	1063	459	796	480	494	495	496	475	472	447
Tama	805	795	791	720	664	673	751	42	42	38	20	30	19	18	162	167	167	167	160	159	132
Taylor	661	512	516	574	564	522	603	33	19	23	17	14	3	8	67	69	69	69	66	66	59
Union	805	711	734	763	658	679	819	18	17	35	34	28	8	25	105	108	108	108	104	103	91
Van Buren	441	424	392	453	410	390	384	14	7	16	31	29	6	5	68	70	70	70	67	67	54
Wapello	3209	3624	3241	3305	3232	3057	3094	217	215	254	277	239	110	106	371	381	382	383	367	365	334
Warren	2455	2284	2291	2299	2109	2058	1823	175	136	147	112	186	55	99	310	319	320	320	307	305	274
Washington	771	777	778	741	727	772	878	33	18	25	27	46	24	26	157	161	161	162	155	154	130
Wayne	703	642	634	636	644	608	680	27	26	12	12	7	2	8	62	64	64	64	61	61	59
Webster	2793	2382	2354	2445	2225	2236	2271	123	119	145	118	150	80	93	380	390	391	392	376	373	367
Winnebago	578	557	459	425	491	406	433	8	22	34	45	48	13	7	81	83	83	83	80	79	85
Winneshiek	916	921	866	887	865	818	874	108	85	71	76	89	25	50	138	142	143	143	137	136	130
Woodbury	6445	6271	6128	5728	5396	5636	5546	525	433	473	508	457	314	312	892	917	919	921	882	876	817
Worth	482	419	455	440	404	399	413	10	13	22	15	19	6	11	66	68	68	69	66	65	63
Wright	747	703	687	747	721	703	725	29	22	22	23	20	11	38	125	129	129	130	124	123	115
State of Iowa	174154	168511	159591	157873	149722	145429	142968	13923	13206	13881	14196	14750	7169	8709	23867	24526	24596	24642	23607	23448	22297



Table 3. Other Veterans Affairs Expenditures (in \$1,000s) in Iowa's Counties, 1990 and 1994-1999.

County	1999	1998	1997	1996	1995	1994	1990
<b>Medical Services and Administration:</b>							
Johnson	93012	92999	85981	90387	89613	90807	71628
Lee	0	0	15	216	242	0	171
Marion	32444	34700	48336	49425	51358	48236	34455
Polk	67944	71215	62649	63164	65726	63720	46524
Sac	0	0	0	0	575	0	0
<b>State of Iowa</b>	<b>193401</b>	<b>198914</b>	<b>196981</b>	<b>203193</b>	<b>207514</b>	<b>202763</b>	<b>152778</b>
<b>Construction and Related Costs:</b>							
Johnson	81	66	484	1093	2197	1180	4554
Lee	52	4	28	0	17	178	9
Marion	20	3133	46	2408	2695	1549	3252
Polk	2815	147	766	182	642	774	41
Sac	0	0	0	0	6	893	0
<b>State of Iowa</b>	<b>2968</b>	<b>3351</b>	<b>1325</b>	<b>3683</b>	<b>5556</b>	<b>4574</b>	<b>7856</b>

these were the same counties as those receiving funds for medical services and administration. Expenditures in this category ranged from \$1.3 million in 1997 to \$7.9 million in 1990. The \$3.0 million reported for 1999 was the second lowest noted during the years reported in Table 3.

**Note:** See "Geographic Distribution of VA Expenditures: Fiscal Year: State, County, and Congressional District" (Department of Veterans Affairs, Office of Policy and Planning, Client Support Team, National Center for Veteran Analysis and Statistics, Washington, DC) for additional information. We thank Larry Sundall for bringing these data to the attention of Census Services.

## Registration and Voting by Political Party Affiliation and by Age in Iowa's Counties: 1982-1998

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The Office of the Secretary of State of Iowa analyzes data from elections. In this section, information is provided on voting by political party. The number registered and the number actually voting are reported; dividing the voters by registrants and multiplying by 100 yields the percentage voting. In addition, registrants and percent voting are noted for five age groups. The elections for which data are included are those in which members were selected for federal office. These always include races for the U.S. House of Representatives. In addition, Iowa contests for the U.S. Senate occurred in 1984, 1986, 1990, 1992, 1996, and 1998. And elections for President took place in 1984, 1988, 1992, and 1996. The number and level of contests affect voting statistics; presidential contests in particular tend to result in relatively large numbers voting. Another factor that makes comparisons somewhat difficult is that changes have occurred in how registration lists are reviewed. In 1994 and earlier years, a name was removed from a list if no activity (e.g., voting, change of address) occurred in four years. The 1995 National Voter Registration Act changed that; now, a name cannot be removed for failure to vote. If a change of address occurs and is not reported, a person can be placed in an inactive file. That person remains on the list of those registered, however.

### Total Registered, Total Voting, and Percentage Voting in Iowa

Nearly 1,791,000 residents were registered to vote in Iowa in 1998 (Table 1), which was higher than any other year from 1982 to 1996 (Table 2; comparable information for 1982 through 1994 is reported in the 1997 edition on pages 592-605). The 1998 number was about 64,000 higher than the previous record, which occurred in 1996. From 1984 to 1990, registered voters decreased; that trend was reversed in 1992 and the number registered continued to increase through 1998. The number actually voting was highest in 1992, when nearly 1.4 million went to the polls. The 1992 figure was 32,000 higher than the number voting in 1984, which was the next highest. Fewer than 1 million residents voted in 1986 and 1998. The percentage of those registered who actually voted in Iowa ranged from 53.7 in 1998 to 86.0 in 1992 (Table 3). At least three of every four eligible to vote went to the polls in 1984, 1988, and 1992, all years including presidential elections.

The numbers of registrations and voters are related to population size of counties; more populous counties have larger numbers registered and voting (Tables 1-2). In 1998, for example, Black Hawk, Linn, Polk, and Scott accounted for more than a quarter (28.3%) of all registrations; the addition of Dubuque, Johnson, and Woodbury, all of which had at least 50,000 registrants, raised this percentage to 37.9. These seven counties had 38.1 percent of the voters tabulated in 1998 as well. Higher percentages of those registered frequently vote in less populous counties, however (Figure 1).

### Registration and Voting by Party Affiliation

Registered Democrats outnumbered registered Republicans from 1982 through 1992, although this reversed for 1994 through 1998. Those claiming membership in another party or in no party have been substantial throughout the 1982-1998 period; they were greater in number than Republicans (but not Democrats) from 1982 through 1986 and greater than Democrats (but not Republicans) in 1996. In 1998, those with another or no party affiliation exceeded both Republicans (by 64,000) and Democrats (by 84,000). But those registered in other parties or none were less likely to vote; in only 1984 and 1992 did at least 75 percent of those in other/no parties vote (Table 3, Figure 2). At least three-quarters of the Republicans, on the other hand, voted in all but three elections (1986, 1990, 1998). The difference

Table 1. Number Registered to Vote, Number That Voted, and Percent That Voted in Iowa's Counties in the November Election by Total and Party Affiliation, 1998.

County	Total			Democratic Party			Republican Party			Other/No Party		
	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted
Adair	5416	3464	64.0	1410	1003	71.1	2187	1737	79.4	1819	724	39.8
Adams	3133	1733	55.3	943	612	64.9	1133	812	71.7	1057	309	29.2
Allamakee	8792	4757	54.1	1591	945	59.4	4415	3101	70.2	2786	711	25.5
Appanoose	8433	4134	49.0	3165	1699	53.7	2778	1693	60.9	2490	742	29.8
Audubon	4759	2680	56.3	1757	1117	63.6	1417	991	69.9	1585	572	36.1
Benton	15679	8743	55.8	4285	2771	64.7	4119	2973	72.2	7275	2999	41.2
Black Hawk	73380	39246	53.5	23710	14364	60.6	20466	14327	70.0	29204	10555	36.1
Boone	16820	8880	52.8	6229	3842	61.7	4406	2978	67.6	6185	2060	33.3
Bremer	15487	8294	53.6	3315	1969	59.4	5258	3722	70.8	6914	2603	37.6
Buchanan	12914	7370	57.1	4237	2867	67.7	3287	2405	73.2	5390	2098	38.9
Buena Vista	11453	5711	49.9	2561	1402	54.7	4185	2791	66.7	4707	1518	32.2
Butler	9734	5013	51.5	1648	899	54.6	4954	3280	66.2	3132	834	26.6
Calhoun	6813	3962	58.2	1637	1043	63.7	2264	1686	74.5	2912	1233	42.3
Carroll	13470	7341	54.5	5275	3605	68.3	2850	1914	67.2	5345	1822	34.1
Cass	10125	5072	50.1	1930	961	49.8	4904	3211	65.5	3291	900	27.3
Cedar	11213	6146	54.8	2724	1711	62.8	3503	2487	71.0	4986	1948	39.1
Cerro Gordo	28701	16304	56.8	9292	5904	63.5	8532	6078	71.2	10877	4322	39.7
Cherokee	9000	4761	52.9	2516	1564	62.2	3315	2273	68.6	3169	924	29.2
Chickasaw	8762	5620	64.1	3235	2462	76.1	2419	1887	78.0	3108	1271	40.9
Clarke	5985	3547	59.3	1921	1326	69.0	1843	1310	71.1	2221	911	41.0
Clay	10959	6134	56.0	2467	1423	57.7	4392	3211	73.1	4100	1500	36.6
Clayton	11940	6816	57.1	3476	2314	66.6	3648	2612	71.6	4816	1890	39.2
Clinton	33907	16077	47.4	9302	4891	52.6	9683	6351	65.6	14922	4835	32.4
Crawford	10189	5391	52.9	3102	1925	62.1	3273	2307	70.5	3814	1159	30.4
Dallas	23723	13710	57.8	7153	4882	68.3	7622	5266	69.1	8948	3562	39.8
Davis	5038	2984	59.2	2357	1583	67.2	1342	912	68.0	1339	489	36.5
Decatur	5176	3018	58.3	1926	1282	66.6	1718	1249	72.7	1532	487	31.8
Delaware	11269	6203	55.0	2554	1585	62.1	3838	2759	71.9	4877	1859	38.1
Des Moines	27566	13575	49.2	12330	7219	58.5	6558	3901	59.5	8678	2455	28.3
Dickinson	11206	6137	54.8	2779	1747	62.9	3867	2626	67.9	4560	1764	38.7
Dubuque	52835	27790	52.6	23049	14333	62.2	11244	7303	65.0	18542	6154	33.2
Emmet	6930	3543	51.1	2306	1349	58.5	2043	1367	66.9	2581	827	32.0
Fayette	13292	7921	59.6	3449	2279	66.1	4651	3520	75.7	5192	2122	40.9
Floyd	10526	6106	58.0	3114	2039	65.5	3105	2232	71.9	4307	1835	42.6
Franklin	6876	3896	56.7	1489	863	58.0	3133	2292	73.2	2254	741	32.9
Fremont	5521	2653	48.1	1421	751	52.9	2161	1477	68.3	1939	425	21.9
Greene	6971	3937	56.5	2069	1322	63.9	2528	1785	70.6	2374	830	35.0
Grundy	7870	4791	60.9	1275	836	65.6	3949	2915	73.8	2646	1040	39.3
Guthrie	7547	4367	57.9	2053	1350	65.8	3053	2149	70.4	2441	868	35.6
Hamilton	10327	5801	56.2	2840	1738	61.2	3479	2541	73.0	4008	1522	38.0
Hancock	7793	4190	53.8	1691	959	56.7	3572	2461	68.9	2530	770	30.4
Hardin	12702	6839	53.8	3333	2036	61.1	4714	3259	69.1	4655	1544	33.2
Harrison	9720	4451	45.8	3025	1598	52.8	3529	2051	58.1	3166	802	25.3
Henry	12466	7172	57.5	3360	2298	68.4	4587	3210	70.0	4519	1664	36.8
Howard	6221	3754	60.3	2210	1628	73.7	1671	1268	75.9	2340	858	36.7
Humboldt	6728	3880	57.7	1537	999	65.0	2645	1988	75.2	2546	893	35.1
Ida	5484	3187	58.1	1147	717	62.5	2704	1978	73.2	1633	492	30.1
Iowa	10198	5880	57.7	2445	1658	67.8	3485	2557	73.4	4268	1665	39.0
Jackson	12942	6639	51.3	6172	3784	61.3	2673	1753	65.6	4097	1102	26.9
Jasper	23935	13940	58.2	9163	6048	66.0	7234	5010	69.3	7538	2882	38.2

Table 1. Number Registered to Vote, Number That Voted, and Percent That Voted in Iowa's Counties in the November Election by Total and Party Affiliation, 1998 (continued).

County	Total			Democratic Party			Republican Party			Other/No Party		
	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted
Jefferson	11220	6340	56.5	2012	1207	60.0	4957	3737	75.4	4251	1396	32.8
Johnson	63621	33802	53.1	25855	16848	65.2	12971	7970	61.4	24795	8984	36.2
Jones	12365	7003	56.6	3673	2390	65.1	3761	2746	73.0	4931	1867	37.9
Keokuk	7047	4098	58.2	2657	1736	65.3	2234	1623	72.6	2156	739	34.3
Kossuth	12049	6829	56.7	4330	2933	67.7	3690	2535	68.7	4029	1361	33.8
Lee	24294	11700	48.2	9667	5526	57.2	4876	2989	61.3	9751	3185	32.7
Linn	115032	65373	56.8	33746	22164	65.7	30772	22289	72.4	50514	20920	41.4
Louisa	6824	3444	50.5	1761	957	54.3	2694	1847	68.6	2369	640	27.0
Lucas	5354	3120	58.3	1617	1032	63.8	2063	1512	73.3	1674	576	34.4
Lyon	8114	4091	50.4	1189	562	47.3	5191	3189	61.4	1734	340	19.6
Madison	8944	5363	60.0	3033	2110	69.6	2973	2165	72.8	2938	1088	37.0
Mahaska	13527	7087	52.4	3244	1856	57.2	5774	3934	68.1	4509	1297	28.8
Marion	20226	10313	51.0	6432	3741	58.2	6717	4421	65.8	7077	2151	30.4
Marshall	25250	14204	56.3	8067	4896	60.7	8849	6279	71.0	8334	3029	36.3
Mills	9467	3847	40.6	1977	788	39.9	4588	2576	56.1	2902	483	16.6
Mitchell	7168	4347	60.6	1784	1264	70.9	2510	1928	76.8	2874	1155	40.2
Monona	6743	3695	54.8	2360	1553	65.8	1885	1239	65.7	2498	903	36.1
Monroe	5353	2879	53.8	2302	1501	65.2	1434	915	63.8	1617	463	28.6
Montgomery	8364	4112	49.2	1372	652	47.5	4297	2815	65.5	2695	645	23.9
Muscatine	23554	10756	45.7	5379	2406	44.7	9178	5898	64.3	8997	2452	27.3
O'Brien	9706	4840	49.9	1622	822	50.7	4985	3170	63.6	3099	848	27.4
Osceola	4557	2253	49.4	760	379	49.9	2655	1675	63.1	1142	199	17.4
Page	10708	5458	51.0	1701	827	48.6	5370	3723	69.3	3637	908	25.0
Palo Alto	6586	3834	58.2	2644	1807	68.3	1846	1328	71.9	2096	699	33.3
Plymouth	15160	7053	46.5	2977	1481	49.7	6712	4302	64.1	5471	1270	23.2
Pocahontas	5875	3002	51.1	1617	939	58.1	1794	1235	68.8	2464	828	33.6
Polk	223801	126057	56.3	89106	56147	63.0	71514	49149	68.7	63181	20761	32.9
Pottawattamie	46026	21588	46.9	13337	6649	49.9	17751	11091	62.5	14938	3848	25.8
Poweshiek	11722	6489	55.4	3755	2256	60.1	3838	2675	69.7	4129	1558	37.7
Ringgold	3706	2324	62.7	1192	833	69.9	1604	1195	74.5	910	296	32.5
Sac	7773	4132	53.2	1523	847	55.6	3283	2323	70.8	2967	962	32.4
Scott	94700	47689	50.4	24843	13622	54.8	29746	20520	69.0	40111	13547	33.8
Shelby	8817	4587	52.0	2898	1759	60.7	2905	1928	66.4	3014	900	29.9
Sioux	19651	10090	51.3	1753	803	45.8	13439	8243	61.3	4459	1044	23.4
Story	48827	24566	50.3	14054	8470	60.3	14450	9073	62.8	20323	7023	34.6
Tama	11132	6437	57.8	3559	2368	66.5	3376	2537	75.1	4197	1532	36.5
Taylor	4698	2515	53.5	1158	700	60.4	2081	1409	67.7	1459	406	27.8
Union	8208	4796	58.4	2362	1576	66.7	2896	2101	72.5	2950	1119	37.9
Van Buren	4916	2926	59.5	1242	791	63.7	2298	1672	72.8	1376	463	33.6
Wapello	22703	12008	52.9	11431	7066	61.8	4573	2940	64.3	6699	2002	29.9
Warren	26061	14534	55.8	9176	5900	64.3	7892	5432	68.8	8993	3202	35.6
Washington	12414	7003	56.4	2836	1827	64.4	5156	3624	70.3	4422	1552	35.1
Wayne	4579	2510	54.8	1495	898	60.1	1660	1160	69.9	1424	452	31.7
Webster	24547	12822	52.2	9248	5546	60.0	6393	4276	66.9	8906	3000	33.7
Winnebago	7716	4187	54.3	1845	1153	62.5	2653	1849	69.7	3218	1185	36.8
Winneshiek	13353	6828	51.1	3090	1797	58.2	5045	3403	67.5	5218	1628	31.2
Woodbury	55835	26716	47.8	17107	8784	51.3	18450	11387	61.7	20278	6545	32.3
Worth	5217	3265	62.6	1477	992	67.2	1991	1548	77.7	1749	725	41.5
Wright	9122	4814	52.8	2162	1195	55.3	3799	2632	69.3	3161	987	31.2
State of Iowa	1790572	961258	53.7	562380	343846	61.1	581894	396154	68.1	646298	221258	34.2

Table 2. Number Registered to Vote, Number That Voted, and Percent That Voted in Iowa's Counties in the November Election by Total and Party Affiliation, 1996.

County	Total			Democratic Party			Republican Party			Other/No Party		
	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted
Adair	5243	3982	75.9	1419	1157	81.5	2209	1910	86.5	1615	915	56.7
Adams	3029	2320	76.6	980	821	83.8	1140	970	85.1	909	529	58.2
Allamakee	8539	5832	68.3	1621	1173	72.4	4332	3471	80.1	2586	1188	45.9
Appanoose	8048	5646	70.2	3109	2274	73.1	2726	2154	79.0	2213	1218	55.0
Audubon	4621	3464	75.0	1831	1452	79.3	1416	1181	83.4	1374	831	60.5
Benton	14479	10366	71.6	4294	3314	77.2	3983	3266	82.0	6202	3786	61.0
Black Hawk	76117	52951	69.6	25633	18800	73.3	22638	18222	80.5	27846	15929	57.2
Boone	15803	11654	73.7	6306	5129	81.3	4370	3551	81.3	5127	2974	58.0
Bremer	14522	10158	69.9	3269	2440	74.6	4961	3976	80.1	6292	3742	59.5
Buchanan	12338	9084	73.6	4120	3340	81.1	3263	2732	83.7	4955	3012	60.8
Buena Vista	12255	7966	65.0	2908	1988	68.4	4646	3572	76.9	4701	2406	51.2
Butler	9304	6713	72.2	1641	1186	72.3	4963	4097	82.6	2700	1430	53.0
Calhoun	6725	4818	71.6	1709	1302	76.2	2133	1733	81.2	2883	1783	61.8
Carroll	12782	8772	68.6	5466	4238	77.5	2793	2179	78.0	4523	2355	52.1
Cass	9692	6947	71.7	1936	1462	75.5	4921	4002	81.3	2835	1483	52.3
Cedar	10639	7674	72.1	2677	2081	77.7	3439	2839	82.6	4523	2754	60.9
Cerro Gordo	28827	21327	74.0	9807	7674	78.3	8890	7377	83.0	10130	6276	62.0
Cherokee	8682	6391	73.6	2421	1957	80.8	3392	2856	84.2	2869	1578	55.0
Chickasaw	8457	6332	74.9	3222	2695	83.6	2347	1956	83.3	2888	1681	58.2
Clarke	5575	3925	70.4	1902	1462	76.9	1856	1483	79.9	1817	980	53.9
Clay	10524	7657	72.8	2415	1839	76.1	4286	3650	85.2	3823	2168	56.7
Clayton	11692	8223	70.3	3471	2687	77.4	3651	2921	80.0	4570	2615	57.2
Clinton	32441	21230	65.4	9311	6278	67.4	10096	7874	78.0	13034	7078	54.3
Crawford	9727	6761	69.5	3245	2521	77.7	3031	2439	80.5	3451	1801	52.2
Dallas	21251	15946	75.0	6992	5616	80.3	6980	5825	83.5	7279	4505	61.9
Davis	4962	3809	76.8	2364	1936	81.9	1371	1126	82.1	1227	747	60.9
Decatur	5085	3620	71.2	2096	1642	78.3	1595	1299	81.4	1394	679	48.7
Delaware	10556	7527	71.3	2536	1931	76.1	3650	3015	82.6	4370	2581	59.1
Des Moines	26228	18105	69.0	11854	9018	76.1	6550	4951	75.6	7824	4136	52.9
Dickinson	10485	7717	73.6	2742	2199	80.2	3809	3120	81.9	3934	2398	61.0
Dubuque	52858	37864	71.6	23997	18685	77.9	11846	9404	79.4	17015	9775	57.4
Emmet	6632	4447	67.1	2291	1672	73.0	2114	1654	78.2	2227	1121	50.3
Fayette	13148	9743	74.1	3669	2907	79.2	4646	3933	84.7	4833	2903	60.1
Floyd	9871	6713	68.0	3022	2226	73.7	3075	2370	77.1	3774	2117	56.1
Franklin	6516	4791	73.5	1442	1091	75.7	3171	2678	84.5	1903	1022	53.7
Fremont	5291	3631	68.6	1487	1140	76.7	2023	1645	81.3	1781	846	47.5
Greene	6760	4422	65.4	1950	1366	70.1	2714	2051	75.6	2096	1005	47.9
Grundy	7815	5693	72.8	1322	1014	76.7	4020	3284	81.7	2473	1395	56.4
Guthrie	7190	5076	70.6	2102	1599	76.1	2981	2359	79.1	2107	1118	53.1
Hamilton	9748	7090	72.7	2835	2123	74.9	3541	2943	83.1	3372	2024	60.0
Hancock	7388	5283	71.5	1684	1247	74.0	3458	2855	82.6	2246	1181	52.6
Hardin	12074	8414	69.7	3274	2413	73.7	4736	3799	80.2	4064	2202	54.2
Harrison	9321	6390	68.6	3079	2333	75.8	3482	2649	76.1	2760	1408	51.0
Henry	11650	8275	71.0	2475	1802	72.8	5004	4184	83.6	4171	2289	54.9
Howard	5908	4457	75.4	1989	1639	82.4	1712	1452	84.8	2207	1366	61.9
Humboldt	6453	4952	76.7	1517	1270	83.7	2615	2247	85.9	2321	1435	61.8
Ida	5242	3772	72.0	1166	883	75.7	2670	2218	83.1	1406	671	47.7
Iowa	9500	7074	74.5	2385	1931	81.0	3478	2934	84.4	3637	2209	60.7
Jackson	12184	8764	71.9	6013	4788	79.6	2734	2230	81.6	3437	1746	50.8
Jasper	22520	16775	74.5	8834	7100	80.4	6939	5733	82.6	6747	3942	58.4

Table 2. Number Registered to Vote, Number That Voted, and Percent That Voted in Iowa's Counties in the November Election by Total and Party Affiliation, 1996 (continued).

County	Total			Democratic Party			Republican Party			Other/No Party		
	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted	Registered	Voted	Percent Voted
Jefferson	10705	7303	68.2	1906	1286	67.5	5044	4254	84.3	3755	1763	47.0
Johnson	64255	45327	70.5	26759	20592	77.0	14273	10629	74.5	23223	14106	60.7
Jones	11797	8645	73.3	3793	3017	79.5	3682	3084	83.8	4322	2544	58.9
Keokuk	7136	5188	72.7	2769	2177	78.6	2287	1863	81.5	2080	1148	55.2
Kossuth	11386	8622	75.7	4272	3510	82.2	3704	3106	83.9	3410	2006	58.8
Lee	23021	15727	68.3	9266	6811	73.5	4971	3922	78.9	8784	4994	56.9
Linn	111348	82248	73.9	34629	27298	78.8	30840	25629	83.1	45879	29321	63.9
Louisa	6341	4233	66.8	1550	1042	67.2	2786	2191	78.6	2005	1000	49.9
Lucas	5647	4205	74.5	1771	1400	79.1	2188	1855	84.8	1688	950	56.3
Lyon	7587	5353	70.6	1111	791	71.2	4986	3947	79.2	1490	615	41.3
Madison	8315	6321	76.0	2874	2332	81.1	2935	2490	84.8	2506	1499	59.8
Mahaska	12618	9029	71.6	3248	2410	74.2	5585	4573	81.9	3785	2046	54.1
Marion	18859	13217	70.1	6499	4906	75.5	6354	5130	80.7	6006	3181	53.0
Marshall	24700	17257	69.9	8105	5922	73.1	8987	7133	79.4	7608	4202	55.2
Mills	8564	5840	68.2	1747	1192	68.2	4526	3595	79.4	2291	1053	46.0
Mitchell	6862	5114	74.5	1753	1425	81.3	2539	2144	84.4	2570	1545	60.1
Monona	6167	4278	69.4	2125	1590	74.8	1768	1396	79.0	2274	1292	56.8
Monroe	4872	3563	73.1	2110	1667	79.0	1511	1230	81.4	1251	666	53.2
Montgomery	7803	5227	67.0	1317	897	68.1	4312	3309	76.7	2174	1021	47.0
Muscatine	22201	15087	68.0	5087	3369	66.2	9228	7518	81.5	7886	4200	53.3
O'Brien	9476	6670	70.4	1683	1196	71.1	4938	3906	79.1	2855	1568	54.9
Osceola	4338	3090	71.2	794	585	73.7	2540	2047	80.6	1004	458	45.6
Page	9993	7086	70.9	1634	1159	70.9	5149	4264	82.8	3210	1663	51.8
Palo Alto	6411	4719	73.6	2696	2164	80.3	1890	1575	83.3	1825	980	53.7
Plymouth	14012	9870	70.4	2760	1975	71.6	6679	5526	82.7	4573	2369	51.8
Pocahontas	5705	4245	74.4	1611	1288	80.0	1857	1573	84.7	2237	1384	61.9
Polk	210213	155640	74.0	86071	66910	77.7	71195	59005	82.9	52947	29725	56.1
Pottawattamie	49228	32776	66.6	14909	10256	68.8	18894	14471	76.6	15425	8049	52.2
Poweshiek	11267	8189	72.7	3773	2871	76.1	3844	3197	83.2	3650	2121	58.1
Ringgold	3613	2829	78.3	1178	1000	84.9	1614	1392	86.2	821	437	53.2
Sac	7316	4986	68.2	1469	1040	70.8	3204	2587	80.7	2643	1359	51.4
Scott	89036	66399	74.6	25782	19855	77.0	29747	24957	83.9	33507	21587	64.4
Shelby	8684	5966	68.7	3003	2327	77.5	2922	2267	77.6	2759	1372	49.7
Sioux	18616	14032	75.4	1711	1222	71.4	12984	10675	82.2	3921	2135	54.5
Story	50740	32461	64.0	15290	10485	68.6	16189	11627	71.8	19261	10349	53.7
Tama	10737	7687	71.6	3589	2794	77.8	3479	2905	83.5	3669	1988	54.2
Taylor	4486	3336	74.4	1114	862	77.4	2168	1866	86.1	1204	608	50.5
Union	7795	5678	72.8	2342	1851	79.0	2924	2394	81.9	2529	1433	56.7
Van Buren	4643	3420	73.7	1120	831	74.2	2389	2006	84.0	1134	583	51.4
Wapello	22005	14793	67.2	11278	8275	73.4	4471	3490	78.1	6256	3028	48.4
Warren	24509	17603	71.8	9063	7037	77.6	7755	6246	80.5	7691	4320	56.2
Washington	11717	8221	70.2	2510	1831	72.9	5238	4289	81.9	3969	2101	52.9
Wayne	4428	3322	75.0	1529	1202	78.6	1646	1419	86.2	1253	701	55.9
Webster	23866	16321	68.4	9356	6966	74.5	6532	5137	78.6	7978	4218	52.9
Winnebago	7533	5476	72.7	1744	1354	77.6	2678	2190	81.8	3111	1932	62.1
Winneshiek	12599	8857	70.3	2952	2193	74.3	5150	4180	81.2	4497	2484	55.2
Woodbury	52996	37185	70.2	16532	11908	72.0	18256	14729	80.7	18208	10548	57.9
Worth	5096	4012	78.7	1527	1256	82.3	2018	1764	87.4	1551	992	64.0
Wright	8444	6065	71.8	2012	1493	74.2	3845	3176	82.6	2587	1396	54.0
State of Iowa	1726383	1233261	71.4	563553	428661	76.1	587097	476227	81.1	575733	328373	57.0

Table 3. Percent of Those Registered That Voted by Party Affiliation In Iowa's Counties in the November Elections of 1982-1998.

County	1998				1996				1994				1992			
	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other
Adair	64.0	71.1	79.4	39.8	75.9	81.5	86.5	56.7	76.8	79.0	86.9	56.6	88.0	89.0	90.9	81.8
Adams	55.3	64.9	71.7	29.2	76.6	83.8	85.1	58.2	77.7	79.8	86.3	60.1	89.4	90.7	90.9	85.5
Allamakee	54.1	59.4	70.2	25.5	68.3	72.4	80.1	45.9	64.8	64.9	78.3	39.1	83.6	86.9	89.9	71.0
Appanoose	49.0	53.7	60.9	29.8	70.2	73.1	79.0	55.0	62.9	64.0	74.0	44.0	86.0	87.6	88.0	80.1
Audubon	56.3	63.6	69.9	36.1	75.0	79.3	83.4	60.5	67.2	68.9	80.0	48.4	87.6	88.1	91.2	82.1
Benton	55.8	64.7	72.2	41.2	71.6	77.2	82.0	61.0	65.6	68.0	78.8	53.9	87.1	90.1	90.4	82.4
Black Hawk	53.5	60.6	70.0	36.1	69.6	73.3	80.5	57.2	61.0	62.7	74.7	45.3	86.0	87.4	88.5	82.2
Boone	52.8	61.7	67.6	33.3	73.7	81.3	81.3	58.0	67.9	71.9	79.5	50.2	85.3	88.3	87.2	79.6
Bremer	53.6	59.4	70.8	37.6	69.9	74.6	80.1	59.5	61.5	63.8	74.2	48.3	83.6	86.5	86.8	79.4
Buchanan	57.1	67.7	73.2	38.9	73.6	81.1	83.7	60.8	63.5	68.7	75.5	48.3	86.2	89.9	89.1	80.0
Buena Vista	49.9	54.7	66.7	32.2	65.0	68.4	76.9	51.2	60.0	61.7	74.6	41.5	81.9	83.2	86.6	76.1
Butler	51.5	54.6	66.2	26.6	72.2	72.3	82.6	53.0	61.5	62.0	72.7	39.3	82.9	86.8	85.9	74.2
Calhoun	58.2	63.7	74.5	42.3	71.6	76.2	81.2	61.8	68.7	69.7	79.6	57.6	86.4	88.4	89.5	82.3
Carroll	54.5	68.3	67.2	34.1	68.6	77.5	78.0	52.1	67.9	77.1	75.1	46.4	85.8	89.1	86.2	79.5
Cass	50.1	49.8	65.5	27.3	71.7	75.5	81.3	52.3	64.4	63.1	75.0	40.8	84.8	85.3	88.3	75.8
Cedar	54.8	62.8	71.0	39.1	72.1	77.7	82.6	60.9	66.4	69.7	78.2	53.2	86.6	88.5	89.3	82.7
Cerro Gordo	56.8	63.5	71.2	39.7	74.0	78.3	83.0	62.0	60.4	62.3	74.6	43.8	83.4	85.5	87.3	77.9
Cherokee	52.9	62.2	68.6	29.2	73.6	80.8	84.2	55.0	64.9	67.5	77.2	41.6	90.5	92.7	92.9	85.0
Chickasaw	64.1	76.1	78.0	40.9	74.9	83.6	83.3	58.2	74.3	80.6	84.4	57.6	85.5	90.2	88.5	77.0
Clarke	59.3	69.0	71.1	41.0	70.4	76.9	79.9	53.9	63.4	70.0	77.7	38.7	85.0	88.7	87.8	76.3
Clay	56.0	57.7	73.1	36.6	72.8	76.1	85.2	56.7	64.5	66.1	79.3	43.4	86.1	87.4	90.1	80.6
Clayton	57.1	66.6	71.6	39.2	70.3	77.4	80.0	57.2	67.7	73.5	79.5	51.2	84.7	88.1	88.7	78.2
Clinton	47.4	52.6	65.6	32.4	65.4	67.4	78.0	54.3	56.5	57.2	72.9	40.1	81.3	83.0	86.1	75.9
Crawford	52.9	62.1	70.5	30.4	69.5	77.7	80.5	52.2	65.8	73.2	77.5	44.2	84.5	89.6	87.9	75.9
Dallas	57.8	68.3	69.1	39.8	75.0	80.3	83.5	61.9	70.5	73.6	79.9	54.4	86.1	88.2	88.1	81.2
Davis	59.2	67.2	68.0	36.5	76.8	81.9	82.1	60.9	70.6	74.3	78.9	51.0	85.7	88.1	87.9	76.5
Decatur	58.3	66.6	72.7	31.8	71.2	78.3	81.4	48.7	65.3	69.1	76.4	42.4	85.3	88.0	89.3	75.2
Delaware	55.0	62.1	71.9	38.1	71.3	76.1	82.6	59.1	67.6	69.2	80.8	52.9	85.3	86.7	88.4	81.4
Des Moines	49.2	58.5	59.5	28.3	69.0	76.1	75.6	52.9	57.1	61.3	71.1	38.3	86.9	89.8	89.5	80.9
Dickinson	54.8	62.9	67.9	38.7	73.6	80.2	81.9	61.0	63.1	63.7	77.4	46.7	87.9	89.4	90.8	84.1
Dubuque	52.6	62.2	65.0	33.2	71.6	77.9	79.4	57.4	60.0	65.6	70.1	41.6	89.1	91.5	89.6	84.4
Emmet	51.1	58.5	66.9	32.0	67.1	73.0	78.2	50.3	64.3	68.6	77.3	42.5	86.0	89.3	88.1	78.4
Fayette	59.6	66.1	75.7	40.9	74.1	79.2	84.7	60.1	69.3	72.5	81.3	52.7	84.8	87.3	88.4	78.7



Table 3. Percent of Those Registered That Voted by Party Affiliation In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1998				1996				1994				1992			
	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other
Floyd	58.0	65.5	71.9	42.6	68.0	73.7	77.1	56.1	63.2	67.0	75.8	46.9	82.4	85.4	85.0	77.1
Franklin	56.7	58.0	73.2	32.9	73.5	75.7	84.5	53.7	70.4	67.7	81.9	48.4	86.9	88.6	89.7	80.1
Fremont	48.1	52.9	68.3	21.9	68.6	76.7	81.3	47.5	60.0	62.3	75.9	34.4	82.6	86.8	88.2	69.8
Greene	56.5	63.9	70.6	35.0	65.4	70.1	75.6	47.9	69.0	72.2	80.6	50.2	87.2	90.1	90.1	80.0
Grundy	60.9	65.6	73.8	39.3	72.8	76.7	81.7	56.4	66.5	65.7	76.2	46.0	88.0	88.6	90.5	82.4
Guthrie	57.9	65.8	70.4	35.6	70.6	76.1	79.1	53.1	67.4	69.5	79.5	45.2	84.1	86.9	89.2	73.2
Hamilton	56.2	61.2	73.0	38.0	72.7	74.9	83.1	60.0	67.6	68.6	80.3	50.2	87.9	89.0	89.3	85.2
Hancock	53.8	56.7	68.9	30.4	71.5	74.0	82.6	52.6	68.3	66.7	80.4	47.3	85.3	85.0	89.7	79.3
Hardin	53.8	61.1	69.1	33.2	69.7	73.7	80.2	54.2	68.0	69.5	79.2	49.4	83.4	85.9	87.0	76.5
Harrison	45.8	52.8	58.1	25.3	68.6	75.8	76.1	51.0	64.7	69.9	73.0	44.2	84.7	88.7	87.5	75.9
Henry	57.5	68.4	70.0	36.8	71.0	72.8	83.6	54.9	61.4	61.2	76.5	42.9	82.6	85.5	89.1	72.4
Howard	60.3	73.7	75.9	36.7	75.4	82.4	84.8	61.9	70.0	77.5	79.7	51.1	87.8	91.6	89.9	81.4
Humboldt	57.7	65.0	75.2	35.1	76.7	83.7	85.9	61.8	70.3	72.4	82.1	51.6	89.8	92.1	92.6	84.8
Ida	58.1	62.5	73.2	30.1	72.0	75.7	83.1	47.7	59.6	62.6	71.4	33.7	86.2	88.8	89.4	78.7
Iowa	57.7	67.8	73.4	39.0	74.5	81.0	84.4	60.7	66.6	71.3	77.3	50.6	86.7	89.8	90.6	80.4
Jackson	51.3	61.3	65.6	26.9	71.9	79.6	81.6	50.8	62.1	65.1	79.2	40.8	86.1	89.8	88.9	78.0
Jasper	58.2	66.0	69.3	38.2	74.5	80.4	82.6	58.4	70.0	72.2	79.7	54.2	86.0	88.4	88.5	79.9
Jefferson	56.5	60.0	75.4	32.8	68.2	67.5	84.3	47.0	57.1	59.6	75.0	41.7	85.3	88.0	90.6	79.7
Johnson	53.1	65.2	61.4	36.2	70.5	77.0	74.5	60.7	55.1	62.2	62.8	39.7	89.3	92.0	88.9	85.8
Jones	56.6	65.1	73.0	37.9	73.3	79.5	83.8	58.9	68.3	70.9	81.9	50.7	87.2	89.9	90.9	80.1
Keokuk	58.2	65.3	72.6	34.3	72.7	78.6	81.5	55.2	71.4	74.6	82.7	51.7	85.6	88.6	89.4	76.7
Kossuth	56.7	67.7	68.7	33.8	75.7	82.2	83.9	58.8	71.4	77.2	79.6	51.6	87.9	91.5	89.1	81.5
Lee	48.2	57.2	61.3	32.7	68.3	73.5	78.9	56.9	55.9	60.3	71.5	41.0	82.7	84.8	85.3	78.6
Linn	56.8	65.7	72.4	41.4	73.9	78.8	83.1	63.9	60.5	63.2	73.0	47.9	90.0	90.9	91.4	88.1
Louisa	50.5	54.3	68.6	27.0	66.8	67.2	78.6	49.9	56.4	53.5	72.2	32.1	83.0	83.0	86.7	76.3
Lucas	58.3	63.8	73.3	34.4	74.5	79.1	84.8	56.3	67.8	71.4	79.7	46.2	86.4	89.3	89.6	77.9
Lyon	50.4	47.3	61.4	19.6	70.6	71.2	79.2	41.3	54.7	55.1	63.3	22.6	81.9	84.2	87.0	62.5
Madison	60.0	69.6	72.8	37.0	76.0	81.1	84.8	59.8	69.9	72.3	81.6	49.7	86.0	88.0	88.4	80.1
Mahaska	52.4	57.2	68.1	28.8	71.6	74.2	81.9	54.1	61.2	60.5	73.9	37.8	87.2	89.7	89.7	80.1
Marion	51.0	58.2	65.8	30.4	70.1	75.5	80.7	53.0	61.6	63.2	74.9	42.3	81.5	82.7	85.2	76.0
Marshall	56.3	60.7	71.0	36.3	69.9	73.1	79.4	55.2	67.2	68.2	79.0	49.9	81.6	82.9	85.8	74.9
Mills	40.6	39.9	56.1	16.6	68.2	68.2	79.4	46.0	55.3	53.0	66.7	31.6	86.5	86.0	90.0	77.9
Mitchell	60.6	70.9	76.8	40.2	74.5	81.3	84.4	60.1	68.2	73.6	82.8	47.5	87.1	91.7	90.6	79.5

Table 3. Percent of Those Registered That Voted by Party Affiliation In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1998				1996				1994				1992			
	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other
Monona	54.8	65.8	65.7	36.1	69.4	74.8	79.0	56.8	65.4	73.0	74.7	48.6	84.2	88.0	86.6	78.6
Monroe	53.8	65.2	63.8	28.6	73.1	79.0	81.4	53.2	59.9	63.4	71.3	37.8	87.4	90.4	90.1	77.3
Montgomery	49.2	47.5	65.5	23.9	67.0	68.1	76.7	47.0	57.6	58.6	68.3	35.6	80.4	82.4	84.6	70.3
Muscatine	45.7	44.7	64.3	27.3	68.0	66.2	81.5	53.3	54.3	50.6	70.1	38.1	80.4	79.4	87.5	73.9
O'Brien	49.9	50.7	63.6	27.4	70.4	71.1	79.1	54.9	58.8	55.4	71.4	36.6	84.9	85.9	89.2	77.5
Osceola	49.4	49.9	63.1	17.4	71.2	73.7	80.6	45.6	61.0	59.7	71.1	30.3	87.0	87.4	90.4	76.1
Page	51.0	48.6	69.3	25.0	70.9	70.9	82.8	51.8	61.7	56.6	76.1	36.9	86.2	84.8	90.5	79.5
Palo Alto	58.2	68.3	71.9	33.3	73.6	80.3	83.3	53.7	66.9	69.9	80.7	43.5	86.8	90.9	87.6	77.4
Plymouth	46.5	49.7	64.1	23.2	70.4	71.6	82.7	51.8	61.8	61.2	74.9	40.4	87.9	88.8	91.0	83.6
Pocahontas	51.1	58.1	68.8	33.6	74.4	80.0	84.7	61.9	64.3	66.6	77.9	48.4	86.0	89.2	89.7	80.1
Polk	56.3	63.0	68.7	32.9	74.0	77.7	82.9	56.1	70.1	69.9	78.8	54.3	88.6	88.9	90.6	85.2
Pottawattamie	46.9	49.9	62.5	25.8	66.6	68.8	76.6	52.2	53.8	51.7	67.6	35.7	86.0	85.9	89.1	81.6
Poweshiek	55.4	60.1	69.7	37.7	72.7	76.1	83.2	58.1	65.7	66.9	78.8	48.3	84.9	86.7	89.6	77.7
Ringgold	62.7	69.9	74.5	32.5	78.3	84.9	86.2	53.2	74.0	78.4	82.7	47.8	85.4	89.3	89.6	69.8
Sac	53.2	55.6	70.8	32.4	68.2	70.8	80.7	51.4	62.2	59.0	76.3	44.1	75.5	76.1	80.5	69.5
Scott	50.4	54.8	69.0	33.8	74.6	77.0	83.9	64.4	55.4	52.9	70.4	42.4	84.9	85.3	87.9	82.0
Shelby	52.0	60.7	66.4	29.9	68.7	77.5	77.6	49.7	65.9	72.0	75.7	49.2	85.0	89.4	88.1	77.1
Sioux	51.3	45.8	61.3	23.4	75.4	71.4	82.2	54.5	64.2	53.5	72.9	33.6	86.9	86.2	89.4	78.8
Story	50.3	60.3	62.8	34.6	64.0	68.6	71.8	53.7	58.4	61.6	69.7	43.6	81.3	83.2	83.6	77.7
Tama	57.8	66.5	75.1	36.5	71.6	77.8	83.5	54.2	69.0	73.0	81.4	48.3	88.1	91.0	91.4	80.5
Taylor	53.5	60.4	67.7	27.8	74.4	77.4	86.1	50.5	61.5	61.7	74.5	39.0	81.5	81.7	87.8	71.7
Union	58.4	66.7	72.5	37.9	72.8	79.0	81.9	56.7	74.4	76.7	83.7	59.6	86.8	88.1	90.5	81.0
Van Buren	59.5	63.7	72.8	33.6	73.7	74.2	84.0	51.4	66.0	63.8	78.6	41.5	84.8	84.0	90.4	74.4
Wapello	52.9	61.8	64.3	29.9	67.2	73.4	78.1	48.4	56.0	59.6	70.3	35.8	83.3	85.5	84.1	77.1
Warren	55.8	64.3	68.8	35.6	71.8	77.6	80.5	56.2	63.6	67.3	74.7	44.0	87.0	89.2	89.4	81.3
Washington	56.4	64.4	70.3	35.1	70.2	72.9	81.9	52.9	63.1	63.6	74.2	45.6	85.5	84.8	90.8	77.8
Wayne	54.8	60.1	69.9	31.7	75.0	78.6	86.2	55.9	69.7	73.7	81.3	46.1	87.3	90.7	89.4	78.2
Webster	52.2	60.0	66.9	33.7	68.4	74.5	78.6	52.9	67.1	69.3	79.2	50.5	86.1	89.1	87.8	80.5
Winnebago	54.3	62.5	69.7	36.8	72.7	77.6	81.8	62.1	67.4	70.4	79.8	53.4	85.4	88.1	88.3	81.5
Winneshiek	51.1	58.2	67.5	31.2	70.3	74.3	81.2	55.2	63.5	64.9	75.8	45.6	84.0	86.4	88.5	76.8
Woodbury	47.8	51.3	61.7	32.3	70.2	72.0	80.7	57.9	60.4	60.1	71.8	46.7	84.6	86.2	86.3	81.3
Worth	62.6	67.2	77.7	41.5	78.7	82.3	87.4	64.0	68.8	71.3	79.5	49.1	90.6	92.9	93.7	83.6
Wright	52.8	55.3	69.3	31.2	71.8	74.2	82.6	54.0	69.7	69.5	80.7	49.2	88.8	89.8	90.8	85.2
State of Iowa	53.7	61.1	68.1	34.2	71.4	76.1	81.1	57.0	63.0	65.2	75.1	45.5	86.0	88.0	88.7	80.9

Table 3. Percent of Those Registered That Voted by Party Affiliation In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1990				1988				1986				1984				1982			
	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other
Adair	78.0	80.2	86.2	61.2	80.1	83.6	86.3	65.2	71.0	76.6	77.6	55.3	87.5	87.9	91.3	81.0	76.8	82.4	82.3	63.1
Adams	71.3	75.1	78.1	54.1	79.6	85.3	85.1	62.5	70.7	76.3	78.6	51.2	88.7	90.9	92.6	81.5	73.9	78.6	82.0	59.2
Allamakee	71.2	77.6	80.6	48.8	74.2	81.9	84.9	49.8	69.6	75.2	76.0	47.2	81.9	82.6	87.7	66.9	69.5	73.5	78.5	49.0
Appanoose	65.1	68.4	71.5	47.8	77.6	82.9	81.6	60.8	59.9	64.1	67.6	39.6	83.6	85.9	88.1	71.8	67.4	72.7	74.5	51.5
Audubon	75.9	79.6	82.3	60.4	69.1	71.7	78.8	52.1	65.8	73.2	74.4	45.8	87.8	90.3	89.9	82.0	81.5	87.4	88.5	68.3
Benton	68.6	73.6	78.4	58.4	77.6	81.8	82.3	71.3	62.0	68.8	71.5	50.9	82.2	85.3	87.7	76.5	68.9	76.1	79.7	57.1
Black Hawk	63.8	65.7	74.1	51.4	76.3	79.6	80.1	68.5	59.4	62.3	71.2	46.6	80.8	81.9	87.3	74.3	75.8	78.3	84.0	66.5
Boone	68.7	73.6	74.9	57.6	75.8	81.0	79.7	66.5	63.4	71.2	73.3	50.0	84.7	88.4	89.4	78.5	67.3	76.2	74.8	54.9
Bremer	64.2	71.7	72.3	53.2	73.4	77.5	80.1	65.7	64.2	72.2	75.3	51.8	80.9	83.6	86.7	75.8	67.8	73.4	79.8	57.1
Buchanan	68.8	73.9	78.6	53.5	74.1	82.7	81.7	57.8	64.1	70.7	72.6	49.7	85.3	88.0	90.0	78.3	73.2	79.1	79.8	61.1
Buena Vista	68.8	71.2	79.1	54.6	75.7	77.7	83.0	65.5	67.9	71.1	77.3	54.2	81.2	82.6	87.1	73.4	64.5	68.2	75.3	51.3
Butler	67.7	70.3	75.3	46.8	72.8	79.8	79.0	52.8	66.9	68.4	73.4	46.3	85.4	87.3	88.5	75.7	73.8	75.0	79.5	57.1
Calhoun	68.6	74.0	76.1	57.7	80.7	84.4	83.9	75.0	68.3	76.6	76.5	55.5	78.8	83.1	82.9	73.0	64.2	71.2	73.3	53.1
Carroll	66.1	72.6	74.9	47.8	78.9	85.1	78.6	66.7	60.2	69.2	67.3	40.4	83.2	87.8	86.6	72.2	71.0	77.1	75.3	53.8
Cass	73.0	74.4	79.7	54.9	76.0	78.4	81.7	60.0	61.0	64.7	69.2	40.0	82.1	83.0	87.0	70.6	67.6	73.8	75.2	45.0
Cedar	68.6	72.1	79.0	56.3	77.7	81.7	84.1	68.7	51.3	57.2	62.9	37.6	78.4	80.9	86.2	69.5	63.8	65.5	75.2	52.2
Cerro Gordo	66.5	69.3	76.8	54.0	75.7	81.1	80.4	65.7	68.0	72.6	76.9	56.0	85.8	87.1	89.3	81.6	72.4	78.6	82.6	58.4
Cherokee	73.7	77.1	81.6	60.7	82.6	88.0	86.4	72.2	70.9	76.8	79.4	56.0	84.6	87.3	90.2	76.3	69.5	74.8	78.5	55.1
Chickasaw	68.7	76.5	78.5	48.8	76.7	84.4	83.9	59.6	65.0	72.4	75.3	46.3	82.2	87.5	87.4	71.4	70.4	78.9	79.8	51.8
Clarke	70.8	74.8	79.6	54.1	72.1	78.9	79.9	54.1	68.4	73.5	76.8	50.8	86.1	87.4	89.9	79.4	71.8	78.2	81.9	54.3
Clay	66.9	68.5	76.6	52.9	77.7	80.1	84.1	67.6	67.2	72.1	77.8	52.5	84.5	85.2	90.5	78.3	70.0	71.2	81.4	60.2
Clayton	69.7	77.9	77.4	54.3	73.3	81.4	79.5	59.8	66.6	73.2	72.9	51.7	81.4	84.0	87.4	71.5	71.9	77.4	78.7	57.6
Clinton	63.7	66.2	76.9	51.1	72.6	75.9	81.3	63.0	52.7	55.3	69.7	39.1	78.1	79.8	85.5	71.7	64.8	67.1	76.2	54.9
Crawford	64.5	72.0	73.3	47.8	77.9	86.2	82.7	64.1	61.3	70.4	68.3	44.0	78.2	83.8	82.7	68.4	69.3	77.2	73.0	58.2
Dallas	69.2	74.8	74.8	55.8	72.3	78.8	75.0	60.4	63.9	70.1	72.3	48.8	80.9	82.7	86.5	74.5	73.7	77.1	82.2	63.1
Davis	68.6	73.5	73.9	48.9	78.9	84.2	82.6	60.5	63.9	69.9	69.0	42.1	87.3	89.9	89.0	78.9	76.9	82.2	81.1	59.0
Decatur	65.6	70.8	72.6	45.7	75.4	81.6	81.9	54.8	64.4	70.3	72.8	42.1	79.4	83.7	85.1	64.3	66.6	72.1	76.3	45.1
Delaware	68.7	71.2	78.8	55.9	72.2	77.2	77.8	62.2	55.5	62.4	65.6	41.0	86.4	89.2	90.6	80.1	71.2	77.6	78.9	58.8
Des Moines	67.5	73.1	75.3	53.7	76.0	82.5	79.4	64.6	57.5	62.9	69.0	44.8	87.3	89.3	90.5	83.4	65.5	70.9	75.5	53.3
Dickinson	65.9	71.3	76.5	52.9	74.0	79.6	79.7	65.2	72.3	77.2	78.6	63.8	83.9	86.5	89.2	78.1	69.2	74.9	78.9	58.1
Dubuque	67.1	74.1	74.0	50.6	75.4	82.6	74.7	63.6	58.7	66.7	63.4	43.8	83.6	87.2	86.0	76.9	67.4	76.0	71.9	50.8
Emmet	68.0	71.5	75.5	52.9	79.6	83.1	82.6	70.6	60.7	65.9	69.7	44.9	80.1	82.6	85.3	71.1	64.5	64.9	72.7	52.3
Fayette	74.3	78.8	83.2	59.1	75.8	80.8	82.6	62.9	64.1	70.2	73.5	49.8	84.1	87.4	89.7	75.6	73.1	79.4	79.9	59.9

Table 3. Percent of Those Registered That Voted by Party Affiliation In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1990				1988				1986				1984				1982			
	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other
Floyd	66.2	69.3	74.5	53.0	77.0	80.4	83.2	65.9	64.5	65.7	73.7	52.3	85.9	86.1	89.4	81.7	70.9	73.0	79.6	58.9
Franklin	75.3	75.6	83.3	58.2	77.6	81.0	84.8	59.4	69.7	71.5	77.2	51.7	86.8	89.1	88.9	79.7	71.4	78.3	76.8	51.3
Fremont	74.4	78.5	83.0	52.2	72.3	79.9	81.5	47.1	69.0	74.2	75.7	47.1	88.1	89.0	92.5	77.8	68.7	77.4	76.0	47.2
Greene	73.2	79.1	80.0	59.2	74.3	80.3	81.2	60.5	63.1	71.0	71.6	46.8	84.3	87.0	88.6	77.1	68.6	74.8	78.3	51.6
Grundy	72.1	74.9	77.8	56.0	80.3	82.2	84.8	68.1	63.5	66.8	71.0	45.7	83.1	82.8	87.7	73.9	74.5	75.7	83.0	58.4
Guthrie	68.1	73.0	75.2	51.2	73.7	79.8	80.1	56.7	63.3	69.2	72.0	43.6	81.5	84.5	87.5	69.0	68.1	73.7	76.6	47.1
Hamilton	71.4	78.6	77.1	56.6	79.8	82.2	84.1	72.2	67.5	74.6	75.4	52.6	86.2	87.6	90.9	79.4	72.1	76.2	81.4	56.8
Hancock	66.3	68.4	76.7	49.4	77.1	78.2	84.6	64.6	61.4	63.2	74.5	44.4	82.9	84.5	88.6	73.5	68.7	72.8	76.0	55.2
Hardin	69.8	75.9	77.4	54.2	74.9	79.1	81.9	62.4	68.8	73.8	77.5	52.7	82.3	84.5	87.6	73.1	70.3	76.1	76.5	55.5
Harrison	62.9	67.9	71.4	42.5	76.2	83.4	80.8	58.8	64.0	69.8	72.9	42.2	83.1	85.4	89.5	70.7	67.0	71.0	74.7	48.0
Henry	64.5	69.6	75.6	47.6	73.2	77.1	83.6	58.4	59.5	65.2	72.4	42.2	81.1	83.4	88.6	70.4	64.5	70.5	75.6	45.7
Howard	72.5	80.3	79.1	56.4	78.7	87.5	84.8	62.5	73.0	80.1	82.1	55.3	85.8	89.8	90.7	77.2	73.5	80.2	82.9	58.1
Humboldt	72.4	76.7	82.0	56.6	82.9	88.1	87.6	72.1	67.8	70.1	78.4	53.2	86.7	89.7	90.1	79.6	63.4	70.5	73.3	47.8
Ida	70.0	75.5	76.8	53.6	75.8	81.6	81.7	60.9	69.5	77.0	77.6	52.5	84.0	85.2	89.4	77.2	66.3	71.7	77.7	50.4
Iowa	74.5	81.6	82.5	59.9	79.2	83.9	85.4	68.5	63.0	70.7	74.1	46.7	84.8	88.6	91.6	75.4	71.1	80.3	80.0	56.1
Jackson	73.6	79.9	82.9	57.5	72.4	80.1	80.6	55.5	61.9	71.1	73.2	45.4	83.5	89.2	87.9	75.7	71.1	78.4	82.6	56.3
Jasper	68.7	74.0	75.9	53.1	74.1	79.2	78.6	61.7	63.5	69.7	71.5	47.6	84.8	86.5	89.1	78.3	72.1	76.8	78.3	59.3
Jefferson	63.7	66.7	74.6	50.6	72.6	78.0	83.8	58.8	50.6	52.8	66.0	31.9	84.7	86.3	89.3	78.3	63.7	67.9	75.5	45.4
Johnson	53.5	63.7	53.5	40.7	65.7	72.8	64.0	57.5	49.4	61.0	53.5	36.3	79.6	83.3	82.7	74.4	69.3	77.7	73.9	58.3
Jones	70.3	75.5	79.8	53.4	77.3	83.5	84.2	62.1	60.2	66.1	67.2	44.6	83.4	85.4	88.0	75.4	72.8	76.1	80.0	59.1
Keokuk	70.1	76.4	80.4	51.2	77.3	81.9	85.6	62.5	61.7	67.2	72.7	43.0	84.8	88.3	89.7	75.6	71.4	76.2	79.7	55.7
Kossuth	71.6	77.4	79.0	55.7	81.5	86.9	85.2	70.2	63.3	70.1	71.8	46.9	82.0	85.8	86.7	73.2	65.5	72.1	74.1	49.4
Lee	63.1	68.5	71.4	50.9	77.5	81.5	81.0	70.3	64.9	72.1	73.4	52.4	83.0	85.1	87.6	78.3	60.6	67.5	71.8	48.5
Linn	65.4	70.3	72.2	56.3	76.3	80.2	77.5	71.7	55.3	60.5	65.3	46.1	82.3	83.9	86.4	79.0	65.5	70.8	75.5	56.1
Louisa	67.5	67.7	78.7	46.9	74.7	76.2	83.4	57.3	60.6	65.2	70.9	39.5	82.7	84.8	87.2	74.4	67.0	71.2	78.7	47.8
Lucas	69.8	74.1	78.8	48.4	74.9	80.4	83.0	53.0	63.5	66.5	72.2	41.7	87.5	87.5	91.9	78.2	73.6	75.8	80.3	52.0
Lyon	65.2	71.8	69.8	40.0	76.5	79.2	82.0	53.8	56.3	59.5	61.9	32.1	84.8	84.2	87.2	74.7	53.2	56.6	57.6	33.8
Madison	75.4	80.4	81.0	57.7	75.6	81.6	80.5	58.2	73.2	78.1	80.4	55.4	88.5	89.9	92.4	80.8	74.7	80.8	84.0	55.0
Mahaska	71.0	75.1	78.8	54.4	78.3	82.9	82.9	66.2	62.3	65.3	72.1	47.1	83.5	85.1	89.2	75.3	69.9	74.5	78.7	54.2
Marion	66.3	70.1	72.8	53.1	74.8	80.1	77.2	63.9	60.2	66.4	66.8	45.7	85.3	87.7	88.1	79.5	65.5	71.2	73.4	50.9
Marshall	68.3	73.6	75.5	52.8	79.1	81.0	84.1	70.6	62.4	70.7	69.3	47.8	82.4	84.5	87.9	74.1	71.1	74.3	78.8	59.1
Mills	59.2	61.3	68.3	38.2	74.5	72.3	82.2	60.0	57.0	58.5	65.8	36.9	86.3	84.7	91.7	75.3	64.1	65.3	71.9	45.8
Mitchell	72.5	79.3	81.9	53.9	78.1	85.6	85.0	62.4	68.6	75.4	76.2	51.3	85.8	86.9	89.7	79.0	71.3	78.0	80.7	53.8

Table 3. Percent of Those Registered That Voted by Party Affiliation In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1990				1988				1986				1984				1982			
	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other	Total	Dem	Rep	Other
Monona	63.1	69.5	70.8	49.6	75.9	83.8	78.9	65.0	68.5	75.3	75.9	54.9	82.4	87.2	87.5	74.4	65.3	72.8	74.0	51.7
Monroe	74.7	80.7	81.8	52.6	77.1	83.4	82.3	57.1	64.8	70.5	74.8	45.0	87.8	89.4	91.6	81.0	70.4	77.1	78.7	48.5
Montgomery	62.9	66.8	71.9	43.8	72.7	77.3	78.7	57.4	58.4	56.1	69.0	40.6	83.9	84.0	88.3	75.4	59.3	58.3	68.5	40.1
Muscatine	59.9	59.2	74.2	47.8	69.6	69.4	80.1	60.6	44.9	47.0	59.5	32.2	78.0	78.2	86.1	71.9	53.5	51.8	70.9	41.5
O'Brien	68.4	70.4	77.6	52.1	75.9	81.1	82.1	62.3	65.7	71.9	74.2	48.3	82.3	84.9	87.7	72.2	62.9	64.2	72.9	45.5
Osceola	70.0	73.4	73.9	47.0	78.7	81.3	84.7	51.6	70.5	76.6	73.6	50.4	83.1	85.2	85.7	70.9	70.2	72.4	76.2	50.8
Page	65.0	64.6	75.1	45.0	78.8	77.9	86.1	64.9	61.6	59.2	71.9	40.6	87.2	84.2	91.5	79.9	62.7	64.1	72.9	46.2
Palo Alto	69.3	73.6	77.1	53.1	81.8	87.7	81.6	69.1	68.2	77.0	78.3	49.4	84.8	89.6	89.2	77.0	71.2	80.7	82.2	53.9
Plymouth	64.9	68.4	74.2	50.4	79.6	82.0	85.7	69.9	67.5	74.1	76.4	50.5	83.0	83.1	88.7	75.3	62.7	66.3	72.3	48.7
Pocahontas	67.3	72.1	76.1	55.7	74.6	80.9	82.2	63.2	72.0	78.4	79.2	59.6	84.2	88.3	89.0	76.0	67.3	73.1	78.4	54.3
Polk	66.7	70.2	71.6	51.3	74.4	78.1	76.7	62.5	57.6	60.8	63.5	42.6	75.6	76.9	78.9	68.5	65.9	70.2	70.7	49.6
Pottawattamie	60.5	64.1	69.7	44.3	77.5	78.7	81.7	70.5	49.5	51.9	60.3	35.3	80.4	80.6	86.8	73.3	58.7	63.3	68.2	44.5
Poweshiek	65.7	68.5	76.7	50.2	73.4	77.2	80.9	60.2	61.2	64.5	72.6	46.6	80.8	84.0	88.4	69.5	68.9	75.4	78.4	52.5
Ringgold	76.7	79.3	83.6	54.7	77.9	85.6	85.0	46.2	67.7	70.4	75.2	40.0	87.8	88.0	91.3	78.0	75.2	78.6	83.2	49.7
Sac	62.2	63.1	71.5	49.6	73.6	76.0	81.8	61.8	62.2	65.2	73.3	45.1	77.7	80.4	84.1	69.0	65.1	67.6	76.7	50.9
Scott	56.9	58.4	67.5	47.4	76.8	79.5	81.3	70.8	51.6	52.0	64.9	42.7	90.3	88.8	93.5	89.4	67.6	69.4	77.7	59.6
Shelby	67.4	73.2	75.3	51.4	75.4	83.1	80.0	61.1	60.1	67.0	69.4	41.8	83.1	86.7	89.5	72.5	69.1	77.0	76.7	53.2
Sioux	68.2	66.0	75.5	46.5	77.0	77.5	81.8	62.1	66.8	69.2	72.6	46.7	88.6	86.4	91.6	81.2	60.4	58.2	67.7	39.9
Story	60.3	65.7	65.5	50.3	69.3	72.3	72.8	63.2	49.2	59.0	56.0	38.7	73.8	79.0	78.4	67.5	67.6	76.7	72.6	58.3
Tama	73.3	80.4	79.5	57.5	80.1	85.0	86.2	67.6	65.1	73.8	73.8	49.0	85.5	87.5	89.7	79.8	72.0	81.4	81.2	56.8
Taylor	73.4	78.1	79.1	58.3	71.1	72.5	83.4	50.0	62.3	67.5	69.7	41.0	85.0	86.1	89.9	73.8	69.1	71.7	76.5	52.3
Union	66.5	71.8	76.4	48.3	79.2	81.8	83.5	70.5	65.4	73.0	73.7	47.4	82.2	83.4	88.1	74.2	69.8	75.6	77.0	55.5
Van Buren	73.6	75.3	79.6	54.6	74.0	72.4	83.1	53.1	69.1	71.9	76.0	47.0	83.9	84.7	87.9	73.2	68.2	72.7	77.0	48.3
Wapello	63.6	68.5	71.2	47.3	75.3	79.1	79.7	63.9	55.9	61.5	67.1	40.5	79.4	83.4	84.6	70.4	65.7	73.5	75.4	49.3
Warren	66.8	72.6	72.9	51.5	70.1	76.8	72.2	57.5	61.4	66.6	69.0	46.9	83.6	86.8	86.9	76.0	70.2	75.5	77.3	56.2
Washington	68.2	71.6	80.3	51.4	74.0	78.0	82.2	61.9	60.7	68.5	72.1	43.6	82.8	87.6	89.0	73.4	67.6	74.6	76.5	51.1
Wayne	73.7	78.7	81.2	51.4	78.4	85.3	86.3	53.5	69.7	70.8	79.2	48.6	85.0	86.7	89.1	74.1	72.5	76.3	78.7	54.9
Webster	67.0	71.4	74.5	55.3	77.3	82.7	78.8	69.0	59.5	63.8	68.8	48.1	79.3	81.7	82.9	74.1	63.4	68.0	71.2	53.3
Winnebago	74.8	78.6	84.0	64.3	77.6	81.9	84.0	69.4	71.9	76.3	81.5	61.3	88.0	89.3	92.1	83.6	76.9	81.1	85.1	66.8
Winneshiek	62.9	70.0	72.3	46.3	69.6	76.1	79.2	53.9	58.7	64.1	70.8	41.7	84.0	85.9	90.5	76.1	67.2	70.6	79.4	54.5
Woodbury	62.1	64.6	69.2	53.1	77.9	81.1	80.0	72.6	65.6	67.6	73.1	57.4	83.9	84.3	87.8	80.5	58.8	61.8	67.3	49.6
Worth	78.9	83.1	86.2	64.4	80.0	87.0	85.7	65.0	77.0	82.8	83.6	61.2	91.2	92.2	93.7	86.9	80.6	85.7	86.7	69.0
Wright	70.3	73.9	79.1	56.6	77.8	82.1	82.7	68.2	63.1	68.4	72.2	47.3	84.3	85.6	88.7	77.5	66.4	73.0	76.4	50.7
State of Iowa	65.7	70.1	73.9	51.6	75.2	79.6	80.0	64.9	59.7	64.6	69.3	45.4	82.1	83.8	87.0	76.0	67.5	72.6	75.7	54.4

Table 4. Number Registered to Vote and Percent That Voted by Age Category in Iowa's Counties in the November Election of 1998.

County	18-24		25-34		35-49		50-64		65 or Older	
	Registered	Percent Voted	Registered	Percent Voted	Registered	Percent Voted	Registered	Percent Voted	Registered	Percent Voted
Adair	589	21.2	639	38.3	1536	65.0	1097	78.6	1555	79.4
Adams	304	17.1	371	27.8	847	50.2	736	70.9	875	72.1
Allamakee	969	11.6	1160	28.6	2421	52.6	1915	69.8	2327	73.2
Appanoose	903	14.0	1132	23.0	2221	45.9	1796	61.5	2381	68.2
Audubon	455	15.6	580	31.9	1235	56.5	1013	68.6	1476	69.9
Benton	1809	18.9	2562	35.6	4924	58.7	3137	72.3	3247	71.9
Black Hawk	9123	17.4	11894	26.5	21257	54.7	15812	71.1	15292	76.0
Boone	1980	16.9	2507	30.0	5080	55.8	3401	68.5	3852	68.3
Bremer	1990	15.9	2290	26.0	4306	57.4	3563	71.5	3338	70.8
Buchanan	1544	17.5	1930	34.8	3847	58.7	2753	73.4	2840	75.7
Buena Vista	1457	10.3	1425	23.2	3352	50.5	2140	66.2	3079	68.9
Butler	1055	16.4	1313	26.1	2753	50.8	2112	67.0	2501	67.4
Calhoun	732	16.1	717	35.7	1867	58.8	1449	72.7	2048	70.2
Carroll	1738	12.9	1748	29.6	3962	57.4	2516	71.7	3506	71.9
Cass	1059	11.1	1339	26.0	2860	48.1	2127	67.5	2740	65.5
Cedar	1063	17.5	1597	32.5	3525	54.6	2473	68.3	2555	71.4
Cerro Gordo	2828	18.0	4045	31.7	8702	55.6	6019	70.1	7107	76.8
Cherokee	1044	11.7	1057	26.2	2631	53.5	1897	68.3	2371	70.0
Chickasaw	1075	22.9	1152	39.9	2510	64.7	1875	80.9	2149	82.6
Clarke	603	24.2	922	37.9	1771	58.3	1233	75.9	1456	74.4
Clay	1229	15.3	1525	31.0	3400	59.2	2144	72.5	2660	71.7
Clayton	1338	14.2	1647	30.2	3425	58.2	2467	73.7	3063	75.6
Clinton	3486	13.1	5454	22.0	10051	46.1	7318	62.6	7591	68.5
Crawford	1209	12.9	1400	28.6	2902	52.3	2190	69.5	2488	72.1
Dallas	2419	19.6	4244	37.4	8071	60.5	4907	73.8	4082	77.1
Davis	589	21.1	673	34.5	1405	59.4	1132	75.0	1239	76.3
Decatur	682	18.2	771	30.1	1292	62.3	1104	74.3	1327	78.1
Delaware	1344	17.0	1637	33.6	3570	56.7	2295	70.8	2423	73.3
Des Moines	3121	14.1	4241	22.8	7944	48.1	6093	65.1	6167	71.0
Dickinson	1110	15.3	1429	26.1	3048	55.9	2509	67.6	3110	70.5
Dubuque	6343	14.3	8250	27.6	15833	53.3	11325	70.6	11084	73.8
Emmet	940	15.1	922	24.5	1816	54.1	1403	65.2	1849	69.1
Fayette	1443	16.9	1723	33.9	3751	61.4	2834	74.7	3541	75.5
Floyd	1128	22.5	1377	30.7	2793	58.4	2382	73.4	2846	72.0
Franklin	702	17.9	851	30.4	1904	55.7	1515	69.8	1904	73.1
Fremont	670	11.8	722	20.5	1528	46.3	1140	65.3	1461	66.7
Greene	656	15.1	856	31.7	1934	57.2	1406	72.4	2119	68.1
Grundy	809	20.5	928	40.9	2262	61.5	1830	74.8	2041	72.7
Guthrie	725	21.1	948	32.1	2079	57.9	1693	70.1	2102	72.3
Hamilton	1087	18.9	1403	31.2	3039	57.2	2183	72.1	2615	70.6
Hancock	963	15.9	970	26.2	2286	56.5	1622	69.1	1952	70.3
Hardin	1497	15.4	1731	25.8	3484	54.0	2512	69.7	3477	72.7
Harrison	1045	12.9	1409	24.1	2931	43.9	1999	60.6	2336	63.4
Henry	1419	22.0	2008	31.8	3627	61.1	2635	72.9	2777	75.1
Howard	650	16.5	737	31.3	1741	60.1	1261	75.8	1832	77.2
Humboldt	611	16.9	769	28.3	1952	57.6	1426	72.0	1970	71.5
Ida	594	18.9	758	33.9	1569	60.9	1066	72.1	1497	73.0
Iowa	1071	17.3	1498	35.5	3240	60.7	2020	74.0	2369	71.9
Jackson	1451	13.7	1912	25.3	3830	50.8	2722	67.9	3027	71.5
Jasper	2554	19.4	3648	36.0	7189	59.5	5128	73.7	5412	75.3

Table 4. Number Registered to Vote and Percent That Voted by Age Category in Iowa's Counties in the November Election of 1998 (continued).

County	18-24		25-34		35-49		50-64		65 or Older	
	Registered	Percent Voted	Registered	Percent Voted	Registered	Percent Voted	Registered	Percent Voted	Registered	Percent Voted
Jefferson	1191	20.2	1406	30.2	3869	58.1	2745	67.5	2009	78.4
Johnson	11016	21.5	15336	35.3	19262	63.3	10808	76.3	7199	77.5
Jones	1421	16.7	1812	32.0	3622	57.6	2610	74.1	2900	74.6
Keokuk	713	20.2	955	32.5	1984	57.6	1409	74.0	1986	73.5
Kossuth	1358	12.1	1482	30.7	3431	60.7	2585	72.0	3193	71.0
Lee	2647	14.0	3546	23.4	7170	47.1	5424	62.5	5506	67.8
Linn	12890	18.1	21266	33.4	36625	60.1	24374	75.0	19877	78.7
Louisa	708	18.8	1104	26.9	2089	49.5	1409	65.2	1514	70.0
Lucas	542	17.9	662	35.0	1450	55.0	1192	71.8	1508	75.5
Lyon	1128	18.5	1254	30.0	2264	53.0	1501	66.7	1967	66.3
Madison	997	19.2	1352	37.6	2814	64.2	1841	75.8	1939	75.3
Mahaska	1464	16.2	2109	30.4	4007	51.8	2689	68.4	3258	70.5
Marion	2545	17.6	3215	30.3	6104	51.9	4090	67.6	4272	69.2
Marshall	2471	19.3	3748	29.8	7395	57.6	5732	71.6	5901	71.9
Mills	1134	10.4	1512	18.4	3101	40.0	2098	55.9	1621	64.0
Mitchell	767	19.3	886	35.0	1967	59.7	1448	74.2	2100	78.0
Monona	726	14.7	834	28.2	1737	55.7	1377	69.1	2069	69.3
Monroe	542	23.6	822	31.3	1498	51.7	1090	68.3	1401	69.7
Montgomery	947	11.8	1307	22.0	2325	48.0	1592	68.3	2193	68.8
Muscatine	2474	13.6	3968	21.4	7404	45.1	5162	61.3	4546	67.3
O'Brien	1080	14.4	1199	28.7	2809	49.6	1866	62.3	2752	64.9
Osceola	504	13.5	595	25.0	1367	49.3	901	63.9	1190	66.1
Page	1210	12.4	1480	21.8	2958	49.9	2180	67.2	2880	70.9
Palo Alto	750	15.9	876	30.1	1768	58.4	1326	74.7	1866	76.5
Plymouth	1817	10.6	2184	22.7	4735	47.3	2992	61.4	3432	66.6
Pocahontas	617	11.5	641	25.6	1682	48.9	1237	65.6	1698	66.7
Polk	23627	19.5	46955	35.5	72642	60.3	45032	73.9	35545	77.9
Pottawattamie	5174	13.1	7049	23.1	14276	44.8	9933	61.2	9594	71.0
Poweshiek	1720	22.6	1627	32.7	3151	59.3	2411	70.3	2813	71.3
Ringgold	364	26.1	450	35.6	924	64.4	763	74.7	1205	75.0
Sac	853	14.4	989	29.0	2094	52.8	1493	68.5	2341	68.1
Scott	10129	14.0	17108	25.4	30694	51.7	20762	68.2	16007	74.3
Shelby	1058	10.1	1109	24.4	2523	52.0	1702	67.7	2425	72.0
Sioux	3395	16.2	2985	31.6	5469	57.0	3512	70.9	4290	69.7
Story	9309	21.9	12082	25.3	12498	63.7	7957	77.7	6981	76.3
Tama	1164	17.1	1538	32.5	3064	59.9	2405	71.7	2961	73.5
Taylor	484	14.0	613	26.6	1257	50.5	938	69.0	1406	71.3
Union	885	18.8	1167	31.3	2249	60.3	1751	73.7	2156	75.0
Van Buren	550	20.2	647	35.5	1331	62.6	1065	72.2	1323	74.3
Wapello	2285	18.1	3594	27.3	6471	52.4	4727	66.9	5626	72.1
Warren	3057	21.8	4446	34.3	8712	58.9	5743	72.2	4103	74.7
Washington	1213	20.4	1935	35.8	3804	56.7	2525	71.3	2937	71.7
Wayne	382	17.0	560	27.9	1188	53.7	947	64.5	1502	69.2
Webster	2536	14.6	3545	27.1	7206	51.3	4913	67.6	6347	70.4
Winnebago	838	15.9	984	26.5	2244	54.4	1517	68.8	2133	71.6
Winneshiek	1802	14.0	2152	23.0	3775	54.6	2589	71.3	3034	71.6
Woodbury	5839	13.1	9435	22.9	17045	48.4	11205	64.3	12311	67.8
Worth	480	21.7	688	37.6	1553	63.2	1126	75.8	1370	77.9
Wright	961	13.1	1072	27.1	2520	52.2	1879	64.8	2690	69.3
State of Iowa	206995	17.1	295103	30.0	537636	55.7	369905	70.3	380907	73.0

Table 5. Percent of Those Registered That Voted by Age Category In Iowa's Counties in the November Elections of 1982-1998.

County	1998					1996					1994					1992				
	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+
Adair	21.2	38.3	65.0	78.6	79.4	37.5	56.9	80.9	85.9	85.0	37.3	64.1	80.5	87.6	82.7	63.8	83.5	91.2	94.1	89.1
Adams	17.1	27.8	50.2	70.9	72.1	38.4	59.2	79.6	84.8	86.7	42.9	63.0	81.0	84.7	84.8	74.7	87.2	90.3	94.4	90.0
Allamakee	11.6	28.6	52.6	69.8	73.2	27.4	47.5	70.0	81.7	83.4	20.8	48.0	67.4	76.7	78.1	49.5	81.7	87.7	90.9	87.7
Appanoose	14.0	23.0	45.9	61.5	68.2	33.9	54.3	72.7	81.3	81.0	24.0	43.6	62.4	76.0	75.2	60.5	82.6	89.7	91.6	88.7
Audubon	15.6	31.9	56.5	68.6	69.9	37.7	57.0	78.4	84.0	83.2	29.8	51.1	70.1	73.8	75.9	67.2	84.4	91.8	91.1	87.9
Benton	18.9	35.6	58.7	72.3	71.9	35.2	57.8	76.1	83.8	82.2	25.5	51.5	70.7	78.8	74.9	57.7	85.3	91.7	93.4	89.6
Black Hawk	17.4	26.5	54.7	71.1	76.0	40.5	48.4	75.2	84.8	84.6	24.2	40.3	66.8	78.5	78.0	69.6	79.4	90.7	93.2	90.0
Boone	16.9	30.0	55.8	68.5	68.3	41.0	59.2	77.5	84.9	83.3	30.6	49.1	71.6	79.6	78.7	66.4	80.3	88.7	91.1	86.6
Bremer	15.9	26.0	57.4	71.5	70.8	36.2	50.8	75.3	83.7	81.9	21.5	46.0	66.7	76.3	73.8	64.3	79.9	88.0	91.1	85.8
Buchanan	17.5	34.8	58.7	73.4	75.7	37.1	58.4	78.6	86.4	84.6	21.5	48.5	68.2	76.1	74.5	62.5	81.2	89.6	92.0	90.0
Buena Vista	10.3	23.2	50.5	66.2	68.9	34.7	38.3	69.6	80.9	79.6	20.0	35.4	65.5	75.5	73.6	51.5	74.6	87.0	92.2	86.6
Butler	16.4	26.1	50.8	67.0	67.4	37.9	57.8	76.4	83.2	80.1	22.0	44.8	63.3	73.0	72.4	58.8	78.4	86.6	90.1	84.3
Calhoun	16.1	35.7	58.8	72.7	70.2	33.5	53.6	73.0	81.7	81.4	25.5	50.7	73.9	78.5	75.9	56.1	80.8	89.9	92.8	88.6
Carroll	12.9	29.6	57.4	71.7	71.9	26.3	49.9	73.8	82.0	80.9	23.1	49.8	72.5	82.3	77.5	57.7	81.1	90.5	91.6	87.6
Cass	11.1	26.0	48.1	67.5	65.5	37.5	54.0	74.1	83.6	81.1	22.0	45.9	66.5	78.2	74.4	53.6	79.4	88.5	93.2	87.5
Cedar	17.5	32.5	54.6	68.3	71.4	41.5	56.9	73.0	84.1	81.9	24.5	49.7	66.2	80.1	78.2	64.1	80.8	89.9	93.1	87.6
Cerro Gordo	18.0	31.7	55.6	70.1	76.8	39.6	58.9	75.8	84.7	86.6	23.4	40.2	62.8	73.3	75.7	59.4	76.6	87.1	91.2	88.5
Cherokee	11.7	26.2	53.5	68.3	70.0	34.0	54.9	77.9	86.0	83.9	21.2	46.3	66.9	78.1	76.3	65.3	87.1	94.6	95.7	91.7
Chickasaw	22.9	39.9	64.7	80.9	82.6	36.2	59.3	79.4	86.8	86.8	36.5	60.9	77.9	84.5	85.6	51.4	83.5	91.5	93.5	88.3
Clarke	24.2	37.9	58.3	75.9	74.4	39.6	51.7	72.2	82.2	82.1	21.0	45.4	66.0	76.3	79.5	64.0	78.4	88.2	91.5	88.2
Clay	15.3	31.0	59.2	72.5	71.7	37.4	55.0	76.7	85.2	84.5	19.0	45.5	68.5	76.4	78.6	55.8	84.9	90.7	92.1	87.2
Clayton	14.2	30.2	58.2	73.7	75.6	29.5	53.6	75.0	84.3	82.9	23.7	49.6	73.2	81.9	80.3	54.8	82.8	90.0	92.5	87.2
Clinton	13.1	22.0	46.1	62.6	68.5	31.8	44.9	68.3	79.0	79.2	20.6	35.6	57.8	69.9	72.0	59.4	72.6	85.3	88.7	86.2
Crawford	12.9	28.6	52.3	69.5	72.1	27.9	51.1	73.5	83.9	81.8	21.1	45.6	67.3	80.8	78.4	50.3	79.6	88.5	93.3	91.0
Dallas	19.6	37.4	60.5	73.8	77.1	42.0	61.8	79.2	86.7	85.5	30.4	57.7	75.4	81.7	80.7	61.5	82.1	89.9	92.1	88.7
Davis	21.1	34.5	59.4	75.0	76.3	44.3	64.5	78.8	87.0	87.5	31.9	52.4	73.8	82.4	83.4	59.9	82.4	90.5	92.4	88.9
Decatur	18.2	30.1	62.3	74.3	78.1	37.7	49.9	77.0	85.5	84.4	24.5	47.6	69.6	78.3	78.8	64.4	78.9	89.7	93.0	88.7
Delaware	17.0	33.6	56.7	70.8	73.3	35.3	55.8	74.7	83.8	84.7	28.4	52.0	73.9	78.9	78.6	56.7	83.1	89.6	92.3	88.7
Des Moines	14.1	22.8	48.1	65.1	71.0	37.3	49.0	71.3	82.1	81.3	17.7	34.6	58.7	72.2	73.5	66.3	81.3	90.6	92.6	89.6
Dickinson	15.3	26.1	55.9	67.6	70.5	34.9	54.5	77.1	83.1	83.7	21.3	42.4	64.8	72.3	75.6	65.0	82.0	91.1	92.7	90.3
Dubuque	14.3	27.6	53.3	70.6	73.8	37.2	53.3	76.1	86.4	85.6	21.7	39.4	63.5	76.4	76.0	67.6	85.8	93.5	95.3	91.4
Emmet	15.1	24.5	54.1	65.2	69.1	29.1	47.6	73.0	79.2	80.5	22.4	44.4	69.6	76.1	76.8	56.9	82.3	90.2	93.7	89.1
Fayette	16.9	33.9	61.4	74.7	75.5	34.8	55.3	78.2	86.7	85.7	25.2	53.2	73.2	80.6	80.8	54.9	78.2	89.7	92.3	89.3



Table 5. Percent of Those Registered That Voted by Age Category in Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1998					1996					1994					1992				
	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+
Floyd	22.5	30.7	58.4	73.4	72.0	29.3	48.9	70.9	79.7	79.6	21.4	40.8	64.5	75.0	76.5	52.2	74.1	85.8	89.5	88.3
Franklin	17.9	30.4	55.7	69.8	73.1	40.0	53.5	75.8	82.9	83.4	30.9	50.1	72.8	80.7	78.9	65.0	78.9	90.1	93.6	87.0
Fremont	11.8	20.5	46.3	65.3	66.7	33.3	49.6	72.4	83.2	79.8	20.9	38.7	62.9	73.0	72.0	55.9	77.0	86.2	90.5	85.7
Greene	15.1	31.7	57.2	72.4	68.1	25.4	49.4	68.9	77.4	73.4	22.6	51.5	72.8	81.3	76.3	64.2	80.6	90.0	94.0	88.6
Grundy	20.5	40.9	61.5	74.8	72.7	34.5	58.6	75.3	85.4	81.6	27.4	49.6	68.8	76.7	75.8	64.4	83.8	91.4	94.3	88.7
Guthrie	21.1	32.1	57.9	70.1	72.3	34.8	51.6	73.2	81.3	80.2	23.3	49.2	69.4	79.7	76.5	52.3	78.6	87.7	91.3	86.1
Hamilton	18.9	31.2	57.2	72.1	70.6	40.6	54.9	75.4	83.6	81.1	29.7	49.4	72.5	77.2	78.0	67.1	84.3	91.2	92.8	89.3
Hancock	15.9	26.2	56.5	69.1	70.3	32.2	52.9	74.4	84.9	84.8	24.5	54.5	72.2	81.9	79.1	58.4	83.7	89.5	92.7	86.4
Hardin	15.4	25.8	54.0	69.7	72.7	28.8	49.9	72.5	83.6	82.7	23.6	50.0	71.8	80.3	78.6	46.6	78.0	88.3	92.4	88.6
Harrison	12.9	24.1	43.9	60.6	63.4	35.1	54.9	72.2	80.3	77.6	25.2	45.0	66.9	76.9	78.4	57.3	78.9	87.3	90.7	89.9
Henry	22.0	31.8	61.1	72.9	75.1	38.2	54.6	75.1	84.0	83.7	25.3	43.8	64.8	76.3	75.7	55.5	78.5	86.6	90.2	87.1
Howard	16.5	31.3	60.1	75.8	77.2	34.9	58.1	78.9	87.1	83.1	26.5	49.6	70.9	81.7	79.3	67.8	80.7	88.7	94.1	90.4
Humboldt	16.9	28.3	57.6	72.0	71.5	38.1	63.8	79.3	86.1	84.5	22.6	54.6	73.6	80.8	79.6	62.5	88.9	92.2	95.3	91.4
Ida	18.9	33.9	60.9	72.1	73.0	32.8	57.9	75.6	82.3	82.4	20.0	44.6	61.1	72.8	70.0	54.1	87.3	90.8	92.2	88.1
Iowa	17.3	35.5	60.7	74.0	71.9	37.2	61.9	78.8	85.9	82.8	23.6	53.8	71.4	77.7	76.0	54.7	84.0	92.9	92.4	89.0
Jackson	13.7	25.3	50.8	67.9	71.5	37.3	55.7	75.4	84.3	83.2	21.2	41.6	64.7	75.9	75.7	59.2	79.7	91.1	92.3	89.8
Jasper	19.4	36.0	59.5	73.7	75.3	37.7	60.4	77.3	86.7	86.6	31.8	56.4	73.0	81.8	81.2	61.7	83.5	89.8	91.8	88.1
Jefferson	20.2	30.2	58.1	67.5	78.4	34.5	49.7	71.1	77.9	81.1	20.1	36.0	56.7	69.7	75.4	58.3	78.6	88.2	91.3	89.7
Johnson	21.5	35.3	63.3	76.3	77.5	54.1	55.7	80.7	87.9	85.8	25.4	41.0	69.3	80.3	78.0	81.7	88.0	93.7	95.4	90.3
Jones	16.7	32.0	57.6	74.1	74.6	37.3	58.2	77.7	85.4	83.9	27.5	51.2	71.8	81.9	78.7	62.7	84.2	90.6	93.6	89.0
Keokuk	20.2	32.5	57.6	74.0	73.5	41.7	56.3	73.6	83.8	84.1	34.0	54.6	72.9	84.4	82.0	62.7	80.2	88.7	91.7	88.6
Kossuth	12.1	30.7	60.7	72.0	71.0	35.4	60.0	81.2	86.5	83.3	25.0	55.6	76.7	82.2	78.2	63.6	84.5	91.7	93.0	87.8
Lee	14.0	23.4	47.1	62.5	67.8	35.6	49.0	69.6	80.6	82.1	18.6	34.6	56.4	68.7	72.0	59.1	76.1	85.7	90.1	86.5
Linn	18.1	33.4	60.1	75.0	78.7	42.5	58.5	79.2	86.6	86.1	22.9	42.6	65.5	75.3	75.9	72.4	87.9	93.2	94.7	92.1
Louisa	18.8	26.9	49.5	65.2	70.0	34.6	53.3	70.2	80.0	75.2	20.4	35.7	58.3	70.0	71.1	56.9	76.3	87.8	91.4	84.8
Lucas	17.9	35.0	55.0	71.8	75.5	36.9	56.9	77.4	85.4	84.6	27.5	48.1	70.0	79.2	80.3	56.9	82.0	91.2	95.1	88.7
Lyon	18.5	30.0	53.0	66.7	66.3	37.3	58.9	76.5	84.6	77.9	18.2	39.3	59.9	70.5	65.1	47.7	84.8	89.8	90.0	82.3
Madison	19.2	37.6	64.2	75.8	75.3	42.5	63.3	79.4	87.5	85.5	27.8	53.9	75.9	83.2	79.1	58.0	83.0	91.8	92.6	86.7
Mahaska	16.2	30.4	51.8	68.4	70.5	38.9	56.7	73.5	83.1	83.0	27.9	42.2	60.7	71.0	77.2	65.8	82.6	90.7	92.1	89.8
Marion	17.6	30.3	51.9	67.6	69.2	40.3	55.3	73.2	81.8	82.9	24.3	45.9	64.5	74.6	75.1	64.0	77.2	85.0	86.7	84.5
Marshall	19.3	29.8	57.6	71.6	71.9	38.3	49.4	72.7	81.8	81.1	30.0	48.1	71.0	79.8	77.2	57.9	73.3	86.0	89.2	84.5
Mills	10.4	18.4	40.0	55.9	64.0	36.8	55.2	70.2	80.7	82.1	19.8	37.0	57.9	70.5	70.1	63.5	82.7	89.7	93.4	89.0
Mitchell	19.3	35.0	59.7	74.2	78.0	36.5	58.6	76.5	86.3	85.1	24.5	49.9	68.4	82.1	80.7	61.1	81.2	90.2	94.0	90.4

Table 5. Percent of Those Registered That Voted by Age Category In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1998					1996					1994					1992				
	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+
Monona	14.7	28.2	55.7	69.1	69.3	29.0	55.0	70.8	79.4	79.8	23.9	47.5	64.6	77.5	76.4	45.4	81.8	89.6	92.8	87.7
Monroe	23.6	31.3	51.7	68.3	69.7	44.4	58.0	73.7	85.8	80.8	26.6	40.7	58.4	74.5	70.9	66.6	82.0	90.1	93.1	90.2
Montgomery	11.8	22.0	48.0	68.3	68.8	33.9	50.3	69.5	78.9	77.6	20.3	36.7	61.5	69.3	69.0	52.3	73.5	84.7	87.1	84.2
Muscatine	13.6	21.4	45.1	61.3	67.3	38.9	51.7	70.3	80.9	81.0	21.3	35.6	56.2	68.5	69.9	58.9	74.5	84.4	88.4	83.5
O'Brien	14.4	28.7	49.6	62.3	64.9	34.7	56.5	74.6	80.7	78.5	19.4	44.3	62.1	71.4	68.1	53.8	83.3	91.3	91.6	85.8
Osceola	13.5	25.0	49.3	63.9	66.1	35.5	58.3	75.6	81.7	79.4	19.0	48.2	62.9	72.0	70.8	65.9	85.5	89.7	93.7	86.9
Page	12.4	21.8	49.9	67.2	70.9	34.1	52.8	73.5	83.7	82.8	17.0	40.0	63.4	73.1	74.4	60.0	81.4	89.0	92.0	89.4
Palo Alto	15.9	30.1	58.4	74.7	76.5	37.6	53.6	77.0	84.9	84.9	22.7	47.6	68.5	79.3	79.8	62.9	83.5	90.8	92.2	89.3
Plymouth	10.6	22.7	47.3	61.4	66.6	34.2	55.3	74.9	81.3	81.0	22.3	41.0	65.2	72.0	73.6	64.7	84.1	91.1	93.2	89.3
Pocahontas	11.5	25.6	48.9	65.6	66.7	32.2	58.0	76.9	85.7	84.1	20.5	46.4	65.4	72.9	75.0	56.8	81.8	89.9	91.5	88.3
Polk	19.5	35.5	60.3	73.9	77.9	42.8	60.8	78.8	86.7	88.4	36.1	56.0	74.8	82.7	83.0	72.7	86.0	91.4	93.4	91.6
Pottawattamie	13.1	23.1	44.8	61.2	71.0	36.6	49.7	69.2	79.3	81.0	18.9	33.5	55.7	66.8	70.1	69.2	81.5	88.4	91.4	88.8
Poweshiek	22.6	32.7	59.3	70.3	71.3	42.4	55.5	77.5	86.1	85.2	28.3	52.9	70.9	79.8	79.6	60.3	81.7	90.2	93.3	90.5
Ringgold	26.1	35.6	64.4	74.7	75.0	41.0	64.2	80.4	87.9	87.2	30.6	61.7	75.4	84.0	83.3	62.1	75.2	88.8	91.9	88.8
Sac	14.4	29.0	52.8	68.5	68.1	27.1	49.7	69.9	80.8	80.1	21.3	41.3	63.4	73.7	71.8	41.2	66.0	80.4	85.3	78.9
Scott	14.0	25.4	51.7	68.2	74.3	44.2	59.0	78.3	86.1	88.0	21.0	34.5	58.2	70.5	74.1	68.3	78.5	88.1	91.3	88.8
Shelby	10.1	24.4	52.0	67.7	72.0	25.0	53.9	74.0	81.5	81.2	17.2	51.1	71.1	80.8	76.4	48.4	82.5	90.4	93.3	89.0
Sioux	16.2	31.6	57.0	70.9	69.7	47.0	64.2	82.7	88.5	84.1	28.5	55.0	70.6	78.1	74.2	63.1	86.5	92.4	94.1	89.2
Story	21.9	25.3	63.7	77.7	76.3	49.1	41.9	75.5	85.1	83.5	29.2	41.1	73.3	82.4	78.9	74.1	73.8	86.7	90.2	86.9
Tama	17.1	32.5	59.9	71.7	73.5	31.6	53.4	74.6	83.3	83.1	26.1	50.5	70.4	81.6	79.8	64.3	83.6	92.4	93.5	89.0
Taylor	14.0	26.6	50.5	69.0	71.3	38.4	55.8	76.7	85.8	84.0	18.4	43.1	57.2	73.4	74.5	59.8	73.8	82.9	88.2	85.4
Union	18.8	31.3	60.3	73.7	75.0	40.7	52.3	76.1	84.3	84.6	42.2	57.4	76.8	84.9	85.7	65.7	79.6	90.2	93.5	89.6
Van Buren	20.2	35.5	62.6	72.2	74.3	38.3	59.2	77.2	83.9	82.3	29.8	46.0	69.5	75.7	77.3	59.5	78.5	89.9	91.0	87.3
Wapello	18.1	27.3	52.4	66.9	72.1	35.6	46.2	69.1	78.4	82.6	18.8	33.2	57.1	69.5	72.8	61.3	76.3	86.0	91.0	87.8
Warren	21.8	34.3	58.9	72.2	74.7	41.6	57.1	76.6	84.4	83.5	28.3	49.0	68.8	78.2	76.2	68.9	83.3	91.1	93.0	89.5
Washington	20.4	35.8	56.7	71.3	71.7	37.2	55.3	73.5	82.3	79.6	31.3	48.1	65.0	75.0	74.2	64.7	82.5	89.7	90.6	86.6
Wayne	17.0	27.9	53.7	64.5	69.2	43.3	53.5	76.3	84.4	84.0	29.4	50.4	71.4	79.5	78.2	65.3	84.2	88.1	92.0	89.3
Webster	14.6	27.1	51.3	67.6	70.4	31.3	48.4	70.6	81.5	81.9	25.7	46.5	70.2	78.9	79.6	59.8	80.0	89.2	92.5	90.4
Winnebago	15.9	26.5	54.4	68.8	71.6	39.1	54.0	77.6	83.3	81.5	21.6	49.2	69.5	80.5	78.5	63.2	81.1	87.9	91.6	87.5
Winneshiek	14.0	23.0	54.6	71.3	71.6	37.3	50.6	77.0	85.5	83.9	19.6	48.9	71.4	79.1	76.9	61.2	80.8	90.5	92.9	87.7
Woodbury	13.1	22.9	48.4	64.3	67.8	34.8	52.9	74.1	83.7	83.8	21.7	42.0	62.8	74.9	75.2	59.2	79.8	88.2	91.7	88.7
Worth	21.7	37.6	63.2	75.8	77.9	45.3	65.3	81.6	88.2	85.7	26.0	48.9	70.8	80.7	79.8	71.9	87.1	93.5	95.9	91.2
Wright	13.1	27.1	52.2	64.8	69.3	33.9	52.4	73.0	81.6	83.6	30.3	52.3	71.1	79.0	79.1	65.3	85.3	92.1	92.8	89.6
State of Iowa	17.1	30.0	55.7	70.3	73.0	39.8	54.9	75.8	84.3	83.7	25.4	45.3	67.1	77.0	76.8	66.2	81.9	89.8	92.4	88.8

Table 5. Percent of Those Registered That Voted by Age Category In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1990					1988					1986					1984					1982				
	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+
Adair	39.8	68.8	82.8	86.3	82.0	24.5	62.7	83.5	88.6	91.9	30.1	59.8	75.5	79.9	77.4	69.2	86.0	91.2	92.4	87.8	45.4	72.6	82.0	85.4	79.8
Adams	29.4	57.6	74.3	82.1	76.4	26.8	65.3	80.8	88.3	90.1	36.6	59.8	71.5	80.1	79.5	74.3	86.3	91.0	93.6	90.0	39.5	68.5	77.3	86.5	76.8
Allamakee	27.5	60.4	74.4	82.7	81.6	24.3	62.5	79.0	83.1	87.6	30.5	58.8	74.6	80.7	79.7	48.8	80.2	87.1	91.7	87.1	29.0	63.3	75.3	81.7	77.8
Appanoose	24.3	51.4	67.0	74.7	74.3	27.5	66.6	79.7	85.4	88.7	22.4	42.2	59.4	71.0	74.0	57.0	81.1	85.5	90.3	89.3	35.2	59.1	69.8	78.5	76.2
Audubon	51.9	67.1	78.5	83.9	78.1	18.3	53.4	70.9	77.3	81.0	29.1	56.0	66.6	76.0	73.0	73.7	85.8	91.0	91.9	88.3	53.9	77.1	85.1	90.0	84.3
Benton	26.5	60.2	75.6	80.5	73.7	27.8	64.4	83.4	89.0	90.3	25.7	53.3	67.2	71.9	69.8	59.0	80.4	86.7	88.6	85.9	40.3	63.6	74.4	79.2	73.4
Black Hawk	30.3	47.5	69.2	77.5	77.7	32.3	62.8	83.2	89.3	90.2	26.2	43.2	65.6	76.6	76.5	60.8	76.2	86.8	90.8	88.2	55.7	71.9	82.0	85.9	81.6
Boone	33.0	56.4	72.6	79.8	75.6	30.7	60.7	79.8	86.8	88.2	27.5	49.2	65.0	77.9	74.1	64.8	81.7	87.1	91.3	88.8	35.0	57.1	71.2	79.8	76.8
Bremer	27.9	52.4	70.0	76.9	74.4	26.3	58.4	79.9	88.4	87.8	24.5	51.9	70.9	78.7	73.6	53.9	77.7	87.2	89.0	86.9	41.0	59.9	76.0	80.8	73.2
Buchanan	27.3	56.5	73.4	80.6	76.5	22.1	60.4	78.1	86.1	87.6	23.7	50.9	69.3	77.3	75.1	65.6	80.6	88.7	92.5	90.6	43.5	65.4	78.5	83.2	80.0
Buena Vista	29.1	58.5	74.0	80.0	78.0	32.0	60.7	80.0	86.9	88.8	27.3	56.3	72.7	80.8	76.7	55.7	79.2	85.4	89.3	86.1	29.5	55.9	71.7	79.5	72.8
Butler	25.9	57.1	69.0	77.2	76.0	25.4	56.7	74.7	81.1	85.2	28.6	54.3	69.4	74.8	76.7	65.9	83.5	88.4	89.6	87.0	49.2	69.3	76.6	80.7	76.9
Calhoun	23.3	55.9	72.2	78.3	74.4	35.7	67.8	82.7	89.6	88.4	29.4	60.1	72.1	76.8	73.5	58.3	73.5	81.6	85.5	80.6	34.8	55.0	68.9	75.3	67.7
Carroll	26.1	53.0	72.9	76.8	71.0	29.0	65.4	83.6	87.3	88.5	20.7	46.0	65.6	73.5	71.5	55.1	82.2	88.0	90.2	87.5	34.7	64.0	77.1	82.4	77.4
Cass	34.5	62.3	76.7	84.8	76.2	28.1	59.8	78.1	85.8	87.8	22.5	46.1	63.6	73.6	69.4	58.6	78.8	84.4	89.9	85.6	29.9	58.5	74.2	80.2	73.5
Cedar	30.8	57.8	71.6	77.8	75.8	28.1	60.9	82.1	88.5	88.3	26.9	38.8	54.4	59.1	59.5	60.0	74.2	83.0	83.6	80.8	41.3	54.6	66.9	74.6	69.5
Cerro Gordo	26.0	54.0	69.1	80.2	77.8	25.9	62.8	81.1	88.5	88.8	35.2	55.9	70.5	78.7	77.8	66.1	83.1	88.7	92.4	88.7	37.3	64.1	78.2	85.1	79.7
Cherokee	33.9	59.6	78.1	84.9	79.5	30.2	71.2	86.3	90.3	93.9	32.1	62.4	73.4	83.0	79.4	57.8	83.6	88.8	91.7	88.1	30.7	62.0	75.1	81.8	78.0
Chickasaw	24.9	57.3	75.3	78.7	80.5	21.9	65.1	85.2	89.1	89.0	29.3	52.9	69.8	77.5	78.3	54.9	81.3	86.4	90.5	87.2	35.9	66.2	76.1	83.0	76.9
Clarke	34.6	56.8	72.8	80.1	82.4	23.3	51.9	76.2	83.5	89.7	32.6	54.0	69.3	82.0	77.5	65.2	84.2	86.7	92.8	89.6	40.4	62.8	73.0	83.7	80.5
Clay	26.3	56.6	71.1	77.3	74.8	26.6	65.5	83.9	88.1	87.9	27.7	57.8	70.4	77.7	76.3	59.7	83.5	88.1	91.7	85.6	32.7	62.1	73.7	82.2	79.9
Clayton	27.1	58.4	74.8	81.2	80.5	19.4	60.4	79.4	85.0	88.6	24.8	56.6	72.3	77.9	73.8	49.6	81.2	86.3	89.5	85.3	34.5	67.1	80.3	82.6	78.3
Clinton	26.8	48.0	67.2	76.6	76.9	26.8	58.6	79.1	84.1	86.3	20.9	35.2	55.0	69.3	69.9	59.0	69.7	82.2	87.4	85.7	39.0	54.1	66.8	76.2	75.0
Crawford	18.9	54.0	71.6	77.4	73.1	24.3	64.9	83.8	90.6	92.6	23.3	48.5	63.0	75.7	73.5	52.7	70.4	83.5	87.2	85.4	33.1	59.9	75.0	80.5	76.2
Dallas	27.5	57.3	74.5	79.8	77.9	25.3	55.2	76.4	85.4	86.8	23.2	55.0	68.3	75.0	73.0	54.6	78.9	85.0	87.2	85.4	40.5	70.3	80.0	82.2	78.3
Davis	30.5	55.9	71.4	79.1	79.6	28.3	72.6	82.3	88.0	92.2	32.1	49.4	68.7	73.2	71.6	72.4	83.5	87.6	92.1	91.4	51.7	67.6	78.3	85.9	83.0
Decatur	22.9	52.7	69.2	79.1	75.1	36.5	64.9	78.2	83.5	86.5	29.4	52.7	68.5	79.1	71.5	54.7	73.5	84.6	89.0	86.3	29.9	63.1	73.5	78.9	77.0
Delaware	29.9	59.9	74.6	80.3	76.5	23.9	62.3	77.4	83.4	86.2	22.0	45.9	60.9	66.8	66.7	66.4	85.6	90.7	92.0	90.0	42.0	68.8	77.4	80.5	75.1
Des Moines	29.5	53.1	70.8	79.3	78.9	32.3	60.8	79.5	87.7	89.7	25.0	42.1	59.2	69.7	68.4	70.3	84.3	89.8	92.9	90.1	33.9	53.3	67.8	78.9	76.2
Dickinson	24.6	53.2	68.8	74.7	73.6	26.2	57.8	76.6	81.2	85.6	33.2	64.1	75.9	80.2	77.2	58.6	80.1	86.3	89.8	86.9	41.9	60.9	70.2	77.7	74.7
Dubuque	29.1	53.0	73.3	80.2	79.5	27.0	62.5	82.6	89.1	89.2	21.4	44.0	67.1	74.9	70.7	61.2	79.6	89.7	92.3	89.9	33.9	59.5	76.2	83.0	77.9
Emmet	29.0	52.6	72.3	78.8	76.3	29.5	68.1	84.0	88.8	89.6	18.6	46.9	63.4	74.6	71.1	58.5	75.4	83.4	89.7	83.3	35.9	53.7	70.1	77.9	70.9
Fayette	34.0	64.2	79.3	84.9	81.8	24.2	61.9	81.1	86.8	88.3	23.5	53.6	70.3	75.7	73.9	61.0	82.0	90.3	89.5	87.7	42.3	69.2	79.5	82.4	78.2

Table 5. Percent of Those Registered That Voted by Age Category In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1990					1988					1986					1984					1982				
	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+
Floyd	24.1	48.9	68.2	77.7	77.9	26.2	59.3	80.7	86.8	89.8	23.9	51.4	68.0	75.9	75.3	58.2	84.1	89.9	92.4	89.4	36.8	59.4	78.1	82.2	76.8
Franklin	36.9	62.6	76.8	84.3	80.8	27.7	61.3	79.1	85.8	87.0	36.6	61.5	69.8	76.1	76.9	68.4	85.8	90.0	91.2	86.3	40.0	62.0	77.1	79.8	76.8
Fremont	30.2	68.2	79.6	83.2	81.7	25.3	59.4	75.4	82.5	84.5	26.0	59.8	72.4	80.1	76.6	62.5	87.1	91.7	93.6	91.3	37.4	60.8	72.6	78.8	73.6
Greene	37.2	62.8	76.6	82.1	78.6	32.4	58.4	78.0	83.1	82.7	23.7	53.0	66.8	76.1	69.9	57.9	83.4	87.5	91.1	88.5	27.7	63.1	72.5	81.4	78.9
Grundy	29.4	61.6	77.3	83.2	74.0	24.8	64.1	84.6	89.5	89.7	26.4	52.7	68.4	71.3	69.9	57.2	80.4	89.4	88.2	85.5	44.0	68.5	81.3	83.4	79.5
Guthrie	28.0	57.2	71.1	77.0	72.4	24.4	56.8	76.0	79.4	85.8	26.3	50.2	67.2	71.1	69.7	55.1	78.9	86.6	87.0	82.9	33.5	60.1	72.7	79.0	72.2
Hamilton	38.8	58.0	73.6	79.2	79.8	30.1	64.0	82.0	88.9	92.0	31.1	57.0	68.4	76.9	75.6	65.1	82.8	90.1	91.5	88.2	41.3	62.3	75.8	83.0	77.8
Hancock	26.0	57.0	69.7	76.7	73.8	27.1	66.9	81.5	87.0	87.4	26.6	51.9	66.0	71.8	71.8	56.4	79.8	86.0	90.6	88.7	37.3	64.0	74.9	77.3	73.9
Hardin	27.0	59.0	75.1	82.1	79.8	24.1	61.2	79.4	87.7	88.6	27.0	56.7	72.7	80.4	80.2	59.8	80.2	84.9	90.5	84.9	34.9	63.4	76.2	81.8	76.9
Harrison	24.7	47.8	63.6	74.1	72.4	26.4	59.9	78.6	86.0	89.4	25.5	50.1	66.1	75.1	73.8	59.7	78.8	84.8	90.8	86.8	30.7	56.9	69.7	79.7	75.0
Henry	24.6	51.2	68.7	76.6	76.5	25.7	58.5	79.0	84.2	87.0	20.1	45.6	64.7	70.4	70.7	52.0	78.7	85.7	89.1	85.6	32.2	53.9	68.7	77.5	73.6
Howard	29.7	56.9	75.2	81.7	80.2	27.7	58.6	79.0	89.6	89.5	29.2	61.0	77.5	84.3	81.6	56.0	84.3	91.4	92.7	88.8	35.6	68.4	78.2	86.4	78.9
Humboldt	23.6	60.6	73.6	85.0	81.2	35.0	72.7	84.7	92.1	92.0	30.4	51.8	70.5	79.3	77.7	64.7	84.7	89.1	92.4	89.2	31.3	50.6	66.5	77.8	71.1
Ida	28.4	62.6	73.7	79.6	75.9	21.0	61.7	81.0	86.2	87.9	31.7	60.7	74.9	80.1	74.1	53.8	83.3	89.2	90.6	86.7	28.3	60.9	73.6	77.8	70.3
Iowa	28.9	65.8	79.3	83.7	83.7	22.0	68.5	84.5	89.2	91.0	22.3	53.5	68.6	74.3	74.7	57.4	81.8	89.7	91.5	91.8	35.6	66.8	77.5	84.2	78.9
Jackson	31.5	62.4	79.6	84.0	82.1	21.3	56.1	79.5	85.3	85.8	26.3	50.9	67.3	73.9	70.7	62.3	81.1	88.3	89.8	86.6	43.4	63.5	77.4	80.0	76.3
Jasper	28.6	60.2	73.0	80.4	76.7	23.0	60.2	79.6	87.0	87.6	24.5	53.6	67.5	74.5	72.4	59.1	81.4	88.6	91.7	88.7	39.8	65.5	78.1	83.2	75.9
Jefferson	23.2	48.4	64.1	76.9	78.6	26.9	61.6	72.4	86.2	88.5	20.6	35.1	42.3	67.6	73.0	72.4	79.4	85.1	90.2	90.4	34.3	50.0	66.8	78.5	73.7
Johnson	29.3	42.4	69.0	77.4	78.0	40.0	58.5	77.1	86.8	86.8	27.3	40.5	63.5	72.7	71.7	71.1	75.4	87.6	92.0	88.4	55.1	67.5	78.7	82.8	77.4
Jones	29.1	60.2	73.8	83.2	77.1	24.7	64.1	82.5	88.7	88.9	22.8	49.1	64.5	71.9	69.9	58.2	81.1	87.4	91.0	88.2	37.2	64.6	78.9	84.3	80.5
Keokuk	32.8	53.9	73.4	80.7	80.7	30.1	63.6	79.9	87.4	89.1	26.8	48.2	63.9	73.0	70.1	64.8	83.0	87.1	90.9	87.3	34.9	65.4	76.7	81.2	76.7
Kossuth	27.8	59.9	76.9	82.3	76.5	32.3	69.4	86.5	90.3	88.5	26.6	50.5	67.2	75.5	72.0	59.3	82.1	86.2	87.9	83.4	34.4	58.3	71.5	76.9	71.5
Lee	26.9	48.5	65.6	73.5	75.7	31.7	65.5	80.5	88.1	89.8	31.4	52.1	68.3	77.6	75.7	61.4	78.4	85.8	89.9	88.0	31.9	50.3	63.8	73.7	67.7
Linn	30.0	53.9	70.0	77.9	77.0	28.9	64.1	82.8	89.2	90.3	21.4	41.8	60.5	70.1	69.1	62.5	77.7	87.0	91.0	87.8	36.8	55.5	71.8	80.0	75.2
Louisa	29.2	55.3	69.0	79.8	78.9	27.3	54.9	80.7	86.6	89.2	24.8	49.3	61.8	72.6	69.2	64.3	80.4	84.2	89.3	84.5	39.4	56.7	68.9	79.0	74.5
Lucas	24.7	58.3	75.0	81.7	79.3	21.5	60.9	80.3	85.6	88.7	22.3	52.6	66.5	73.6	73.1	62.4	87.3	89.9	93.9	90.3	39.9	66.1	76.7	84.4	78.9
Lyon	24.2	63.8	72.7	77.7	68.6	25.0	71.7	83.5	89.4	87.1	18.6	53.7	64.1	66.7	62.2	58.0	85.1	91.6	92.0	87.3	26.2	47.6	59.3	63.3	60.7
Madison	35.7	65.3	79.9	82.7	83.1	26.3	57.1	79.0	87.5	89.5	35.5	60.7	76.8	82.3	81.1	67.0	87.0	90.2	93.6	91.4	42.6	67.6	77.9	84.9	81.8
Mahaska	33.5	59.6	74.1	80.7	79.4	30.1	66.7	82.2	87.2	89.6	25.0	50.6	64.4	74.4	73.1	60.6	81.8	87.5	90.3	87.7	35.4	64.3	74.9	82.6	77.5
Marion	30.7	56.9	72.4	78.7	77.1	32.8	63.7	81.3	87.7	87.6	21.1	49.7	65.1	73.5	72.3	66.8	84.9	88.0	91.5	89.6	32.1	59.1	73.7	77.8	72.8
Marshall	32.0	56.3	73.6	80.0	75.0	33.2	65.9	84.5	89.0	89.2	27.1	51.1	67.9	75.4	71.5	58.3	78.3	87.7	91.2	86.8	39.1	65.9	78.1	82.1	78.1
Mills	24.1	43.1	62.9	72.0	70.8	29.9	62.2	78.5	84.6	89.1	19.4	42.6	61.3	68.7	71.2	69.5	82.9	90.0	91.4	88.7	29.7	56.6	68.9	75.3	70.5
Mitchell	30.7	61.2	74.7	85.1	81.2	25.5	63.9	82.5	88.1	90.1	27.3	53.8	74.1	80.3	80.4	59.3	83.2	90.6	93.5	89.8	32.3	62.2	78.6	84.3	79.7

Table 5. Percent of Those Registered That Voted by Age Category In Iowa's Counties in the November Elections of 1982-1998 (continued).

County	1990					1988					1986					1984					1982				
	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+	18-24	25-34	35-49	50-64	65-+
Monona	17.2	53.1	66.8	74.0	69.2	21.1	63.9	80.3	85.7	87.0	22.6	58.9	70.9	78.8	77.0	54.2	81.9	85.6	88.4	85.3	27.9	56.4	69.4	76.1	72.9
Monroe	34.4	64.6	75.6	85.4	84.2	24.9	62.9	79.9	86.5	89.9	32.7	49.3	68.4	75.8	73.3	69.6	84.9	90.1	93.1	90.9	35.4	60.2	76.1	82.3	77.3
Montgomery	24.9	44.7	65.2	73.3	72.1	24.2	55.4	75.4	82.1	83.8	19.4	41.5	59.9	69.6	68.0	66.1	80.7	86.4	88.8	86.1	25.6	46.7	60.5	69.4	67.1
Muscatine	27.2	44.6	62.4	72.9	74.3	22.2	54.4	74.9	82.7	85.7	16.2	32.9	46.9	53.5	57.1	61.1	74.2	80.7	84.6	82.7	29.2	42.9	58.1	70.0	68.9
O'Brien	24.4	62.6	73.7	78.5	71.5	20.9	63.5	81.6	86.9	85.8	26.6	59.1	71.4	76.9	70.7	56.0	80.9	86.5	88.0	86.9	29.2	56.9	69.8	73.4	68.5
Osceola	33.8	63.6	73.0	78.3	74.4	32.3	69.2	78.8	88.9	89.0	37.2	62.9	74.5	79.7	74.9	63.3	77.8	85.0	90.2	87.3	41.5	62.3	74.9	78.9	75.8
Page	24.8	45.7	66.1	76.0	73.8	32.7	64.2	79.6	86.6	89.4	19.7	47.7	65.0	71.7	69.7	66.5	84.8	90.7	91.8	89.0	26.9	56.4	66.3	71.8	67.0
Palo Alto	30.1	54.5	74.2	80.5	76.9	37.0	72.5	87.5	90.5	89.7	27.5	54.3	69.4	82.1	78.1	62.9	81.6	88.5	91.0	89.1	38.6	64.5	76.5	81.3	79.0
Plymouth	29.2	52.1	67.9	75.7	72.1	33.5	67.0	83.4	87.6	89.9	32.2	57.8	71.9	78.2	73.3	67.2	79.9	86.7	87.8	84.6	32.2	53.6	68.6	72.2	69.8
Pocahontas	24.7	54.9	72.1	75.2	74.4	24.6	61.2	77.4	85.2	85.3	31.3	59.6	76.2	81.9	80.4	56.8	80.9	89.5	92.0	86.9	30.6	62.2	71.5	78.4	73.3
Polk	34.8	55.9	70.9	78.7	78.3	29.6	62.0	80.2	87.5	89.9	26.9	44.9	61.2	70.9	69.8	61.9	69.7	78.1	85.1	79.6	42.4	56.6	70.4	79.3	73.4
Pottawattamie	26.5	44.4	63.1	72.3	72.7	32.0	64.5	81.1	87.0	90.7	18.6	33.7	51.5	62.4	62.3	60.6	74.6	84.5	88.7	84.5	29.3	46.3	61.1	72.2	71.3
Poweshiek	30.5	56.8	73.8	80.6	79.2	38.7	60.6	80.5	87.2	89.1	26.0	49.6	70.3	77.1	75.0	53.9	79.9	87.0	91.1	89.7	39.2	63.4	77.5	82.7	78.2
Ringgold	32.9	67.1	78.3	85.7	85.2	24.8	61.1	81.9	85.7	89.2	31.1	56.3	66.3	78.3	74.9	70.3	82.7	89.4	92.6	90.4	41.4	62.7	78.0	86.0	82.6
Sac	21.1	51.2	65.3	73.5	66.6	24.0	57.3	75.3	80.8	86.0	21.8	50.9	66.4	72.5	68.9	48.0	74.3	82.7	84.7	81.2	31.1	58.9	72.5	77.0	68.4
Scott	23.2	40.1	60.4	71.1	73.5	35.0	64.5	81.5	88.6	90.2	19.5	35.6	54.7	67.5	71.5	80.7	87.7	93.0	94.1	93.3	38.9	60.2	71.6	79.8	76.2
Shelby	18.6	58.5	73.3	79.7	75.0	18.8	63.1	81.1	87.8	88.5	17.4	49.0	63.4	75.3	69.2	50.7	81.8	87.4	93.2	88.5	26.0	67.2	76.9	84.6	75.4
Sioux	30.3	63.9	75.1	81.0	74.9	32.5	72.1	84.5	88.2	88.3	31.7	62.8	75.9	77.2	73.7	72.5	89.0	92.9	94.0	90.8	27.8	57.1	69.6	70.9	67.2
Story	33.0	48.3	75.2	82.9	78.4	38.8	63.7	79.5	88.3	89.4	24.9	39.6	66.8	78.1	72.7	64.3	66.8	85.1	90.1	85.0	48.6	65.9	82.0	86.4	79.9
Tama	33.5	62.0	78.1	83.0	77.8	31.1	62.3	84.8	89.6	90.1	29.5	52.2	69.7	75.8	71.4	63.6	83.2	89.8	91.8	86.5	40.0	63.3	76.5	82.8	78.2
Taylor	42.1	59.6	73.0	81.2	82.0	19.2	51.3	69.1	82.4	85.3	21.0	52.5	59.0	73.0	71.3	66.2	82.5	85.3	90.8	87.9	40.0	56.8	72.1	80.6	75.2
Union	29.3	52.1	70.5	79.1	74.6	37.5	65.9	83.0	87.7	89.5	32.4	53.0	68.3	77.8	74.7	61.9	78.9	86.7	89.6	85.1	42.4	59.3	76.5	80.9	76.8
Van Buren	36.9	61.3	78.8	81.4	80.9	27.4	59.0	79.2	79.8	86.0	40.8	56.0	73.4	78.7	76.5	62.1	82.2	88.7	88.3	86.6	38.8	60.4	74.9	76.6	72.1
Wapello	25.8	46.9	64.6	75.1	75.9	26.8	58.1	77.6	86.4	90.0	20.4	41.1	55.3	68.3	69.1	54.8	73.8	82.0	87.7	85.5	31.5	54.3	67.7	79.8	76.8
Warren	34.0	55.3	73.3	79.7	77.2	24.8	55.0	79.0	86.0	84.9	28.9	50.8	65.8	75.0	72.0	66.7	81.8	87.4	90.4	84.2	41.4	64.6	75.7	81.3	77.9
Washington	33.7	53.6	70.5	79.4	77.7	25.1	58.4	79.8	84.5	85.7	28.7	47.7	61.6	73.5	68.5	62.6	79.5	85.5	88.4	86.3	38.2	58.6	72.5	77.7	73.3
Wayne	29.4	58.2	74.1	82.3	82.8	25.8	68.4	78.2	85.4	88.7	31.3	56.5	71.1	81.4	76.3	61.5	81.2	86.8	90.7	89.1	40.6	67.4	75.7	81.4	76.3
Webster	28.4	52.7	68.5	78.1	76.9	25.3	61.2	80.8	88.4	90.6	20.6	45.1	61.2	73.5	70.4	54.8	71.0	83.0	89.3	86.4	30.8	51.2	68.5	77.6	74.0
Winnebago	29.4	64.2	77.7	84.7	82.4	34.1	58.9	80.0	86.3	89.9	36.1	57.7	74.3	81.8	80.7	72.5	85.3	89.3	92.6	90.3	43.5	68.9	80.1	87.3	81.9
Winneshiek	21.5	51.8	72.8	77.9	77.5	28.7	55.2	79.2	84.6	84.8	19.3	47.2	65.0	72.9	70.3	57.4	82.2	91.6	92.9	90.0	35.2	62.5	77.7	79.8	74.7
Woodbury	22.7	48.4	66.1	74.7	72.8	26.6	64.1	82.9	89.2	91.4	30.0	53.9	69.0	77.8	75.4	63.1	80.1	87.1	90.6	88.6	27.4	48.6	63.6	72.3	67.4
Worth	44.5	68.3	80.2	88.5	83.9	31.3	64.3	82.7	89.5	90.8	47.4	71.7	78.2	84.1	80.4	80.4	90.0	92.5	95.0	90.7	49.3	71.8	86.1	87.9	84.3
Wright	37.2	56.8	69.6	78.1	76.8	25.8	59.9	77.3	86.7	88.7	23.6	50.3	61.4	74.0	71.1	64.3	80.8	84.5	90.3	87.2	30.9	58.4	68.1	76.5	72.2
State of Iowa	29.4	52.7	70.4	78.3	76.8	30.1	62.2	80.6	87.4	88.9	25.3	46.5	63.9	73.5	72.2	63.1	78.0	86.2	90.0	86.8	39.5	59.6	72.9	79.7	75.2

between those with other/no party affiliation and Republicans was at least 20 percentage points in 1982-1998 elections except for 1984, 1988, and 1992. The percentage of Democrats who voted also was greater than those with other/no party affiliations but was smaller than the proportion of Republicans voting at each election.

At least 10,000 Republicans were registered in Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, Sioux, Story, and Woodbury in 1998. Except for Sioux, these counties plus Des Moines and Wapello had at least 10,000 registered Democrats in 1998. Those with at least 10,000 registered in both major parties also had at least that many holding other/no party affiliation; so did Cerro Gordo and Clinton.

Registration by party varies not only across counties but also within them. Thirty-three counties had more Democrats registered than Republicans in 1998; in Des Moines, Dubuque, Johnson, Polk, and Wapello, the difference was at least 5,000. Among the 66 counties with more Republicans registered than Democrats, only in Sioux did the difference exceed 5,000. The majority of counties reported more Republican than Democrat registrants each year from 1982 through 1998. For the most recent election, Republicans counted more registered than either Democrats or other/no party members in 41 counties, while Democrats had more than either of the others in 20 counties.

Registration does not necessarily lead to voting. Although those registered as no/other party exceeded the two major parties in 38 counties in 1998, only in Benton did they have the largest number actually voting. Republicans who voted outnumbered those in the other two groups in 72 counties, while Democrats voted in the largest numbers in 26 counties.

Statewide, 34.2 percent of the no/other party registrants actually voted in 1998. County figures for this group ranged from 16.6 percent in Mills to 42.6 percent in Floyd (Table 3). Thus, in no county did even half of those with no/other party affiliation vote. In contrast, 68.1 percent of registered Republicans voted; this varied from 56.1 percent in Mills to 79.4 percent in Adair. Among Democrats, the percentage voting was 61.1 with a range from 39.9 (Mills) to 76.1 (Chickasaw). Thus, the highest percentage of other/no party registrants who voted tended to be lower than the lowest percentages for Democrats or Republicans.

For the elections from 1982 through 1998, Republicans had a higher percentage voting than did Democrats, although the figures were relatively similar, differing by less than a percentage point in 1988 and 1992. The other/no party category had significantly lower percentages voting in each election, with the largest gap in 1998.

### **Registration and Voting by Age**

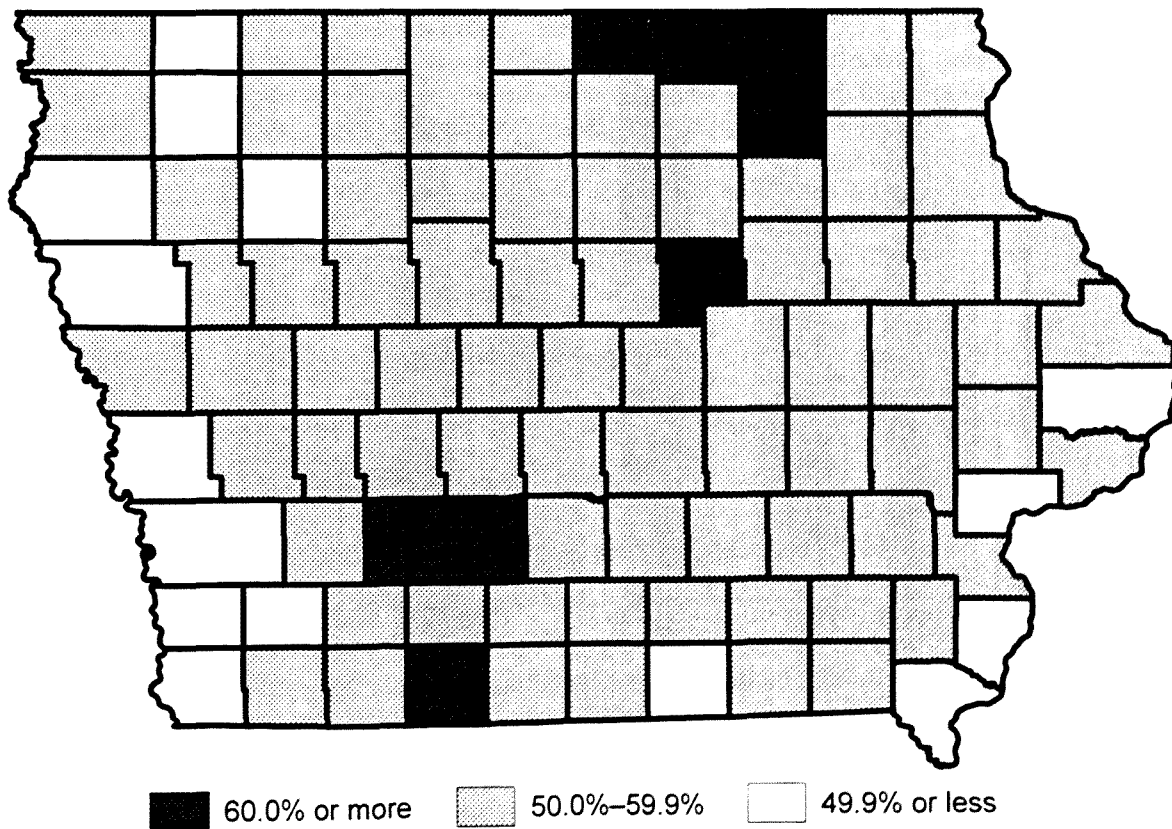
Voting also varied by age (Tables 4-5). In 1998, for example, 73.0 percent of those 65 years of age or older who were registered cast their ballots, while less than a quarter of that percentage of those age 18-24 (17.1%) voted (Figure 3). The highest percentage of registered people who actually voted was in the 50-64 age category in all but two elections (1988, 1998); in both of those years, those 65 or older were slightly more likely to vote. In 1984 and 1992, at least 9 of every 10 persons 50-64 years of age who were registered made it to the polls. In no other age group did at least 90 percent vote in any election. At least 75 percent of registered residents 50-64 years old or 65 or older voted in each election except 1986 and 1998. In only 1984 and 1992 did 3 of every 4 of those 25-34 years of age who were registered vote. In fact, only in 1984 and 1992 did at least half of those 18-24 who were registered actually vote. In 1986, 1988, 1990, 1994, and 1998, fewer than a third of those in the youngest age category who were registered cast their ballots.

Differences in voting patterns by age also exist across counties (Table 5). For example, the percentage of registered persons aged 65 or older who actually voted varied from 63.4 to 82.6 among the counties in 1998. Among those 18-24, which had proportionately fewer registered who cast their ballots than any other age group, voting percentages ranged from 10.1 to 26.1. County variations were between 18.4 and 40.9 percent for those 25-34 years of age, 40.0 and 65.0 percent for those 35-49, and 55.9 and

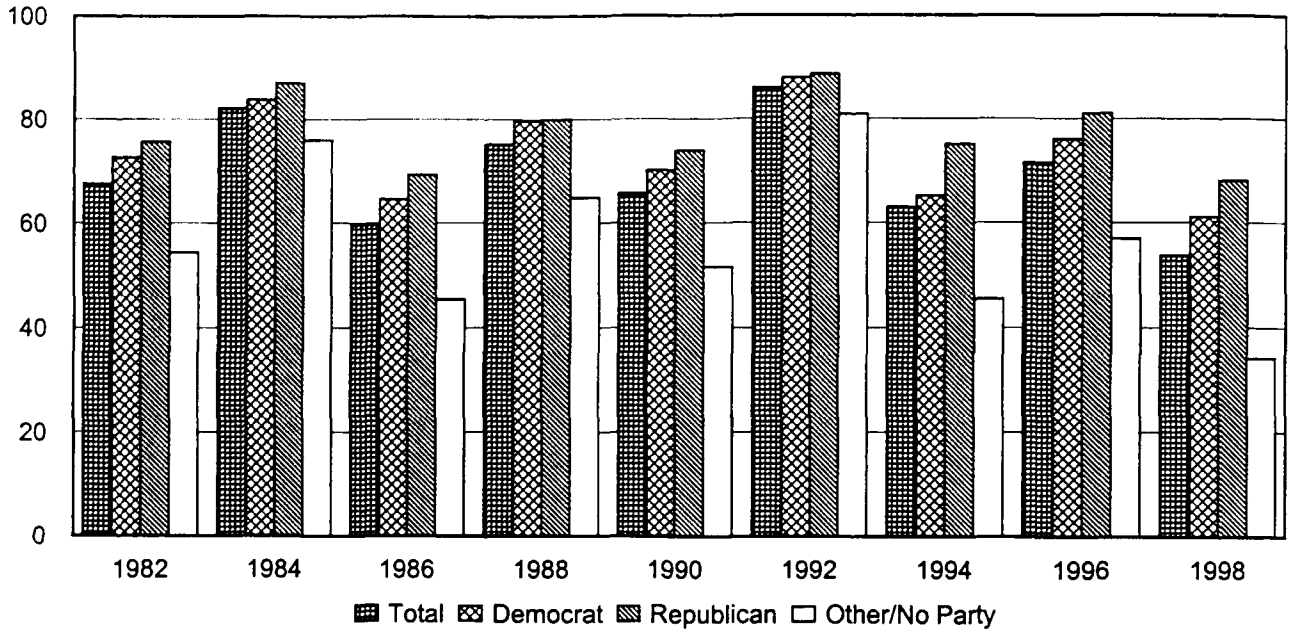
80.9 percent for those 50-64 years old. Thus, the highest percentages voting in the age groups under 35 were not as great as the lowest percentages for those 35 or older across the counties.

**Note:** Those interested in additional details of voting can review reports from the office of the State (Iowa) Registrar of Voters in the capitol complex in Des Moines, IA.

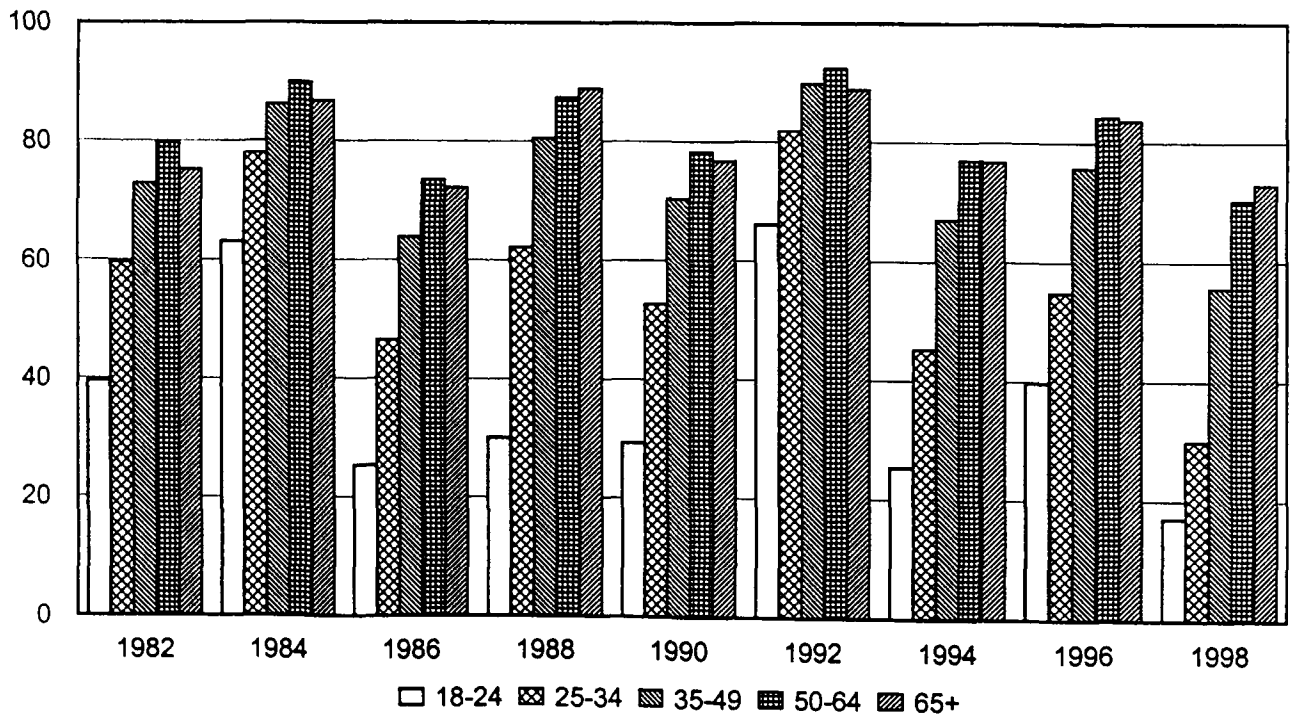
Figure 1. Percent of those registered who voted, 1998.



**Figure 2. Percent voting by political party and year in Iowa, 1982–1998.**



**Figure 3. Percent voting by age and year in Iowa, 1982–1998.**





## Use of Absentee Ballots by Political Party Affiliation and by Age and Sex in Iowa's Counties: 1988-1998

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The Office of the Secretary of State of Iowa analyzes data from elections. In this section, information is provided on voting by absentee ballot. The elections for which data are included are those in which members were selected for federal office since 1988. These always include races for the U.S. House of Representatives. In addition, Iowa contests for the U.S. Senate occurred in 1990, 1992, 1996, and 1998. Elections for President took place in 1988, 1992, and 1996 and for governor in 1990, 1994, and 1998. The number and level of contests affect voting statistics. The total number voting and the number voting absentee are reported; dividing the absentee voters by total voters and multiplying by 100 yields the percentage voting absentee. The 1998 figures are provided for all voting and by political party affiliation in Table 1. In addition, the total voting and percent voting absentee are noted for five age groups in Table 3 and by sex in Table 5. Matching tables on these three factors for 1988-1996 are available in the 1998 edition of this volume (see pages 465-494). Some summary statistics for each year are noted in Tables 2, 4, and 6. Note also that absentee votes were inadvertently added into precinct totals in Shelby County in 1998; thus, no absentee ballots are reported for that county although some residents actually voted in that manner.

### Total Voting, Absentee Votes, and Percentage Cast by Absentee Ballot in Iowa

The number voting in Iowa was higher in 1992 than any other year from 1988 through 1998. The other years with presidential contests (1988, 1996) also resulted in relatively large numbers voting. Fewer voted in 1998 than in any election since 1988. While total votes increased between some years and decreased between others, the number of absentee ballots gained throughout the period with two exceptions (1992 to 1994, decline of 11,000; 1996 to 1998, decline of 50,000). In 1988, 75,168 voters completed absentee ballots; in 1996, 196,500 absentee votes were counted, the highest number of any year reported and a gain of 161.4 percent from 1988. That compares with an increase of 6.7 percent in total votes from 1988 to 1996. Thus, absentee votes have become a much larger percentage of the total cast, increasing from 6.5 percent in 1988 to 15.9 percent in 1996. Even with the substantial drops in total and absentee votes from 1996 to 1998, absentee ballots constituted 15.3 percent of all votes cast in 1998.

Absentee voting varied greatly across counties. In 1998, for example, fewer than 10 percent of the total ballots were cast by absentee voters in 22 counties (Table 1). In nine others, at least 20 percent of the votes were cast through absentee means; only Clarke and Johnson exceeded 25 percent, however.

### Voting by Absentee Ballot by Political Party Affiliation

In 1998, 17.7 percent of those registered as Republicans voted absentee; so did 16.3 percent of Democrats. A much smaller percentage (9.4%) of those registered in other parties or not claiming a party affiliation cast absentee ballots (Table 1). The differences between percentages of Democrats and Republicans voting absentee generally were small; slightly higher percentages of Republicans used absentee ballots in 1988, 1990, 1994, and 1998 (Table 2, Figure 1). In all years, the lowest percentages were observed for those with other or no party affiliations.

About 14,000 more Republicans than Democrats voted absentee in 1998. Greater numbers of Republicans than Democrats voted absentee in four of the other five years as well; only in 1992 did more Democrats than Republicans vote absentee.

Text Continues on Page 497

Table 1. Number of Votes Cast, Number Cast by Absentee Ballot, and Percent Cast by Absentee Ballot by Party Affiliation in Iowa's Counties in the November Election of 1998.

County	Total			Democratic Party			Republican Party			Other/No Party		
	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes
Adair	3464	434	12.5	1003	104	10.4	1737	276	15.9	724	54	7.5
Adams	1733	161	9.3	612	36	5.9	812	105	12.9	309	20	6.5
Allamakee	4757	685	14.4	945	130	13.8	3101	481	15.5	711	74	10.4
Appanoose	4134	754	18.2	1699	328	19.3	1693	344	20.3	742	82	11.1
Audubon	2680	316	11.8	1117	120	10.7	991	150	15.1	572	46	8.0
Benton	8743	1065	12.2	2771	323	11.7	2973	551	18.5	2999	191	6.4
Black Hawk	39246	5882	15.0	14364	2275	15.8	14327	2668	18.6	10555	939	8.9
Boone	8880	1117	12.6	3842	442	11.5	2978	528	17.7	2060	147	7.1
Bremer	8294	956	11.5	1969	257	13.1	3722	542	14.6	2603	157	6.0
Buchanan	7370	968	13.1	2867	402	14.0	2405	408	17.0	2098	158	7.5
Buena Vista	5711	499	8.7	1402	84	6.0	2791	338	12.1	1518	77	5.1
Butler	5013	608	12.1	899	100	11.1	3280	452	13.8	834	56	6.7
Calhoun	3962	434	11.0	1043	79	7.6	1686	278	16.5	1233	77	6.2
Carroll	7341	692	9.4	3605	298	8.3	1914	280	14.6	1822	114	6.3
Cass	5072	477	9.4	961	65	6.8	3211	364	11.3	900	48	5.3
Cedar	6146	759	12.3	1711	196	11.5	2487	434	17.5	1948	129	6.6
Cerro Gordo	16304	3217	19.7	5904	1272	21.5	6078	1455	23.9	4322	490	11.3
Cherokee	4761	380	8.0	1564	85	5.4	2273	244	10.7	924	51	5.5
Chickasaw	5620	1030	18.3	2462	470	19.1	1887	417	22.1	1271	143	11.3
Clarke	3547	1014	28.6	1326	386	29.1	1310	360	27.5	911	268	29.4
Clay	6134	490	8.0	1423	75	5.3	3211	340	10.6	1500	75	5.0
Clayton	6816	768	11.3	2314	243	10.5	2612	364	13.9	1890	161	8.5
Clinton	16077	2029	12.6	4891	688	14.1	6351	991	15.6	4835	350	7.2
Crawford	5391	491	9.1	1925	150	7.8	2307	276	12.0	1159	65	5.6
Dallas	13710	2898	21.1	4882	1164	23.8	5266	1287	24.4	3562	447	12.5
Davis	2984	437	14.6	1583	200	12.6	912	175	19.2	489	62	12.7
Decatur	3018	343	11.4	1282	123	9.6	1249	175	14.0	487	45	9.2
Delaware	6203	803	12.9	1585	184	11.6	2759	480	17.4	1859	139	7.5
Des Moines	13575	2458	18.1	7219	1430	19.8	3901	709	18.2	2455	319	13.0
Dickinson	6137	876	14.3	1747	176	10.1	2626	560	21.3	1764	140	7.9
Dubuque	27790	3836	13.8	14333	2043	14.3	7303	1277	17.5	6154	516	8.4
Emmet	3543	326	9.2	1349	78	5.8	1367	211	15.4	827	37	4.5
Fayette	7921	1141	14.4	2279	325	14.3	3520	599	17.0	2122	217	10.2
Floyd	6106	1016	16.6	2039	338	16.6	2232	519	23.3	1835	159	8.7
Franklin	3896	473	12.1	863	82	9.5	2292	334	14.6	741	57	7.7
Fremont	2653	237	8.9	751	37	4.9	1477	177	12.0	425	23	5.4
Greene	3937	400	10.2	1322	117	8.9	1785	214	12.0	830	69	8.3
Grundy	4791	618	12.9	836	108	12.9	2915	423	14.5	1040	87	8.4
Guthrie	4367	619	14.2	1350	143	10.6	2149	376	17.5	868	100	11.5
Hamilton	5801	667	11.5	1738	168	9.7	2541	411	16.2	1522	88	5.8
Hancock	4190	448	10.7	959	80	8.3	2461	324	13.2	770	44	5.7
Hardin	6839	1044	15.3	2036	281	13.8	3259	618	19.0	1544	145	9.4
Harrison	4451	313	7.0	1598	70	4.4	2051	217	10.6	802	26	3.2
Henry	7172	1279	17.8	2298	510	22.2	3210	543	16.9	1664	226	13.6
Howard	3754	371	9.9	1628	130	8.0	1268	182	14.4	858	59	6.9
Humboldt	3880	487	12.6	999	95	9.5	1988	327	16.4	893	65	7.3
Ida	3187	324	10.2	717	65	9.1	1978	219	11.1	492	40	8.1
Iowa	5880	752	12.8	1658	244	14.7	2557	405	15.8	1665	103	6.2
Jackson	6639	1171	17.6	3784	595	15.7	1753	410	23.4	1102	166	15.1
Jasper	13940	2239	16.1	6048	1157	19.1	5010	825	16.5	2882	257	8.9

Table 1. Number of Votes Cast, Number Cast by Absentee Ballot, and Percent Cast by Absentee Ballot by Party Affiliation in Iowa's Counties in the November Election of 1998 (continued).

County	Total			Democratic Party			Republican Party			Other/No Party		
	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes
Jefferson	6340	1193	18.8	1207	268	22.2	3737	739	19.8	1396	186	13.3
Johnson	33802	9532	28.2	16848	4954	29.4	7970	2693	33.8	8984	1885	21.0
Jones	7003	791	11.3	2390	183	7.7	2746	484	17.6	1867	124	6.6
Keokuk	4098	469	11.4	1736	194	11.2	1623	218	13.4	739	57	7.7
Kossuth	6829	902	13.2	2933	352	12.0	2535	445	17.6	1361	105	7.7
Lee	11700	2901	24.8	5526	1674	30.3	2989	630	21.1	3185	597	18.7
Linn	65373	11582	17.7	22164	4086	18.4	22289	5183	23.3	20920	2313	11.1
Louisa	3444	422	12.3	957	94	9.8	1847	263	14.2	640	65	10.2
Lucas	3120	552	17.7	1032	176	17.1	1512	307	20.3	576	69	12.0
Lyon	4091	533	13.0	562	36	6.4	3189	449	14.1	340	48	14.1
Madison	5363	668	12.5	2110	250	11.8	2165	331	15.3	1088	87	8.0
Mahaska	7087	1567	22.1	1856	443	23.9	3934	942	23.9	1297	182	14.0
Marion	10313	2334	22.6	3741	872	23.3	4421	1173	26.5	2151	289	13.4
Marshall	14204	3296	23.2	4896	1267	25.9	6279	1631	26.0	3029	398	13.1
Mills	3847	451	11.7	788	37	4.7	2576	379	14.7	483	35	7.2
Mitchell	4347	597	13.7	1264	166	13.1	1928	298	15.5	1155	133	11.5
Monona	3695	326	8.8	1553	122	7.9	1239	144	11.6	903	60	6.6
Monroe	2879	452	15.7	1501	203	13.5	915	192	21.0	463	57	12.3
Montgomery	4112	482	11.7	652	62	9.5	2815	385	13.7	645	35	5.4
Muscatine	10756	1761	16.4	2406	353	14.7	5898	1154	19.6	2452	254	10.4
O'Brien	4840	468	9.7	822	51	6.2	3170	365	11.5	848	52	6.1
Osceola	2253	188	8.3	379	15	4.0	1675	162	9.7	199	11	5.5
Page	5458	601	11.0	827	49	5.9	3723	479	12.9	908	73	8.0
Palo Alto	3834	381	9.9	1807	164	9.1	1328	163	12.3	699	54	7.7
Plymouth	7053	679	9.6	1481	73	4.9	4302	534	12.4	1270	72	5.7
Pocahontas	3002	280	9.3	939	70	7.5	1235	166	13.4	828	44	5.3
Polk	126057	20650	16.4	56147	9829	17.5	49149	9192	18.7	20761	1629	7.8
Pottawattamie	21588	3003	13.9	6649	832	12.5	11091	1886	17.0	3848	285	7.4
Poweshiek	6489	866	13.3	2256	374	16.6	2675	337	12.6	1558	155	9.9
Ringgold	2324	363	15.6	833	131	15.7	1195	197	16.5	296	35	11.8
Sac	4132	407	9.8	847	79	9.3	2323	260	11.2	962	68	7.1
Scott	47689	6168	12.9	13622	1753	12.9	20520	3581	17.5	13547	834	6.2
Shelby	4587	0	0.0	1759	0	0.0	1928	0	0.0	900	0	0.0
Sioux	10090	888	8.8	803	40	5.0	8243	794	9.6	1044	54	5.2
Story	24566	4063	16.5	8470	1404	16.6	9073	1995	22.0	7023	664	9.5
Tama	6437	688	10.7	2368	240	10.1	2537	361	14.2	1532	87	5.7
Taylor	2515	270	10.7	700	65	9.3	1409	171	12.1	406	34	8.4
Union	4796	1128	23.5	1576	442	28.0	2101	508	24.2	1119	178	15.9
Van Buren	2926	316	10.8	791	82	10.4	1672	201	12.0	463	33	7.1
Wapello	12008	2470	20.6	7066	1687	23.9	2940	484	16.5	2002	299	14.9
Warren	14534	2400	16.5	5900	1008	17.1	5432	1072	19.7	3202	320	10.0
Washington	7003	1181	16.9	1827	378	20.7	3624	607	16.7	1552	196	12.6
Wayne	2510	277	11.0	898	85	9.5	1160	158	13.6	452	34	7.5
Webster	12822	1740	13.6	5546	787	14.2	4276	703	16.4	3000	250	8.3
Winnebago	4187	350	8.4	1153	58	5.0	1849	245	13.3	1185	47	4.0
Winneshiek	6828	834	12.2	1797	213	11.9	3403	510	15.0	1628	111	6.8
Woodbury	26716	3535	13.2	8784	1495	17.0	11387	1643	14.4	6545	397	6.1
Worth	3265	306	9.4	992	100	10.1	1548	173	11.2	725	33	4.6
Wright	4814	528	11.0	1195	91	7.6	2632	378	14.4	987	59	6.0
State of Iowa	961258	146639	15.3	343846	55937	16.3	396154	70006	17.7	221258	20696	9.4

Table 2. Percent of Votes Cast by Absentee Ballot by Party Affiliation in Iowa's Counties in the November Elections of 1988-1998.

County	1998				1996				1994				1992				1990				1988			
	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth
Adair	12.5	10.4	15.9	7.5	11.3	11.8	12.0	9.0	10.6	10.1	12.4	6.5	9.1	8.6	10.1	7.9	8.4	8.0	10.0	5.1	5.9	5.5	6.8	4.8
Adams	9.3	5.9	12.9	6.5	12.4	13.0	13.2	9.8	9.6	9.3	10.6	7.9	10.2	11.5	10.3	8.3	7.9	8.3	9.0	3.9	5.1	5.2	5.1	4.9
Allamakee	14.4	13.8	15.5	10.4	13.3	15.6	12.4	13.7	11.9	12.6	12.6	8.6	11.0	13.5	10.1	10.5	8.8	8.5	9.5	7.5	6.7	7.5	5.6	8.3
Appanoose	18.2	19.3	20.3	11.1	17.2	18.3	19.4	11.2	14.2	14.5	15.9	8.8	13.5	13.6	16.0	9.5	12.0	12.1	14.7	5.1	10.0	9.0	11.3	9.9
Audubon	11.8	10.7	15.1	8.0	14.3	14.2	16.9	11.1	10.4	8.3	14.8	6.5	10.9	10.5	11.4	11.1	11.6	11.6	12.3	10.7	6.9	5.7	7.7	8.7
Benton	12.2	11.7	18.5	6.4	11.9	12.6	14.6	8.8	7.6	7.1	11.3	4.3	7.6	8.6	9.8	5.2	5.1	5.1	7.4	3.2	5.0	4.4	5.8	4.9
Black Hawk	15.0	15.8	18.6	8.9	14.0	15.2	16.3	10.0	10.5	11.4	12.8	5.4	9.1	9.8	11.0	6.3	8.8	8.7	12.4	3.8	7.0	6.3	9.2	5.5
Boone	12.6	11.5	17.7	7.1	16.6	16.7	19.9	12.5	13.2	13.0	16.5	8.2	10.5	11.3	12.6	7.6	9.5	9.7	13.6	4.8	7.7	7.0	9.2	7.2
Bremer	11.5	13.1	14.6	6.0	11.2	14.2	12.2	8.2	8.5	9.4	10.6	4.8	7.7	10.0	7.5	6.2	5.2	5.4	7.9	2.1	4.9	5.2	5.9	3.8
Buchanan	13.1	14.0	17.0	7.5	13.0	13.7	15.4	10.0	8.8	8.0	12.6	5.2	9.3	9.3	11.6	7.3	6.3	4.6	11.2	2.9	5.6	4.8	7.6	4.4
Buena Vista	8.7	6.0	12.1	5.1	13.7	14.3	14.6	12.1	10.6	10.8	12.7	6.0	9.9	10.9	11.0	7.7	9.2	9.5	10.9	5.8	7.7	7.6	8.2	7.2
Butler	12.1	11.1	13.8	6.7	12.6	11.8	13.3	11.3	9.5	8.5	11.2	4.7	7.9	8.8	7.5	8.1	8.0	6.4	9.5	4.4	5.0	4.5	5.2	5.2
Calhoun	11.0	7.6	16.5	6.2	13.5	14.7	16.6	9.6	10.1	9.3	14.0	5.6	11.1	13.1	13.5	7.4	0.8	0.8	0.9	0.7	8.7	7.4	10.8	7.9
Carroll	9.4	8.3	14.6	6.3	12.5	11.8	15.9	10.5	8.9	8.1	12.4	6.6	10.0	10.5	11.2	8.3	0.0	0.0	0.0	0.0	6.2	5.3	8.2	6.9
Cass	9.4	6.8	11.3	5.3	12.5	15.5	12.0	10.9	10.6	11.1	11.4	6.5	9.4	10.9	8.2	11.2	9.9	8.9	10.5	9.3	6.8	6.6	6.3	8.9
Cedar	12.3	11.5	17.5	6.6	12.0	12.8	13.5	9.8	9.5	10.8	9.8	7.8	8.9	11.2	9.3	6.5	8.9	9.9	11.4	4.6	6.4	7.0	6.7	5.4
Cerro Gordo	19.7	21.5	23.9	11.3	18.9	21.3	21.4	13.1	14.9	15.5	18.1	8.3	12.4	13.7	14.6	8.6	9.5	9.6	13.3	4.6	7.1	7.1	8.9	5.1
Cherokee	8.0	5.4	10.7	5.5	10.3	10.1	11.4	8.5	9.2	8.6	10.8	5.5	10.3	10.1	11.0	9.4	8.5	7.3	10.5	7.0	7.6	6.5	8.2	8.4
Chickasaw	18.3	19.1	22.1	11.3	16.2	17.0	17.3	13.5	17.3	17.9	17.9	15.5	12.7	14.3	14.2	8.8	12.2	13.2	15.4	5.4	8.9	9.3	9.2	7.8
Clarke	28.6	29.1	27.5	29.4	23.1	25.6	23.3	19.1	17.6	17.2	19.7	13.7	15.3	14.8	18.5	11.9	12.8	10.2	17.5	9.2	10.7	9.2	12.9	9.7
Clay	8.0	5.3	10.6	5.0	11.3	12.3	12.2	8.9	9.2	9.8	10.9	4.5	8.5	9.8	8.6	7.4	7.8	9.0	9.1	3.9	6.9	6.5	7.7	6.1
Clayton	11.3	10.5	13.9	8.5	11.1	12.1	11.5	9.6	8.8	9.4	9.9	6.2	9.3	10.0	9.4	8.6	7.8	7.3	9.7	6.1	6.6	5.3	7.2	7.6
Clinton	12.6	14.1	15.6	7.2	12.5	14.8	13.3	9.4	11.1	12.6	12.3	7.2	10.7	11.7	12.3	8.4	8.3	9.2	11.2	4.0	7.3	7.3	8.3	6.4
Crawford	9.1	7.8	12.0	5.6	10.3	10.4	11.8	8.2	7.7	7.2	9.5	5.8	8.6	7.2	10.8	8.4	6.1	4.6	9.2	4.6	4.6	3.3	5.6	5.4
Dallas	21.1	23.8	24.4	12.5	17.2	18.5	19.8	12.5	13.0	12.9	15.9	8.0	10.5	11.4	11.7	7.8	9.6	9.2	13.7	5.4	6.9	6.5	8.4	6.2
Davis	14.6	12.6	19.2	12.7	16.3	16.8	16.8	14.2	12.9	13.6	13.3	9.9	12.5	12.6	13.0	11.6	10.5	10.4	12.6	6.8	8.6	9.0	8.7	6.9
Decatur	11.4	9.6	14.0	9.2	13.2	14.7	13.6	8.8	10.0	10.0	11.6	5.7	10.2	10.8	10.4	8.7	7.8	7.7	8.7	5.7	6.0	4.9	6.8	7.1
Delaware	12.9	11.6	17.4	7.5	12.7	12.4	14.2	11.2	11.8	11.8	15.2	6.5	9.5	10.3	11.0	7.3	9.5	7.9	13.2	5.6	7.1	7.2	7.7	6.1
Des Moines	18.1	19.8	18.2	13.0	16.0	17.3	16.5	12.6	11.8	12.5	13.9	6.6	12.0	12.7	12.8	10.1	11.2	11.7	12.8	8.7	6.2	5.2	7.8	6.5
Dickinson	14.3	10.1	21.3	7.9	17.0	17.5	19.9	12.8	15.1	14.0	19.3	8.5	14.4	14.1	17.0	12.2	12.1	11.3	16.3	7.6	11.0	9.3	13.7	9.5
Dubuque	13.8	14.3	17.5	8.4	15.7	16.5	18.1	11.8	10.8	10.7	14.4	6.2	10.6	11.5	12.6	7.4	9.1	9.1	13.4	5.2	5.0	4.4	7.1	4.6
Emmet	9.2	5.8	15.4	4.5	10.7	13.2	9.3	9.0	9.5	9.5	11.4	4.9	10.9	11.1	11.3	10.1	8.7	7.6	11.8	5.0	8.5	7.2	10.3	8.1
Fayette	14.4	14.3	17.0	10.2	15.4	17.6	16.1	12.1	11.5	13.0	13.3	6.3	11.1	12.8	12.1	8.0	10.1	10.8	12.3	5.4	8.0	9.0	7.7	7.2

Table 2. Percent of Votes Cast by Absentee Ballot by Party Affiliation In Iowa's Counties in the November Elections of 1988-1998 (continued).

County	1998				1996				1994				1992				1990				1988			
	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth
Floyd	16.6	16.6	23.3	8.7	14.9	14.6	19.2	10.2	14.8	12.8	19.3	9.9	10.9	11.5	13.7	7.2	7.8	6.4	11.7	3.6	6.6	5.7	8.8	4.7
Franklin	12.1	9.5	14.6	7.7	12.9	16.2	12.4	10.9	8.6	8.1	9.3	6.5	8.1	9.4	8.3	6.2	7.1	7.5	7.7	4.7	5.3	5.5	5.9	3.1
Fremont	8.9	4.9	12.0	5.4	9.9	8.0	12.2	8.0	9.0	8.6	10.1	6.1	9.6	9.1	9.9	9.6	10.7	9.4	11.6	10.5	6.9	5.4	7.3	8.7
Greene	10.2	8.9	12.0	8.3	12.1	14.1	12.4	8.7	9.9	9.6	12.4	5.1	9.7	10.7	10.2	7.6	4.3	4.9	4.8	2.8	5.9	4.7	6.7	6.9
Grundy	12.9	12.9	14.5	8.4	11.0	11.9	12.0	8.1	10.2	8.8	11.6	6.4	8.6	9.2	8.6	8.1	7.1	6.5	8.3	3.8	6.6	6.6	6.5	6.5
Guthrie	14.2	10.6	17.5	11.5	13.2	12.1	14.6	11.8	10.9	9.8	13.0	6.6	10.0	9.3	10.9	9.7	9.0	6.8	13.0	4.9	7.0	6.0	8.3	6.4
Hamilton	11.5	9.7	16.2	5.8	15.8	19.2	17.2	10.4	15.5	18.6	16.2	9.7	15.4	18.8	15.1	11.7	9.1	10.7	11.0	3.5	6.6	6.2	7.9	5.4
Hancock	10.7	8.3	13.2	5.7	11.1	12.3	11.5	8.9	10.1	9.0	11.3	7.7	9.3	8.5	9.8	9.3	6.6	5.2	8.8	3.3	6.1	6.0	6.5	5.5
Hardin	15.3	13.8	19.0	9.4	16.3	18.9	16.5	13.0	12.5	12.8	14.3	7.9	12.4	14.0	13.4	9.3	12.3	14.7	12.1	8.9	8.5	8.6	8.3	8.7
Harrison	7.0	4.4	10.6	3.2	9.2	10.2	9.8	6.7	7.5	6.9	8.3	7.0	7.1	6.7	7.1	7.8	6.4	4.8	8.8	4.6	5.7	5.2	5.2	7.7
Henry	17.8	22.2	16.9	13.6	18.1	22.3	18.0	15.1	17.7	20.8	18.2	13.6	10.4	11.9	10.3	9.5	7.9	8.1	9.5	4.7	5.9	5.9	5.9	5.8
Howard	9.9	8.0	14.4	6.9	10.1	8.5	12.9	9.0	8.6	7.1	12.1	5.9	8.8	8.1	11.7	6.8	7.9	6.9	11.9	4.2	5.6	4.3	7.1	5.9
Humboldt	12.6	9.5	16.4	7.3	13.0	13.8	14.1	10.6	9.9	8.8	11.8	6.8	10.0	9.4	11.2	9.1	8.3	7.7	11.1	4.5	6.6	5.7	7.6	6.1
Ida	10.2	9.1	11.1	8.1	10.8	11.8	10.6	9.8	8.5	8.4	9.4	4.6	9.7	9.7	9.2	10.5	8.4	7.5	9.8	6.7	5.9	4.4	6.4	6.9
Iowa	12.8	14.7	15.8	6.2	12.8	14.9	14.0	9.5	8.9	8.6	11.7	4.6	8.8	10.5	9.5	6.6	7.2	6.2	9.8	4.3	5.6	4.6	6.1	6.0
Jackson	17.6	15.7	23.4	15.1	16.0	15.8	18.3	13.3	10.0	8.1	14.0	6.6	9.1	8.5	10.6	8.9	7.0	5.4	11.0	6.0	5.3	4.2	7.4	5.4
Jasper	16.1	19.1	16.5	8.9	14.9	17.4	15.0	10.0	13.1	14.3	15.0	7.1	11.2	12.1	12.1	8.6	8.3	8.5	11.0	4.0	5.5	5.2	6.8	4.3
Jefferson	18.8	22.2	19.8	13.3	15.8	16.3	16.5	13.9	10.1	8.2	14.5	5.3	9.8	9.4	11.4	8.7	8.5	8.1	10.4	6.2	6.0	5.0	7.0	5.5
Johnson	28.2	29.4	33.8	21.0	30.4	33.6	30.4	25.5	24.0	25.4	26.4	18.3	16.9	19.4	16.9	13.3	10.6	11.1	15.2	5.7	5.6	5.4	7.5	4.7
Jones	11.3	7.7	17.6	6.6	11.6	11.3	14.8	8.1	9.2	8.0	12.0	6.1	8.5	8.3	9.6	7.6	7.2	7.0	9.3	4.4	5.1	4.2	6.2	5.1
Keokuk	11.4	11.2	13.4	7.7	15.4	18.5	14.0	11.8	13.9	15.5	13.3	12.1	10.6	11.2	9.7	11.1	9.5	8.5	11.7	7.6	7.9	6.3	9.4	8.1
Kossuth	13.2	12.0	17.6	7.7	13.7	13.7	15.6	10.6	10.0	9.8	12.6	5.6	10.3	9.9	12.0	9.3	8.2	7.4	11.8	4.8	6.7	6.0	8.4	5.9
Lee	24.8	30.3	21.1	18.7	20.2	24.3	18.4	15.8	15.8	18.7	16.6	9.8	11.6	13.3	11.5	9.2	10.7	12.2	12.0	7.0	9.3	10.0	9.5	7.9
Linn	17.7	18.4	23.3	11.1	17.8	20.0	20.5	13.4	12.1	12.3	16.5	6.3	10.0	11.2	12.8	6.9	9.0	9.5	14.3	4.2	6.6	6.5	9.2	5.0
Louisa	12.3	9.8	14.2	10.2	8.2	8.9	8.3	7.4	10.7	8.2	13.1	5.7	8.2	8.7	8.9	6.1	8.2	6.2	10.2	4.8	5.7	4.0	6.4	6.5
Lucas	17.7	17.1	20.3	12.0	17.4	17.9	18.1	15.2	13.7	12.5	14.8	13.4	14.2	13.0	15.2	14.4	11.1	8.9	13.6	9.9	9.2	8.6	9.4	9.9
Lyon	13.0	6.4	14.1	14.1	8.6	8.7	8.5	8.6	7.4	7.0	7.8	3.8	6.2	7.9	5.8	6.4	6.4	5.7	7.1	2.7	5.1	4.0	5.2	6.2
Madison	12.5	11.8	15.3	8.0	15.6	16.2	17.6	11.5	12.2	11.3	15.0	7.4	10.5	10.9	12.8	7.0	8.9	8.4	11.2	5.5	7.2	5.9	9.3	6.5
Mahaska	22.1	23.9	23.9	14.0	25.1	28.7	25.5	19.8	14.2	13.6	15.3	10.7	9.7	11.4	9.3	8.2	8.3	8.1	9.7	5.4	5.2	5.0	5.7	4.6
Marion	22.6	23.3	26.5	13.4	23.5	24.3	26.8	17.1	13.6	11.9	17.4	8.4	10.8	12.1	10.4	9.4	8.2	7.9	11.2	4.0	5.4	4.8	6.5	5.2
Marshall	23.2	25.9	26.0	13.1	28.8	32.5	29.5	22.3	23.1	24.9	24.9	16.0	17.8	20.3	18.6	13.3	12.2	13.3	14.0	7.3	7.6	7.3	8.5	6.6
Mills	11.7	4.7	14.7	7.2	12.5	11.9	13.2	10.7	11.6	10.1	12.7	8.8	9.2	11.6	8.1	9.7	7.7	6.0	9.1	5.0	7.0	7.1	6.2	9.3
Mitchell	13.7	13.1	15.5	11.5	11.8	13.7	12.5	9.1	10.8	11.3	12.6	6.6	11.0	13.8	10.1	9.5	7.8	7.6	9.6	4.5	6.9	5.4	8.2	6.8

Table 2. Percent of Votes Cast by Absentee Ballot by Party Affiliation In Iowa's Counties in the November Elections of 1988-1998 (continued).

County	1998				1996				1994				1992				1990				1988			
	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth	Tot	Dem	Rep	Oth
Monona	8.8	7.9	11.6	6.6	10.8	11.9	12.7	7.4	9.5	9.7	11.1	6.8	7.6	8.3	8.7	5.9	7.9	7.3	12.1	3.9	6.5	6.3	9.0	4.6
Monroe	15.7	13.5	21.0	12.3	17.1	17.1	18.5	14.3	17.0	14.5	20.5	16.4	15.7	15.8	16.9	13.8	11.8	9.9	14.3	13.6	8.6	7.3	10.2	10.1
Montgomery	11.7	9.5	13.7	5.4	12.9	15.6	13.5	8.7	12.2	13.7	13.4	5.6	11.1	12.5	11.5	8.9	9.4	7.3	11.5	5.4	6.9	7.8	7.0	5.6
Muscatine	16.4	14.7	19.6	10.4	15.6	15.7	18.1	11.3	12.5	11.3	15.2	7.9	9.7	9.3	11.4	7.9	10.1	9.1	13.3	6.5	5.1	4.2	6.5	4.1
O'Brien	9.7	6.2	11.5	6.1	9.6	10.8	9.8	8.2	7.5	7.5	8.4	4.4	8.4	8.7	8.3	8.3	6.4	5.9	7.7	4.0	5.4	5.1	5.4	5.5
Osceola	8.3	4.0	9.7	5.5	9.3	7.9	9.9	8.3	7.6	7.5	8.3	2.6	8.4	8.4	7.9	10.0	6.0	5.0	6.1	8.0	5.9	4.4	6.1	7.6
Page	11.0	5.9	12.9	8.0	12.2	13.0	12.9	9.7	9.4	9.1	10.4	5.3	9.0	9.5	9.2	8.2	7.4	6.6	8.9	3.1	6.0	5.2	6.0	6.5
Palo Alto	9.9	9.1	12.3	7.7	12.8	13.9	12.4	11.1	9.2	9.0	10.6	6.2	11.1	11.4	12.3	9.5	8.9	8.2	12.2	7.2	10.3	10.1	10.5	10.9
Plymouth	9.6	4.9	12.4	5.7	9.2	8.8	10.2	7.3	7.5	6.0	9.1	4.2	7.4	7.9	7.3	7.3	6.1	5.9	7.5	4.0	5.0	4.3	5.5	5.0
Pocahontas	9.3	7.5	13.4	5.3	12.3	13.4	13.5	10.0	9.7	9.1	12.2	6.4	11.0	12.1	11.4	9.6	7.9	7.4	10.9	5.2	7.3	6.4	9.5	6.1
Polk	16.4	17.5	18.7	7.8	18.5	19.4	20.5	12.6	17.7	18.5	19.4	11.2	9.9	10.9	10.6	6.6	12.3	13.6	13.3	6.0	6.3	5.9	8.0	4.7
Pottawattamie	13.9	12.5	17.0	7.4	12.4	13.3	13.8	8.5	0.0	0.0	0.0	0.0	0.6	0.3	0.5	1.1	9.9	12.4	10.1	5.2	6.3	6.0	6.8	6.0
Poweshiek	13.3	16.6	12.6	9.9	14.0	15.9	13.4	12.5	11.6	12.6	12.2	8.6	10.5	11.2	10.2	9.7	9.6	8.6	11.8	7.7	6.8	6.9	6.9	6.3
Ringgold	15.6	15.7	16.5	11.8	16.8	16.0	18.7	12.6	12.4	11.1	14.4	7.8	12.8	11.5	12.8	15.5	10.6	10.0	10.8	11.4	7.6	6.7	8.1	8.7
Sac	9.8	9.3	11.2	7.1	9.6	11.3	9.4	8.9	8.2	7.0	10.0	4.6	7.1	7.8	7.2	6.4	7.4	6.4	9.3	4.9	5.6	3.1	6.3	6.8
Scott	12.9	12.9	17.5	6.2	14.7	17.0	16.9	10.1	11.4	11.9	14.3	5.9	9.1	10.1	10.6	6.9	1.1	1.4	1.5	.5	6.6	6.6	8.3	5.1
Shelby	0.0	0.0	0.0	0.0	10.3	10.4	12.7	6.5	8.8	8.4	11.6	4.7	9.4	9.8	10.2	7.9	5.6	5.3	6.9	3.8	5.6	4.3	6.3	6.8
Sioux	8.8	5.0	9.6	5.2	8.5	8.0	8.7	7.5	7.2	5.5	7.7	3.8	5.9	7.9	5.8	5.3	5.7	3.8	6.7	2.5	4.3	4.8	4.2	4.5
Story	16.5	16.6	22.0	9.5	19.5	21.8	22.9	13.3	14.3	14.5	17.6	8.4	8.9	9.9	11.1	5.9	7.3	7.8	10.3	3.3	4.9	5.1	6.2	3.6
Tama	10.7	10.1	14.2	5.7	11.5	12.6	12.6	8.1	10.0	9.7	12.3	5.6	8.7	8.6	9.7	7.6	7.3	6.8	9.7	4.7	6.4	5.8	7.6	5.6
Taylor	10.7	9.3	12.1	8.4	14.6	14.7	14.5	14.5	9.3	9.0	10.7	5.0	10.8	11.8	11.1	8.8	11.5	12.4	12.3	8.1	6.2	4.7	7.6	4.9
Union	23.5	28.0	24.2	15.9	22.7	26.2	23.6	16.5	26.4	28.2	25.4	25.6	15.9	19.1	17.3	10.2	15.0	18.1	15.4	8.6	11.8	14.8	10.5	9.4
Van Buren	10.8	10.4	12.0	7.1	10.8	11.8	10.3	11.0	9.5	8.2	10.7	7.2	9.5	11.1	8.2	10.0	9.6	9.0	9.3	11.9	5.8	5.2	6.2	5.1
Wapello	20.6	23.9	16.5	14.9	18.0	19.6	18.8	12.9	14.6	15.0	16.1	10.3	15.9	16.7	15.9	13.6	10.1	10.5	12.6	6.1	6.5	6.3	7.2	6.5
Warren	16.5	17.1	19.7	10.0	16.6	17.7	18.2	12.6	13.0	12.9	15.5	8.2	9.3	9.6	10.7	7.1	8.4	7.8	11.5	5.3	5.7	5.2	7.0	5.1
Washington	16.9	20.7	16.7	12.6	14.1	14.3	15.2	11.5	15.1	16.5	14.2	15.6	9.7	11.0	10.5	7.2	8.5	6.6	11.3	6.1	6.4	4.6	8.1	5.9
Wayne	11.0	9.5	13.6	7.5	12.3	12.5	13.4	10.0	11.0	10.4	12.4	8.4	10.4	10.7	10.2	10.0	8.2	8.0	9.5	5.0	8.0	7.2	7.8	10.4
Webster	13.6	14.2	16.4	8.3	16.1	17.4	18.1	11.6	11.9	11.8	14.8	7.1	11.8	11.8	15.7	8.6	9.1	8.4	13.6	6.0	7.3	7.0	8.3	6.9
Winnebago	8.4	5.0	13.3	4.0	9.9	10.5	11.9	7.3	8.4	8.8	10.9	4.4	8.1	8.0	10.6	5.9	7.1	5.5	11.1	3.6	6.5	5.1	8.8	5.1
Winneshiek	12.2	11.9	15.0	6.8	12.0	14.9	11.1	10.7	7.8	7.4	9.5	4.3	8.0	8.3	8.9	6.6	6.5	6.6	7.3	4.9	5.2	5.3	5.4	5.0
Woodbury	13.2	17.0	14.4	6.1	13.2	16.4	14.0	8.4	11.5	13.9	11.9	7.3	10.5	12.3	11.5	7.6	8.3	8.5	11.3	4.4	7.0	7.5	8.3	5.2
Worth	9.4	10.1	11.2	4.6	9.1	10.4	9.1	7.4	7.7	8.7	7.8	5.8	9.0	9.3	10.3	6.6	6.6	5.0	9.9	4.2	5.4	3.6	7.1	6.2
Wright	11.0	7.6	14.4	6.0	13.9	15.1	14.4	11.5	12.4	14.7	12.3	9.3	10.6	12.7	10.5	8.9	7.7	6.4	11.3	3.4	5.9	5.2	6.7	5.6
State of Iowa	15.3	16.3	17.7	9.4	15.9	18.0	16.8	12.0	12.7	13.5	14.3	7.9	10.2	11.4	10.8	7.9	8.8	9.2	10.9	4.8	6.5	6.1	7.6	5.7

The relationship between absentee voting and political party affiliation varied across Iowa's 99 counties. While 30.3 percent of the Democrats voting in Lee used absentee ballots in 1998, fewer than five percent of the Democrats in Fremont, Harrison, Mills, Osceola, and Plymouth voted absentee and the percentages varied from 5.0 to 9.9 in another 32 counties. For Republicans, these percentages were below 10 only in Osceola and Sioux; absentee ballots constituted one of every three Republican votes (33.8%) in Johnson. Clarke had the highest percentage (29.4%) of those with other/no party affiliation using absentee ballots, while percentages in two-thirds (68) of the counties were less than 10.

In 1998, at least 1,000 absentee votes were cast by Democrats in 16 counties and Republicans in 15. In both parties, absentee votes in Polk were about double the next highest figures (Johnson for Democrats, Linn for Republicans). In no county did Republicans cast fewer than 100 absentee votes, although that happened among Democrats in 29 counties.

### **Voting by Absentee Ballot by Age**

The use of absentee ballots generally varied more by age (Table 3) than by political party affiliation (Table 1). In 1998, for example, 10.0 percent of voters aged 35 through 49 completed absentee ballots, while 25.4 percent of those 18-24 years of age and 22.5 percent of voters at least 65 years old used absentee ballots (Table 3). This curvilinear relationship, with the two ends of the age continuum more likely to vote absentee than those in the middle age groups, occurred in each election from 1988 through 1998 (Table 4, Figure 2).

While the percentages are higher for young and old, numbers tell a different story. Numerically, far more absentee ballots were cast by those 65 years of age than in any of the other age categories every year. In 1988, 1990, and 1992, those under the age of 35 (18-24 plus 25-34) provided the second highest number of absentee votes. The age group providing the second greatest number of absentee ballots in 1994 and 1996 was that containing voters 35-49 years of age. In 1998, however, the 50-64 year olds were in second position; indeed, nearly two-thirds (66.2%) of absentee votes were cast by those at least 50 years of age in 1998.

As with political party affiliation, differences across counties occur on the percentage of absentee ballots by the age groups. In 1998, fewer than 20 percent of voters 18-24 years of age voted absentee in nine counties. In 12 others, at least 40 percent of the voters in this age group cast absentee ballots. Ranges in the 25-34 (4.1% to 28.9%), 35-49 (3.4% to 23.3%), and 50-64 (4.4% to 31.2%) age categories tended to be substantial as well. But the youngest (18-24: 13.4% to 58.0%) and oldest (65 or older: 7.8% to 38.0%) had the greatest variance.

### **Voting by Absentee Ballot by Sex**

Substantially more females vote than do males in Iowa (Table 5). In years with races for governor, about 60,000 more females than males voted, while elections with presidential candidates generated about 90,000 more votes by females than males. In addition, females vote by absentee means more than do males; the difference ranged from less than 7,000 in 1988 to more than 28,000 in 1996. In 1998, 16.4 percent of ballots cast by females were in absentee form while 13.9 percent of males who voted used that procedure. That difference of more than two percentage points occurred in 1994 and 1996 as well, although females and males voting absentee varied little in 1988 (6.6% and 6.4%, respectively) (Table 6).

Among females who voted in 1998, the percentage that cast absentee ballots ranged from less than 10 in 13 counties to more than 25 in Clarke, Johnson, Lee, Marshall, and Union. In 28 counties, less than 10 percent of the votes cast by males occurred in absentee form; Clarke and Johnson exceeded 25 percent. In no county did more males than females vote absentee.

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Table 3. Number of Votes Cast and Percent Cast by Absentee Ballot by Age Categories in Iowa's Counties in the November Election of 1998.

County	18-24			25-34			35-49			50-64			65 or Older		
	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes
Adair	125	47	37.6	245	19	7.8	998	60	6.0	862	71	8.2	1234	237	19.2
Adams	52	27	51.9	103	18	17.5	425	19	4.5	522	34	6.5	631	63	10.0
Allamakee	112	35	31.3	332	45	13.6	1273	107	8.4	1336	175	13.1	1704	323	19.0
Appanoose	126	37	29.4	260	40	15.4	1020	105	10.3	1104	159	14.4	1624	413	25.4
Audubon	71	27	38.0	185	11	5.9	698	45	6.4	695	64	9.2	1031	169	16.4
Benton	341	75	22.0	911	99	10.9	2888	246	8.5	2267	239	10.5	2336	406	17.4
Black Hawk	1584	228	14.4	3156	294	9.3	11636	1020	8.8	11249	1424	12.7	11620	2916	25.1
Boone	335	56	16.7	752	59	7.8	2835	210	7.4	2329	242	10.4	2629	550	20.9
Bremer	316	61	19.3	595	57	9.6	2473	180	7.3	2548	228	8.9	2362	430	18.2
Buchanan	270	63	23.3	671	58	8.6	2257	169	7.5	2022	200	9.9	2150	478	22.2
Buena Vista	150	33	22.0	331	18	5.4	1694	62	3.7	1416	78	5.5	2120	308	14.5
Butler	173	43	24.9	343	31	9.0	1398	96	6.9	1414	133	9.4	1685	305	18.1
Calhoun	118	31	26.3	256	18	7.0	1098	51	4.6	1053	84	8.0	1437	250	17.4
Carroll	224	69	30.8	517	29	5.6	2275	113	5.0	1804	122	6.8	2521	359	14.2
Cass	118	39	33.1	348	32	9.2	1375	72	5.2	1436	117	8.1	1795	217	12.1
Cedar	186	46	24.7	519	45	8.7	1926	140	7.3	1690	143	8.5	1825	385	21.1
Cerro Gordo	509	109	21.4	1283	183	14.3	4838	574	11.9	4217	759	18.0	5457	1592	29.2
Cherokee	122	33	27.0	277	20	7.2	1408	68	4.8	1295	57	4.4	1659	202	12.2
Chickasaw	246	102	41.5	460	46	10.0	1623	174	10.7	1517	212	14.0	1774	496	28.0
Clarke	146	78	53.4	349	101	28.9	1033	225	21.8	936	222	23.7	1083	388	35.8
Clay	188	64	34.0	472	27	5.7	2014	69	3.4	1554	78	5.0	1906	252	13.2
Clayton	190	70	36.8	498	48	9.6	1994	118	5.9	1817	152	8.4	2317	380	16.4
Clinton	457	108	23.6	1201	95	7.9	4637	317	6.8	4578	432	9.4	5203	1077	20.7
Crawford	156	66	42.3	400	29	7.2	1518	57	3.8	1522	84	5.5	1795	255	14.2
Dallas	474	153	32.3	1587	229	14.4	4881	727	14.9	3621	779	21.5	3147	1010	32.1
Davis	124	40	32.3	232	25	10.8	834	79	9.5	849	95	11.2	945	198	21.0
Decatur	124	30	24.2	232	18	7.8	805	63	7.8	820	72	8.8	1037	160	15.4
Delaware	228	72	31.6	550	55	10.0	2023	134	6.6	1626	168	10.3	1776	374	21.1
Des Moines	439	112	25.5	969	137	14.1	3820	526	13.8	3966	666	16.8	4381	1017	23.2
Dickinson	170	59	34.7	373	28	7.5	1705	117	6.9	1696	190	11.2	2193	482	22.0
Dubuque	907	186	20.5	2273	240	10.6	8438	714	8.5	7995	871	10.9	8177	1825	22.3
Emmet	142	19	13.4	226	26	11.5	982	44	4.5	915	79	8.6	1278	158	12.4
Fayette	244	81	33.2	584	49	8.4	2303	178	7.7	2116	241	11.4	2674	592	22.1
Floyd	254	59	23.2	423	36	8.5	1631	138	8.5	1749	210	12.0	2049	573	28.0
Franklin	126	38	30.2	259	31	12.0	1061	60	5.7	1058	109	10.3	1392	235	16.9
Fremont	79	20	25.3	148	13	8.8	708	31	4.4	744	52	7.0	974	121	12.4
Greene	99	38	38.4	271	26	9.6	1106	51	4.6	1018	63	6.2	1443	222	15.4
Grundy	166	43	25.9	380	40	10.5	1392	104	7.5	1369	144	10.5	1484	287	19.3
Guthrie	153	61	39.9	304	30	9.9	1204	96	8.0	1187	135	11.4	1519	297	19.6
Hamilton	205	37	18.0	438	23	5.3	1737	132	7.6	1575	138	8.8	1846	337	18.3
Hancock	153	46	30.1	254	23	9.1	1291	60	4.6	1120	80	7.1	1372	239	17.4
Hardin	231	74	32.0	446	46	10.3	1883	135	7.2	1751	199	11.4	2528	590	23.3
Harrison	135	34	25.2	339	20	5.9	1286	61	4.7	1211	83	6.9	1480	115	7.8
Henry	312	133	42.6	638	84	13.2	2215	254	11.5	1922	295	15.3	2085	513	24.6
Howard	107	29	27.1	231	12	5.2	1046	47	4.5	956	71	7.4	1414	212	15.0
Humboldt	103	32	31.1	218	26	11.9	1124	90	8.0	1027	103	10.0	1408	236	16.8
Ida	112	29	25.9	257	27	10.5	956	62	6.5	769	56	7.3	1093	150	13.7
Iowa	185	55	29.7	532	62	11.7	1966	157	8.0	1494	170	11.4	1703	308	18.1
Jackson	199	70	35.2	484	65	13.4	1944	227	11.7	1847	237	12.8	2165	572	26.4
Jasper	496	107	21.6	1312	164	12.5	4280	433	10.1	3778	491	13.0	4074	1044	25.6



Table 3. Number of Votes Cast and Percent Cast by Absentee Ballot by Age Categories in Iowa's Counties in the November Election of 1998 (continued).

County	18-24			25-34			35-49			50-64			65 or Older		
	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes
Jefferson	240	96	40.0	424	46	10.8	2246	289	12.9	1854	296	16.0	1576	466	29.6
Johnson	2371	729	30.7	5419	1269	23.4	12189	2839	23.3	8247	2575	31.2	5576	2120	38.0
Jones	237	62	26.2	579	51	8.8	2088	138	6.6	1935	184	9.5	2164	356	16.5
Keokuk	144	56	38.9	310	31	10.0	1143	68	5.9	1042	87	8.3	1459	227	15.6
Kossuth	164	73	44.5	455	45	9.9	2082	134	6.4	1861	196	10.5	2267	454	20.0
Lee	371	156	42.0	829	208	25.1	3377	695	20.6	3392	713	21.0	3731	1129	30.3
Linn	2336	424	18.2	7098	811	11.4	22022	2560	11.6	18277	3177	17.4	15640	4610	29.5
Louisa	133	36	27.1	297	33	11.1	1035	65	6.3	919	102	11.1	1060	186	17.5
Lucas	97	20	20.6	232	30	12.9	797	80	10.0	856	138	16.1	1138	284	25.0
Lyon	209	92	44.0	376	55	14.6	1201	116	9.7	1001	90	9.0	1304	180	13.8
Madison	191	48	25.1	509	32	6.3	1806	129	7.1	1395	132	9.5	1461	327	22.4
Mahaska	237	89	37.6	641	108	16.8	2074	327	15.8	1838	334	18.2	2297	709	30.9
Marion	449	144	32.1	975	190	19.5	3167	576	18.2	2764	510	18.5	2958	914	30.9
Marshall	478	134	28.0	1117	176	15.8	4261	675	15.8	4103	906	22.1	4245	1405	33.1
Mills	118	37	31.4	278	31	11.2	1241	112	9.0	1173	112	9.5	1037	159	15.3
Mitchell	148	66	44.6	310	33	10.6	1175	85	7.2	1075	85	7.9	1639	328	20.0
Monona	107	35	32.7	235	19	8.1	968	41	4.2	951	54	5.7	1434	177	12.3
Monroe	128	36	28.1	257	29	11.3	774	88	11.4	744	79	10.6	976	220	22.5
Montgomery	112	36	32.1	288	18	6.3	1116	64	5.7	1087	97	8.9	1509	267	17.7
Muscatine	337	97	28.8	851	101	11.9	3342	378	11.3	3166	431	13.6	3060	754	24.6
O'Brien	156	44	28.2	344	35	10.2	1393	79	5.7	1162	81	7.0	1785	229	12.8
Osceola	68	15	22.1	149	9	6.0	674	39	5.8	576	29	5.0	786	96	12.2
Page	150	55	36.7	323	22	6.8	1477	78	5.3	1466	125	8.5	2042	321	15.7
Palo Alto	119	41	34.5	264	18	6.8	1033	37	3.6	991	66	6.7	1427	219	15.3
Plymouth	193	65	33.7	496	38	7.7	2240	137	6.1	1837	136	7.4	2287	303	13.2
Pocahontas	71	16	22.5	164	17	10.4	823	36	4.4	811	53	6.5	1133	158	13.9
Polk	4606	932	20.2	16688	2082	12.5	43786	4937	11.3	33294	5276	15.8	27683	7423	26.8
Pottawattamie	680	156	22.9	1628	201	12.3	6394	593	9.3	6075	692	11.4	6811	1361	20.0
Poweshiek	388	225	58.0	532	34	6.4	1868	115	6.2	1695	144	8.5	2006	348	17.3
Ringgold	95	29	30.5	160	25	15.6	595	58	9.7	570	79	13.9	904	172	19.0
Sac	123	45	36.6	287	22	7.7	1105	47	4.3	1023	67	6.5	1594	226	14.2
Scott	1416	292	20.6	4351	347	8.0	15860	1303	8.2	14166	1542	10.9	11896	2684	22.6
Shelby	107	0	0.0	271	0	0.0	1311	0	0.0	1152	0	0.0	1746	0	0.0
Sioux	550	122	22.2	943	82	8.7	3119	152	4.9	2490	155	6.2	2988	377	12.6
Story	2036	291	14.3	3060	354	11.6	7962	897	11.3	6183	975	15.8	5325	1546	29.0
Tama	199	45	22.6	500	36	7.2	1836	103	5.6	1725	165	9.6	2177	339	15.6
Taylor	68	15	22.1	163	17	10.4	635	38	6.0	647	57	8.8	1002	143	14.3
Union	166	67	40.4	365	63	17.3	1357	233	17.2	1290	212	16.4	1618	553	34.2
Van Buren	111	31	27.9	230	17	7.4	833	41	4.9	769	79	10.3	983	148	15.1
Wapello	414	139	33.6	981	234	23.9	3394	520	15.3	3161	513	16.2	4058	1064	26.2
Warren	665	203	30.5	1526	220	14.4	5134	562	10.9	4144	564	13.6	3065	851	27.8
Washington	248	71	28.6	692	100	14.5	2156	233	10.8	1800	214	11.9	2107	563	26.7
Wayne	65	24	36.9	156	12	7.7	638	38	6.0	611	40	6.5	1040	163	15.7
Webster	369	81	22.0	959	75	7.8	3700	228	6.2	3323	340	10.2	4471	1016	22.7
Winnebago	133	34	25.6	261	18	6.9	1221	60	4.9	1044	58	5.6	1528	180	11.8
Winneshiek	253	66	26.1	496	48	9.7	2063	169	8.2	1845	189	10.2	2171	362	16.7
Woodbury	763	152	19.9	2164	217	10.0	8242	646	7.8	7206	815	11.3	8341	1705	20.4
Worth	104	14	13.5	259	13	5.0	981	52	5.3	854	65	7.6	1067	162	15.2
Wright	126	28	22.2	290	12	4.1	1316	72	5.5	1217	117	9.6	1865	299	16.0
State of Iowa	35331	8968	25.4	88604	10641	12.0	299203	29979	10.0	260161	34451	13.2	277956	62600	22.5

Table 4. Percent of Votes Cast by Absentee Ballot by Age Categories in Iowa's Counties in the November Elections of 1988-1998.

County	1998					1996					1994					1992					1990					1988				
	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+
Adair	37.6	7.8	6.0	8.2	19.2	36.9	6.4	5.5	6.3	17.4	32.5	5.3	4.9	8.1	16.4	32.5	5.1	4.6	4.5	13.5	33.3	3.0	4.0	4.5	13.8	25.6	5.6	2.3	4.0	8.6
Adams	51.9	17.5	4.5	6.5	10.0	45.3	13.8	6.6	7.3	16.4	33.0	8.1	4.9	5.7	13.9	34.9	5.4	4.7	6.4	14.2	35.8	5.0	6.0	5.1	10.3	45.1	4.4	2.3	3.7	5.8
Allamakee	31.3	13.6	8.4	13.1	19.0	36.5	12.0	6.8	8.9	19.9	40.9	10.3	6.7	7.7	17.1	36.5	8.0	5.0	6.3	16.6	36.5	4.3	4.1	5.3	13.9	41.2	7.9	3.3	3.5	7.8
Appanoose	29.4	15.4	10.3	14.4	25.4	24.7	11.8	9.8	13.6	26.7	25.3	10.0	8.4	9.2	21.8	24.1	8.6	5.8	9.4	22.9	23.2	7.6	5.4	8.4	19.6	24.8	8.6	4.7	6.5	15.3
Audubon	38.0	5.9	6.4	9.2	16.4	39.7	8.6	8.6	9.5	21.0	38.4	7.0	6.2	7.3	14.1	43.7	6.5	5.5	6.1	15.3	50.8	7.1	5.8	6.7	15.6	54.2	7.9	4.2	3.9	8.0
Benton	22.0	10.9	8.5	10.5	17.4	25.5	10.5	7.0	9.5	18.5	22.5	7.3	4.6	5.9	11.1	22.2	5.6	3.4	5.4	12.4	21.7	2.7	2.5	3.8	8.5	26.3	6.2	2.1	2.7	6.7
Black Hawk	14.4	9.3	8.8	12.7	25.1	13.4	8.3	7.6	12.4	27.0	9.9	6.0	5.0	9.7	20.3	8.2	5.8	4.6	8.4	19.2	10.6	4.6	3.8	7.3	18.3	10.7	6.3	3.0	4.8	14.0
Boone	16.7	7.8	7.4	10.4	20.9	17.1	12.3	10.4	14.0	28.8	17.4	8.7	7.6	10.5	23.4	15.7	6.1	5.3	7.0	21.3	15.2	4.8	5.0	5.2	19.5	20.2	6.3	5.0	3.7	12.7
Bremer	19.3	9.6	7.3	8.9	18.2	17.0	10.9	6.7	7.6	19.2	18.9	6.9	4.6	5.8	15.1	11.9	6.8	4.2	5.0	13.6	7.5	2.1	2.6	3.1	11.3	14.4	6.0	1.9	3.1	8.2
Buchanan	23.3	8.6	7.5	9.9	22.2	22.4	9.7	7.0	10.8	21.8	24.2	5.5	4.6	7.0	14.8	23.4	6.9	3.7	7.0	15.7	21.9	3.3	2.3	4.8	11.4	26.7	5.2	1.6	3.3	9.7
Buena Vista	22.0	5.4	3.7	5.5	14.5	39.9	9.1	5.6	7.4	21.5	28.6	5.4	4.6	7.7	17.9	28.6	5.7	2.9	5.9	17.6	27.0	5.6	3.7	6.6	15.4	24.7	7.8	2.7	4.1	12.6
Butler	24.9	9.0	6.9	9.4	18.1	29.8	8.3	6.3	8.2	21.5	34.1	5.2	4.1	8.0	14.8	30.9	4.0	2.8	5.4	12.5	27.5	3.9	3.4	5.7	13.9	30.1	7.0	1.7	2.5	7.4
Calhoun	26.3	7.0	4.6	8.0	17.4	34.1	6.3	4.9	8.6	22.8	31.7	5.3	4.2	7.0	16.3	28.5	7.9	4.7	7.3	18.1	3.8	0.6	0.8	0.9	0.5	42.3	10.9	3.7	5.4	11.0
Carroll	30.8	5.6	5.0	6.8	14.2	37.5	5.8	6.3	7.8	20.9	28.0	6.4	4.3	6.2	14.5	33.0	6.9	4.8	6.5	15.8	0.0	0.0	0.0	0.0	0.0	37.1	6.4	2.7	3.2	9.1
Cass	33.1	9.2	5.2	8.1	12.1	31.5	10.2	7.1	10.3	17.3	29.8	6.9	5.3	10.2	15.2	32.3	6.5	3.9	7.5	13.5	40.2	6.3	4.9	6.5	15.6	39.7	7.8	2.9	3.4	9.4
Cedar	24.7	8.7	7.3	8.5	21.1	27.9	9.0	7.5	8.7	19.0	11.2	7.3	7.9	6.8	14.4	19.5	5.3	4.2	6.2	17.4	31.3	6.5	5.5	6.8	13.4	28.7	5.7	2.7	3.4	11.4
Cerro Gordo	21.4	14.3	11.9	18.0	29.2	22.4	11.0	11.0	16.0	32.8	27.5	9.3	8.2	11.8	24.6	21.2	6.3	6.4	10.4	22.5	21.7	5.6	4.9	6.7	17.0	15.5	5.2	3.6	5.3	12.2
Cherokee	27.0	7.2	4.8	4.4	12.2	29.8	9.3	4.5	6.1	16.9	28.2	5.4	3.8	6.0	16.6	32.3	6.9	4.4	6.7	16.9	41.6	6.3	2.5	4.8	15.1	50.3	10.0	3.2	3.7	10.3
Chickasaw	41.5	10.0	10.7	14.0	28.0	41.8	10.5	8.7	11.7	25.2	59.8	14.9	10.0	11.7	22.7	39.2	7.7	5.6	6.8	21.6	43.2	5.0	5.6	6.3	21.9	43.2	9.6	3.1	4.4	14.4
Clarke	53.4	28.9	21.8	23.7	35.8	35.2	16.2	16.6	19.9	32.8	32.8	9.8	11.0	15.3	26.6	26.7	8.3	8.3	11.2	26.8	39.1	6.3	5.2	8.3	22.2	43.8	7.7	4.2	6.2	17.7
Clay	34.0	5.7	3.4	5.0	13.2	38.8	5.5	5.3	7.2	18.3	45.8	5.9	3.7	7.0	14.9	26.4	5.8	3.2	5.4	15.6	29.9	4.6	3.0	5.7	13.9	33.0	8.9	3.3	4.3	9.3
Clayton	36.8	9.6	5.9	8.4	16.4	34.0	7.5	4.4	8.3	17.8	32.5	6.1	2.8	5.7	14.8	30.9	5.8	3.5	5.2	15.1	28.4	3.5	2.3	4.6	14.4	40.3	6.1	2.0	4.3	9.4
Clinton	23.6	7.9	6.8	9.4	20.7	20.5	8.5	6.5	9.9	21.8	27.5	8.0	5.2	7.4	19.5	22.4	6.3	4.6	6.9	21.0	21.6	4.3	3.5	5.5	15.8	28.4	8.3	3.3	4.1	11.2
Crawford	42.3	7.2	3.8	5.5	14.2	30.6	7.1	5.5	7.4	15.8	31.4	5.3	3.0	5.0	13.1	34.2	5.2	3.7	4.4	13.0	28.2	2.7	2.7	3.7	10.6	24.0	6.6	2.2	2.6	5.4
Dallas	32.3	14.4	14.9	21.5	32.1	28.6	12.4	12.7	15.5	28.0	27.2	9.4	9.1	12.1	20.3	20.3	6.4	5.7	9.0	20.2	19.5	6.0	5.5	7.9	17.9	18.9	5.7	3.9	5.3	11.7
Davis	32.3	10.8	9.5	11.2	21.0	32.2	11.9	10.5	13.1	22.8	36.3	11.3	7.3	9.1	17.8	28.9	9.8	4.8	10.0	18.4	25.5	5.0	5.4	7.3	17.3	25.2	6.4	4.8	6.4	12.3
Decatur	24.2	7.8	7.8	8.8	15.4	18.6	9.7	8.3	10.0	19.8	22.5	4.8	6.7	6.8	14.5	13.8	6.1	6.5	6.5	17.1	26.8	3.0	4.6	4.7	12.0	12.8	7.4	2.1	3.6	8.9
Delaware	31.6	10.0	6.6	10.3	21.1	31.7	9.6	5.5	10.1	21.7	33.7	8.6	5.8	9.3	19.7	25.8	6.0	4.0	6.5	17.6	30.4	5.3	5.0	7.6	15.7	26.9	7.2	2.7	3.7	12.2
Des Moines	25.5	14.1	13.8	16.8	23.2	23.5	8.9	10.0	14.3	26.0	19.9	7.1	7.2	11.3	17.7	20.1	7.3	6.4	10.4	21.6	22.3	9.1	6.3	8.8	18.4	19.0	6.7	2.7	3.8	10.0
Dickinson	34.7	7.5	6.9	11.2	22.0	32.8	12.5	7.0	13.5	28.0	35.6	10.5	6.8	12.1	23.6	33.3	8.8	6.1	10.0	24.4	32.4	5.3	4.6	10.8	20.2	45.9	7.6	4.4	8.6	16.4
Dubuque	20.5	10.6	8.5	10.9	22.3	25.6	10.1	8.9	12.1	28.5	24.3	6.9	5.6	7.9	19.7	19.0	5.0	4.8	7.4	23.2	19.7	5.2	4.3	6.6	18.1	16.9	4.5	2.5	3.1	8.4
Emmet	13.4	11.5	4.5	8.6	12.4	19.3	7.1	4.8	7.7	17.5	18.8	4.9	3.7	7.3	16.1	24.0	7.7	3.8	8.2	18.3	28.9	5.1	3.7	4.6	15.0	29.7	11.4	3.6	4.3	12.7
Fayette	33.2	8.4	7.7	11.4	22.1	29.5	8.5	6.8	11.6	26.5	34.7	6.2	5.9	7.7	18.6	26.2	6.9	4.6	6.0	20.0	32.9	4.9	4.1	5.8	17.9	33.7	7.9	3.3	3.7	12.9

Table 4. Percent of Votes Cast by Absentee Ballot by Age Categories in Iowa's Counties in the November Elections of 1988-1998 (continued).

County	1998					1996					1994					1992					1990					1988				
	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+
Floyd	23.2	8.5	8.5	12.0	28.0	24.1	6.7	7.2	10.8	26.1	29.1	11.3	7.6	10.5	23.4	30.9	6.2	4.1	7.3	18.1	20.1	3.8	2.9	4.4	14.6	24.4	8.7	2.5	4.0	9.9
Franklin	30.2	12.0	5.7	10.3	16.9	42.1	10.2	5.8	10.8	17.8	36.8	8.5	2.8	5.9	13.3	34.9	3.8	3.5	5.1	12.9	34.1	3.2	2.8	5.1	11.7	31.3	6.2	1.9	3.5	7.8
Fremont	25.3	8.8	4.4	7.0	12.4	30.5	7.2	4.9	6.1	14.3	25.7	5.7	4.6	4.3	14.9	33.9	4.9	4.0	3.6	15.3	40.1	3.2	4.9	5.9	17.5	40.5	6.0	2.3	3.3	9.4
Greene	38.4	9.6	4.6	6.2	15.4	27.8	6.8	6.3	7.1	19.9	25.2	6.6	3.6	6.0	17.6	24.1	6.5	3.9	5.1	16.8	21.2	2.4	1.4	2.6	6.8	40.0	6.7	1.7	3.3	7.7
Grundy	25.9	10.5	7.5	10.5	19.3	26.0	8.3	6.6	6.8	18.3	24.5	8.7	6.3	7.0	15.8	27.1	5.9	4.8	5.1	13.2	29.8	4.3	3.2	4.5	12.6	41.4	8.6	2.4	2.6	10.8
Guthrie	39.9	9.9	8.0	11.4	19.6	33.3	8.0	6.7	10.4	20.1	27.6	6.4	4.5	7.7	18.8	31.9	5.6	2.9	8.4	16.4	29.3	3.0	2.1	7.0	17.2	35.4	8.5	2.6	4.4	10.3
Hamilton	18.0	5.3	7.6	8.8	18.3	28.2	10.0	8.7	12.7	26.0	32.0	13.2	8.8	11.2	24.7	24.4	8.4	8.7	12.5	27.2	23.3	4.3	3.1	5.6	18.2	23.6	6.2	2.2	3.9	11.7
Hancock	30.1	9.1	4.6	7.1	17.4	31.8	12.2	3.8	6.9	17.8	42.3	5.3	3.3	6.2	17.2	39.5	5.9	4.0	4.9	12.8	25.6	3.7	2.8	4.5	11.0	30.4	4.5	2.2	3.7	9.8
Hardin	32.0	10.3	7.2	11.4	23.3	25.7	10.1	7.7	11.2	27.7	27.3	8.0	5.9	8.4	20.9	27.3	6.0	4.8	8.0	22.2	54.7	3.4	3.8	6.6	20.7	21.2	7.3	3.4	4.9	14.0
Harrison	25.2	5.9	4.7	6.9	7.8	23.8	5.6	4.7	8.2	14.0	25.1	5.1	4.0	5.6	11.2	24.8	5.6	2.3	4.9	10.8	31.7	2.7	2.6	4.0	10.2	29.7	6.9	2.3	2.7	8.0
Henry	42.6	13.2	11.5	15.3	24.6	33.0	11.5	12.2	15.0	27.3	47.1	15.4	11.8	12.9	24.0	27.6	6.8	6.3	5.5	16.7	25.4	4.2	4.4	5.5	12.7	24.2	6.0	2.6	2.7	9.3
Howard	27.1	5.2	4.5	7.4	15.0	32.8	10.2	4.8	5.4	15.3	40.8	8.0	2.6	3.9	14.3	28.9	5.3	4.5	4.3	13.8	38.7	1.9	2.8	4.0	14.0	37.5	6.7	2.4	2.4	7.8
Humboldt	31.1	11.9	8.0	10.0	16.8	35.3	9.3	7.7	9.4	18.7	33.1	5.8	4.8	7.2	15.4	30.1	6.7	4.2	6.1	16.2	25.8	6.0	3.7	5.7	13.6	29.1	7.1	3.3	4.5	8.3
Ida	25.9	10.5	6.5	7.3	13.7	39.5	8.3	5.2	7.4	15.1	30.3	6.5	4.1	6.4	12.3	30.9	6.5	4.9	5.0	15.1	42.0	4.1	3.3	4.7	14.2	47.8	6.7	2.7	3.6	6.9
Iowa	29.7	11.7	8.0	11.4	18.1	30.6	10.1	6.6	11.0	20.4	24.7	5.2	4.3	7.1	15.7	25.3	4.9	4.1	6.3	15.2	22.5	3.9	2.6	5.8	12.5	29.1	6.8	1.9	3.3	8.6
Jackson	35.2	13.4	11.7	12.8	26.4	37.7	16.5	9.0	11.0	23.4	34.2	7.2	4.0	6.9	17.0	26.5	5.8	4.0	5.7	15.6	22.0	3.5	2.7	4.9	12.9	23.3	5.6	2.2	2.7	8.7
Jasper	21.6	12.5	10.1	13.0	25.6	23.7	7.6	8.5	11.9	27.0	29.5	8.7	7.0	9.7	23.0	26.9	5.7	5.0	8.6	21.3	16.5	4.2	4.0	6.2	16.9	17.7	4.1	2.4	3.5	10.2
Jefferson	40.0	10.8	12.9	16.0	29.6	26.1	7.5	12.6	14.3	24.5	32.9	4.2	6.7	8.7	15.9	23.0	5.8	6.9	6.9	17.1	25.0	4.5	6.4	6.1	13.6	23.4	6.5	4.0	4.4	8.0
Johnson	30.7	23.4	23.3	31.2	38.0	27.8	27.0	26.4	34.4	43.8	20.1	20.4	22.2	25.9	33.7	11.2	14.2	16.5	18.8	34.5	9.9	8.7	7.0	10.1	24.1	4.8	4.2	3.6	5.8	14.5
Jones	26.2	8.8	6.6	9.5	16.5	26.0	8.7	5.9	9.5	18.6	28.6	7.5	4.9	6.5	14.2	26.6	4.7	3.8	5.0	14.7	27.4	6.1	3.7	3.6	12.1	31.9	7.0	2.3	2.1	7.0
Keokuk	38.9	10.0	5.9	8.3	15.6	35.5	15.8	7.3	11.1	21.7	36.1	11.8	7.5	9.5	20.2	38.0	6.3	4.9	6.8	14.9	38.1	7.0	4.0	6.4	13.5	34.9	10.5	3.1	5.4	9.6
Kossuth	44.5	9.9	6.4	10.5	20.0	45.8	12.7	6.0	9.9	20.5	47.4	6.2	4.3	7.1	16.4	42.3	5.9	3.5	6.1	17.7	36.8	5.2	3.2	5.6	13.9	40.9	7.6	2.2	4.5	9.4
Lee	42.0	25.1	20.6	21.0	30.3	31.3	16.2	14.8	16.1	28.9	30.1	12.3	11.1	12.8	22.4	24.2	7.8	6.5	8.6	19.3	28.6	10.1	5.6	6.6	17.4	25.1	10.4	5.3	5.4	14.0
Linn	18.2	11.4	11.6	17.4	29.5	25.5	12.3	11.2	17.2	31.5	18.4	7.7	7.5	11.3	21.8	14.9	5.4	5.4	9.0	22.1	17.7	5.9	4.9	6.9	18.7	18.2	5.7	3.3	5.1	12.6
Louisa	27.1	11.1	6.3	11.1	17.5	20.3	5.1	4.3	6.6	13.8	31.9	6.5	6.7	6.5	18.1	17.9	3.3	3.9	6.2	16.4	24.5	3.6	3.9	5.4	15.6	22.9	5.5	2.6	3.0	9.9
Lucas	20.6	12.9	10.0	16.1	25.0	34.5	11.3	10.5	14.7	25.2	31.7	10.1	7.7	12.2	18.8	31.1	8.6	7.9	11.3	20.8	34.5	7.2	5.8	8.0	16.3	41.0	6.5	4.5	5.6	13.3
Lyon	44.0	14.6	9.7	9.0	13.8	21.6	7.5	5.4	5.8	11.8	15.2	6.8	4.0	5.5	11.9	24.5	3.6	2.3	3.5	9.9	22.3	4.4	2.2	4.6	11.0	28.9	3.6	2.1	2.2	8.1
Madison	25.1	6.3	7.1	9.5	22.4	27.7	11.0	9.5	10.7	27.6	28.5	7.6	5.5	8.8	22.9	19.0	4.9	5.2	7.1	21.3	23.5	5.0	3.3	4.8	17.7	32.7	8.7	2.3	3.7	11.6
Mahaska	37.6	16.8	15.8	18.2	30.9	33.3	16.4	17.3	22.1	37.9	32.9	8.3	7.8	9.1	23.0	23.5	4.8	4.2	6.8	17.6	22.8	4.6	3.9	5.5	14.4	17.1	4.1	2.2	3.7	8.5
Marion	32.1	19.5	18.2	18.5	30.9	35.8	15.1	17.4	20.2	34.7	25.6	10.1	7.4	11.5	22.1	20.6	6.0	5.1	8.4	19.9	18.2	4.7	3.7	5.9	14.9	11.5	4.0	2.0	4.5	9.6
Marshall	28.0	15.8	15.8	22.1	33.1	33.3	18.0	21.0	27.5	42.5	34.8	13.3	16.4	20.8	35.3	27.5	11.0	11.5	15.3	29.8	24.0	8.4	8.1	9.6	20.0	19.4	7.0	3.9	4.6	13.4
Mills	31.4	11.2	9.0	9.5	15.3	26.4	9.8	8.5	10.4	18.8	32.3	10.7	7.6	9.8	16.8	24.2	6.2	4.4	7.1	16.3	29.9	5.1	3.8	6.2	12.4	31.5	7.1	4.3	3.8	10.0
Mitchell	44.6	10.6	7.2	7.9	20.0	39.1	7.6	4.7	7.7	17.8	27.2	3.9	4.7	8.1	17.6	40.4	6.0	3.2	6.3	17.4	37.0	3.0	2.6	3.2	13.6	38.8	7.6	2.2	4.0	9.6

Table 4. Percent of Votes Cast by Absentee Ballot by Age Categories In Iowa's Counties in the November Elections of 1988-1998 (continued).

County	1998					1996					1994					1992					1990					1988				
	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+	18-24	25-34	35-49	50-64	65+
Monona	32.7	8.1	4.2	5.7	12.3	31.8	7.7	4.1	8.8	15.5	36.2	6.3	2.9	6.4	14.3	25.2	4.2	2.2	4.9	12.0	28.6	2.9	2.5	4.7	14.0	38.5	4.8	3.5	3.0	9.0
Monroe	28.1	11.3	11.4	10.6	22.5	33.7	9.9	11.9	11.3	26.2	32.0	12.4	11.7	11.5	25.3	23.7	9.9	8.3	9.9	27.8	27.0	8.7	5.7	6.2	19.8	25.8	11.0	4.0	5.6	11.9
Montgomery	32.1	6.3	5.7	8.9	17.7	26.9	6.4	4.4	9.0	23.1	36.6	5.3	5.0	7.9	20.3	28.3	6.0	3.8	7.2	19.2	30.9	4.0	4.0	6.6	15.2	35.0	7.1	2.7	4.2	9.8
Muscatine	28.8	11.9	11.3	13.6	24.6	24.9	8.9	9.4	13.9	28.0	25.8	8.6	8.0	11.1	19.9	17.2	6.8	5.4	8.9	17.1	25.1	8.1	5.3	7.4	17.3	19.6	4.1	2.4	3.3	9.0
O'Brien	28.2	10.2	5.7	7.0	12.8	23.4	5.3	5.2	7.1	14.8	24.9	4.5	3.7	3.8	12.9	20.6	3.6	3.6	5.2	15.4	14.0	2.7	3.3	4.5	11.8	24.8	4.0	2.8	2.3	9.0
Osceola	22.1	6.0	5.8	5.0	12.2	32.9	6.6	4.4	5.7	14.1	26.1	5.6	4.2	4.4	12.2	22.9	5.2	3.9	5.0	13.8	26.9	2.5	3.3	3.5	9.6	28.0	4.8	2.7	2.8	9.2
Page	36.7	6.8	5.3	8.5	15.7	30.9	8.6	5.5	8.7	18.5	36.6	6.6	3.5	7.3	14.2	33.3	5.1	3.8	5.1	13.7	31.6	3.3	3.7	4.7	11.8	35.7	6.9	2.7	3.1	7.9
Palo Alto	34.5	6.8	3.6	6.7	15.3	36.3	6.5	5.8	8.1	20.1	30.4	4.7	3.7	5.7	14.9	33.6	7.3	4.1	6.6	16.8	31.6	5.4	2.7	4.9	15.5	43.8	13.8	4.1	6.6	12.4
Plymouth	33.7	7.7	6.1	7.4	13.2	26.4	7.3	5.0	6.7	14.3	26.2	6.2	3.6	6.1	11.7	26.7	5.9	3.6	4.8	11.1	21.0	4.0	2.3	4.0	11.5	23.5	6.7	2.0	3.1	7.2
Pocahontas	22.5	10.4	4.4	6.5	13.9	37.6	5.7	4.9	6.9	21.6	31.0	7.3	3.0	5.2	17.2	37.1	7.5	3.2	6.6	18.5	33.9	3.0	1.8	4.6	14.9	31.7	9.0	2.5	3.5	11.2
Polk	20.2	12.5	11.3	15.8	26.8	20.6	11.3	12.8	19.2	34.0	19.6	11.9	12.6	18.3	30.7	11.9	5.4	5.8	9.6	22.9	19.0	8.9	7.4	10.6	23.6	13.4	4.4	3.2	4.8	13.5
Pottawattamie	22.9	12.3	9.3	11.4	20.0	17.7	8.5	7.7	10.7	21.1	0.0	0.0	0.0	0.0	3.0	1.4	0.2	0.1	0.0	24.9	7.8	5.2	7.5	17.2	24.6	6.6	3.4	3.9	9.9	
Poweshiek	58.0	6.4	6.2	8.5	17.3	37.8	7.5	6.5	9.1	20.9	37.1	6.8	6.3	6.3	17.3	21.1	6.4	5.0	5.7	18.1	17.0	6.1	5.6	5.9	15.9	14.0	7.1	3.7	3.2	10.0
Ringgold	30.5	15.6	9.7	13.9	19.0	34.0	12.0	9.6	14.2	22.5	29.8	7.1	7.2	10.5	16.9	41.2	8.0	4.3	10.2	17.2	37.9	5.6	3.3	8.7	15.5	37.5	10.5	2.6	6.1	9.0
Sac	36.6	7.7	4.3	6.5	14.2	32.4	6.4	4.5	6.6	14.1	35.5	8.0	2.5	6.5	11.8	28.9	4.9	2.9	5.4	9.4	33.3	3.7	2.2	5.0	12.5	33.9	5.9	2.0	2.5	8.2
Scott	20.6	8.0	8.2	10.9	22.6	21.1	10.4	9.2	13.6	26.4	21.5	8.1	6.2	10.1	21.2	17.9	5.7	4.7	8.0	18.7	2.0	0.8	0.7	1.0	2.1	20.3	5.9	3.3	4.8	12.3
Shelby	0.0	0.0	0.0	0.0	0.0	34.6	7.6	6.0	7.1	14.3	36.1	5.7	6.1	6.3	11.6	37.4	5.6	4.4	5.2	13.5	20.1	2.6	2.6	3.5	9.7	44.2	7.4	2.2	2.7	6.9
Sioux	22.2	8.7	4.9	6.2	12.6	15.6	7.9	4.5	5.3	13.3	16.2	6.4	3.4	5.9	10.9	11.1	4.3	3.0	3.9	10.1	17.7	3.5	3.0	3.8	9.3	9.9	3.9	3.0	2.6	6.3
Story	14.3	11.6	11.3	15.8	29.0	9.1	12.5	16.2	22.3	37.9	10.0	8.9	9.8	15.3	27.5	6.0	6.5	5.7	9.8	21.2	5.6	5.6	4.9	6.4	15.2	3.4	4.2	3.3	4.4	10.1
Tama	22.6	7.2	5.6	9.6	15.6	26.5	8.6	5.8	8.8	17.7	28.8	6.9	5.2	6.8	15.9	28.4	4.9	3.6	5.6	13.9	22.6	4.9	4.0	4.5	11.9	34.5	7.3	2.6	3.4	8.9
Taylor	22.1	10.4	6.0	8.8	14.3	36.4	11.4	8.0	10.6	20.0	33.3	5.4	4.8	6.9	12.8	30.0	8.2	6.0	6.8	14.2	32.6	7.8	6.9	8.2	15.3	28.8	4.3	4.1	3.7	8.2
Union	40.4	17.3	17.2	16.4	34.2	35.8	14.6	13.3	17.1	36.3	47.3	22.1	14.4	20.8	39.2	28.1	9.7	6.8	10.2	29.7	30.6	8.1	6.6	9.6	27.6	28.6	10.9	5.2	6.2	20.1
Van Buren	27.9	7.4	4.9	10.3	15.1	29.0	9.1	5.7	9.7	13.8	30.2	6.4	4.9	7.7	12.9	27.7	6.6	4.8	6.3	13.2	24.1	10.6	5.0	4.9	14.1	38.2	6.8	2.7	2.4	7.0
Wapello	33.6	23.9	15.3	16.2	26.2	24.1	10.4	11.7	13.9	29.0	27.6	10.2	8.9	10.3	22.6	32.9	13.8	9.6	11.4	22.4	18.7	7.8	5.8	7.7	15.5	16.0	7.6	3.4	4.6	9.4
Warren	30.5	14.4	10.9	13.6	27.8	26.1	11.8	11.4	13.1	31.8	23.4	9.3	8.1	10.1	26.4	19.7	5.0	4.2	7.2	21.6	21.6	3.9	4.8	5.7	18.3	18.0	4.6	2.7	3.7	12.2
Washington	28.6	14.5	10.8	11.9	26.7	26.6	8.2	8.6	10.6	24.2	43.5	12.8	9.0	11.2	21.3	28.4	4.6	4.0	5.5	18.6	25.5	4.3	4.5	5.0	15.3	25.0	5.5	3.2	2.9	11.3
Wayne	36.9	7.7	6.0	6.5	15.7	28.3	7.0	6.7	8.2	18.2	30.2	4.3	6.2	8.3	15.6	34.7	5.2	4.7	5.8	15.0	21.4	4.6	3.7	3.9	13.3	33.8	8.5	4.2	4.6	10.3
Webster	22.0	7.8	6.2	10.2	22.7	23.2	8.4	7.6	11.6	29.3	22.7	6.0	5.9	7.5	21.5	20.2	5.8	5.3	8.3	22.7	22.4	4.4	3.9	6.1	16.6	19.9	6.9	3.3	4.0	12.4
Winnebago	25.6	6.9	4.9	5.6	11.8	23.5	6.6	4.5	5.3	17.3	23.9	4.4	3.0	4.4	16.1	24.2	4.3	2.6	3.9	15.0	29.1	3.4	2.1	4.4	13.1	30.5	6.4	2.0	3.9	9.9
Winneshiek	26.1	9.7	8.2	10.2	16.7	41.1	10.4	5.2	7.9	15.6	25.0	4.8	3.9	6.1	12.2	16.0	5.6	3.6	5.6	13.1	17.6	3.4	3.5	3.1	11.9	11.9	6.7	3.1	3.2	6.9
Woodbury	19.9	10.0	7.8	11.3	20.4	16.9	8.6	7.0	10.9	24.2	21.4	7.5	6.6	8.7	19.8	17.1	5.5	5.2	7.9	21.4	19.9	4.9	3.6	5.6	16.3	20.3	5.9	3.2	4.1	12.8
Worth	13.5	5.0	5.3	7.6	15.2	23.3	6.3	5.2	6.4	14.2	24.2	4.0	4.2	5.4	12.4	25.2	4.2	4.7	5.7	14.5	27.3	3.6	2.6	3.4	11.1	20.8	9.2	2.8	2.4	7.3
Wright	22.2	4.1	5.5	9.6	16.0	30.9	8.5	7.9	10.1	20.7	32.6	11.5	5.4	9.1	18.6	26.6	6.8	4.9	8.2	16.3	29.7	3.2	3.4	5.5	12.1	30.8	6.7	2.7	3.0	8.5
State of Iowa	25.4	12.0	10.0	13.2	22.5	24.3	11.3	10.1	13.8	25.8	23.3	9.2	7.9	10.6	20.3	17.7	6.3	5.4	7.9	18.9	19.2	5.7	4.5	6.3	15.8	18.2	5.9	3.1	4.2	11.0

### **Voting by Absentee Ballot by Age and Sex in 1998**

Residents 24 or younger and 65 or older used absentee ballots more than did those in the three other age groups. And females were more likely to cast absentee ballots than males. Based on these results, it would be expected that females at both ends of the age continuum would more likely vote absentee than other combinations of age categories and sex. And that is what occurred in 1998 (Tables 7 and 8). Among females, 25.5 percent of the oldest and 26.8 percent of the youngest age categories voted by absentee means. At least 1 of every 2 votes were cast by absentee ballot among females 18-24 years of age in Adams, Audubon, Clarke, Mitchell, and Poweshiek. The difference in percentage between females (25.5%) and males (18.7%) 65 or older casting absentee ballots was much greater than those in the younger age categories; the others each varied by less than 2 percentage points.

**Note:** See also sections on "Registration and Voting by Political Party Affiliation and by Age in Iowa's Counties: 1982-1998" in this volume and on "Voting for Selected Candidates for State and National Offices in Iowa's Counties: 1980-1998" in the 1999 edition (see pages 563-571). Those interested in additional details of voting can review reports from the office of the State (Iowa) Registrar of Voters in the capitol complex in Des Moines, IA.

Table 5. Number of Votes Cast, Number Cast by Absentee Ballot, and Percent Cast by Absentee Ballot by Sex in Iowa's Counties in the November Election of 1998.

County	Females			Males		
	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes
Adair	1852	258	13.9	1612	176	10.9
Adams	936	90	9.6	797	71	8.9
Allamakee	2500	393	15.7	2257	292	12.9
Appanoose	2239	460	20.5	1895	294	15.5
Audubon	1413	190	13.4	1267	126	9.9
Benton	4572	578	12.6	4171	487	11.7
Black Hawk	21030	3478	16.5	18216	2404	13.2
Boone	4721	668	14.1	4159	449	10.8
Bremer	4372	509	11.6	3922	447	11.4
Buchanan	3950	571	14.5	3420	397	11.6
Buena Vista	2998	282	9.4	2713	217	8.0
Butler	2633	331	12.6	2380	277	11.6
Calhoun	2142	236	11.0	1820	198	10.9
Carroll	3900	391	10.0	3441	301	8.7
Cass	2668	274	10.3	2404	203	8.4
Cedar	3237	419	12.9	2909	340	11.7
Cerro Gordo	8803	1902	21.6	7501	1315	17.5
Cherokee	2495	217	8.7	2266	163	7.2
Chickasaw	2991	588	19.7	2629	442	16.8
Clarke	1928	562	29.1	1619	452	27.9
Clay	3260	286	8.8	2874	204	7.1
Clayton	3644	431	11.8	3172	337	10.6
Clinton	8687	1238	14.3	7390	791	10.7
Crawford	2867	275	9.6	2524	216	8.6
Dallas	7246	1606	22.2	6464	1292	20.0
Davis	1585	238	15.0	1399	199	14.2
Decatur	1619	190	11.7	1399	153	10.9
Delaware	3206	446	13.9	2997	357	11.9
Des Moines	7144	1378	19.3	6431	1080	16.8
Dickinson	3236	484	15.0	2901	392	13.5
Dubuque	14628	2262	15.5	13162	1574	12.0
Emmet	1928	190	9.9	1615	136	8.4
Fayette	4281	659	15.4	3640	482	13.2
Floyd	3249	595	18.3	2857	421	14.7
Franklin	2062	269	13.0	1834	204	11.1
Fremont	1449	144	9.9	1204	93	7.7
Greene	2136	227	10.6	1801	173	9.6
Grundy	2526	344	13.6	2265	274	12.1
Guthrie	2326	337	14.5	2041	282	13.8
Hamilton	3079	372	12.1	2722	295	10.8
Hancock	2193	249	11.4	1997	199	10.0
Hardin	3728	641	17.2	3111	403	13.0
Harrison	2334	174	7.5	2117	139	6.6
Henry	3850	748	19.4	3322	531	16.0
Howard	2003	201	10.0	1751	170	9.7
Humboldt	2075	281	13.5	1805	206	11.4
Ida	1700	179	10.5	1487	145	9.8
Iowa	3085	428	13.9	2795	324	11.6
Jackson	3573	678	19.0	3066	493	16.1
Jasper	7318	1264	17.3	6622	975	14.7

Table 5. Number of Votes Cast, Number Cast by Absentee Ballot, and Percent Cast by Absentee Ballot by Sex in Iowa's Counties in the November Election of 1998 (continued).

County	Females			Males		
	Total Votes Cast	Absentee Votes	Percent Absentee Votes	Total Votes Cast	Absentee Votes	Percent Absentee Votes
Jefferson	3336	689	20.7	3004	504	16.8
Johnson	17788	5303	29.8	16014	4229	26.4
Jones	3700	436	11.8	3303	355	10.7
Keokuk	2176	273	12.5	1922	196	10.2
Kossuth	3582	499	13.9	3247	403	12.4
Lee	6307	1746	27.7	5393	1155	21.4
Linn	34340	6556	19.1	31033	5026	16.2
Louisa	1793	232	12.9	1651	190	11.5
Lucas	1674	314	18.8	1446	238	16.5
Lyon	2105	280	13.3	1986	253	12.7
Madison	2834	382	13.5	2529	286	11.3
Mahaska	3699	865	23.4	3388	702	20.7
Marion	5451	1341	24.6	4862	993	20.4
Marshall	7436	1902	25.6	6768	1394	20.6
Mills	1988	256	12.9	1859	195	10.5
Mitchell	2346	346	14.7	2001	251	12.5
Monona	1982	190	9.6	1713	136	7.9
Monroe	1528	264	17.3	1351	188	13.9
Montgomery	2206	280	12.7	1906	202	10.6
Muscatine	5677	1021	18.0	5079	740	14.6
O'Brien	2580	259	10.0	2260	209	9.2
Osceola	1206	105	8.7	1047	83	7.9
Page	2903	349	12.0	2555	252	9.9
Palo Alto	2084	237	11.4	1750	144	8.2
Plymouth	3659	376	10.3	3394	303	8.9
Pocahontas	1595	159	10.0	1407	121	8.6
Polk	68081	11796	17.3	57976	8854	15.3
Pottawattamie	11404	1739	15.2	10184	1264	12.4
Poweshiek	3481	492	14.1	3008	374	12.4
Ringgold	1257	204	16.2	1067	159	14.9
Sac	2207	234	10.6	1925	173	9.0
Scott	24986	3544	14.2	22703	2624	11.6
Shelby	2348	0	0.0	2239	0	0.0
Sioux	5265	492	9.3	4825	396	8.2
Story	12907	2330	18.1	11659	1733	14.9
Tama	3465	401	11.6	2972	287	9.7
Taylor	1374	159	11.6	1141	111	9.7
Union	2599	667	25.7	2197	461	21.0
Van Buren	1553	178	11.5	1373	138	10.1
Wapello	6490	1449	22.3	5518	1021	18.5
Warren	7667	1334	17.4	6867	1066	15.5
Washington	3714	676	18.2	3289	505	15.4
Wayne	1356	167	12.3	1154	110	9.5
Webster	6911	1041	15.1	5911	699	11.8
Winnebago	2230	192	8.6	1957	158	8.1
Winneshiek	3608	469	13.0	3220	365	11.3
Woodbury	14315	2108	14.7	12401	1427	11.5
Worth	1749	168	9.6	1516	138	9.1
Wright	2573	282	11.0	2241	246	11.0
State of Iowa	510898	83991	16.4	450360	62648	13.9

Table 6. Percent of Votes Cast by Absentee Ballot by Sex In Iowa's Counties in the November Elections of 1988-1998.

County	1998		1996		1994		1992		1990		1988	
	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males
Adair	13.9	10.9	12.1	10.2	11.8	9.2	9.9	8.2	9.6	7.0	6.4	5.4
Adams	9.6	8.9	12.5	12.2	10.2	9.0	10.9	9.5	8.6	7.0	5.1	5.2
Allamakee	15.7	12.9	14.3	12.2	12.5	11.3	11.4	10.6	9.4	8.1	6.8	6.6
Appanoose	20.5	15.5	18.1	16.1	15.4	12.7	13.8	13.2	12.8	11.0	10.4	9.5
Audubon	13.4	9.9	15.6	12.9	10.8	9.9	11.3	10.5	11.8	11.4	6.2	7.6
Benton	12.6	11.7	12.1	11.6	8.0	7.2	7.7	7.5	5.5	4.7	4.6	5.4
Black Hawk	16.5	13.2	15.1	12.8	11.6	9.4	9.7	8.4	10.1	7.3	7.3	6.7
Boone	14.1	10.8	17.7	15.3	14.4	11.9	11.2	9.7	10.7	8.1	7.7	7.6
Bremer	11.6	11.4	11.8	10.4	9.0	8.0	7.6	7.7	5.8	4.5	5.1	4.8
Buchanan	14.5	11.6	13.3	12.6	9.6	7.9	9.6	8.9	6.6	6.0	5.6	5.5
Buena Vista	9.4	8.0	14.4	13.0	11.4	9.7	10.8	8.9	10.1	8.1	8.1	7.4
Butler	12.6	11.6	13.3	11.9	10.1	8.9	8.2	7.7	9.2	6.7	5.0	5.0
Calhoun	11.0	10.9	14.2	12.7	10.4	9.7	11.8	10.3	0.6	1.0	8.1	9.4
Carroll	10.0	8.7	13.5	11.3	9.5	8.1	10.2	9.9	0.0	0.0	6.1	6.4
Cass	10.3	8.4	13.2	11.7	11.3	9.8	9.8	9.0	10.3	9.5	6.7	7.0
Cedar	12.9	11.7	12.5	11.4	9.5	9.4	9.7	8.0	9.7	8.1	6.5	6.3
Cerro Gordo	21.6	17.5	20.4	17.1	16.2	13.3	12.8	11.8	10.2	8.7	7.0	7.2
Cherokee	8.7	7.2	11.3	9.2	10.0	8.4	10.6	9.9	9.2	7.6	7.6	7.7
Chickasaw	19.7	16.8	17.0	15.2	17.2	17.5	13.6	11.7	13.6	10.6	9.7	8.1
Clarke	29.1	27.9	23.8	22.3	18.1	16.9	15.9	14.6	14.4	10.9	10.8	10.6
Clay	8.8	7.1	12.1	10.4	10.0	8.4	8.9	8.1	8.2	7.3	6.8	7.0
Clayton	11.8	10.6	11.5	10.7	9.4	8.1	9.3	9.4	8.7	6.8	6.3	6.9
Clinton	14.3	10.7	13.3	11.5	12.3	9.8	11.5	9.8	9.3	7.2	7.1	7.6
Crawford	9.6	8.6	10.5	10.1	8.2	7.2	9.1	8.0	6.6	5.4	4.6	4.6
Dallas	22.2	20.0	17.8	16.6	13.3	12.7	10.6	10.3	10.4	8.7	7.0	6.8
Davis	15.0	14.2	17.5	15.0	13.7	12.0	13.1	12.0	11.6	9.3	8.6	8.6
Decatur	11.7	10.9	13.5	12.8	10.4	9.4	10.5	9.9	8.7	6.7	6.1	5.8
Delaware	13.9	11.9	13.1	12.3	12.7	10.8	9.5	9.5	10.0	8.9	7.4	6.7
Des Moines	19.3	16.8	17.6	14.2	13.0	10.4	12.9	10.9	12.2	10.1	5.9	6.4
Dickinson	15.0	13.5	18.0	15.9	15.6	14.6	14.4	14.5	12.2	12.0	10.8	11.2
Dubuque	15.5	12.0	17.6	13.5	12.4	9.1	11.9	9.2	10.4	7.7	4.9	5.1
Emmet	9.9	8.4	11.2	10.0	10.4	8.3	11.5	10.3	9.5	7.7	8.2	8.9
Fayette	15.4	13.2	16.2	14.3	12.4	10.4	11.9	10.1	10.8	9.3	8.0	8.0
Floyd	18.3	14.7	16.2	13.3	16.0	13.4	11.7	9.9	8.9	6.6	6.9	6.3
Franklin	13.0	11.1	13.9	11.8	9.2	7.8	8.6	7.6	7.7	6.4	5.2	5.3
Fremont	9.9	7.7	11.0	8.5	9.9	7.8	10.3	8.7	12.1	8.8	7.1	6.6
Greene	10.6	9.6	13.0	10.9	10.9	8.7	10.2	9.1	4.7	3.9	5.8	6.1
Grundy	13.6	12.1	11.8	10.2	10.8	9.5	9.3	7.9	8.3	5.8	6.4	6.8
Guthrie	14.5	13.8	13.6	12.8	11.9	9.7	10.6	9.3	9.8	8.1	6.6	7.5
Hamilton	12.1	10.8	17.0	14.5	16.6	14.3	16.4	14.2	10.0	8.1	6.8	6.3
Hancock	11.4	10.0	11.7	10.4	10.9	9.2	9.3	9.4	7.2	5.8	6.5	5.7
Hardin	17.2	13.0	18.2	14.0	13.8	11.0	13.4	11.3	13.3	11.1	9.0	7.9
Harrison	7.5	6.6	9.9	8.5	8.3	6.6	7.3	6.9	7.5	5.1	5.8	5.5
Henry	19.4	16.0	19.0	17.1	19.2	15.9	10.9	9.9	8.4	7.4	5.8	5.9
Howard	10.0	9.7	10.8	9.3	9.9	7.2	9.2	8.4	8.6	7.0	5.2	6.0
Humboldt	13.5	11.4	13.8	12.2	10.5	9.2	10.2	9.7	8.8	7.8	6.5	6.7
Ida	10.5	9.8	10.7	10.8	8.2	8.8	10.3	9.0	8.9	7.9	5.9	5.9
Iowa	13.9	11.6	13.9	11.6	10.0	7.8	9.3	8.3	7.9	6.4	5.9	5.3
Jackson	19.0	16.1	16.3	15.6	10.7	9.2	9.4	8.7	8.2	5.6	4.9	5.7
Jasper	17.3	14.7	16.3	13.2	14.8	11.3	12.1	10.2	9.2	7.3	5.6	5.3



Table 6. Percent of Votes Cast by Absentee Ballot by Sex In Iowa's Counties in the November Elections of 1988-1998 (continued).

County	1998		1996		1994		1992		1990		1988	
	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males
Jefferson	20.7	16.8	16.9	14.6	10.9	9.3	10.2	9.4	8.8	8.2	5.8	6.1
Johnson	29.8	26.4	31.8	28.7	25.9	22.0	18.2	15.4	11.7	9.3	5.9	5.3
Jones	11.8	10.7	12.3	10.8	9.7	8.6	9.0	8.0	7.8	6.5	4.6	5.6
Keokuk	12.5	10.2	15.7	15.0	15.1	12.4	11.0	10.2	9.9	9.1	7.2	8.7
Kossuth	13.9	12.4	14.0	13.3	10.5	9.6	11.0	9.6	8.8	7.6	7.1	6.2
Lee	27.7	21.4	22.1	17.8	17.3	14.0	12.2	10.9	12.0	9.2	9.6	8.8
Linn	19.1	16.2	18.9	16.5	12.9	11.2	10.6	9.3	10.0	8.0	6.9	6.4
Louisa	12.9	11.5	8.6	7.8	11.1	10.4	8.0	8.4	7.9	8.5	5.4	6.2
Lucas	18.8	16.5	18.1	16.5	14.0	13.3	14.1	14.2	11.7	10.3	9.1	9.2
Lyon	13.3	12.7	8.8	8.3	7.9	6.9	6.5	6.0	6.9	5.9	5.5	4.7
Madison	13.5	11.3	16.4	14.8	12.7	11.5	11.6	9.4	9.7	7.9	7.0	7.4
Mahaska	23.4	20.7	27.2	22.6	15.5	12.7	10.5	8.8	9.0	7.4	5.3	5.1
Marion	24.6	20.4	24.4	22.5	14.6	12.4	10.8	10.9	8.9	7.4	5.3	5.5
Marshall	25.6	20.6	30.9	26.4	24.6	21.4	18.9	16.6	13.2	11.2	7.8	7.3
Mills	12.9	10.5	12.4	12.6	11.4	11.8	9.1	9.2	8.2	7.1	6.6	7.6
Mitchell	14.7	12.5	12.6	10.8	11.7	9.7	11.5	10.4	8.6	6.9	6.7	7.2
Monona	9.6	7.9	11.5	10.0	10.5	8.3	8.1	7.0	8.6	7.1	6.3	6.8
Monroe	17.3	13.9	18.3	15.6	18.6	15.1	16.8	14.4	13.3	10.0	8.1	9.1
Montgomery	12.7	10.6	14.9	10.6	14.1	10.0	11.7	10.3	10.2	8.5	7.1	6.6
Muscatine	18.0	14.6	17.0	14.1	13.7	11.3	9.8	9.5	10.9	9.3	5.1	5.1
O'Brien	10.0	9.2	9.5	9.7	8.2	6.8	8.9	7.9	7.1	5.7	5.6	5.1
Osceola	8.7	7.9	9.5	8.9	8.4	6.6	8.8	7.9	7.0	4.9	6.4	5.2
Page	12.0	9.9	12.8	11.4	9.8	8.8	9.2	8.7	7.9	6.8	5.9	6.0
Palo Alto	11.4	8.2	14.2	11.3	10.1	8.0	11.7	10.6	10.1	7.5	10.0	10.7
Plymouth	10.3	8.9	9.7	8.6	7.8	7.2	7.5	7.4	6.8	5.5	4.5	5.6
Pocahontas	10.0	8.6	12.9	11.7	10.5	8.8	12.2	9.8	8.6	7.2	7.4	7.2
Polk	17.3	15.3	19.6	17.2	18.7	16.6	10.6	9.1	13.5	10.9	6.6	6.1
Pottawattamie	15.2	12.4	13.1	11.5	0.0	0.0	0.3	0.9	11.3	8.3	6.0	6.7
Poweshiek	14.1	12.4	14.6	13.4	12.4	10.6	10.9	9.9	9.9	9.3	6.9	6.6
Ringgold	16.2	14.9	17.6	15.8	13.3	11.2	13.7	11.8	13.0	7.7	7.8	7.4
Sac	10.6	9.0	10.1	9.1	8.8	7.5	7.4	6.8	8.3	6.4	5.9	5.3
Scott	14.2	11.6	15.6	13.6	12.4	10.3	9.6	8.6	1.3	1.0	6.7	6.6
Shelby	0.0	0.0	10.5	10.1	8.9	8.7	9.4	9.4	6.0	5.1	5.0	6.3
Sioux	9.3	8.2	8.6	8.3	7.5	6.9	5.8	6.1	6.2	5.3	4.1	4.5
Story	18.1	14.9	21.4	17.4	15.3	13.1	9.5	8.3	7.7	6.9	5.0	4.9
Tama	11.6	9.7	11.8	11.0	11.1	8.7	8.8	8.5	7.7	6.9	6.6	6.0
Taylor	11.6	9.7	15.2	13.9	10.6	7.5	11.5	9.9	12.3	10.6	6.5	5.7
Union	25.7	21.0	24.5	20.4	28.3	24.1	17.0	14.7	16.9	12.7	12.4	11.1
Van Buren	11.5	10.1	11.2	10.3	9.5	9.5	9.3	9.7	11.2	7.7	5.8	5.8
Wapello	22.3	18.5	19.5	16.3	15.7	13.1	16.3	15.4	10.8	9.3	6.3	6.8
Warren	17.4	15.5	17.6	15.5	14.0	12.0	9.4	9.1	9.0	7.6	5.5	5.8
Washington	18.2	15.4	15.0	13.1	16.4	13.6	10.6	8.7	9.2	7.8	7.0	5.8
Wayne	12.3	9.5	12.8	11.8	11.4	10.4	11.0	9.6	8.9	7.3	8.3	7.5
Webster	15.1	11.8	17.6	14.4	13.1	10.5	12.6	10.9	9.9	8.3	7.2	7.4
Winnebago	8.6	8.1	10.7	9.0	9.3	7.4	8.4	7.7	7.9	6.2	6.7	6.2
Winneshek	13.0	11.3	12.9	10.9	7.9	7.7	8.2	7.8	7.1	5.8	4.6	5.9
Woodbury	14.7	11.5	14.6	11.5	13.2	9.6	11.3	9.6	9.3	7.1	7.2	6.7
Worth	9.6	9.1	9.3	8.8	8.8	6.5	9.5	8.4	7.5	5.6	4.6	6.5
Wright	11.0	11.0	14.3	13.5	12.7	12.1	10.6	10.7	7.9	7.5	5.6	6.2
State of Iowa	16.4	13.9	17.0	14.7	13.7	11.6	10.7	9.5	9.6	7.8	6.6	6.4

Table 7. Number of Votes Cast and Percent Cast by Absentee Ballot by Females by Age Categories in Iowa's Counties in the November Election of 1998.

County	18-24			25-34			35-49			50-64			65 or Older		
	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes
Adair	65	28	43.1	130	11	8.5	508	28	5.5	454	35	7.7	695	156	22.4
Adams	25	14	56.0	52	8	15.4	216	7	3.2	272	21	7.7	371	40	10.8
Allamakee	58	20	34.5	166	21	12.7	640	60	9.4	692	86	12.4	944	206	21.8
Appanoose	71	23	32.4	136	22	16.2	537	50	9.3	569	85	14.9	926	280	30.2
Audubon	35	18	51.4	96	5	5.2	340	21	6.2	362	32	8.8	580	114	19.7
Benton	179	39	21.8	488	54	11.1	1454	115	7.9	1156	132	11.4	1295	238	18.4
Black Hawk	827	128	15.5	1654	138	8.3	6169	534	8.7	5785	795	13.7	6595	1883	28.6
Boone	175	32	18.3	394	33	8.4	1465	101	6.9	1223	131	10.7	1464	371	25.3
Bremer	165	34	20.6	311	24	7.7	1289	79	6.1	1274	115	9.0	1333	257	19.3
Buchanan	140	40	28.6	357	33	9.2	1166	77	6.6	1032	106	10.3	1255	315	25.1
Buena Vista	69	19	27.5	167	7	4.2	852	30	3.5	730	40	5.5	1180	186	15.8
Butler	80	14	17.5	203	19	9.4	717	51	7.1	710	74	10.4	923	173	18.7
Calhoun	60	18	30.0	141	10	7.1	549	19	3.5	553	40	7.2	839	149	17.8
Carroll	102	31	30.4	257	14	5.4	1160	56	4.8	950	63	6.6	1431	227	15.9
Cass	52	22	42.3	174	13	7.5	695	36	5.2	736	65	8.8	1011	138	13.6
Cedar	91	23	25.3	281	19	6.8	989	69	7.0	881	82	9.3	995	226	22.7
Cerro Gordo	243	58	23.9	679	98	14.4	2503	277	11.1	2232	418	18.7	3146	1051	33.4
Cherokee	64	21	32.8	148	11	7.4	714	33	4.6	658	28	4.3	911	124	13.6
Chickasaw	116	55	47.4	267	26	9.7	840	79	9.4	789	114	14.4	979	314	32.1
Clarke	82	44	53.7	202	54	26.7	545	112	20.6	482	113	23.4	617	239	38.7
Clay	91	34	37.4	247	14	5.7	1047	35	3.3	793	37	4.7	1082	166	15.3
Clayton	99	37	37.4	272	20	7.4	1042	54	5.2	929	76	8.2	1302	244	18.7
Clinton	239	62	25.9	640	48	7.5	2431	164	6.7	2400	232	9.7	2976	732	24.6
Crawford	88	38	43.2	209	15	7.2	785	23	2.9	776	44	5.7	1009	155	15.4
Dallas	247	81	32.8	864	125	14.5	2548	381	15.0	1844	403	21.9	1743	616	35.3
Davis	65	21	32.3	119	10	8.4	424	35	8.3	442	44	10.0	535	128	23.9
Decatur	67	14	20.9	120	9	7.5	420	28	6.7	426	37	8.7	586	102	17.4
Delaware	113	43	38.1	268	24	9.0	1046	59	5.6	816	82	10.0	963	238	24.7
Des Moines	226	54	23.9	491	69	14.1	1952	257	13.2	1981	349	17.6	2494	649	26.0
Dickinson	78	28	35.9	189	12	6.3	878	55	6.3	873	102	11.7	1218	287	23.6
Dubuque	452	94	20.8	1179	115	9.8	4288	355	8.3	4044	483	11.9	4665	1215	26.0
Emmet	75	11	14.7	112	11	9.8	514	21	4.1	466	38	8.2	761	109	14.3
Fayette	125	44	35.2	322	20	6.2	1179	82	7.0	1117	121	10.8	1538	392	25.5
Floyd	126	34	27.0	227	17	7.5	858	69	8.0	884	111	12.6	1154	364	31.5
Franklin	60	20	33.3	135	13	9.6	535	26	4.9	547	63	11.5	785	147	18.7
Fremont	37	9	24.3	83	6	7.2	373	17	4.6	392	24	6.1	564	88	15.6
Greene	49	19	38.8	150	14	9.3	583	19	3.3	525	34	6.5	829	141	17.0
Grundy	80	26	32.5	213	18	8.5	727	52	7.2	685	76	11.1	821	172	21.0
Guthrie	83	36	43.4	172	17	9.9	596	43	7.2	623	70	11.2	852	171	20.1
Hamilton	104	21	20.2	232	10	4.3	907	58	6.4	813	72	8.9	1023	211	20.6
Hancock	67	25	37.3	136	11	8.1	640	27	4.2	566	43	7.6	784	143	18.2
Hardin	111	33	29.7	248	28	11.3	973	74	7.6	932	116	12.4	1464	390	26.6
Harrison	59	22	37.3	190	10	5.3	634	29	4.6	618	40	6.5	833	73	8.8
Henry	170	77	45.3	340	42	12.4	1153	141	12.2	980	152	15.5	1207	336	27.8
Howard	61	14	23.0	124	5	4.0	526	16	3.0	503	33	6.6	789	133	16.9
Humboldt	50	18	36.0	107	14	13.1	559	41	7.3	552	54	9.8	807	154	19.1
Ida	56	16	28.6	148	14	9.5	485	27	5.6	399	23	5.8	612	99	16.2
Iowa	87	31	35.6	292	30	10.3	980	80	8.2	770	91	11.8	956	196	20.5
Jackson	101	32	31.7	262	33	12.6	1005	120	11.9	974	133	13.7	1231	360	29.2
Jasper	241	60	24.9	684	76	11.1	2194	217	9.9	1934	259	13.4	2265	652	28.8

Table 7. Number of Votes Cast and Percent Cast by Absentee Ballot by Females by Age Categories in Iowa's Counties in the November Election of 1998 (continued).

County	18-24			25-34			35-49			50-64			65 or Older		
	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes
Jefferson	113	46	40.7	230	25	10.9	1108	140	12.6	965	165	17.1	920	313	34.0
Johnson	1243	387	31.1	2786	643	23.1	6379	1556	24.4	4270	1425	33.4	3110	1292	41.5
Jones	119	32	26.9	302	27	8.9	1075	69	6.4	1002	86	8.6	1202	222	18.5
Keokuk	73	32	43.8	163	16	9.8	571	29	5.1	550	47	8.5	819	149	18.2
Kossuth	82	38	46.3	246	20	8.1	1033	64	6.2	968	105	10.8	1253	272	21.7
Lee	193	94	48.7	445	118	26.5	1725	381	22.1	1763	404	22.9	2181	749	34.3
Linn	1204	233	19.4	3782	438	11.6	11334	1319	11.6	9352	1698	18.2	8668	2868	33.1
Louisa	65	14	21.5	146	15	10.3	521	39	7.5	476	50	10.5	585	114	19.5
Lucas	48	9	18.8	117	15	12.8	417	39	9.4	439	75	17.1	653	176	27.0
Lyon	107	46	43.0	198	27	13.6	584	60	10.3	525	49	9.3	691	98	14.2
Madison	88	26	29.5	271	17	6.3	958	62	6.5	688	72	10.5	828	205	24.8
Mahaska	118	45	38.1	341	58	17.0	1045	162	15.5	920	169	18.4	1275	431	33.8
Marion	241	83	34.4	521	100	19.2	1598	297	18.6	1432	285	19.9	1659	576	34.7
Marshall	234	74	31.6	571	85	14.9	2190	372	17.0	2065	476	23.1	2376	895	37.7
Mills	56	18	32.1	140	17	12.1	645	55	8.5	582	62	10.7	565	104	18.4
Mitchell	85	43	50.6	165	13	7.9	591	43	7.3	568	42	7.4	937	205	21.9
Monona	57	21	36.8	127	12	9.4	494	19	3.8	484	28	5.8	820	110	13.4
Monroe	53	18	34.0	146	15	10.3	403	42	10.4	382	43	11.3	544	146	26.8
Montgomery	56	16	28.6	142	6	4.2	574	29	5.1	566	55	9.7	868	174	20.0
Muscatine	190	54	28.4	454	61	13.4	1721	192	11.2	1628	229	14.1	1684	485	28.8
O'Brien	72	20	27.8	174	18	10.3	707	39	5.5	610	42	6.9	1017	140	13.8
Osceola	33	8	24.2	82	6	7.3	335	15	4.5	315	14	4.4	441	62	14.1
Page	71	30	42.3	162	14	8.6	778	35	4.5	741	64	8.6	1151	206	17.9
Palo Alto	55	24	43.6	146	6	4.1	526	21	4.0	535	40	7.5	822	146	17.8
Plymouth	102	34	33.3	260	19	7.3	1129	62	5.5	939	72	7.7	1229	189	15.4
Pocahontas	36	9	25.0	84	6	7.1	407	16	3.9	419	30	7.2	649	98	15.1
Polk	2531	541	21.4	9167	1133	12.4	23177	2538	11.0	17372	2856	16.4	15834	4728	29.9
Pottawattamie	327	74	22.6	847	112	13.2	3291	294	8.9	3178	373	11.7	3761	886	23.6
Poweshiek	221	127	57.5	291	12	4.1	1001	62	6.2	856	67	7.8	1112	224	20.1
Ringgold	44	10	22.7	87	14	16.1	309	27	8.7	311	44	14.1	506	109	21.5
Sac	52	16	30.8	156	12	7.7	554	22	4.0	539	37	6.9	906	147	16.2
Scott	753	153	20.3	2298	177	7.7	8163	656	8.0	7202	823	11.4	6570	1735	26.4
Shelby	53	0	0.0	147	0	0.0	620	0	0.0	587	0	0.0	941	0	0.0
Sioux	273	74	27.1	476	37	7.8	1595	75	4.7	1281	76	5.9	1640	230	14.0
Story	1028	170	16.5	1532	188	12.3	4218	472	11.2	3163	527	16.7	2966	973	32.8
Tama	98	26	26.5	273	23	8.4	971	48	4.9	896	85	9.5	1227	219	17.8
Taylor	35	9	25.7	94	9	9.6	320	21	6.6	345	28	8.1	580	92	15.9
Union	93	37	39.8	189	31	16.4	718	119	16.6	644	113	17.5	955	367	38.4
Van Buren	62	18	29.0	119	10	8.4	439	20	4.6	405	41	10.1	528	89	16.9
Wapello	237	85	35.9	509	118	23.2	1774	275	15.5	1657	281	17.0	2313	690	29.8
Warren	343	109	31.8	839	119	14.2	2687	283	10.5	2120	294	13.9	1678	529	31.5
Washington	125	36	28.8	357	54	15.1	1118	124	11.1	912	115	12.6	1202	347	28.9
Wayne	34	16	47.1	87	8	9.2	321	12	3.7	331	22	6.6	583	109	18.7
Webster	193	46	23.8	527	36	6.8	1904	111	5.8	1759	187	10.6	2528	661	26.1
Winnebago	70	16	22.9	135	6	4.4	621	32	5.2	532	25	4.7	872	113	13.0
Winneshiek	124	32	25.8	261	28	10.7	1053	70	6.6	968	103	10.6	1202	236	19.6
Woodbury	400	80	20.0	1123	110	9.8	4274	336	7.9	3734	436	11.7	4784	1146	24.0
Worth	51	8	15.7	136	5	3.7	500	28	5.6	452	31	6.9	610	96	15.7
Wright	64	11	17.2	148	6	4.1	669	33	4.9	642	62	9.7	1050	170	16.2
State of Iowa	18211	4883	26.8	47077	5515	11.7	154773	15254	9.9	134209	18469	13.8	156626	39870	25.5

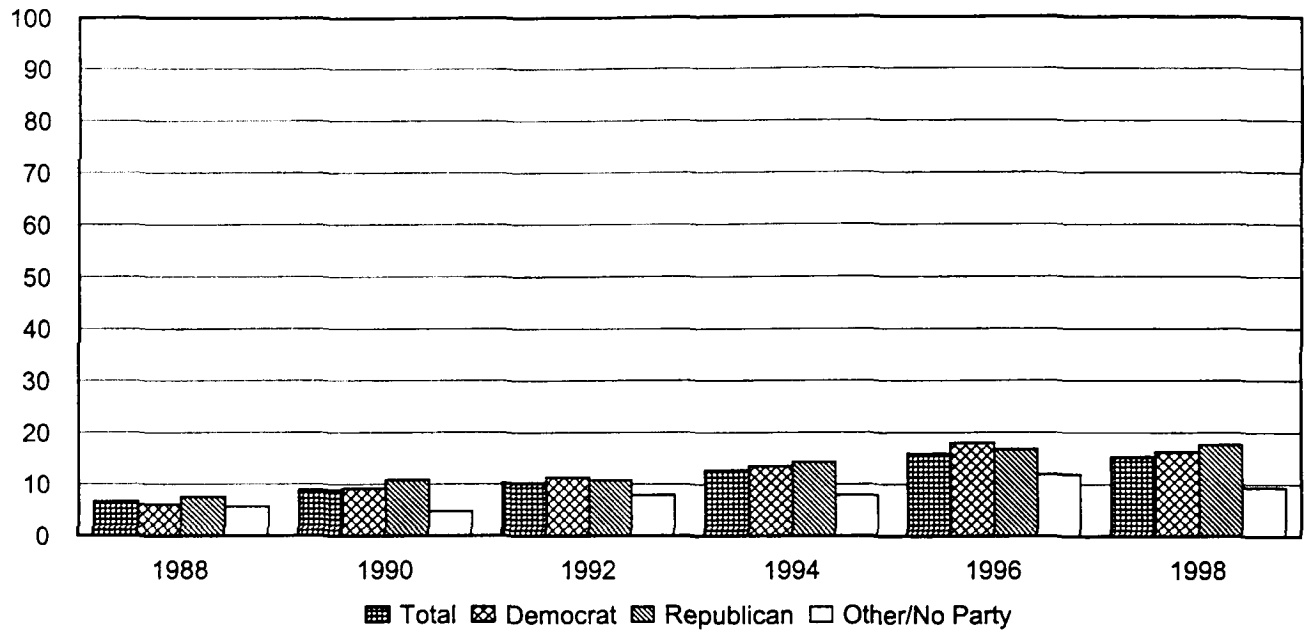
Table 8. Number of Votes Cast and Percent Cast by Absentee Ballot by Males by Age Categories in Iowa's Counties in the November Election of 1998.

County	18-24			25-34			35-49			50-64			65 or Older		
	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes
Adair	60	19	31.7	115	8	7.0	490	32	6.5	408	36	8.8	539	81	15.0
Adams	27	13	48.1	51	10	19.6	209	12	5.7	250	13	5.2	260	23	8.8
Allamakee	54	15	27.8	166	24	14.5	633	47	7.4	644	89	13.8	760	117	15.4
Appanoose	55	14	25.5	124	18	14.5	483	55	11.4	535	74	13.8	698	133	19.1
Audubon	36	9	25.0	89	6	6.7	358	24	6.7	333	32	9.6	451	55	12.2
Benton	162	36	22.2	423	45	10.6	1434	131	9.1	1111	107	9.6	1041	168	16.1
Black Hawk	757	100	13.2	1502	156	10.4	5467	486	8.9	5464	629	11.5	5025	1033	20.6
Boone	160	24	15.0	358	26	7.3	1370	109	8.0	1106	111	10.0	1165	179	15.4
Bremer	151	27	17.9	284	33	11.6	1184	101	8.5	1274	113	8.9	1029	173	16.8
Buchanan	130	23	17.7	314	25	8.0	1091	92	8.4	990	94	9.5	895	163	18.2
Buena Vista	81	14	17.3	164	11	6.7	842	32	3.8	686	38	5.5	940	122	13.0
Butler	93	29	31.2	140	12	8.6	681	45	6.6	704	59	8.4	762	132	17.3
Calhoun	58	13	22.4	115	8	7.0	549	32	5.8	500	44	8.8	598	101	16.9
Carroll	122	38	31.1	260	15	5.8	1115	57	5.1	854	59	6.9	1090	132	12.1
Cass	66	17	25.8	174	19	10.9	680	36	5.3	700	52	7.4	784	79	10.1
Cedar	95	23	24.2	238	26	10.9	937	71	7.6	809	61	7.5	830	159	19.2
Cerro Gordo	266	51	19.2	604	85	14.1	2335	297	12.7	1985	341	17.2	2311	541	23.4
Cherokee	58	12	20.7	129	9	7.0	694	35	5.0	637	29	4.6	748	78	10.4
Chickasaw	130	47	36.2	193	20	10.4	783	95	12.1	728	98	13.5	795	182	22.9
Clarke	64	34	53.1	147	47	32.0	488	113	23.2	454	109	24.0	466	149	32.0
Clay	97	30	30.9	225	13	5.8	967	34	3.5	761	41	5.4	824	86	10.4
Clayton	91	33	36.3	226	28	12.4	952	64	6.7	888	76	8.6	1015	136	13.4
Clinton	218	46	21.1	561	47	8.4	2206	153	6.9	2178	200	9.2	2227	345	15.5
Crawford	68	28	41.2	191	14	7.3	733	34	4.6	746	40	5.4	786	100	12.7
Dallas	227	72	31.7	723	104	14.4	2333	346	14.8	1777	376	21.2	1404	394	28.1
Davis	59	19	32.2	113	15	13.3	410	44	10.7	407	51	12.5	410	70	17.1
Decatur	57	16	28.1	112	9	8.0	385	35	9.1	394	35	8.9	451	58	12.9
Delaware	115	29	25.2	282	31	11.0	977	75	7.7	810	86	10.6	813	136	16.7
Des Moines	213	58	27.2	478	68	14.2	1868	269	14.4	1985	317	16.0	1887	368	19.5
Dickinson	92	31	33.7	184	16	8.7	827	62	7.5	823	88	10.7	975	195	20.0
Dubuque	455	92	20.2	1094	125	11.4	4150	359	8.7	3951	388	9.8	3512	610	17.4
Emmet	67	8	11.9	114	15	13.2	468	23	4.9	449	41	9.1	517	49	9.5
Fayette	119	37	31.1	262	29	11.1	1124	96	8.5	999	120	12.0	1136	200	17.6
Floyd	128	25	19.5	196	19	9.7	773	69	8.9	865	99	11.4	895	209	23.4
Franklin	66	18	27.3	124	18	14.5	526	34	6.5	511	46	9.0	607	88	14.5
Fremont	42	11	26.2	65	7	10.8	335	14	4.2	352	28	8.0	410	33	8.0
Greene	50	19	38.0	121	12	9.9	523	32	6.1	493	29	5.9	614	81	13.2
Grundy	86	17	19.8	167	22	13.2	665	52	7.8	684	68	9.9	663	115	17.3
Guthrie	70	25	35.7	132	13	9.8	608	53	8.7	564	65	11.5	667	126	18.9
Hamilton	101	16	15.8	206	13	6.3	830	74	8.9	762	66	8.7	823	126	15.3
Hancock	86	21	24.4	118	12	10.2	651	33	5.1	554	37	6.7	588	96	16.3
Hardin	120	41	34.2	198	18	9.1	910	61	6.7	819	83	10.1	1064	200	18.8
Harrison	76	12	15.8	149	10	6.7	652	32	4.9	593	43	7.3	647	42	6.5
Henry	142	56	39.4	298	42	14.1	1062	113	10.6	942	143	15.2	878	177	20.2
Howard	46	15	32.6	107	7	6.5	520	31	6.0	453	38	8.4	625	79	12.6
Humboldt	53	14	26.4	111	12	10.8	565	49	8.7	475	49	10.3	601	82	13.6
Ida	56	13	23.2	109	13	11.9	471	35	7.4	370	33	8.9	481	51	10.6
Iowa	98	24	24.5	240	32	13.3	986	77	7.8	724	79	10.9	747	112	15.0
Jackson	98	38	38.8	222	32	14.4	939	107	11.4	873	104	11.9	934	212	22.7
Jasper	255	47	18.4	628	88	14.0	2086	216	10.4	1844	232	12.6	1809	392	21.7

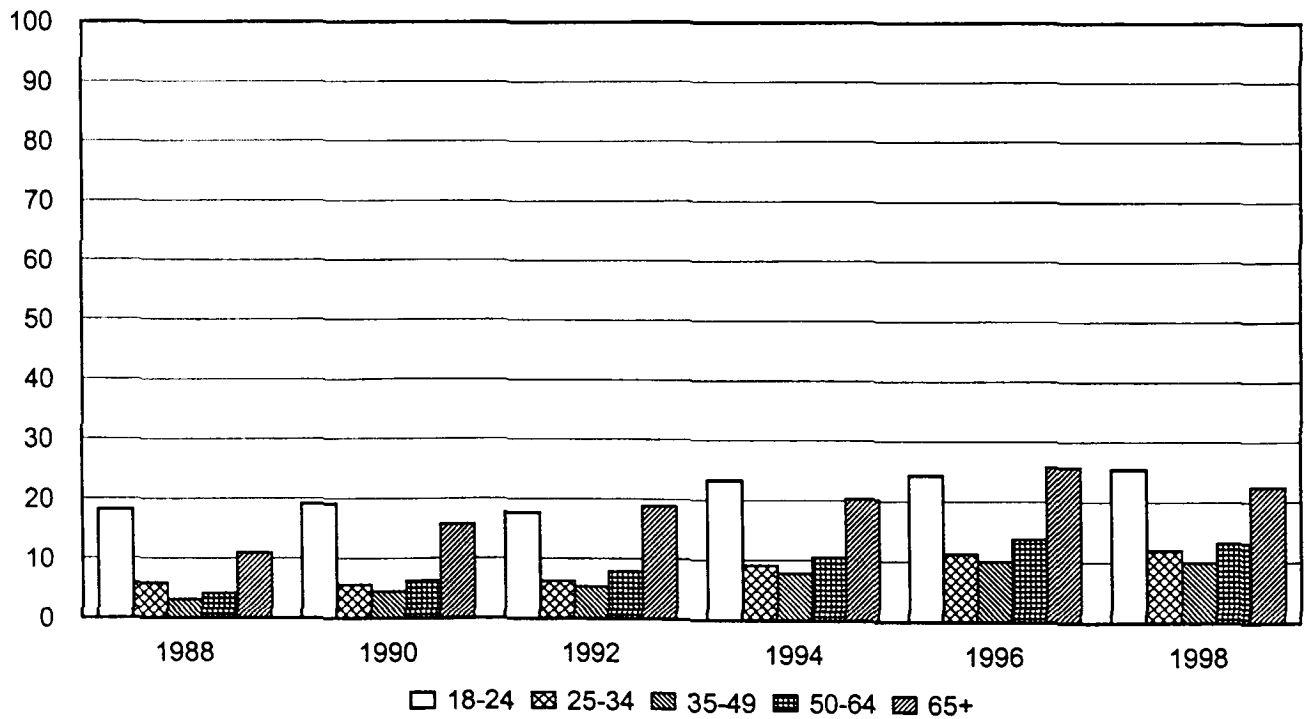
Table 8. Number of Votes Cast and Percent Cast by Absentee Ballot by Males by Age Categories in Iowa's Counties in the November Election of 1998 (continued).

County	18-24			25-34			35-49			50-64			65 or Older		
	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes	Total Votes Cast	Abs Votes	% Abs Votes
Jefferson	127	50	39.4	194	21	10.8	1138	149	13.1	889	131	14.7	656	153	23.3
Johnson	1128	342	30.3	2633	626	23.8	5810	1283	22.1	3977	1150	28.9	2466	828	33.6
Jones	118	30	25.4	277	24	8.7	1013	69	6.8	933	98	10.5	962	134	13.9
Keokuk	71	24	33.8	147	15	10.2	572	39	6.8	492	40	8.1	640	78	12.2
Kossuth	82	35	42.7	209	25	12.0	1049	70	6.7	893	91	10.2	1014	182	17.9
Lee	178	62	34.8	384	90	23.4	1652	314	19.0	1629	309	19.0	1550	380	24.5
Linn	1132	191	16.9	3316	373	11.2	10688	1241	11.6	8925	1479	16.6	6972	1742	25.0
Louisa	68	22	32.4	151	18	11.9	514	26	5.1	443	52	11.7	475	72	15.2
Lucas	49	11	22.4	115	15	13.0	380	41	10.8	417	63	15.1	485	108	22.3
Lyon	102	46	45.1	178	28	15.7	617	56	9.1	476	41	8.6	613	82	13.4
Madison	103	22	21.4	238	15	6.3	848	67	7.9	707	60	8.5	633	122	19.3
Mahaska	119	44	37.0	300	50	16.7	1029	165	16.0	918	165	18.0	1022	278	27.2
Marion	208	61	29.3	454	90	19.8	1569	279	17.8	1332	225	16.9	1299	338	26.0
Marshall	244	60	24.6	546	91	16.7	2071	303	14.6	2038	430	21.1	1869	510	27.3
Mills	62	19	30.6	138	14	10.1	596	57	9.6	591	50	8.5	472	55	11.7
Mitchell	63	23	36.5	145	20	13.8	584	42	7.2	507	43	8.5	702	123	17.5
Monona	50	14	28.0	108	7	6.5	474	22	4.6	467	26	5.6	614	67	10.9
Monroe	75	18	24.0	111	14	12.6	371	46	12.4	362	36	9.9	432	74	17.1
Montgomery	56	20	35.7	146	12	8.2	542	35	6.5	521	42	8.1	641	93	14.5
Muscatine	147	43	29.3	397	40	10.1	1621	186	11.5	1538	202	13.1	1376	269	19.5
O'Brien	84	24	28.6	170	17	10.0	686	40	5.8	552	39	7.1	768	89	11.6
Osceola	35	7	20.0	67	3	4.5	339	24	7.1	261	15	5.7	345	34	9.9
Page	79	25	31.6	161	8	5.0	699	43	6.2	725	61	8.4	891	115	12.9
Palo Alto	64	17	26.6	118	12	10.2	507	16	3.2	456	26	5.7	605	73	12.1
Plymouth	91	31	34.1	236	19	8.1	1111	75	6.8	898	64	7.1	1058	114	10.8
Pocahontas	35	7	20.0	80	11	13.8	416	20	4.8	392	23	5.9	484	60	12.4
Polk	2075	391	18.8	7521	949	12.6	20609	2399	11.6	15922	2420	15.2	11849	2695	22.7
Pottawattamie	353	82	23.2	781	89	11.4	3103	299	9.6	2897	319	11.0	3050	475	15.6
Poweshiek	167	98	58.7	241	22	9.1	867	53	6.1	839	77	9.2	894	124	13.9
Ringgold	51	19	37.3	73	11	15.1	286	31	10.8	259	35	13.5	398	63	15.8
Sac	71	29	40.8	131	10	7.6	551	25	4.5	484	30	6.2	688	79	11.5
Scott	663	139	21.0	2053	170	8.3	7697	647	8.4	6964	719	10.3	5326	949	17.8
Shelby	54	0	0.0	124	0	0.0	691	0	0.0	565	0	.0	805	0	.0
Sioux	277	48	17.3	467	45	9.6	1524	77	5.1	1209	79	6.5	1348	147	10.9
Story	1008	121	12.0	1528	166	10.9	3744	425	11.4	3020	448	14.8	2359	573	24.3
Tama	101	19	18.8	227	13	5.7	865	55	6.4	829	80	9.7	950	120	12.6
Taylor	33	6	18.2	69	8	11.6	315	17	5.4	302	29	9.6	422	51	12.1
Union	73	30	41.1	176	32	18.2	639	114	17.8	646	99	15.3	663	186	28.1
Van Buren	49	13	26.5	111	7	6.3	394	21	5.3	364	38	10.4	455	59	13.0
Wapello	177	54	30.5	472	116	24.6	1620	245	15.1	1504	232	15.4	1745	374	21.4
Warren	322	94	29.2	687	101	14.7	2447	279	11.4	2024	270	13.3	1387	322	23.2
Washington	123	35	28.5	335	46	13.7	1038	109	10.5	888	99	11.1	905	216	23.9
Wayne	31	8	25.8	69	4	5.8	317	26	8.2	280	18	6.4	457	54	11.8
Webster	176	35	19.9	432	39	9.0	1796	117	6.5	1564	153	9.8	1943	355	18.3
Winnebago	63	18	28.6	126	12	9.5	600	28	4.7	512	33	6.4	656	67	10.2
Winneshiek	129	34	26.4	235	20	8.5	1010	99	9.8	877	86	9.8	969	126	13.0
Woodbury	363	72	19.8	1041	107	10.3	3968	310	7.8	3472	379	10.9	3557	559	15.7
Worth	53	6	11.3	123	8	6.5	481	24	5.0	402	34	8.5	457	66	14.4
Wright	62	17	27.4	142	6	4.2	647	39	6.0	575	55	9.6	815	129	15.8
State of Iowa	17120	4085	23.9	41527	5126	12.3	144430	14725	10.2	125952	15982	12.7	121330	22730	18.7

**Figure 1. Percent voting absentee by political party and year in Iowa, 1988–1998.**



**Figure 2. Percent voting absentee by age and year in Iowa, 1988–1998.**



## Permits to Carry Weapons Issued in Iowa's Counties: 1994-1999

Margaret Hanson, Iowa State University  
Willis Goudy, Iowa State University

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There are two primary types of permits to carry weapons issued in Iowa: nonprofessional and professional. Nonprofessional permits authorize the permit holder to carry weapons other than in connection with their employment and to purchase hand guns. In all counties, individuals must take a written course before obtaining such a permit; some counties require a range course as well. Nonprofessional permits are granted at the county sheriff's discretion. The four subtypes of the professional permit to carry weapons authorizes both the carrying and the purchasing of handguns in connection with employment [e.g., professional (private security guard, armored car personnel, and so on), certified peace officer, correctional officer, reserve peace officer]. A professional permit is only valid while going to and from work and while actually engaged in the employment for which it was issued. Professional permits are obtained either through the county sheriff or the Commissioner of the Iowa Department of Public Safety (state employees, non-residents). Both professional and nonprofessional permits are valid for one year and are issued only after the completion of a criminal check. Permits are valid statewide but are not valid outside of Iowa. Numbers in this report reflect the actual number of individuals obtaining permits and not the actual number of weapons being carried throughout the state.

In 1999, 25,319 permits were granted to carry weapons in this state (Table 1). Black Hawk and Polk each exceeded 1,000 permits that year; Linn, Pottawattamie, and Webster were the only other counties with more than 500. Delaware, Emmet, Jefferson, and Worth each issued fewer than 25 weapon permits in 1999. From 1994 to 1999, the number of permits issued in the state increased by 84. Sixty-one counties followed this trend with Harrison, Pottawattamie, Union, and Wayne each increasing by more than 100. Permits declined by this magnitude in Benton, Black Hawk, Dallas, Decatur, Guthrie, Linn, Polk, and Warren.

Of the total weapon permits issued in 1999, 23,403 were nonprofessional permits. Twenty counties granted more than 300 nonprofessional permits, with Black Hawk and Polk each allowing more than 1,000. Seven counties issued 30 or fewer nonprofessional weapon permits in 1999, including Jefferson, which did not issue any. When the number of nonprofessional permits issued is divided by the estimated population aged 21 and older and multiplied by 1,000, a rate of permits per 1,000 adults is obtained. In 1999, this rate ranged from less than 1 to more than 50 for every 1,000 adults, indicating that issuing nonprofessional permits to carry weapons varies considerably across Iowa's 99 counties.

Although the number of nonprofessional permits declined by more than 300 in the state from 1994 to 1999, more than half the counties (60) experienced increases in their nonprofessional permit numbers. Increases ranged from fewer than 10 in 5 counties to more than 100 in Harrison, Pottawattamie, Union, and Wayne. Linn and Polk had declines greater than 300 from 1994 to 1999; decreases in Benton, Black Hawk, Dallas, Decatur, and Guthrie also were greater than 100.

**Note:** The sheriff of the county of residence is the only person authorized to issue permits unless the request comes from a nonresident or requires a permit as a result of employment by the State of Iowa. In such special cases, the Commissioner of Public Safety can issue permits to carry weapons. The sheriff may issue both a professional and a nonprofessional permit to the same individual if circumstances warrant. Permits may be requested for any device designed to inflict death or injury and includes, but is not limited to, dangerous weapons, pistols, revolvers or other firearms, daggers, razors, stilettos, switchblade knives, or any knife with a blade exceeding five inches. Additional information is available from the Iowa Department of Public Safety.

Table 1. Permits to Carry Weapons Issued in Iowa's Counties, 1994-1999.

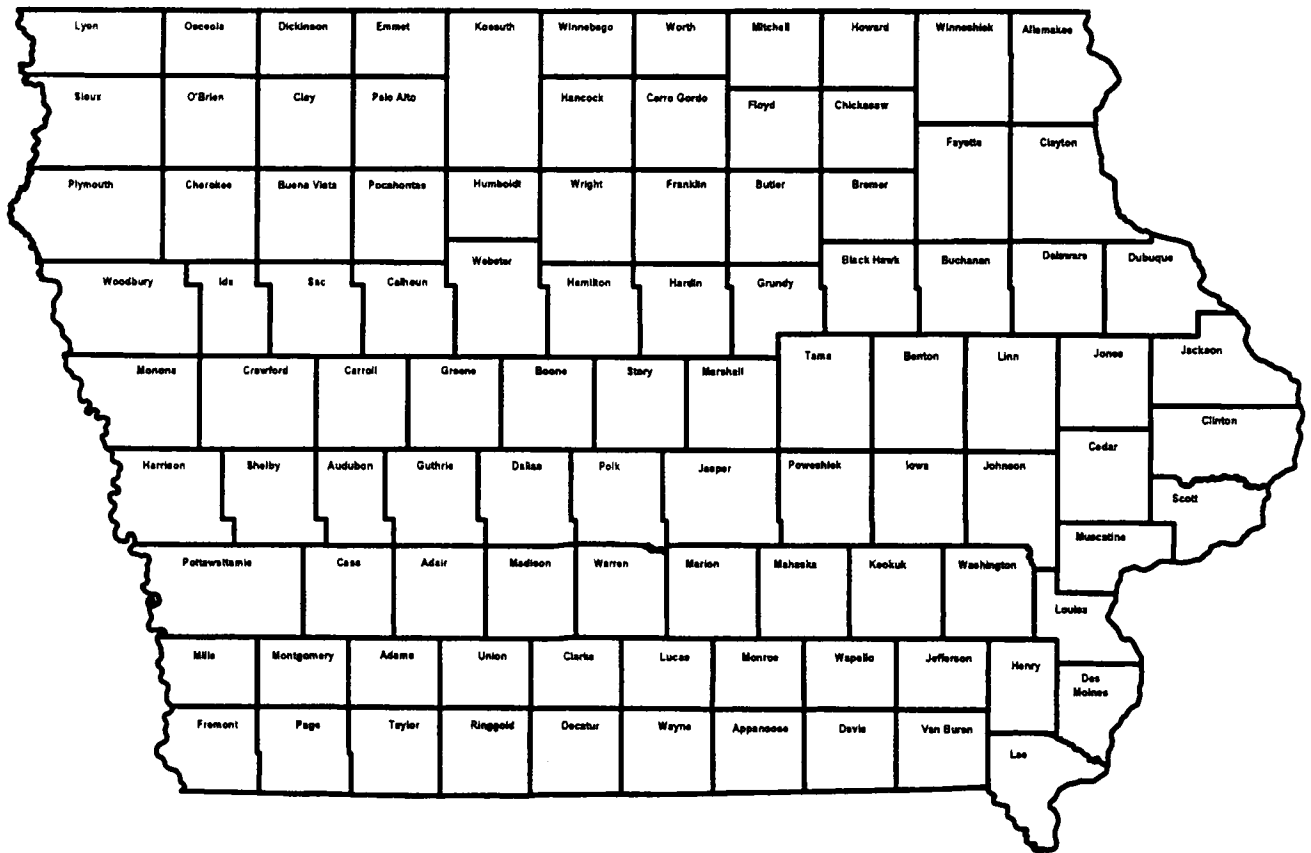
County	Total Permits to Carry Weapons Reported*						Nonprofessional Permits Reported*					
	1999	1998	1997	1996	1995	1994	1999	1998	1997	1996	1995	1994
Adair	224	217	201	163	177	175	215	204	198	161	175	174
Adams	116	87	97	79	78	71	113	84	90	70	69	65
Allamakee	130	135	129	146	123	124	130	134	125	144	121	119
Appanoose	164	57	200	114	69	107	161	57	193	113	68	107
Audubon	172	150	160	166	137	138	171	148	156	166	137	138
Benton	200	184	300	197	164	356	188	180	295	195	159	344
Black Hawk	1495	1651	1841	1706	1593	1656	1436	1593	1639	1678	1561	1596
Boone	236	214	212	221	195	215	222	206	205	212	186	192
Bremer	475	457	596	397	422	412	462	448	586	391	420	405
Buchanan	163	168	155	159	149	137	154	157	143	142	142	131
Buena Vista	196	211	213	206	228	258	192	203	203	200	221	255
Butler	269	280	227	269	228	293	263	268	214	257	220	283
Calhoun	306	368	332	328	320	317	301	364	329	327	319	317
Carroll	123	109	101	99	104	109	117	95	99	96	101	106
Cass	440	421	352	255	437	426	434	417	343	246	435	425
Cedar	66	46	43	0	0	0	44	32	26	0	0	0
Cerro Gordo	270	266	241	149	266	275	249	236	221	129	255	261
Cherokee	274	269	241	139	248	220	256	253	227	130	236	213
Chickasaw	65	59	70	70	107	124	60	56	50	34	103	121
Clarke	222	263	210	182	266	302	215	251	204	181	262	300
Clay	248	259	239	219	233	217	240	244	231	206	225	210
Clayton	40	37	51	76	63	49	30	26	27	43	24	30
Clinton	157	162	175	176	171	157	141	149	156	164	156	135
Crawford	125	120	116	100	105	93	121	113	105	95	100	93
Dallas	347	429	448	413	462	584	334	400	425	391	433	573
Davis	255	224	223	204	192	210	247	217	216	202	187	208
Decatur	279	269	290	263	84	405	279	263	284	254	79	404
Delaware	22	22	58	31	13	24	16	18	50	27	12	21
Des Moines	75	69	113	67	84	73	53	54	48	41	31	64
Dickinson	393	378	405	426	409	432	391	371	395	411	405	425
Dubuque	101	104	175	90	105	113	54	62	137	56	60	59
Emmet	17	50	0	0	68	75	17	50	0	0	67	75
Fayette	80	85	91	79	59	63	76	82	77	58	46	41
Floyd	174	170	180	181	176	180	153	157	146	158	156	170
Franklin	236	208	211	224	193	223	235	204	208	221	193	223
Fremont	134	140	140	157	163	109	133	135	137	157	161	105
Greene	60	59	56	32	17	16	56	50	46	19	12	11
Grundy	171	169	150	158	153	156	154	161	147	154	152	151
Guthrie	145	329	331	328	308	300	142	319	319	325	303	297
Hamilton	238	237	250	239	219	208	237	234	245	236	215	207
Hancock	195	210	211	202	203	199	183	203	200	198	198	197
Hardin	240	239	238	243	251	223	237	227	233	235	247	220
Harrison	478	423	432	439	275	348	475	419	420	428	373	342
Henry	293	302	353	234	221	285	292	293	304	228	215	257
Howard	38	26	28	25	25	20	30	21	21	22	24	19
Humboldt	207	211	206	194	148	188	204	204	202	193	148	187
Ida	211	202	212	191	183	188	204	196	207	187	182	188
Iowa	452	454	471	417	419	441	445	449	457	409	410	435
Jackson	173	241	192	225	116	203	154	236	184	214	111	199
Jasper	262	273	276	246	308	238	244	255	222	234	303	228

\* Numbers were not reported by some jurisdictions for each month.



Table 1. Permits to Carry Weapons Issued in Iowa's Counties, 1994-1999 (continued).

County	Total Permits to Carry Weapons Reported*						Nonprofessional Permits Reported*					
	1999	1998	1997	1996	1995	1994	1999	1998	1997	1996	1995	1994
Jefferson	2	12	12	0	28	0	0	0	0	0	25	0
Johnson	333	297	295	300	362	330	270	265	250	254	287	303
Jones	97	99	86	98	100	82	91	90	81	86	89	76
Keokuk	349	326	343	339	225	295	342	318	337	333	218	293
Kossuth	202	209	192	197	196	209	199	208	173	190	195	207
Lee	57	67	62	72	98	115	46	49	44	54	91	93
Linn	509	435	456	281	462	829	323	336	324	183	315	664
Louisa	72	77	66	59	68	58	70	75	63	57	65	55
Lucas	307	271	198	137	232	286	302	269	186	126	231	284
Lyon	106	106	114	101	109	118	104	102	113	101	108	118
Madison	187	186	171	189	167	203	164	181	164	182	163	198
Mahaska	149	156	98	165	188	194	136	143	85	143	172	181
Marion	432	403	433	421	336	413	421	391	396	408	328	407
Marshall	367	355	396	376	386	376	360	340	381	372	377	371
Mills	174	129	194	197	154	145	170	125	188	189	151	141
Mitchell	148	149	132	104	118	101	144	143	131	101	117	100
Monona	223	228	224	208	200	203	217	221	212	206	196	198
Monroe	174	162	159	154	133	142	167	161	151	149	130	137
Montgomery	222	192	197	201	174	179	213	185	192	194	171	179
Muscatine	457	452	450	453	370	376	435	424	416	439	362	363
O'Brien	266	308	299	288	288	238	265	306	297	287	284	236
Osceola	168	129	154	150	149	142	162	127	149	146	148	140
Page	88	162	125	130	118	119	76	154	108	126	113	117
Palo Alto	115	129	141	103	118	106	111	122	132	103	117	104
Plymouth	286	284	262	250	237	240	278	269	250	230	226	230
Pocahontas	216	209	230	234	220	233	215	207	226	233	217	233
Polk	1539	1595	1606	1601	1695	1857	1385	1442	1382	1457	1544	1722
Pottawattamie	968	1002	990	980	790	844	927	954	917	832	760	823
Poweshiek	435	362	395	393	381	363	425	340	387	380	373	354
Ringgold	225	165	133	149	151	129	207	164	130	146	149	126
Sac	330	336	320	267	308	290	324	328	297	266	306	289
Scott	391	439	402	433	513	469	287	314	302	295	385	368
Shelby	291	260	266	248	184	223	287	260	264	247	184	219
Sioux	286	284	282	280	261	233	282	283	280	279	261	231
Story	188	174	223	196	156	210	173	148	174	162	127	163
Tama	170	193	200	213	203	219	158	187	186	202	196	211
Taylor	142	135	122	74	87	92	137	119	112	67	82	80
Union	183	170	119	102	87	71	182	170	115	100	87	68
Van Buren	148	143	154	126	133	142	146	143	145	124	131	142
Wapello	79	76	65	63	87	48	57	56	42	34	42	32
Warren	435	627	522	547	524	537	427	612	510	529	508	522
Washington	77	69	65	90	56	93	70	62	53	82	50	74
Wayne	176	228	184	35	31	29	169	228	182	33	29	28
Webster	793	783	765	754	731	717	772	763	741	740	726	711
Winneshiek	166	152	149	131	135	127	151	138	139	126	130	121
Winnebago	29	28	5	34	26	60	28	28	5	30	25	56
Woodbury	407	391	414	434	446	476	256	259	266	278	279	345
Worth	23	23	26	28	24	34	22	20	23	25	23	27
Wright	292	280	273	248	247	252	289	274	263	240	245	249
Non county issued	388	276	337	121	278	253	1	1	2	24	20	3
State	25319	25436	25748	23678	23507	25235	23403	23702	23361	22028	21976	23718



## Domestic Abuse in Iowa's Counties: 1993-1999

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The Iowa Department of Public Safety reports incidents of domestic abuse as part of its annual publication program. Summary data are included on reported cases, characteristics of victims and offenders, and characteristics of the incidents. Domestic abuse is defined in the Iowa Code under any of the following circumstances: the assault is between family or household members who reside together at the time of the assault, the assault is between separated spouses or persons divorced from each other and not residing together at the time of the assault, the assault is between persons who are parents of the same minor child regardless of whether they have been married or have lived together at any time, or the assault is between persons who have been family or household members residing together within the past year and are not residing together at the time of the assault.

**Caution is urged in interpreting the numbers in the tables for this section.** Readers of this annual county data book may recall that statistics on domestic abuse were reported in this volume for the years 1986 through 1990 (see the 1992 edition). A new reporting format, called the Incident-Based Iowa Uniform Crime Reporting System, was implemented in 1991; as with any revised system, it takes some time for all units responsible for compiling figures to comply in a consistent fashion. That is why 1991 and 1992 were not included in previous editions of our county data book and are not included here. The number of law enforcement units reporting data has changed from one year to the next; estimates suggest that only two-thirds of the data were reported in 1993, for example. This remains a problem, although the magnitude of missing data has diminished somewhat. Still, comparisons of 1993-1999 numbers (Tables 1-4) are not appropriate either for the state or for many counties. ***Jurisdictions not reporting or those providing insufficient data are listed on page 526. Counties in which this occurred are highlighted in Tables 1-4; the numbers in these tables may be underreported—minimally in some but undoubtedly grossly so in instances where jurisdictions with large populations were excluded.***

### Data for the State

Nearly 7,000 incidents of domestic abuse were reported to the Iowa Department of Public Safety in 1999 (Table 1). Victims tended to be female (5,773 of the 6,963 victims reported) while offenders generally were male (5,870 of the 7,078 offenders reported) in cases of domestic abuse. Arrests occurred in 5,004 of the 6,778 cases for which that information was provided in 1999.

### Data for Counties

In 1999, 13 counties had at least 100 cases of domestic abuse reported by law enforcement personnel (Table 1). Four of these counties (Linn, Polk, Scott, Woodbury) counted 500 or more incidents. Thirteen counties had no reported incidents of domestic abuse that year. Caution must be repeated; underreporting occurred in some relatively large jurisdictions in the state.

**Note:** The figures examined in this report are from the IOWA UNIFORM CRIME REPORTS (Iowa Department of Public Safety, Wallace State Office Building, Des Moines, IA 50319) that are published annually. Please note that the number of responses on arrests doesn't always equal the number of cases of domestic abuse in a county; information on arrests was not available on some incidents. The record of

Table 1. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1999.

County	Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No
Adair	4	2	2	2	2	3	0
Adams	5	4	1	1	4	3	2
Allamakee*	0*	0*	0*	0*	0*	0*	0*
Appanoose	39	32	7	8	34	19	20
Audubon*	0*	0*	0*	0*	0*	0*	0*
Benton*	19*	16*	3*	2*	17*	18*	1*
Black Hawk*	372*	325*	47*	45*	336*	275*	97*
Boone	66	51	15	11	54	55	7
Bremer	29	26	3	3	26	23	6
Buchanan	0	0	0	0	0	0	0
Buena Vista	42	34	8	6	36	37	2
Butler*	1*	1*	0*	0*	1*	0*	1*
Calhoun	9	9	0	0	9	8	1
Carroll	19	14	5	5	14	17	2
Cass	21	18	3	3	18	20	1
Cedar	17	15	2	2	15	13	3
Cerro Gordo*	124*	95*	29*	27*	97*	111*	8*
Cherokee	17	14	3	1	16	17	0
Chickasaw*	1*	1*	0*	0*	1*	1*	0*
Clarke	9	9	0	0	9	8	1
Clay	18	17	1	1	17	17	1
Clayton*	3*	2*	1*	1*	2*	1*	2*
Clinton*	7*	6*	1*	1*	6*	6*	1*
Crawford*	34*	30*	4*	4*	30*	29*	4*
Dallas*	27*	21*	6*	6*	21*	12*	13*
Davis*	0*	0*	0*	0*	0*	0*	0*
Decatur*	0*	0*	0*	0*	0*	0*	0*
Delaware*	1*	1*	0*	0*	1*	1*	0*
Des Moines	203	163	40	50	165	170	31
Dickinson*	0*	0*	0*	0*	0*	0*	0*
Dubuque	326	261	65	69	262	200	114
Emmet	19	17	2	2	17	16	3
Fayette*	31*	23*	8*	5*	26*	3*	28*
Floyd	18	15	3	3	15	12	6
Franklin*	3*	2*	1*	1*	2*	2*	0*
Fremont*	0*	0*	0*	0*	0*	0*	0*
Greene*	4*	2*	2*	2*	2*	1*	3*
Grundy	9	9	0	0	9	9	0
Guthrie	1	1	0	0	1	0	1
Hamilton	12	11	1	2	11	11	1
Hancock	7	7	0	0	7	4	3
Hardin	30	25	5	5	25	23	7
Harrison	25	22	3	4	22	21	4
Henry	23	17	6	7	17	20	1
Howard	13	9	4	4	9	13	0
Humboldt	9	9	0	0	9	9	0
Ida	0	0	0	0	0	0	0
Iowa*	1*	1*	0*	0*	1*	1*	0*
Jackson	0	0	0	0	0	0	0
Jasper*	7*	5*	2*	1*	6*	3*	4*

\*While underreporting could occur in any county, either reports were not received or insufficient data were provided for at least one jurisdiction in these counties.

Table 1. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1999 (continued).

County	Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No
Jefferson	36	28	8	10	27	33	3
Johnson	225	188	37	35	194	183	35
Jones	27	25	2	2	25	18	9
Keokuk	11	10	1	1	10	11	0
Kossuth	23	20	3	3	20	16	5
Lee*	120*	98*	22*	25*	100*	110*	3*
Linn*	750*	586*	164*	155*	599*	615*	133*
Louisa	29	25	4	4	23	26	1
Lucas	6	6	0	0	6	3	3
Lyon	11	10	1	1	10	0	10
Madison*	4*	4*	0*	0*	4*	2*	2*
Mahaska	0	0	0	0	0	0	0
Marion	70	54	16	15	56	59	10
Marshall	174	147	27	29	146	155	16
Mills*	0*	0*	0*	0*	0*	0*	0*
Mitchell	9	5	4	4	5	8	1
Monona	27	23	4	4	23	21	6
Monroe*	23*	15*	8*	8*	15*	15*	7*
Montgomery*	25*	25*	0*	2*	25*	22*	3*
Muscatine*	146*	128*	18*	22*	129*	139*	7*
O'Brien	19	12	7	4	16	17	2
Osceola	10	8	2	1	9	10	0
Page*	37*	33*	4*	2*	34*	27*	9*
Palo Alto	21	18	3	3	18	10	9
Plymouth	21	17	4	4	18	19	1
Pocahontas	6	6	0	0	6	4	2
Polk*	1229*	1037*	192*	195*	1044*	737*	464*
Pottawattamie*	497*	410*	87*	87*	418*	373*	104*
Poweshiek	17	13	4	4	13	4	12
Ringgold*	0*	0*	0*	0*	0*	0*	0*
Sac	17	14	3	3	14	14	3
Scott	798	656	142	163	671	432	314
Shelby*	8*	8*	0*	0*	8*	0*	8*
Sioux*	5*	4*	1*	1*	4*	3*	1*
Story	68	57	11	10	60	49	16
Tama*	28*	23*	5*	6*	27*	18*	10*
Taylor	1	1	0	0	1	1	0
Union*	1*	1*	0*	0*	1*	0*	1*
Van Buren	6	5	1	1	5	5	1
Wapello	98	84	14	13	85	66	28
Warren*	54*	43*	11*	12*	42*	34*	19*
Washington*	0*	0*	0*	0*	0*	0*	0*
Wayne	8	8	0	0	8	8	0
Webster	40	32	8	8	32	30	10
Winnebago*	14*	10*	4*	1*	13*	11*	2*
Winneshiek	20	17	3	3	17	20	0
Woodbury	581	499	82	83	499	449	102
Worth	6	6	0	0	6	6	0
Wright	12	12	0	0	12	9	3
State of Iowa*	6963*	5773*	1190*	1208*	5870*	5004*	1774*

Table 2. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1997 and 1998.

County	1998							1997						
	Cases	Victims		Offenders		Arrests		Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No		Female	Male	Female	Male	Yes	No
Adair	1	1	0	0	1	1	0	3	2	1	1	2	2	1
Adams	2	2	0	0	2	1	1	5	4	1	1	4	5	0
Allamakee*	1*	1*	0*	0*	1*	1*	0*	0*	0*	0*	0*	0*	0*	0*
Appanoose	42	38	4	5	39	24	18	45	39	6	7	40	30	12
Audubon*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Benton*	20*	17*	3*	3*	17*	20*	0*	31*	27*	4*	2*	29*	29*	2*
Black Hawk*	368	317	51	63	326	277	91	460*	409*	51*	78*	425*	330*	136*
Boone	58	46	12	11	48	47	9	73	57	16	14	60	51	14
Bremer	21	19	2	2	19	17	2	10	8	2	2	8	8	2
Buchanan	8	7	1	2	7	7	1	12	11	1	3	11	9	3
Buena Vista	67	53	14	12	55	57	8	79	62	17	17	62	69	8
Butler	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calhoun	29	23	6	6	23	24	5	20	17	3	2	18	18	2
Carroll	15	15	0	3	15	11	4	12	12	0	1	12	0	12
Cass	12	11	1	2	10	5	6	10	8	2	2	8	6	4
Cedar	10	9	1	1	9	7	3	24	19	5	5	19	16	5
Cerro Gordo*	108*	88*	20*	19*	90*	90*	14*	175	146	29	31	147	143	20
Cherokee	33	30	3	3	30	32	1	21	19	2	4	17	20	1
Chickasaw*	2*	2*	0*	0*	2*	2*	0*	6*	5*	1*	1*	5*	4*	2*
Clarke	4	3	1	1	3	3	1	9	9	0	0	9	6	3
Clay	29	24	5	6	24	26	2	48	41	7	5	43	44	2
Clayton*	1*	1*	0*	0*	1*	1*	0*	4*	4*	0*	0*	4*	2*	2*
Clinton*	16*	10*	6*	6*	10*	16*	0*	14*	12*	2*	2*	12*	14*	0*
Crawford*	36*	31*	5*	5*	31*	30*	3*	40	33	7	6	33	32	3
Dallas	23	21	2	2	21	9	13	46	38	8	11	39	19	27
Davis	1	1	0	0	1	1	0	3	3	0	0	3	0	3
Decatur*	0*	0*	0*	0*	0*	0*	0*	1*	1*	0*	0*	1*	0*	1*
Delaware*	4*	4*	0*	0*	4*	4*	0*	1*	1*	0*	0*	1*	1*	0*
Des Moines	177	134	43	45	148	140	35	157	128	29	49	122	87	70
Dickinson*	0*	0*	0*	0*	0*	0*	0*	1*	1*	0*	0*	1*	1*	0*
Dubuque	375	285	90	86	290	239	120	416	306	110	101	316	272	111
Emmet*	12	12	0	0	12	10	2	19*	17*	2*	1*	18*	17*	2*
Fayette*	33*	27*	6*	5*	28*	5*	28*	41	36	5	4	37	8	33
Floyd*	27*	23*	4*	3*	22*	11*	14*	7*	5*	2*	2*	5*	4*	3*
Franklin*	8*	8*	0*	0*	9*	8*	0*	3*	3*	0*	0*	3*	3*	0*
Fremont*	11*	9*	2*	2*	9*	0*	11*	0*	0*	0*	0*	0*	0*	0*
Greene*	5*	3*	2*	1*	4*	1*	4*	9*	9*	0*	0*	9*	6*	3*
Grundy	8	6	2	2	6	8	0	9	7	2	2	7	8	0
Guthrie	2	2	0	0	2	0	2	2	2	0	0	2	0	2
Hamilton	8	8	0	1	8	8	0	10	7	3	4	8	9	1
Hancock	10	10	0	0	10	9	1	12	12	0	0	12	9	3
Hardin	20	18	2	2	18	11	9	23	20	3	3	20	16	7
Harrison	33	30	3	3	30	21	10	17	14	3	3	14	14	1
Henry	34	23	11	11	23	30	1	50	31	19	16	33	37	5
Howard	28	19	9	10	18	28	0	10	6	4	4	6	10	0
Humboldt	12	12	0	0	12	11	1	10	10	0	1	9	10	0
Ida	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iowa*	4*	4*	0*	0*	4*	4*	0*	9	9	0	0	9	6	3
Jackson	5	5	0	1	5	5	0	8	8	0	1	8	8	0
Jasper*	15*	13*	2*	2*	14*	10*	5*	60	56	4	5	58	44	16

\*While underreporting could occur in any county, either reports were not received or insufficient data were provided for at least one jurisdiction in these counties.

Table 2. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1997 and 1998  
(continued).

County	1998							1997						
	Cases	Victims		Offenders		Arrests		Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No		Female	Male	Female	Male	Yes	No
Jefferson	30	20	10	10	20	25	2	26	18	8	8	18	22	4
Johnson*	242	212	30	30	212	209	27	198*	163*	35*	39*	162*	160*	28*
Jones*	28*	24*	4*	3*	25*	21*	6*	10*	8*	2*	1*	9*	7*	2*
Keokuk	7	6	1	1	6	6	1	7	6	1	1	6	5	1
Kossuth	9	8	1	1	8	9	2	12	10	2	3	9	10	0
Lee	139	110	29	28	114	120	11	167	122	45	49	122	136	10
Linn*	60*	44*	16*	12*	50*	45*	10*	64*	50*	14*	14*	50*	58*	3*
Louisa	23	19	4	4	19	20	3	19	19	0	1	18	14	5
Lucas	4	2	2	2	2	3	1	8	7	1	0	8	2	6
Lyon	3	3	0	0	3	2	1	2	1	1	1	1	1	1
Madison*	4	3	1	1	3	1	2	3*	3*	0*	0*	3*	0*	3*
Mahaska	1	1	0	0	1	0	1	20	16	4	5	15	19	1
Marion	61	51	10	10	51	61	0	84	74	10	9	76	76	7
Marshall*	158*	138*	20*	24*	133*	142*	9*	185	165	20	20	167	161	13
Mills*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Mitchell	8	8	0	0	8	8	0	14	10	4	4	10	14	0
Monona	45	34	11	12	33	35	4	75	61	14	14	61	56	11
Monroe*	4	3	1	1	3	1	2	0*	0*	0*	0*	0*	0*	0*
Montgomery*	59*	46*	13*	17*	45*	29*	26*	63*	46*	17*	19*	48*	27*	33*
Muscatine	231	190	41	43	196	211	17	184	156	28	32	157	163	19
O'Brien	17	16	1	2	16	13	4	24	20	4	4	21	17	7
Osceola	6	6	0	0	6	6	0	9	6	3	1	8	7	0
Page*	34	28	6	7	28	23	10	49*	40*	9*	8*	41*	35*	14*
Palo Alto*	14	12	2	2	12	10	4	5*	4*	1*	1*	4*	5*	0*
Plymouth	25	23	2	4	22	22	2	39	36	3	5	33	26	10
Pocahontas	7	6	1	0	7	4	3	9	8	1	1	8	7	2
Polk*	1249	1081	168	179	1088	767	476	1320*	1113*	207*	207*	1129*	929*	380*
Pottawattamie*	525*	447*	78*	80*	455*	355*	143*	16*	14*	2*	2*	14*	9*	7*
Poweshiek*	13*	10*	3*	3*	10*	4*	8*	15*	12*	3*	3*	12*	1*	14*
Ringgold	2	1	1	1	1	0	2	0	0	0	0	0	0	0
Sac	10	10	0	1	9	7	3	13	9	4	4	9	13	0
Scott	709	555	154	163	578	356	296	717	589	128	141	607	395	289
Shelby*	11*	9*	2*	2*	9*	1*	9*	1*	1*	0*	0*	1*	1*	0*
Sioux*	12*	10*	2*	2*	10*	9*	2*	10*	9*	1*	1*	9*	8*	1*
Story	56	44	12	11	45	44	11	82	63	19	19	63	70	8
Tama*	32*	28*	4*	6*	29*	22*	10*	32*	29*	3*	4*	29*	20*	12*
Taylor	1	1	0	0	1	1	0	7	7	0	0	7	4	3
Union*	5*	4*	1*	2*	3*	1*	4*	7*	7*	0*	0*	7*	2*	5*
Van Buren	18	15	3	2	16	18	0	21	15	6	6	16	6	15
Wapello	23	21	2	2	21	17	4	52	48	4	6	46	48	2
Warren*	53	40	13	12	43	33	20	68*	53*	15*	13*	55*	49*	14*
Washington*	26	17	9	7	19	17	9	3*	3*	0*	0*	3*	1*	2*
Wayne	9	8	1	1	8	9	0	15	13	2	2	13	15	0
Webster	31	24	7	6	25	23	8	24	22	2	1	23	0	24
Winnebago*	4*	3*	1*	1*	3*	4*	0*	4*	2*	2*	2*	2*	3*	1*
Winneshiek	20	20	0	1	19	20	0	6	6	0	0	6	6	0
Woodbury*	640	525	115	111	535	492	106	726*	612*	114*	114*	612*	553*	137*
Worth	14	12	2	2	12	8	4	18	13	5	4	14	16	0
Wright	12	9	3	3	9	8	4	19	17	2	2	17	18	1
State of Iowa*	6432*	5332*	1100*	1138*	5432*	4514*	1692*	6477*	5380*	1097*	1162*	5458*	4622*	1620*

Table 3. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1995 and 1996.

County	1996							1995						
	Cases	Victims		Offenders		Arrests		Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No		Female	Male	Female	Male	Yes	No
Adair	1	1	0	0	1	1	0	3	3	0	0	3	3	0
Adams	1	0	1	1	0	1	0	15	13	2	2	13	13	2
Allamakee*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Appanoose	71	56	15	17	56	44	23	66	48	18	18	49	44	18
Audubon*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Benton*	29*	25*	4*	4*	25*	28*	1*	48*	40*	8*	8*	40*	48*	0*
Black Hawk*	427*	374*	53*	84*	392*	315*	112*	510	440	70	101	461	298	211
Boone	55	49	6	7	48	40	14	77	60	17	17	61	56	13
Bremer	10	10	0	0	10	9	1	8	7	1	1	7	8	0
Buchanan	3	3	0	0	3	3	0	23	19	4	4	20	15	8
Buena Vista	55	48	7	6	49	42	13	43	38	5	5	38	34	8
Butler	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calhoun	24	19	5	4	20	24	0	19	18	1	1	18	13	6
Carroll	8	6	2	3	6	3	5	26	21	5	6	22	12	14
Cass	29	28	1	1	28	25	4	26	23	3	2	24	18	8
Cedar*	23*	21*	2*	4*	19*	19*	2*	20	16	4	4	16	18	1
Cerro Gordo	159	133	26	27	137	138	14	197	166	31	29	167	172	12
Cherokee	31	28	3	3	28	31	0	31	27	4	4	27	31	0
Chickasaw*	6*	4*	2*	2*	4*	6*	0*	7	7	0	0	7	2	5
Clarke	14	12	2	2	12	10	4	9	9	0	0	9	5	4
Clay	46	39	7	6	40	42	0	24	18	6	4	20	19	4
Clayton	28	19	9	8	20	15	12	24	22	2	2	22	15	8
Clinton*	9*	8*	1*	0*	9*	8*	1*	18*	12*	6*	6*	12*	13*	5*
Crawford	19	16	3	3	16	15	3	50	40	10	9	41	39	9
Dallas	32	29	3	2	30	14	17	37	31	6	3	32	25	9
Davis	17	17	0	0	17	11	6	11	9	2	1	10	10	1
Decatur*	1*	1*	0*	0*	1*	1*	0*	6*	4*	2*	1*	5*	4*	2*
Delaware	6	5	1	1	5	5	0	11	9	2	2	9	8	2
Des Moines	107	86	21	22	91	85	22	98	78	20	18	75	58	32
Dickinson*	0*	0*	0*	0*	0*	0*	0*	14*	12*	2*	3*	11*	10*	4*
Dubuque	377	288	89	88	291	228	125	81	62	19	19	62	43	38
Emmet	20	17	3	3	17	20	0	28	21	7	7	21	22	6
Fayette*	47	45	2	3	45	18	29	26*	22*	4*	4*	22*	19*	6*
Floyd	15	13	2	2	14	11	4	63	50	13	12	51	39	18
Franklin*	9*	6*	3*	1*	8*	6*	1*	13*	9*	4*	3*	10*	11*	0*
Fremont*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Greene*	6*	5*	1*	1*	5*	4*	1*	5*	4*	1*	1*	4*	2*	3*
Grundy*	5*	5*	0*	0*	5*	5*	0*	8*	6*	2*	2*	6*	8*	0*
Guthrie	0	0	0	0	0	0	0	7	6	1	1	6	0	7
Hamilton	19	16	3	5	16	16	3	27	24	3	4	24	20	7
Hancock	10	9	1	1	9	9	1	11	7	4	4	7	8	3
Hardin	43	36	7	8	36	22	21	35	32	3	2	33	32	3
Harrison*	0*	0*	0*	0*	0*	0*	0*	0	0	0	0	0	0	0
Henry	49	38	11	11	38	43	0	58	43	15	14	44	46	2
Howard	13	9	4	3	10	11	2	8	7	1	1	7	7	1
Humboldt*	9*	8*	1*	1*	8*	9*	0*	2*	2*	0*	0*	2*	0*	2*
Ida	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iowa	14	12	2	2	12	11	3	11	11	0	0	11	9	2
Jackson	0	0	0	0	0	0	0	3	2	1	2	2	3	0
Jasper	61	55	6	6	58	50	11	77	66	11	13	67	62	15

\*While underreporting could occur in any county, either reports were not received or insufficient data were provided for at least one jurisdiction in these counties.



Table 3. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1995 and 1996  
(continued).

County	1996							1995						
	Cases	Victims		Offenders		Arrests		Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No		Female	Male	Female	Male	Yes	No
Jefferson	30	22	8	8	22	21	6	33	22	11	11	22	23	5
Johnson*	204	180	24	25	180	166	29	164*	145*	19*	21*	145*	149*	12*
Jones*	10*	7*	3*	2*	8*	6*	4*	23	18	5	5	18	14	8
Keokuk	15	13	2	3	14	12	1	28	20	8	10	21	20	0
Kossuth	9	8	1	1	8	9	0	26	23	3	2	24	19	5
Lee*	225	166	59	61	172	172	26	72*	65*	7*	8*	64*	50*	19*
Linn*	66*	56*	10*	8*	57*	51*	9*	64*	52*	12*	14*	50*	47*	10*
Louise	24	23	1	1	23	23	1	29	27	2	2	28	24	5
Lucas	9	8	1	1	8	6	3	13	12	1	1	12	9	3
Lyon	5	5	0	0	5	3	2	2	2	0	0	2	2	0
Madison*	1*	1*	0*	0*	1*	0*	1*	8	8	0	0	8	4	4
Mahaska	43	35	8	10	35	38	5	91	69	22	21	75	84	7
Marion*	52*	43*	9*	9*	43*	44*	5*	59*	51*	8*	9*	50*	47*	9*
Marshall	194	157	37	39	155	155	25	235	200	35	34	202	192	35
Mills*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Mitchell	10	9	1	1	9	6	3	13	11	2	2	11	11	0
Monona	47	36	11	12	35	32	9	50	43	7	7	44	33	14
Monroe*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Montgomery*	49*	36*	13*	12*	37*	25*	20*	67*	55*	12*	15*	54*	30*	33*
Muscatine	157	137	20	20	137	128	29	173	156	17	18	159	155	18
O'Brien	16	14	2	2	15	13	3	21	16	5	5	16	17	3
Osceola	10	9	1	1	9	9	0	10	8	2	1	9	10	0
Page*	37*	29*	8*	8*	30*	22*	12*	43	36	7	7	36	25	16
Palo Alto*	1*	1*	0*	0*	1*	1*	0*	2	2	0	0	2	2	0
Plymouth	35	27	8	5	28	25	6	47	38	9	6	40	32	14
Pocahontas	1	1	0	0	1	1	0	10	9	1	1	8	7	1
Polk*	1250*	1070*	180*	187*	1082*	880*	365*	1654	1419	235	249	1428	1087	563
Pottawattamie*	0*	0*	0*	0*	0*	0*	0*	18*	16*	2*	2*	16*	8*	10*
Poweshiek*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Ringgold	0	0	0	0	0	0	0	1	1	0	0	1	1	0
Sac	14	14	0	1	13	14	0	4	4	0	0	4	4	0
Scott	682	560	122	135	571	379	256	640	529	111	123	537	356	245
Shelby*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Sioux*	4*	4*	0*	0*	4*	3*	1*	8*	7*	1*	3*	5*	7*	0*
Story	80	60	20	18	63	64	10	123	98	25	22	101	94	15
Tama*	33*	29*	4*	3*	30*	19*	14*	33*	31*	2*	3*	32*	24*	9*
Taylor	12	11	1	1	11	7	5	11	10	1	2	9	6	5
Union*	8*	8*	0*	0*	8*	1*	7*	2*	2*	0*	0*	2*	1*	1*
Van Buren*	6*	4*	2*	2*	4*	1*	5*	5	3	2	2	3	0	5
Wapello	58	54	4	3	55	54	3	42	36	6	7	35	27	10
Warren*	74	56	18	18	57	55	16	116*	98*	18*	18*	96*	86*	22*
Washington*	2*	1*	1*	1*	1*	2*	0*	2*	1*	1*	0*	2*	1*	1*
Wayne	18	14	4	4	14	14	4	12	11	1	1	11	9	3
Webster	3	3	0	0	3	0	3	13	12	1	1	12	0	13
Winnebago	11	10	1	1	10	8	3	10	7	3	2	8	8	2
Winneshiek	14	13	1	1	13	13	1	16	14	2	1	15	13	3
Woodbury*	711*	574*	137*	142*	575*	536*	119*	858*	708*	150*	142*	719*	584*	223*
Worth*	4*	4*	0*	0*	4*	4*	0*	16	15	1	1	15	12	4
Wright	21	19	2	2	19	15	6	37	27	10	10	27	33	3
State of Iowa*	6163*	5130*	1033*	1090*	5209*	4435*	1472*	6788*	5701*	1087*	1129*	5776*	4689*	1857*

Table 4. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1993 and 1994.

County	1994							1993						
	Cases	Victims		Offenders		Arrests		Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No		Female	Male	Female	Male	Yes	No
Adair	4	3	1	1	3	2	1	5	4	1	1	4	3	2
Adams	2	2	0	0	2	2	0	4	3	1	1	3	4	0
Allamakee*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Appanoose	35	25	10	11	26	26	4	53	36	17	14	39	34	10
Audubon*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Benton*	38*	34*	4*	4*	34*	35*	3*	43*	36*	7*	7*	36*	39*	4*
Black Hawk	428	379	49	77	386	221	206	458	390	68	86	417	94	363
Boone	80	71	9	9	71	75	3	59	51	8	9	50	44	13
Bremer	13	12	1	1	12	9	4	7	7	0	0	7	6	1
Buchanan	13	10	3	4	12	12	1	10	9	1	1	9	8	2
Buena Vista	47	40	7	6	41	36	8	41	37	4	2	40	35	6
Butler	2	2	0	0	2	1	1	9	7	2	2	8	5	4
Calhoun	17	15	2	3	14	8	9	27	19	8	6	21	24	3
Carroll	33	29	4	2	31	7	26	21	19	2	1	20	4	17
Cass	36	32	4	4	32	28	8	21	19	2	2	19	18	3
Cedar*	24*	18*	6*	6*	18*	22*	1*	27	25	2	2	25	25	1
Cerro Gordo	144	128	16	17	129	134	4	111	94	17	19	94	86	10
Cherokee	32	31	1	1	31	30	1	22	18	4	4	18	22	0
Chickasaw	12	9	3	3	9	8	4	14	12	2	2	12	3	11
Clarke*	18*	16*	2*	1*	17*	16*	2*	11	9	2	0	11	6	5
Clay	27	26	1	1	26	10	16	12	10	2	2	10	6	5
Clayton	16	11	5	4	12	14	2	8	8	0	0	8	3	5
Clinton*	16*	15*	1*	1*	15*	15*	1*	13*	10*	3*	1*	12*	12*	1*
Crawford	28	23	5	4	25	19	9	23	19	4	3	20	12	11
Dallas*	52*	38*	14*	14*	38*	42*	3*	41*	33*	8*	7*	33*	38*	0*
Davis	11	9	2	2	9	9	1	9	7	2	1	8	8	1
Decatur*	5*	5*	0*	0*	5*	4*	1*	6	6	0	0	6	5	1
Delaware	12	9	3	3	9	8	1	12	10	2	2	10	8	2
Des Moines*	43*	40*	3*	5*	38*	20*	21*	50	39	11	11	39	46	4
Dickinson	14	11	3	3	11	8	5	20	20	0	0	20	12	8
Dubuque*	9*	8*	1*	1*	8*	8*	1*	8*	6*	2*	2*	6*	7*	0*
Emmet	9	8	1	0	9	8	1	15	12	3	3	12	8	7
Fayette*	15*	12*	3*	3*	12*	11*	1*	12*	10*	2*	2*	10*	8*	4*
Floyd	50	43	7	5	42	30	15	40	35	5	5	35	30	7
Franklin	16	12	4	4	12	12	0	9	6	3	3	6	5	1
Fremont*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Greene*	2*	2*	0*	0*	2*	0*	2*	6*	6*	0*	0*	6*	6*	0*
Grundy	8	7	1	1	7	7	1	6	5	1	1	5	6	0
Guthrie	3	3	0	0	3	0	3	11	10	1	1	10	1	10
Hamilton	29	26	3	3	27	25	4	31	30	1	3	30	28	3
Hancock	5	5	0	0	5	5	0	8	6	2	2	6	3	3
Hardin	35	31	4	3	34	30	5	36	31	5	10	27	28	8
Harrison	0	0	0	0	0	0	0	10	10	0	0	10	10	0
Henry	28	20	8	8	20	24	0	37	31	6	6	32	26	7
Howard	6	5	1	1	5	6	0	6	6	0	0	6	5	1
Humboldt*	9*	7*	2*	2*	7*	1*	8*	2*	2*	0*	0*	2*	0*	2*
Ida*	9	5	4	2	7	8	0	0*	0*	0*	0*	0*	0*	0*
Iowa	9	8	1	1	8	8	1	4	4	0	0	4	4	0
Jackson	10	10	0	1	10	9	1	30	25	5	5	25	24	6
Jasper	57	46	11	13	51	38	19	61	51	10	11	52	25	35

\*While underreporting could occur in any county, either reports were not received or insufficient data were provided for at least one jurisdiction in these counties.

Table 4. Domestic Abuse Cases, Victims, Offenders, and Arrests in Iowa's Counties, 1993 and 1994  
(continued).

County	1994							1993						
	Cases	Victims		Offenders		Arrests		Cases	Victims		Offenders		Arrests	
		Female	Male	Female	Male	Yes	No		Female	Male	Female	Male	Yes	No
Jefferson	36	29	7	7	29	21	12	53	46	7	7	46	34	19
Johnson*	126*	103*	23*	23*	104*	105*	15*	27*	24*	3*	3*	24*	22*	5*
Jones	33	31	2	3	30	27	4	32	30	2	2	30	24	6
Keokuk	9	7	2	1	8	8	1	33	31	2	3	30	25	8
Kossuth	24	20	4	4	20	19	2	24	23	1	2	23	17	7
Lee*	182	137	45	45	137	140	21	45*	39*	6*	7*	38*	42*	3*
Linn*	49*	41*	8*	9*	39*	38*	5*	84*	67*	17*	16*	66*	54*	20*
Louisa	30	28	2	2	28	26	2	32	28	4	3	29	30	2
Lucas	12	10	2	2	10	10	1	5	4	1	1	4	2	2
Lyon	4	4	0	0	4	4	0	3	3	0	0	3	3	0
Madison	4	3	1	0	4	1	3	13	12	1	1	12	3	10
Mahaska	72	52	20	20	53	47	21	30	25	5	5	25	26	4
Marion*	41*	34*	7*	8*	33*	32*	9*	29*	24*	5*	5*	24*	21*	5*
Marshall	208	156	52	53	157	154	19	220	170	50	50	172	176	20
Mills*	0*	0*	0*	0*	0*	0*	0*	1*	1*	0*	0*	1*	1*	0*
Mitchell	6	4	2	0	6	5	1	4	4	0	1	3	3	1
Monona	23	21	2	3	20	16	6	38	31	7	7	31	23	11
Monroe*	0*	0*	0*	0*	0*	0*	0*	5*	4*	1*	1*	4*	4*	1*
Montgomery*	42*	36*	6*	8*	34*	18*	19*	56*	43*	13*	11*	44*	30*	21*
Muscatine	149	127	22	20	129	130	18	81	69	12	12	69	66	15
O'Brien	18	13	5	4	14	14	4	8	7	1	1	7	7	0
Osceola	15	13	2	2	13	12	1	9	6	3	2	7	6	1
Page*	31*	27*	4*	2*	29*	18*	12*	44	37	7	7	37	28	12
Palo Alto	7	6	1	1	6	7	0	6	4	2	2	4	6	0
Plymouth	18	17	1	4	14	13	5	13	10	3	3	10	10	3
Pocahontas	16	14	2	2	14	10	6	9	8	1	1	8	5	4
Polk*	1428	1261	167	175	1265	969	455	1095*	982*	113*	113*	987*	734*	357*
Pottawattamie*	4*	2*	2*	0*	4*	4*	0*	6*	4*	2*	2*	4*	4*	1*
Poweshiek*	15*	13*	2*	1*	14*	14*	0*	22	21	1	1	20	16	5
Ringgold*	0*	0*	0*	0*	0*	0*	0*	0	0	0	0	0	0	0
Sac*	8*	8*	0*	0*	8*	8*	0*	6	6	0	0	6	6	0
Scott	608	502	106	117	509	321	245	527	448	79	90	452	264	227
Shelby*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Sioux*	5*	5*	0*	0*	5*	5*	0*	11*	11*	0*	0*	11*	8*	3*
Story	112	89	23	27	86	91	9	84	74	10	9	75	69	13
Tama	16	15	1	1	15	13	2	24	21	3	2	22	16	7
Taylor	12	11	1	1	11	10	2	8	7	1	1	7	8	0
Union*	4*	3*	1*	1*	3*	3*	1*	9	9	0	0	9	6	3
Van Buren*	10*	8*	2*	1*	9*	3*	7*	20	16	4	3	16	12	6
Wapello*	33*	30*	3*	3*	30*	25*	7*	20*	20*	0*	0*	20*	20*	0*
Warren	55	44	11	11	43	43	10	75	64	11	6	69	64	10
Washington*	1*	1*	0*	0*	1*	1*	0*	1*	1*	0*	0*	1*	1*	0*
Wayne	13	11	2	2	11	8	3	6	5	1	1	5	5	1
Webster*	28*	27*	1*	3*	27*	10*	18*	143*	126*	17*	16*	127*	112*	29*
Winnebago	16	13	3	3	13	15	1	22	21	1	1	21	15	7
Winneshiek	19	18	1	1	18	18	0	11	10	1	1	10	9	2
Woodbury*	674*	566*	108*	115*	568*	472*	155*	656	557	99	101	562	437	182
Worth	15	13	2	2	13	11	3	17	13	4	4	13	14	3
Wright	27	23	4	4	23	23	3	22	18	4	3	19	20	0
State of Iowa*	5769*	4897*	872*	926*	4938*	3993*	1516*	5158*	4427*	731*	747*	4490*	3342*	1623*

agencies submitting information to the state is improving, but variations in reporting practices suggest that caution be taken in drawing conclusions from these data.

1999: Reports not received from 13 jurisdictions (Belle Plaine, Clinton, Coggon, Glenwood, Hiawatha, Newton, Palo, Rock Valley, Sioux Center, Spirit Lake, Washington, Waukon, and Winterset police departments). Reports deleted because of insufficient data from 35 jurisdictions (Carlisle, Clear Lake, Evansdale, Jefferson, New Hampton, Tama, Vinton, and West Liberty police departments and sheriff offices in Allamakee, Audubon, Butler, Chickasaw, Clayton, Clinton, Crawford, Dallas, Davis, Decatur, Delaware, Dickinson, Fayette, Franklin, Fremont, Iowa, Lee, Mills, Monroe, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Union, Washington, and Winnebago counties).

1998: Reports not received from 14 jurisdictions (Belle Plaine, Cedar Rapids, Clinton, Coggon, Glenwood, Hiawatha, Jefferson, Lamoni, Leon, Palo, Rock Valley, Sioux Center, Spirit Lake, and Waukon police departments). Reports deleted because of insufficient data from 30 jurisdictions (Carter Lake, Clear Lake, Grinnell, Guttenberg, Lake Mills, Newton, and Tama police departments and sheriff offices in Allamakee, Audubon, Chickasaw, Clayton, Clinton, Crawford, Dallas, Davis, Decatur, Delaware, Dickinson, Fayette, Floyd, Franklin, Iowa, Jones, Marshall, Mills, Montgomery, Pottawattamie, Shelby, Union, and Winnebago counties).

1997: Reports not received from 20 jurisdictions (Albia, Audubon, Belle Plaine, Cedar Rapids, Charles City, Evansdale, Glenwood, Grinnell, Hiawatha, Jefferson, Johnston, Lamoni, Rock Valley, Sergeant Bluff, Sioux Center, Tama, Washington, Waukon, and Winterset police departments and the University of Iowa Security Department). Reports deleted because of insufficient data from 26 jurisdictions (Clinton, Council Bluffs, Emmetsburg, Norwalk, and Spirit Lake police departments and sheriff offices in Allamakee, Chickasaw, Clayton, Clinton, Decatur, Delaware, Dickinson, Emmet, Floyd, Franklin, Fremont, Jones, Mills, Monroe, Montgomery, Page, Pottawattamie, Shelby, Union, Washington, and Winnebago counties).

1996: Reports not received from 18 jurisdictions (Audubon, Belle Plaine, Cedar Rapids, Clinton, Emmetsburg, Hiawatha, Glenwood, Grinnell, Jefferson, Missouri Valley, Rock Valley, Sergeant Bluff, Sioux Center, Tama, Washington, and Waukon police departments and the sheriff offices in Humboldt and Union counties). Reports deleted because of insufficient data from 31 jurisdictions (Albia, Council Bluffs, Evansdale, Grundy Center, Johnston, Knoxville, Lamoni, Spirit Lake, Tipton, and Winterset police departments and sheriff offices in Allamakee, Audubon, Chickasaw, Clinton, Decatur, Dickinson, Franklin, Fremont, Harrison, Jones, Madison, Mills, Monroe, Montgomery, Page, Pottawattamie, Poweshiek, Shelby, Van Buren, Washington, and Worth counties).

1995: Reports not received from 15 jurisdictions (Audubon, Belle Plaine, Cedar Rapids, Clinton, Grundy Center, Hiawatha, Jefferson, Lamoni, Norwalk, Rock Valley, Sioux Center, Tama, Washington, and Waukon police departments and the University of Iowa Department of Public Safety). Reports deleted because of insufficient data from 23 jurisdictions (Albia, Council Bluffs, Creston, Glenwood, Grinnell, Keokuk, Knoxville, Oelwein, Sergeant Bluff police departments and sheriff offices in Allamakee, Audubon, Clinton, Dickinson, Franklin, Fremont, Humboldt, Mills, Monroe, Montgomery, Pottawattamie, Shelby, Union, and Washington counties).

1994: Reports not received from 29 jurisdictions (Audubon, Belle Plaine, Burlington, Cedar Rapids, Clinton, Council Bluffs, Dubuque, Glenwood, Harlan, Hiawatha, Jefferson, Mt. Vernon, Oelwein, Palo, Rock Valley, Sioux Center, Washington, and Waukon police departments, the University of Iowa Department of Public Safety, and sheriff offices in Allamakee, Clarke, Clinton, Dubuque, Fremont, Humboldt, Mills, Montgomery, Shelby, and Washington counties). Reports deleted because of insufficient data from 18 jurisdictions (Albia, Grinnell, Knoxville, Lamoni, Ottumwa, Sac City, Sergeant Bluff, and Tipton police departments and sheriff offices in Audubon, Dallas, Decatur, Page, Pottawattamie, Poweshiek, Ringgold, Union, Van Buren, and Webster counties).

1993: Reports not received from 19 jurisdictions (Adel, Clinton, Coralville, Dubuque, Glenwood, Hiawatha, Keokuk, Jefferson, Mt. Vernon, Oelwein, Rock Valley, Sioux Center, Washington, and Waukon police departments, the University of Iowa Department of Public Safety, and sheriff offices in Allamakee, Dubuque, Fremont, and Montgomery counties). Reports deleted because of insufficient data from 20 jurisdictions (Albia, Audubon, Cedar Rapids, Council Bluffs, Belle Plaine, Harlan, Johnston, Knoxville, Iowa City, Marion, and Ottumwa police departments and sheriff offices in Audubon, Clinton, Humboldt, Ida, Mills, Pottawattamie, Shelby, Washington, and Webster counties).

## Serious Crimes Reported in Iowa's Counties: 1993-1999

Willis Goudy, Iowa State University  
 Sandra Charvat Burke, Iowa State University  
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The Iowa Department of Public Safety keeps statistical records on crimes reported in Iowa. Information on violent and property crimes is included here; these generally are the most serious offenses, those occurring with the greatest regularity, and those most frequently reported to law enforcement agencies. Included are murders, rapes, robberies, and aggravated assaults, which are counted as violent crimes, plus burglaries, larcenies, and motor vehicle thefts, which are tabulated as property crimes.

**Caution is urged in interpreting the numbers in the table for this section.** Readers of this annual county data book may recall that statistics on serious crimes were reported in this volume for the years 1986 through 1990 (see the 1992 edition). A new reporting format, called the Incident-Based Iowa Uniform Crime Reporting System, was implemented in 1991; as with any revised system, it takes some time for all units responsible for compiling figures to comply in a consistent fashion. That is why 1991 and 1992 were not included in previous editions of our county data book and are not included here. The number of law enforcement units reporting data has changed from one year to the next; estimates suggest that only two-thirds of the data were reported in 1993, for example. This remains a problem, although the magnitude of missing data has diminished somewhat. Still, comparisons of 1993-1999 numbers are not appropriate either for the state or for many counties. ***Jurisdictions not reporting or those providing insufficient data are listed on page 526. Counties in which this occurred are highlighted in Table 1; the numbers in this table may be underreported—minimally in some but undoubtedly grossly so in instances where jurisdictions with large populations were excluded.***

### Violent Crimes

Forty-eight murders, 818 rapes, 1,058 robberies, and 5,816 aggravated assaults were reported to the Iowa Department of Public Safety in 1999. These violent crimes totaled 7,740 that year (Table 1). At least 100 violent crimes occurred in 15 counties, with Scott (1,557) substantially higher than others. Violent crimes also exceeded 1,000 in Polk; from 500 to 999 occurred in Johnson, Pottawattamie, and Woodbury. Fewer than 10 violent crimes were reported in a majority (51) of Iowa's 99 counties. Caution must be repeated; underreporting occurred in some jurisdictions in the state.

### Property Crimes

Property crimes were both more numerous and more widely distributed throughout Iowa than were violent crimes; 15,391 burglaries, 58,936 larcenies, and 4,824 motor vehicle thefts were reported. The total of these property crimes was 79,151 in 1999 (Table 1). Sixteen counties had at least 1,000 property crimes in 1999, with the 16,069 reported in Polk more than twice the next highest figures (Linn, 7,555; Scott, 7,425). Fewer than 100 property crimes were reported in 31 counties, although yet another reminder is necessary that caution should be exercised in interpreting these numbers because of underreporting in some counties.

### Total Crime Index

The addition of serious and property crimes results in a total crime index. This total was about 86,900 in 1999 (Table 1). Polk's figure of 17,153 was nearly twice that of Scott (8,982). Black Hawk, Linn, Pottawattamie, and Woodbury were the only others in which the total crime index exceeded 5,000.

Table 1. Total Violent and Property Crimes and Total Crime Index in Iowa's Counties, 1993-1999.

County	Violent Crimes							Property Crimes							Total Crime Index						
	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993
Adair	3	0	4	3	3	4	2	68	59	70	63	72	56	71	71	59	74	66	75	60	73
Adams	4	6	8	6	11	3	10	57	57	72	57	76	74	54	61	63	80	63	87	77	64
Allamakee*	0*	1*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	1*	0*	0*	0*	0*	0*
Appanoose	49	33	24	58	28	33	52	530	621	593	578	568	401	415	579	654	617	636	596	434	467
Audubon*	5*	1*	6*	0*	0*	0*	0*	64*	66*	39*	9*	1*	0*	5*	69*	67*	45*	9*	1*	0*	5*
Benton*	3*	1*	12*	7*	6*	7*	13*	114*	195*	226*	264*	321*	213*	233*	117*	196*	238*	271*	327*	220*	246*
Black Hawk*	444*	475	544*	607*	580	498	550	5169*	5889	5961*	6361*	6929	5762	5683	5613*	6364	6505*	6968*	7509	6260	6233
Boone	16	30	23	6	11	15	26	413	519	579	478	621	604	504	429	549	602	484	632	619	530
Bremer	25	21	10	5	13	9	15	230	274	300	282	293	261	240	255	295	310	287	306	270	255
Buchanan	10	16	15	16	24	21	19	425	424	402	425	471	434	443	435	440	417	441	495	455	462
Buena Vista	32	36	22	22	24	19	23	467	581	569	597	599	557	467	499	617	591	619	623	576	490
Butler*	1*	5	0	3	7	7	5	22*	80	60	96	104	128	148	23*	85	60	99	111	135	153
Calhoun	5	5	8	4	7	6	4	173	219	290	213	185	239	145	178	224	298	217	192	245	149
Carroll	5	7	6	14	9	4	8	389	392	521	466	412	404	406	394	399	527	480	421	408	414
Cass	20	22	14	12	4	11	8	349	305	320	366	365	346	314	369	327	334	378	369	357	322
Cedar*	11	16	9	13*	11	17*	20	168	235	309	198*	259	254*	317	179	251	318	211*	270	271*	337
Cerro Gordo*	147*	223*	320	311	372	326	350	2504*	2353*	3074	2688	3006	2539	2860	2651*	2576*	3394	2999	3378	2865	3210
Cherokee	4	5	9	11	12	13	10	138	177	286	282	356	215	162	142	182	295	293	368	228	172
Chickasaw*	1*	2*	6*	0*	6	7	14	5*	43*	52*	49*	106	112	171	6*	45*	58*	49*	112	119	185
Clarke*	9	13	22	5	16	5*	7	183	269	311	269	305	166*	209	192	282	333	274	321	171*	216
Clay	5	6	4	10	7	6	5	302	333	349	356	383	224	280	307	339	353	366	390	230	285
Clayton*	0*	4*	2*	15	6	4	3	19*	5*	15*	149	126	119	104	19*	9*	17*	164	132	123	107
Clinton*	3*	3*	9*	5*	10*	8*	7*	167*	219*	307*	267*	348*	299*	311*	170*	222*	316*	272*	358*	307*	318*
Crawford*	11*	28*	9	9	20	5	3	137*	197*	231	233	231	166	171	148*	225*	240	242	251	171	174
Dallas*	43*	48	30	33	51	19*	11*	310*	392	674	643	826	639*	392*	353*	440	704	676	877	658*	403*
Davis*	0*	2	2	3	2	3	4	43*	62	134	155	161	141	101	43*	64	136	158	163	144	105
Decatur*	0*	0*	0*	3*	10*	8*	9	9*	0*	33*	66*	96*	73*	156	9*	0*	33*	69*	106*	81*	165
Delaware*	32*	23*	23*	11	15	25	13	112*	162*	137*	163	244	207	191	144*	185*	160*	174	259	232	204
Des Moines*	198	207	209	201	176	18*	35	1579	1840	2176	2833	2435	438*	954	1777	2047	2385	3034	2611	456*	989
Dickinson*	0*	0*	0*	0*	12*	9	23	0*	0*	0*	3*	180*	275	210	0*	0*	0*	3*	192*	284	233
Dubuque*	161	165	212	207	30	0*	3*	2134	2454	2511	2546	2081	44*	87*	2295	2619	2723	2753	2111	44*	90*
Emmet*	10	11	13*	7	6	5	6	240	232	268*	264	274	198	232	250	243	281*	271	280	203	238
Fayette*	3*	24*	27	18	12*	9*	8*	175*	203*	305	349	100*	118*	148*	178*	227*	332	367	112*	127*	156*

Table 1. Total Violent and Property Crimes and Total Crime Index in Iowa's Counties, 1993-1999 (continued).

County	Violent Crimes							Property Crimes							Total Crime Index						
	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993
Floyd	16	19*	12*	4	20	31	25	225	194*	202*	177	415	413	397	241	213*	214*	181	435	444	422
Franklin*	7*	3*	8*	0*	8*	4	3	115*	131*	229*	118*	154*	129	108	122*	134*	237*	118*	162*	133	111
Fremont*	0*	17*	0*	0*	0*	0*	0*	0*	59*	0*	0*	0*	0*	0*	0*	76*	0*	0*	0*	0*	0*
Greene*	0*	1*	2*	0*	2*	2*	5*	82*	64*	71*	56*	46*	44*	46*	82*	65*	73*	56*	48*	46*	51*
Grundy*	5	3	0	3*	0*	3	1	83	112	107	77*	95*	95	55	88	115	107	80*	95*	98	56
Guthrie	1	0	2	0	1	1	4	74	100	137	124	125	147	143	75	100	139	124	126	148	147
Hamilton	10	18	8	11	11	8	13	323	448	526	520	516	376	404	333	466	534	531	527	384	417
Hancock	7	4	4	10	7	7	4	118	131	114	108	96	67	64	125	135	118	118	103	74	68
Hardin	27	8	20	12	18	9	14	301	345	319	307	450	434	397	328	353	339	319	468	443	411
Harrison*	19	18	16	0*	2	5	3	241	260	305	1*	115	93	119	260	278	321	1*	117	98	122
Henry	36	34	51	52	57	41	53	315	323	416	527	533	460	464	351	357	467	579	590	501	517
Howard	9	10	8	5	2	9	8	151	164	122	189	147	141	73	160	174	130	194	149	150	81
Humboldt*	3	0	0	5*	3*	5*	2*	168	122	201	141*	123*	156*	52*	171	122	201	146*	126*	161*	54*
Ida*	0	0	0	1	0	5	0*	68	93	76	69	111	98	0*	68	93	76	70	111	103	0*
Iowa*	3*	11*	3	8	5	10	2	40*	68*	122	142	107	70	12	43*	79*	125	150	112	80	14
Jackson	3	1	2	6	5	7	11	307	397	435	442	404	334	414	310	398	437	448	409	341	425
Jasper*	15*	18*	28	17	34	26	21	183*	280*	1249	964	1152	694	709	198*	298*	1277	981	1186	720	730
Jefferson	28	42	43	34	37	32	26	544	533	459	549	551	571	555	572	575	502	583	588	603	581
Johnson*	526	565	487*	427	368*	332*	67*	3001	3384	2990*	4093	3478*	3150*	305*	3527	3949	3477*	4520	3846*	3482*	372*
Jones*	7	11*	7*	1*	9	6	9	299	195*	190*	181*	345	207	239	306	206*	197*	182*	354	213	248
Keokuk	5	3	5	3	9	6	5	99	69	82	120	176	204	199	104	72	87	123	185	210	204
Kossuth	22	10	11	18	18	13	13	205	193	249	250	226	210	204	227	203	260	268	244	223	217
Lee*	144*	147	171	192	26*	120	12*	1075*	1290	1254	1467	743*	1008	591*	1219*	1437	1425	1659	769*	1128	603*
Linn*	445*	101*	112*	103*	88*	81*	103*	7555*	1233*	1193*	1409*	1324*	1127*	778*	8000*	1334*	1305*	1512*	1412*	1208*	881*
Louisa	4	6	4	11	6	10	10	137	157	202	250	306	250	303	141	163	206	261	312	260	313
Lucas	7	10	22	18	18	7	4	213	247	521	301	302	266	77	220	257	543	319	320	273	81
Lyon	15	10	6	14	7	1	5	116	99	77	82	82	63	72	131	109	83	96	89	64	77
Madison*	4*	9	6*	4*	20	6	0	39*	143	96*	88*	230	202	125	43*	152	102*	92*	250	208	125
Mahaska	34	34	21	38	51	42	31	479	449	651	560	422	424	343	513	483	672	598	473	466	374
Marion*	65	48	51	25*	34*	25*	22*	484	449	600	487*	425*	371*	316*	549	497	651	512*	459*	396*	338*
Marshall*	245	292*	315	139	139	148	132	1273	1157*	1678	1534	1254	1372	1300	1518	1449*	1993	1673	1393	1520	1432
Mills*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*
Mitchell	3	3	2	3	4	6	8	85	90	79	66	104	89	200	88	93	81	69	108	95	208

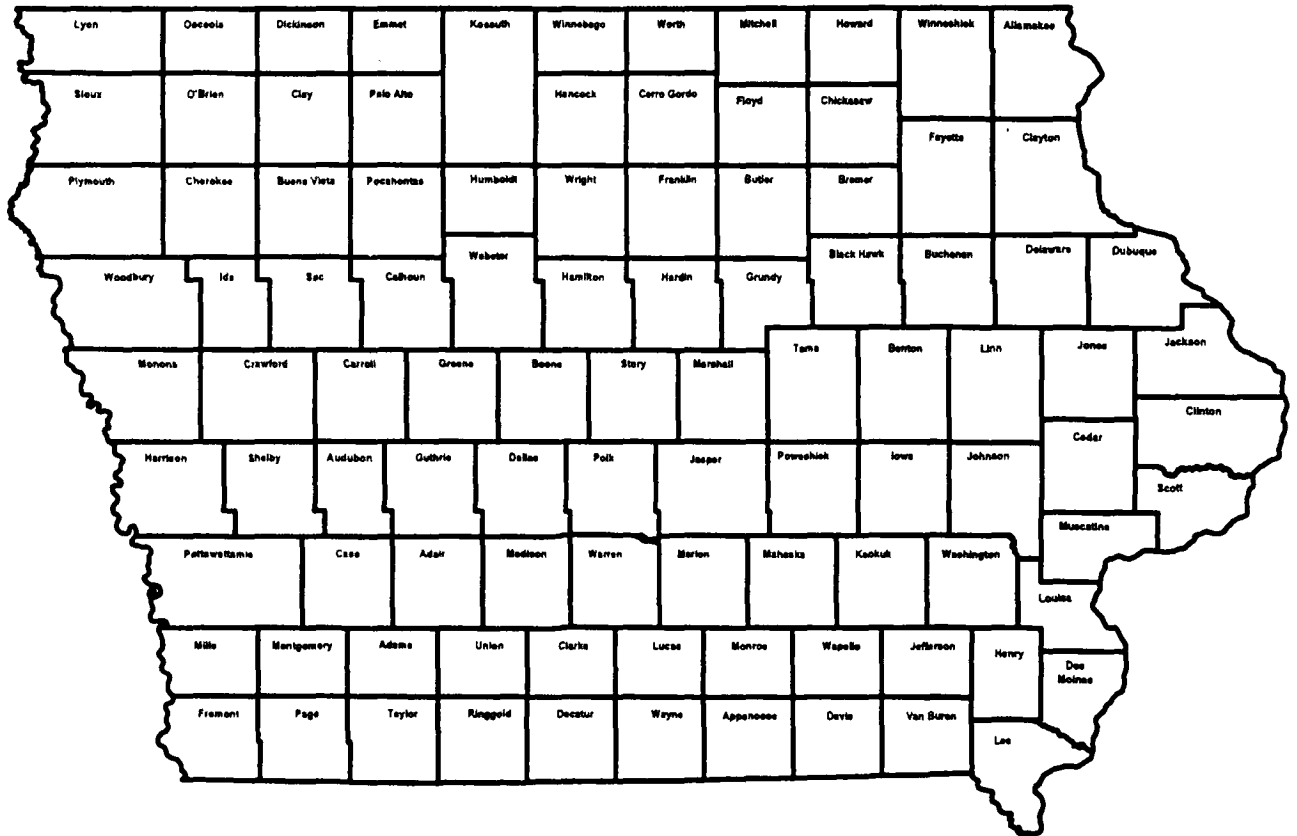
Table 1. Total Violent and Property Crimes and Total Crime Index in Iowa's Counties, 1993-1999 (continued).

County	Violent Crimes							Property Crimes							Total Crime Index						
	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993
Monona	19	21	29	19	27	31	21	246	270	288	344	318	250	286	265	291	317	363	345	281	307
Monroe*	28*	6	0*	0*	3*	1*	4*	89*	130	1*	0*	10*	39*	79*	117*	136	1*	0*	13*	40*	83*
Montgomery*	13*	24*	23*	22*	18*	17*	21*	109*	343*	448*	491*	471*	455*	414*	122*	367*	471*	513*	489*	472*	435*
Muscatine*	184*	181	142	131	158	141	71	1045*	1319	1376	1564	1529	1338	860	1229*	1500	1518	1695	1687	1479	931
O'Brien	6	12	18	12	8	14	8	169	262	297	256	229	234	247	175	274	315	268	237	248	255
Osceola	1	0	2	1	0	6	5	69	62	77	113	118	133	94	70	62	79	114	118	139	99
Page*	15*	27	34*	23*	27	12*	14	351*	439	472*	401*	406	359*	371	366*	466	506*	424*	433	371*	385
Palo Alto*	7	16	11*	2*	7	2	4	167	208	96*	92*	201	187	166	174	224	107*	94*	208	189	170
Plymouth	20	16	21	33	34	26	28	346	382	388	370	468	458	313	366	398	409	403	502	484	341
Pocahontas	0	1	1	1	2	0	3	34	40	44	59	74	75	117	34	41	45	60	76	75	120
Polk*	1084*	1288	1291*	1227*	1349	1141	1131*	16069*	18800	22224*	20189*	21262	18186	19054*	17153*	20088	23515*	21416*	22611	19327	20185*
Pottawattamie*	549*	429*	10*	0*	1*	4*	3*	4746*	4740*	109*	143*	162*	118*	118*	5295*	5169*	119*	143*	163*	122*	121*
Poweshiek*	11	8*	2*	0*	0*	3*	9	316	150*	153*	1*	198*	29*	155	327	158*	155*	1*	198*	32*	164
Ringgold*	0*	3	0	0	0	0*	0	3*	55	33	29	18	1*	36	3*	58	33	29	18	1*	36
Sac*	17	4	4	15	3	4*	4	119	106	163	151	91	84*	96	136	110	167	166	94	88*	100
Scott	1557	1532	1405	1595	1944	1799	1717	7425	7039	7509	8702	9338	8656	9032	8982	8571	8914	10297	11282	10455	10749
Shelby*	8*	23*	9*	14*	15*	0*	0*	83*	140*	129*	148*	131*	0*	0*	91*	163*	138*	162*	146*	0*	0*
Sioux*	8*	12*	11*	6*	8*	4*	9*	137*	180*	161*	160*	154*	145*	150*	145*	192*	172*	166*	162*	149*	159*
Story	77	56	65	61	81	95	102	2444	1871	2360	2531	2515	2672	2651	2521	1927	2425	2592	2596	2767	2753
Tama*	86*	67*	66*	48*	46*	33	29	207*	235*	260*	272*	268*	314	319	293*	302*	326*	320*	314*	347	348
Taylor	0	0	2	9	2	2	2	41	50	50	60	54	61	57	41	50	52	69	56	63	59
Union*	9*	9*	16*	7*	1*	7*	9	182*	221*	240*	182*	25*	201*	285	191*	230*	256*	189*	26*	208*	294
Van Buren*	3	5	7	0*	2	1*	4	78	112	133	50*	199	59*	159	81	117	140	50*	201	60*	163
Wapello*	134	105	72	98	65	51*	9*	1199	1051	1517	1465	1550	750*	144*	1333	1156	1589	1563	1615	801*	153*
Warren*	37*	42	48*	57	50*	35	51	712*	739	813*	897	952*	1014	911	749*	781	861*	954	1002*	1049	962
Washington*	0*	29	3*	2*	1*	0*	0*	0*	232	40*	42*	22*	0*	0*	0*	261	43*	44*	23*	0*	0*
Wayne	7	10	4	11	8	14	8	92	103	119	131	162	131	122	99	113	123	142	170	145	130
Webster*	157	198	181	171	193	149*	194*	2003	1929	2155	2201	1905	1278*	1352*	2160	2127	2336	2372	2098	1427*	1546*
Winnebago*	10*	8*	10*	11	19	20	26	74*	79*	46*	57	119	117	155	84*	87*	56*	68	138	137	181
Winneshiek	9	14	7	11	32	29	24	181	191	263	279	336	260	305	190	205	270	290	368	289	329
Woodbury*	701	673	685*	726*	1500*	1260*	1329	5050	6150	6279*	6604*	7068*	5769*	6361	5751	6823	6964*	7330*	8568*	7029*	7690
Worth*	4	12	15	3*	5	8	4	98	115	89	11*	95	42	59	102	127	104	14*	100	50	63
Wright	4	11	9	12	10	16	5	174	190	170	165	213	112	131	178	201	179	177	223	128	136
State of Iowa*	7740*	7737*	7232*	7117*	8138*	7057*	6730*	79151*	79769*	84628*	85327*	87752*	72498*	69847*	86891*	87506*	91860*	92444*	95890*	79555*	76577*



**Notes:** The figures examined in this report are from the IOWA UNIFORM CRIME REPORTS (Iowa Department of Public Safety, Wallace State Office Building, Des Moines, IA 50319) that are published annually. The record of agencies submitting information to the state is improving, but variations in reporting practices suggest that caution be taken in drawing conclusions from these data. See lists of jurisdictions not reporting or providing insufficient data in a note at the end of the section on domestic abuse included in this volume.

Four violent crimes are included in this report: murder (the willful nonnegligent killing of one human being by another), forcible rape (the carnal knowledge of a person, forcibly and/or against that person's will; or, not forcibly or against the person's will where the victim is incapable of giving consent because of her/his temporary or permanent mental or physical incapacity), robbery (taking, or attempting to take, anything of value under confrontational circumstances from the control, custody, or care of another person by force or threat of force or violence and/or by putting the victim in fear of immediate harm), and aggravated assault (an unlawful attack by one person upon another wherein the offender uses a weapon or displays it in a threatening manner, or the victim suffers obvious severe or aggravated bodily injury). Three property crimes are among these serious crimes: burglary (the unlawful entry into a building or other structure with the intent to commit a felony or a theft), larceny (the unlawful taking, carrying, leading, or riding away of property from the possession, or constructive possession, of another person), and motor vehicle theft (the theft of a motor vehicle).



## Arrests of Juveniles in Iowa's Counties: 1993-1999

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In addition to records on crimes reported in the state, the Iowa Department of Public Safety tracks the numbers arrested for committing these crimes. Arrests of juveniles (persons under the age of 18) are highlighted in this report.

**Caution is urged in interpreting the numbers in the table for this section.** Readers of this annual county data book may recall that statistics on juvenile arrests were reported in this volume for the years 1986 through 1990 (see the 1992 edition). A new reporting format, called the Incident-Based Iowa Uniform Crime Reporting System, was implemented in 1991; as with any revised system, it takes some time for all units responsible for compiling figures to comply in a consistent fashion. That is why 1991 and 1992 were not included in previous editions of our county data book and are not included here. The number of law enforcement units reporting data has changed from one year to the next; estimates suggest that only two-thirds of the data were reported in 1993, for example. This remains a problem, although the magnitude of missing data has diminished somewhat. Still, comparisons of 1993-1999 numbers are not appropriate either for the state or for many counties. ***Jurisdictions not reporting or those providing insufficient data are listed on page 526. Counties in which this occurred are highlighted in Table 1; the numbers in this table may be underreported—minimally in some but undoubtedly grossly so in instances where jurisdictions with large populations were excluded.***

### Arrests for Group A Crimes

The most serious offenses are called Group A crimes. In 1999, 13,042 arrests of juveniles were reported for crimes in this group (Table 1), which include murder, kidnapping, sexual assault, robbery, intimidation, arson, extortion/blackmail, theft by fraud, stolen property, incest, statutory rape, gambling, prostitution, aggravated assault, simple assault, burglary, larceny, motor vehicle theft, vandalism of property, and drug offenses. An individual juvenile may have been arrested for more than one crime; thus, the numbers in this report must be interpreted as the numbers of arrests and not the numbers of juveniles arrested. Arrests of juveniles for Group A crimes exceeded 500 in seven counties (Black Hawk, Johnson, Linn, Polk, Pottawattamie, Scott, Woodbury) in 1999. On the other hand, 13 others had from 1 through 9 juveniles arrested for these crimes that year. Caution must be repeated; underreporting occurred in some jurisdictions in the state.

### Arrests for Group B Crimes

Crimes not included in the Group A category are labeled Group B crimes. Arrests of juveniles for Group B crimes totaled 10,852 in 1999 (Table 1). These offenses included curfew/loitering, disorderly conduct, driving under the influence, drunkenness, liquor law violation, runaway, and trespassing, for example. Five counties (Dubuque, Polk, Pottawattamie, Scott, Woodbury) had at least 500 arrests for Group B crimes that year. Twenty other counties had 1-9 arrests, although yet another reminder is necessary that caution should be exercised in interpreting these numbers because of underreporting in some counties.

### Total Arrests

When arrests of juveniles for Group A and Group B crimes were added, nearly 24,000 occurred in 1999 (Table 1). Seven counties (Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, Woodbury)

Table 1. Juvenile Arrests for Total Group A and B Offenses and for Total Offenses in Iowa's Counties, 1993-1999.

County	Total Group A Offenses							Total Group B Offenses							Total (A+B) Arrests						
	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993
Adair	7	5	4	14	6	6	3	6	4	5	32	9	13	8	13	9	9	46	15	19	11
Adams	8	9	15	23	20	6	6	2	1	9	14	20	7	6	10	10	24	37	40	13	12
Allamakee*	0*	0*	0*	0*	0*	0*	0*	15*	8*	4*	1*	1*	3*	3*	15*	8*	4*	1*	1*	3*	3*
Appanoose	100	89	102	110	106	63	86	131	106	124	144	86	99	96	231	195	226	254	192	162	182
Audubon*	9*	6*	1*	0*	0*	0*	0*	1*	4*	5*	5*	5*	1*	3*	10*	10*	6*	5*	5*	1*	3*
Benton*	5*	11*	27*	22*	42*	30*	23*	4*	19*	17*	35*	24*	22*	22*	9*	30*	44*	57*	66*	52*	45*
Black Hawk*	839*	1015	1106*	1147*	872	748	337	481*	554	608*	461*	265	247	344	1320*	1569	1714*	1608*	1137	995	681
Boone	65	85	74	78	94	119	106	81	96	111	87	135	98	63	146	181	185	165	229	217	169
Bremer	61	51	69	66	71	49	42	53	80	55	60	82	76	34	114	131	124	126	153	125	76
Buchanan	116	162	124	100	62	88	96	35	39	33	26	21	38	49	151	201	157	126	83	126	145
Buena Vista	103	150	179	77	126	103	73	83	130	86	61	96	76	72	186	280	265	138	222	179	145
Butler*	0*	0	0	0	0	0	1	0*	2	3	6	9	10	53	0*	2	3	6	9	10	54
Calhoun	6	7	12	12	0	2	4	1	17	8	7	13	7	2	7	24	20	19	13	9	6
Carroll	60	86	90	105	72	35	59	78	62	62	107	62	96	104	138	148	152	212	134	131	163
Cass	49	59	58	19	18	42	32	64	39	23	21	30	23	6	113	98	81	40	48	65	38
Cedar*	26	37	29	24*	43	24*	40	42	45	38	26*	22	30*	25	68	82	67	50*	65	54*	65
Cerro Gordo*	370*	306*	551	530	569	548	559	162*	183*	220	227	182	304	238	532*	489*	771	757	751	852	797
Cherokee	45	47	86	92	111	89	103	36	56	17	30	37	20	22	81	103	103	122	148	109	125
Chickasaw*	0*	5*	3*	10*	12	9	10	0*	5*	5*	9*	13	30	22	0*	10*	8*	19*	25	39	32
Clarke*	6	7	20	26	16	14*	15	8	15	15	12	19	8*	12	14	22	35	38	35	22*	27
Clay	109	153	140	162	80	14	13	64	77	77	113	81	81	121	173	230	217	275	161	95	134
Clayton*	1*	0*	0*	3	12	5	4	2*	2*	6*	8	23	21	10	3*	2*	6*	11	35	26	14
Clinton*	17*	40*	37*	31*	56*	43*	49*	67*	51*	56*	39*	73*	90*	42*	84*	91*	93*	70*	129*	133*	91*
Crawford*	0*	4*	0	5	0	1	1	44*	69*	43	51	61	57	21	44*	73*	43	56	61	58	22
Dallas*	55*	54	66	99	80	125*	88*	62*	104	70	79	53	61*	52*	117*	158	136	178	133	186*	140*
Davis*	0*	0	0	2	1	4	14	22*	11	3	28	18	2	4	22*	11	3	30	19	6	18
Decatur*	0*	0*	0*	2*	3*	19*	13	0*	1*	2*	14*	5*	12*	14	0*	1*	2*	16*	8*	31*	27
Delaware*	73*	63*	52*	71	61	85	42	66*	85*	56*	69	93	74	55	139*	148*	108*	140	154	159	97
Des Moines*	318	384	286	472	307	65*	181	406	514	243	247	182	32*	122	724	898	529	719	489	97*	303
Dickinson*	0*	0*	0*	1*	36*	28	22	1*	8*	9*	13*	21*	65	39	1*	8*	9*	14*	57*	93	61
Dubuque*	363	332	396	292	204	8*	13*	780	826	363	896	733	36*	50*	1143	1158	759	1188	937	44*	63*
Emmet*	0	6	21*	28	21	9	7	0	3	1*	0	3	0	0	0	9	22*	28	24	9	7
Fayette*	9*	16*	37	17	12*	12*	13*	46*	78*	116	89	62*	32*	36*	55*	94*	153	106	74*	44*	49*

Table 1. Juvenile Arrests for Total Group A and B Offenses and for Total Offenses in Iowa's Counties, 1993-1999 (continued).

County	Total Group A Offenses							Total Group B Offenses							Total (A+B) Arrests						
	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993
Floyd*	51	45*	59*	33	122	107	101	57	32*	17*	17	40	45	50	108	77*	76*	50	162	152	151
Franklin*	45*	57*	62*	43*	79*	82	41	27*	26*	31*	62*	66*	48	73	72*	83*	93*	105*	145*	130	114
Fremont*	0*	0*	0*	0*	0*	0*	0*	0*	0*	1*	0*	0*	1*	0*	0*	0*	1*	0*	0*	1*	0*
Greene*	9*	0*	0*	0*	0*	0*	0*	7*	6*	2*	13*	4*	0*	5*	16*	6*	2*	13*	4*	0*	5*
Grundy*	10	16	24	0*	4*	12	5	3	22	25	4*	2*	7	6	13	38	49	4*	6*	19	11
Guthrie	0	0	0	1	0	0	0	3	4	0	1	5	3	1	3	4	0	2	5	3	1
Hamilton	41	75	102	80	128	72	115	56	58	48	96	82	46	48	97	133	150	176	210	118	163
Hancock	35	38	31	32	24	13	37	36	22	15	36	29	10	61	71	60	46	68	53	23	98
Hardin	64	82	71	78	58	85	122	144	121	86	58	56	75	87	208	203	157	136	114	160	209
Harrison*	19	39	20	0*	4	7	10	24	36	17	3*	9	10	6	43	75	37	3*	13	17	16
Henry	58	50	68	133	107	80	90	68	35	75	51	44	80	46	126	85	143	184	151	160	136
Howard	40	65	66	77	30	44	14	36	58	33	42	37	18	10	76	123	99	119	67	62	24
Humboldt*	14	16	36	15*	3*	2*	0*	19	16	10	16*	7*	3*	3*	33	32	46	31*	10*	5*	3*
Ida*	0	1	0	0	0	0	0*	1	3	4	3	4	24	4*	1	4	4	3	4	24	4*
Iowa*	10*	8*	9	14	23	12	3	8*	12*	11	25	15	13	9	18*	20*	20	39	38	25	12
Jackson	55	61	81	61	87	64	39	101	115	80	71	110	50	115	156	176	161	132	197	114	154
Jasper*	30*	31*	155	94	130	83	48	18*	40*	111	78	100	68	76	48*	71*	266	172	230	151	124
Jefferson	27	68	68	35	40	34	42	56	22	33	33	11	35	52	83	90	101	68	51	69	94
Johnson*	523	552	556*	662	504*	560*	49*	350	434	347*	332	209*	181*	33*	873	986	903*	994	713*	741*	82*
Jones*	17	17*	21*	23*	24	29	43	10	1*	7*	6*	29	29	42	27	18*	28*	29*	53	58	85
Keokuk	0	0	2	1	1	5	14	0	0	1	1	2	14	8	0	0	3	2	3	19	22
Kossuth	47	47	68	86	49	62	45	75	70	123	89	48	67	22	122	117	191	175	97	129	67
Lee*	268*	344	359	434	162*	262	142*	116*	211	294	297	161*	304	58*	384*	555	653	731	323*	566	200*
Linn*	1120*	224*	197*	295*	225*	227*	112*	339*	140*	111*	73*	50*	43*	24*	1459*	364*	308*	368*	275*	270*	136*
Louisa	12	14	2	6	3	34	39	51	21	25	19	29	23	32	63	35	27	25	32	57	71
Lucas	37	21	44	44	53	44	6	28	8	16	26	15	32	10	65	29	60	70	68	76	16
Lyon	15	32	26	14	15	12	29	44	42	48	70	114	39	54	59	74	74	84	129	51	83
Madison*	0*	0	0*	0*	3	0	3	4*	17	0*	6*	2	4	4	4*	17	0*	6*	5	4	7
Mahaska	116	111	124	93	126	69	95	101	88	93	88	111	62	59	217	199	217	181	237	131	154
Marion*	94	75	84	53*	36*	29*	38*	45	34	39	61*	30*	75*	57*	139	109	123	114*	66*	104*	95*
Marshall*	307	362*	387	371	279	288	255	348	366*	423	574	359	335	321	655	728*	810	945	638	623	576
Mills*	0*	0*	0*	1*	0*	0*	0*	1*	0*	0*	6*	4*	3*	6*	1*	0*	0*	7*	4*	3*	6*
Mitchell	30	25	18	22	33	16	18	68	41	30	27	11	25	20	98	66	48	49	44	41	38

Table 1. Juvenile Arrests for Total Group A and B Offenses and for Total Offenses in Iowa's Counties, 1993-1999 (continued).

County	Total Group A Offenses							Total Group B Offenses							Total (A+B) Arrests						
	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993	1999	1998	1997	1996	1995	1994	1993
Monona	47	32	28	42	3	6	15	77	66	49	26	26	23	31	124	98	77	68	29	29	46
Monroe*	16*	0	1*	0*	2*	2*	2*	25*	9	2*	8*	1*	9*	12*	41*	9	3*	8*	3*	11*	14*
Montgomery*	26*	49*	54*	81*	82*	77*	92*	18*	63*	63*	42*	57*	57*	90*	44*	112*	117*	123*	139*	134*	182*
Muscatine*	304*	444	336	452	468	450	363	397*	454	307	409	349	276	215	701*	898	643	861	817	726	578
O'Brien	51	72	84	113	71	64	72	67	86	103	75	77	55	61	118	158	187	188	148	119	133
Osceola	18	31	26	27	18	43	25	55	57	28	38	34	31	29	73	88	54	65	52	74	54
Page*	47*	53	105*	83*	47	47*	39	57*	59	59*	91*	50	30*	43	104*	112	164*	174*	97	77*	82
Palo Alto*	15	22	12*	5*	33	9	19	38	28	3*	10*	24	19	27	53	50	15*	15*	57	28	46
Plymouth	58	73	38	53	60	41	34	101	83	68	45	55	47	53	159	156	106	98	115	88	87
Pocahontas	0	3	1	8	8	7	7	2	0	3	2	2	5	9	2	3	4	10	10	12	16
Polk*	1953*	1788	1878*	808*	634	609	326*	1005*	691	552*	420*	303	330	215*	2958*	2479	2430*	1228*	937	939	541*
Pottawattamie*	744*	875*	25*	21*	8*	18*	16*	705*	874*	9*	7*	14*	9*	4*	1449*	1749*	34*	28*	22*	27*	20*
Poweshiek*	15	6*	2*	0*	11*	0*	9	39	42*	58*	0*	14*	25*	15	54	48*	60*	0*	25*	25*	24
Ringgold*	0*	0	0	0	2	0*	0	0*	0	0	0	0	2*	2	0*	0	0	0	2	2*	2
Sac*	22	9	10	12	1	6*	11	24	10	9	10	23	29*	44	46	19	19	22	24	35*	55
Scott	1515	1694	1740	1757	1717	1704	1547	900	1088	1065	1012	1003	728	699	2415	2782	2805	2769	2720	2432	2246
Shelby*	0*	0*	26*	23*	33*	0*	0*	3*	1*	9*	26*	17*	10*	2*	3*	1*	35*	49*	50*	10*	2*
Sioux*	36*	43*	23*	29*	50*	29*	44*	41*	26*	35*	33*	37*	50*	54*	77*	69*	58*	62*	87*	79*	98*
Story	184	182	290	308	266	203	229	199	274	318	232	209	149	179	383	456	608	540	475	352	408
Tama*	40*	44*	68*	59*	50*	43	31	64*	60*	78*	44*	57*	28	42	104*	104*	146*	103*	107*	71	73
Taylor	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Union*	5*	10*	9*	1*	4*	35*	48	11*	17*	31*	13*	1*	17*	28	16*	27*	40*	14*	5*	52*	76
Van Buren*	4	21	1	7*	0	1*	16	9	29	0	5*	4	2*	8	13	50	1	12*	4	3*	24
Wapello*	189	95	120	145	135	140*	32*	355	141	77	96	64	44*	7*	544	236	197	241	199	184*	39*
Warren*	87*	107	89*	96	146*	144	125	50*	80	80*	62	39*	45	72	137*	187	169*	158	185*	189	197
Washington*	0*	0	0*	0*	0*	0*	0*	1*	0	3*	2*	1*	0*	1*	1*	0	3*	2*	1*	0*	1*
Wayne	2	1	6	0	2	0	0	2	5	25	0	2	0	0	4	6	31	0	4	0	0
Webster*	227	237	180	214	150	32*	129*	122	147	66	130	68	14*	176*	349	384	246	344	218	46*	305*
Winnebago*	40*	14*	11*	24	20	76	42	30*	16*	35*	36	43	26	32	70*	30*	46*	60	63	102	74
Winneshiek	25	12	34	31	54	31	62	58	106	67	29	74	75	93	83	118	101	60	128	106	155
Woodbury*	1428	1686	1572*	1845*	1399*	1541*	1624	1263	1169	1152*	1433*	990*	683*	894	2691	2855	2724*	3278*	2389*	2224*	2518
Worth*	1	2	3	2*	5	6	3	14	1	16	0*	9	3	4	15	3	19	2*	14	9	7
Wright	29	32	25	26	34	29	23	33	42	40	29	74	12	13	62	74	65	55	108	41	36
State of Iowa*	13042*	13302*	13122*	12713*	10978*	10120*	8595*	10852*	11119*	9059*	9666*	8055*	6376*	6307*	23894*	24421*	22181*	22379*	19033*	16496*	14902*

reported at least 1,000 arrests of juveniles and another six (Cerro Gordo, Des Moines, Johnson, Marshall, Muscatine, Wapello) had 500 to 999. But a final caution is needed; some law enforcement jurisdictions failed to report or provided insufficient data so comparisons of state and county numbers from one year to another or of counties within any particular year are of limited use.

**Notes:** The figures examined in this report are from the IOWA UNIFORM CRIME REPORTS (Iowa Department of Public Safety, Wallace State Office Building, Des Moines, IA 50319) that are published annually. The record of agencies submitting information to the state is improving, but variations in reporting practices suggest that caution be taken in drawing conclusions from these data. See lists of jurisdictions not reporting or providing insufficient data in a note at the end of the section on domestic abuse included in this volume.





## Publications from Census Services

Willis Goudy, Iowa State University  
 Sandra Charvat Burke, Iowa State University  
 Margaret Hanson, Iowa State University  
 Renea Miller, Iowa State University

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### County Data Books

Twelve editions of "Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data," have been released. The contents vary from one issue to the next. Some items are updated annually. In other instances, new data are released only every 2, 5, or 10 years; in such cases, the latest information is incorporated whenever it becomes available. This volume is available for \$40.00; for information on contents of previous editions not included in this 12<sup>th</sup> edition, review the inside front cover of this volume.

### Other Reports or Series Publications

A series of reports on selected aspects of Iowa's population were released the last few years. Copies of some no longer are available; call (515-294-6482) to determine whether copies exist. The cost is \$10.00 per copy.

Agriculture in Iowa: Trends from 1935 to 1997. CS99-6. 201 pages.  
 Iowa's Changing Age Structure: Trends from 1890 to 2020. CS98-6. 73 pages.  
 Iowa's Youth: Trends from 1890 to 1990. CS98-5. 105 pages.  
 Housing in Iowa: Trends from 1890 to 1990. CS98-3. 126 pages.  
 Rural/Urban Transitions in Iowa. CS96-4. 112 pages.  
 Minority/Majority Groups in Iowa. CS95-3. 117 pages.  
 Iowa's Older Residents: Past, Present, and Future. CS94-7. 105 pages.

Single copies of the following brief items can be ordered at no charge from our office while our supplies last. Some of these titles are released each year or every few years; only the most recent version is listed.

Counts (1990) and Estimates (1999) of Iowa Residents of Hispanic Origin. CS2000-4. 2 pages.  
 Population (1990) and Population Estimates (1991-1999) for Iowa Counties. CS2000-3. 4 pages.  
 Births, Deaths, and Migration for Iowa and Other States: 1990-1999. CS2000-2. 2 pages.  
 Population Counts for Iowa and Other States: 1890-1990 Censuses and 1991-1999 Estimates.  
 CS2000-1. 2 pages.  
 Estimated Population (1998) and Population (1850-1990) for Incorporated Places in Iowa. CS99-7.  
 19 pages.

### 1990 Census Publications

Six brief reports highlighting data from the 1990 census have been published by Census Services. The first four are based on information on the PL94-171 (Public Law 94-171) computer tape, which was used for redistricting the state for legislative purposes; this tape was released in February of

1991. The fifth one (CS91-6) is from the tape (STF1A) with more detailed demographic and housing data that arrived in May of 1991. The sixth (CS92-4), which was based on a tape (STF3A) received in May of 1992, contains socioeconomic and additional housing variables. Single copies of these reports can be ordered at no charge from Census Services (303 East Hall, Iowa State University, Ames, IA 50011).

Iowa's Counties in 1980 and 1990: Initial Census Counts on Population, Race, Hispanic Origin, and Housing Units. CS91-2. 6 pages.

Iowa's Incorporated Places in 1990: Initial Census Counts on Population, Race, Hispanic Origin, and Housing Units. CS91-3. 22 pages.

Iowa's Townships in 1990: Initial Census Counts on Population, Race, Hispanic Origin, and Housing Units. CS91-4. 28 pages.

Race and Hispanic Origin in 1990 by Age (18 and Older, 17 and Younger) in Iowa's Counties. CS91-5. 10 pages.

1990 Census Data for the State of Iowa from Summary Tape File 1A. CS91-6. 6 pages.

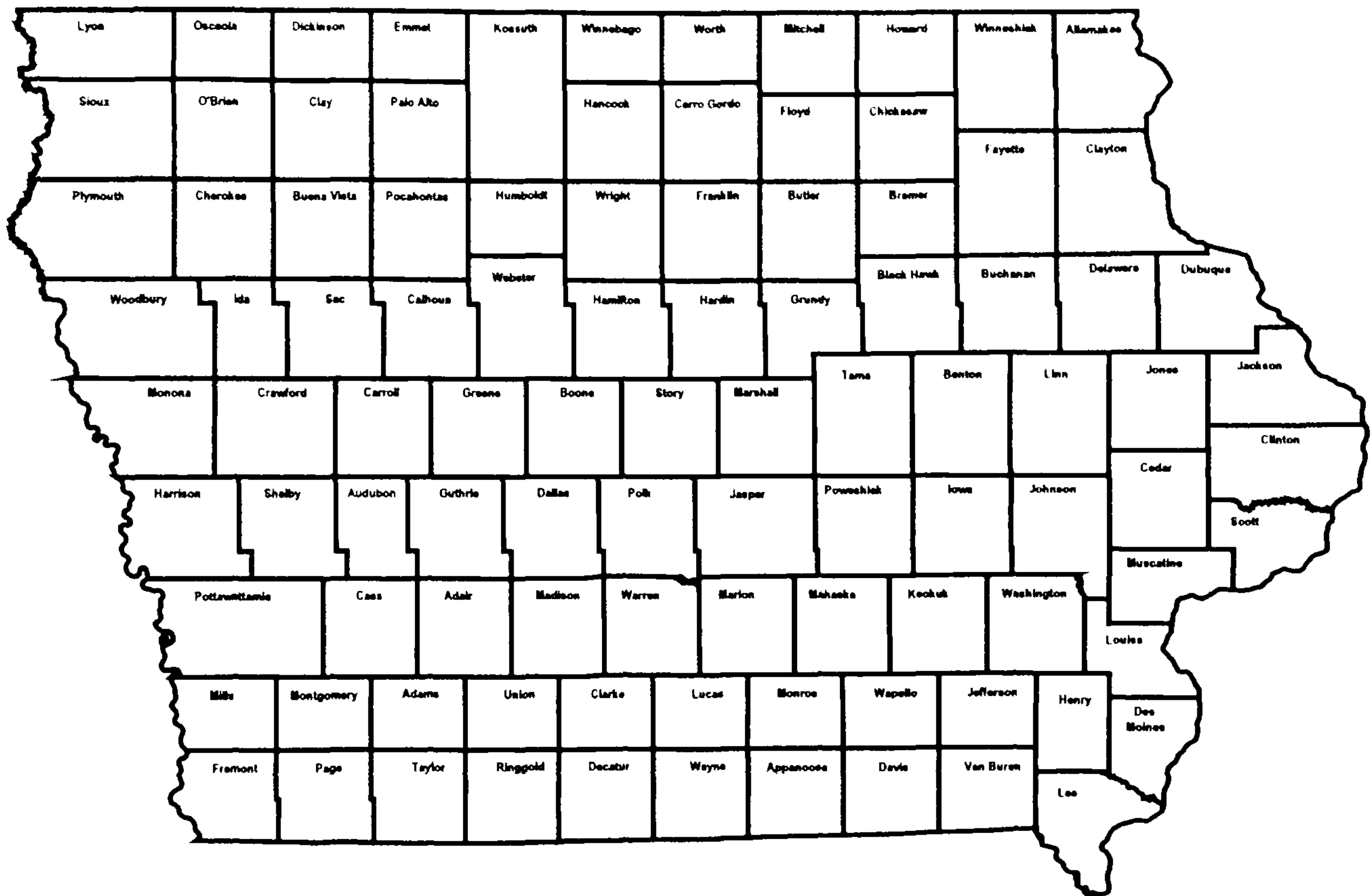
1990 Census Data for the State of Iowa from Summary Tape File 3A. CS92-4. 16 pages.

Information for counties and incorporated places equivalent to that in CS91-6 and CS92-4 (the last two reports listed above) for 1990 is available through county extension offices. Each office has 21 pages of data for that county and 21 pages for each incorporated place within it. Field specialists with ISU Extension to Communities located throughout the state have the data for their sets of counties and incorporated places. A complete set of the pages or specialized computer runs can be obtained from Census Services; charges apply, of course.

#### **Web Site**

Check <http://www.soc.iastate.edu/census/> on the World Wide Web for the latest information from Census Services. Some information not released on paper through our office is available at that location.

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