

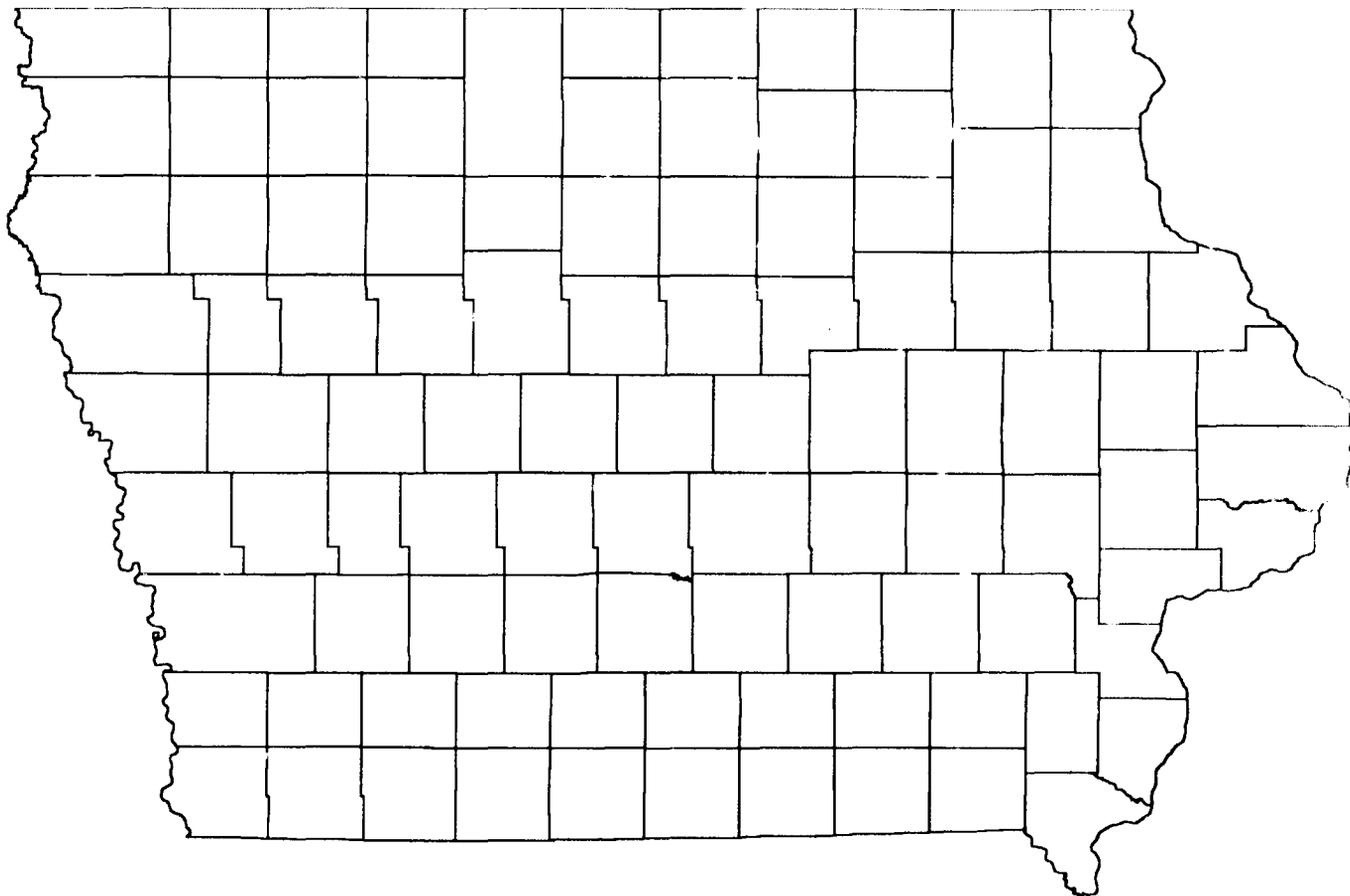
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Iowa's Counties:

Selected Population Trends, Vital Statistics, and Socioeconomic Data

1994 Edition



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

October, 1994



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Iowa's Counties:

Selected Population Trends, Vital Statistics, and Socioeconomic Data

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Selected Population Trends, Vital Statistics, and Socioeconomic Data

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Introduction

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

This is the sixth edition of our county data book. We're pleased that this annual publication has become one of the most frequently referenced information sources in Iowa. In this volume, we have constructed tables from varied sources to serve as a reference for demographic and socioeconomic change in Iowa's counties. We've focused on the 1980s and the first years of the 1990s for the most part, although one section traces population back to 1850 while another projects it to 2010. 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.

This year we've included several additional items from the 1992 and earlier censuses of agriculture--farm numbers and average acres, tenure and type of farm organization, characteristics of farm operators, sales of hogs/pigs and fattened cattle, and the market value of agricultural products sold. Additional information for 1992 is available through ISU Extension offices in every county.

Other new items in this edition include data on personal income by source, outstanding county obligations, and farm-related injuries and fatalities. We've added dollars expended to three others--food stamps, medical services provided under Title XIX of the Social Security Act, and aid to families with dependent children.

Each data set in this volume is accompanied by a commentary that provides a brief analysis of trends. We've added graphics that 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.

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 that we've included have never been published in one source; indeed, many have never 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. So would comments on this edition. 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 at 515-294-6482.

Population Estimates in Iowa's Counties:

1991-1992 and 1981-1989 Revisions

Willis Goudy, Iowa State University
Beth Henning, State Library of Iowa
Sandra Charvat Burke, Iowa State University

In most years between decennial censuses, the U.S. Bureau of the Census estimates the population of counties. Early in 1994, the 1992 estimates were released for Iowa and other states. Iowa's population was estimated to have increased by nearly 26,200, or nine-tenths of a percentage point, between 1 April 1990 (census date) and 1 July 1992 (Table 1).

1990-1992 Population Change

Forty-five counties were estimated to have gained residents between 1990 and 1992, with increases greater than 1,000 in Black Hawk, Dallas, Johnson, Linn, Polk, Pottawattamie, Scott, Warren, and Woodbury. Polk's gain of more than 11,000 was the only one above 5,000. Fourteen of the these 45 counties grew but by fewer than 100 inhabitants. Percentage increases ranged from less than 1% in 22 counties to 2% or more in eight (Dallas, Dickinson, Linn, Muscatine, Polk, Scott, Warren, Washington), with the three constituting the Des Moines Metropolitan Statistical Area (Dallas, Polk, Warren) the only counties growing by at least 3%.

Declines occurred in 53 counties, although only in seven (Clayton, Hancock, Hardin, Kossuth, Marshall, Page, Webster) did the decrease exceed 300. Twenty-five lost 100-299 residents, while the remaining 21 reported declines of fewer than 100. Twenty-one counties had losses ranging from 1.0% to 1.9%; nine had declines of 2.0% to 2.9%. Adams, Audubon, and Pocahontas were estimated to have dropped by at least 3%.

Bremer County's population was estimated to be the same in 1990 and 1992. This was the only county in which the total was identical these two years.

Revised 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. These revisions are reported in Table 2. Generally, the revised figures are substantially lower, especially in the initial years of the 1980s, than were reported previously. 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 1980 and 1990 censuses.

Notes: 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.

Table 1. Estimated population (1991-1992), population (1990), and estimated change (1990-1992) in Iowa counties.

County	1 July 1992	1 July 1991	1 April 1990	Est. Change 1990-1992		County	1 July 1992	1 July 1991	1 April 1990	Est. Change 1990-1992	
				No.	%					No.	%
Adair	8283	8353	8409	-126	-1.5	Jefferson	16450	16371	16310	140	0.9
Adams	4637	4714	4866	-229	-4.7	Johnson	97546	96436	96119	1427	1.5
Allamakee	13814	13813	13855	-41	-0.3	Jones	19730	19558	19444	286	1.5
Appanoose	13726	13720	13743	-17	-0.1	Keokuk	11563	11597	11624	-61	-0.5
Audubon	7095	7237	7334	-239	-3.3	Kossuth	18123	18250	18591	-468	-2.5
Benton	22686	22501	22429	257	1.1	Lee	38952	38890	38687	265	0.7
Black Hawk	125395	125219	123798	1597	1.3	Linn	172892	170674	168767	4125	2.4
Boone	25210	25294	25186	24	0.1	Louisa	11400	11604	11592	-192	-1.7
Bremer	22813	22773	22813	0	0.0	Lucas	9040	9114	9070	-30	-0.3
Buchanan	20940	20906	20844	96	0.5	Lyon	11906	11922	11952	-46	-0.4
Buena Vista	19995	19986	19965	30	0.2	Madison	12709	12526	12483	226	1.8
Butler	15678	15772	15731	-53	-0.3	Mahaska	21399	21424	21522	-123	-0.6
Calhoun	11396	11464	11508	-112	-1.0	Marion	30171	30118	30001	170	0.6
Carroll	21388	21371	21423	-35	-0.2	Marshall	37698	38087	38276	-578	-1.5
Cass	14948	15003	15128	-180	-1.2	Mills	13386	13281	13202	184	1.4
Cedar	17567	17421	17381	186	1.1	Mitchell	10783	10869	10928	-145	-1.3
Cerro Gordo	46812	46960	46733	79	0.2	Monona	9915	9936	10034	-119	-1.2
Cherokee	13949	14043	14098	-149	-1.1	Monroe	8187	8154	8114	73	0.9
Chickasaw	13208	13223	13295	-87	-0.7	Montgomery	11780	11921	12076	-296	-2.5
Clarke	8318	8257	8287	31	0.4	Muscatine	40838	40505	39907	931	2.3
Clay	17728	17604	17585	143	0.8	O'Brien	15366	15384	15444	-78	-0.5
Clayton	18735	18855	19054	-319	-1.7	Osceola	7193	7245	7267	-74	-1.0
Clinton	51152	50923	51040	112	0.2	Page	16544	16783	16870	-326	-1.9
Crawford	16588	16623	16775	-187	-1.1	Palo Alto	10471	10556	10669	-198	-1.9
Dallas	30865	30310	29755	1110	3.7	Plymouth	23658	23411	23388	270	1.2
Davis	8290	8314	8312	-22	-0.3	Pocahontas	9241	9360	9525	-284	-3.0
Decatur	8106	8125	8338	-232	-2.8	Polk	338261	333101	327140	11121	3.4
Delaware	18310	18158	18035	275	1.5	Pottawattamie	83777	82985	82628	1149	1.4
Des Moines	42842	42789	42614	228	0.5	Poweshiek	18950	18953	19033	-83	-0.4
Dickinson	15233	15189	14909	324	2.2	Ringgold	5318	5360	5420	-102	-1.9
Dubuque	87215	86763	86403	812	0.9	Sac	12065	12123	12324	-259	-2.1
Emmet	11625	11617	11569	56	0.5	Scott	155210	153421	150979	4231	2.8
Fayette	21755	21869	21843	-88	-0.4	Shelby	13181	13252	13230	-49	-0.4
Floyd	16887	16815	17058	-171	-1.0	Sioux	30331	30182	29903	428	1.4
Franklin	11146	11281	11364	-218	-1.9	Story	74329	74431	74252	77	0.1
Fremont	8141	8148	8226	-85	-1.0	Tama	17329	17333	17419	-90	-0.5
Greene	10024	10017	10045	-21	-0.2	Taylor	6970	7035	7114	-144	-2.0
Grundy	12013	11922	12029	-16	-0.1	Union	12465	12639	12750	-285	-2.2
Guthrie	11130	11092	10935	195	1.8	Van Buren	7715	7729	7676	39	0.5
Hamilton	16092	16026	16071	21	0.1	Wapello	35758	35693	35687	71	0.2
Hancock	12301	12450	12638	-337	-2.7	Warren	37278	36604	36033	1245	3.5
Hardin	18744	18918	19094	-350	-1.8	Washington	20056	19820	19612	444	2.3
Harrison	14652	14664	14730	-78	-0.5	Wayne	6914	7011	7067	-153	-2.2
Henry	19465	19331	19226	239	1.2	Webster	39991	40233	40342	-351	-0.9
Howard	9846	9854	9809	37	0.4	Winnebago	11902	12001	12122	-220	-1.8
Humboldt	10505	10647	10756	-251	-2.3	Winneschek	21050	20799	20847	203	1.0
Ida	8278	8270	8365	-87	-1.0	Woodbury	99958	99305	98276	1682	1.7
Iowa	14690	14706	14630	60	0.4	Worth	7860	7874	7991	-131	-1.6
Jackson	19983	19860	19950	33	0.2	Wright	14210	14119	14269	-59	-0.4
Jasper	34926	34786	34795	131	0.4						
						State of Iowa	2802944	2789935	2776755	26189	0.9

Table 2. Revised 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	17381	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. Revised 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	21522	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	150979	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	35687	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 2776755 2770720* 2768550* 2767130* 2792050* 2829780* 2858690* 2870650* 2888250* 2908050* 2913808

*The sums of the county estimates are as follows: 1989, 2,770,840; 1988, 2,768,650; 1987, 2,767,200; 1986, 2,792,140; 1985, 2,829,820; 1984, 2,858,740; 1983, 2,870,680; 1982, 2,888,340; 1981, 2,908,120. The differences between the bureau's estimates for the state and the county sums are due to rounding at the county level.

Historical Trends of the Population in Iowa's Counties:

1850-1990

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

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

1850 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 from the southwest corner to the northeast corner of the state would serve to separate the area where residents were counted from that where they were not. Iowa's 192,214 people were highly concentrated in the southeast corner. Indeed, more than 54,000 lived in just four counties (Des Moines, Jefferson, Lee, Van Buren) and another 10,841 lived in Dubuque. At the same time, many counties had fewer than a thousand people.

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

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

People were first counted in Osceola County in the 1880 census, completing settlement across the state. All counties had at least 1,500 residents and three (Dubuque, Polk, Scott) had moved past 41,000. This was the first time Polk was among the three most populous counties. The state reached 1,624,615 by 1880. During the 1870s, the counties with increases of at least 10,000 were Cass, Pottawattamie, Polk, and Shelby, indicating that rapid growth had reached into western Iowa. An additional indication of the shift in population was seen in the losses experienced by some southeastern counties.

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

Table 1. Population in Iowa 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	0
Adams	4866	5731	6322	7468	8753	10156	10437	10521	10998	13601	12292	11888	4614	1533	0
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	0
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	0
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	0
Butler	15731	17668	16953	17467	17394	17986	17617	17845	17119	17955	15463	14293	9951	3724	0
Calhoun	11508	13542	14292	15923	16925	17584	17605	17783	17090	18569	13107	5595	1602	147	0
Carroll	21423	22951	22912	23431	23065	22770	22326	21549	20117	20319	18828	12351	2451	281	0
Cass	15128	16932	17007	17919	18532	18647	19422	19421	19047	21274	19645	16943	5464	1612	0
Cedar	17381	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	0
Cherokee	14098	16238	17269	18598	19052	19258	18737	17760	16741	16570	15659	8240	1967	58	0
Chickasaw	13295	15437	14969	15034	15228	15227	14637	15431	15375	17037	15019	14534	10180	4336	0
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	0
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	0
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	0
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	0
Fayette	21843	25488	26898	28581	28294	29151	29145	29251	27919	29845	23141	22258	16973	12073	825

Table 1. Population in Iowa 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	0
Franklin	11364	13036	13255	15472	16268	16379	16382	15807	14780	14996	12871	10249	4738	1309	0
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	0
Grundy	12029	14366	14119	14132	13722	13518	14133	14420	13574	13757	13215	12639	6399	793	0
Guthrie	10935	11983	12243	13607	15197	17210	17324	17596	17374	18729	17380	14394	7061	3058	0
Hamilton	16071	17862	18383	20032	19660	19922	20978	19531	19242	19514	15319	11252	6055	1699	0
Hancock	12638	13833	13506	14604	15077	15402	14802	14723	12731	13752	7621	3453	999	179	0
Hardin	19094	21776	22248	22533	22218	22530	22947	23337	20921	22794	19003	17807	13684	5440	0
Harrison	14730	16348	16240	17600	19560	22767	24897	24488	23162	25597	21356	16649	8931	3621	0
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	0
Humboldt	10756	12246	12519	13156	13117	13459	13202	12951	12182	12667	9836	5341	2596	332	0
Ida	8365	8908	9283	10269	10697	11047	11933	11689	11296	12327	10705	4382	226	43	0
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	0
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	0	0
Madison	12483	12597	11558	12295	13131	14525	14331	15020	15621	17710	15977	17224	13884	7339	1179
Mahaska	21522	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	0
Mitchell	10928	12329	13108	14043	13945	14121	14065	13921	13435	14916	13299	14363	9582	3409	0

Table 1. Population in Iowa 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	0
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	0
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	0
Osceola	7267	8371	8555	10064	10181	10607	10182	10223	8956	8725	5574	2219	0	0	0
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	0
Plymouth	23388	24743	24322	23906	23252	23502	24159	23584	23129	22209	19568	8566	2199	148	0
Pocahontas	9525	11369	12793	14234	15496	16266	15687	15602	14808	15339	9553	3713	1446	103	0
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	0
Sac	12324	14118	15573	17007	17518	17639	17641	17500	16555	17639	14522	8774	1411	246	0
Scott	150979	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	0
Sioux	29903	30813	27996	26375	26381	27209	26806	26458	25248	23337	18370	5426	576	10	0
Story	74252	72326	62783	49327	44294	33434	31141	26185	24083	23159	18127	16906	11651	4051	0
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	0
Van Buren	7676	8626	8643	9778	11007	12053	12603	14060	15020	17354	16253	17043	17672	17081	12270
Wapello	35687	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	0
Winnebago	12122	13010	12990	13099	13450	13972	13143	13489	11914	12725	7325	4917	1562	168	0
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	0
Worth	7991	9075	8984	10259	11068	11449	11164	11630	9950	10887	9247	7953	2892	756	0
Wright	14269	16319	17294	19447	19652	20038	20216	20348	17951	18227	12057	5062	2392	653	0
State of Iowa	2776755	2913808	2825368	2757537	2621073	2538268	2470939	2404021	2224771	2231853	1912297	1624615	1194020	674913	192214

Table 2. Population Change in Iowa 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	-1254	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

Table 2. Population Change in Iowa 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	0
Madison	-114	1039	-737	-836	-1394	194	-689	-601	-2089	1733	-1247	3340	6545	6160
Mahaska	-1345	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 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	0	0
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	-9043	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	-4554	-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	-137053	88440	67831	136464	82805	67329	66918	179250	-7082	319556	287682	430595	519107	482699

Table 3. Population Change (1850-1900, 1900-1950, 1950-1990), Decades of Population Increase, and Year Census Count Highest in Iowa 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	471	2.8	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 3. Population Change (1850-1900, 1900-1950, 1950-1990), Decades of Population Increase, and Year Census Count Highest in Iowa 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				
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	-3150	-12.8	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	50281	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	-11710	-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	155682	5.9	5	4	3	1980

decade and, for the first time, Polk became the most populous county. Significant growth was also shown in Plymouth and Sioux.

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

Overall, the last half of the 1800s saw Iowa go from a sparsely- to a fully-settled state with a gain of more than two million people (Table 3). It was a time of generalized population growth shared by all the counties across the state. 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% of its population, while Fremont, Keokuk, Lucas, Ringgold, and Union declined by more than 15%. Such widespread losses were unprecedented in the state's history. In contrast, 28 counties gained during the period. The greatest percentage growth generally occurred in counties with large cities (Black Hawk, +38%; Polk, +34%; Woodbury, +24%), although Monroe was highest (+41%). Polk increased by more than 27,000 during that decade and both Black Hawk and Woodbury each added at least 12,000 residents. Polk became the first Iowa county with more than 100,000 residents. The total population for the state in 1910 stood at 2,224,771.

The state rebounded from its 1900-1910 losses during the next decade (1910-1920) by gaining more than 179,000 people (+8%). Although 27 counties lost population during the 1910-1920 period, this was a much smaller number than the previous decade; also, the percentage declines tended to be lower. Mahaska dropped more than any other county in both numbers and proportion (-3,590, -12%); it was the only county with a decline greater than 10%. The counties showing losses tended to be in the east, south, and west central areas of the state. Counties with large cities continued the growth trend started earlier. Polk gained more than 43,000 to put its population above 154,000; it remained the only 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% over 1920. Even though the state was growing, nearly half (48) of the counties declined. Monroe dropped by 8,457 people, a 36% loss. It experienced the highest losses in both numbers and percent, although five other southern-border counties (Appanoose, Davis, Decatur, Van Buren, Wayne) also declined more than 10%. Of the 51 counties that grew during the decade, the greatest percentage gains were in Black Hawk (+22%), Story (+19%), and Jasper (+18%). Woodbury joined Polk in having a total population over 100,000.

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

The 1940s witnessed World War II and ushered in the post-war era. Once again, the state grew, this time by more than 82,000 residents. However, two-thirds (67) of the counties lost population, most at higher rates than in the 1930s. Thirteen counties had declines greater than 10%; four of these (Appanoose, Fremont, Lucas, Monroe) were over 15%. The counties with the highest percentage losses were located in the southern and west central parts of the state. Four counties (Adams, Clarke, Davis,

Ringgold) dropped below 10,000 in population, the first time any of these had been that low since 1870. Indeed, all counties in Iowa had been above 10,000 since 1920. In sharp contrast to these losses were nine counties for which population gains were greater than 10%. All of these nine contained substantial cities. Johnson and Story led with increases greater than 30% as students returned to the universities after the war. Polk alone gained more than 30,000 people, Black Hawk more than 20,000, and Linn and Scott more than 15,000. In 1940, only two counties (Polk, Woodbury) had been over 100,000; by 1950, there were five (Black Hawk, Linn, Polk, Scott, Woodbury). Polk exceeded 200,000 for the first time. The total population for Iowa was more than 2.6 million in 1950.

Iowa'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%. Fifty-five counties had fewer residents in 1950 than they counted in 1900 (Table 3). 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% for only the second decade this century. Polk once again made an impressive gain (more than 40,000). Black Hawk and Linn also continued to post substantial gains. Twelve counties had percentage increases greater than 10% and eight of these also had more than 10% growth the previous decade. Still, 58 counties declined, 16 losing more than 10%. Eight counties (Adams, Appanoose, Decatur, Fremont, Monona, Ringgold, Taylor, Wayne) were down at least 14% and all of them had lost at least 10% the previous decade as well. By the 1960 census, six counties (Adams, Clarke, Davis, Ringgold, Van Buren, Wayne) had slipped below 10,000 residents.

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

Population declines slowed somewhat for many counties in the 1970s. Between 1970 and 1980, 42 counties lost population, fewer than in the previous decade. Only Pocahontas and Audubon counties had percentage declines above 10%. The largest numerical losses of the decade were in Wapello (-1,908), Webster (-2,438), and Woodbury (-2,168). In 1970 and 1980, the same fifteen counties had fewer than 10,000 residents. Growth counties were led by percentage gains of 24% in Dickinson and 27% in Warren. Numerical gains were largest in Polk and Scott, with increases greater than 17,000 in each. Polk surpassed 300,000 for the first time and, by 1980, the population of the state was 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% (Polk, +8%; Johnson, +18%). 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% in the 1980s (Figure 5). Seven of these declines were 15% or greater (Adams, -15%; Calhoun, -15%; Greene, -17%; Grundy, -16%; Kossuth, -15%; Palo Alto, -16%; Pocahontas, -16%).

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% (Table 3). 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.

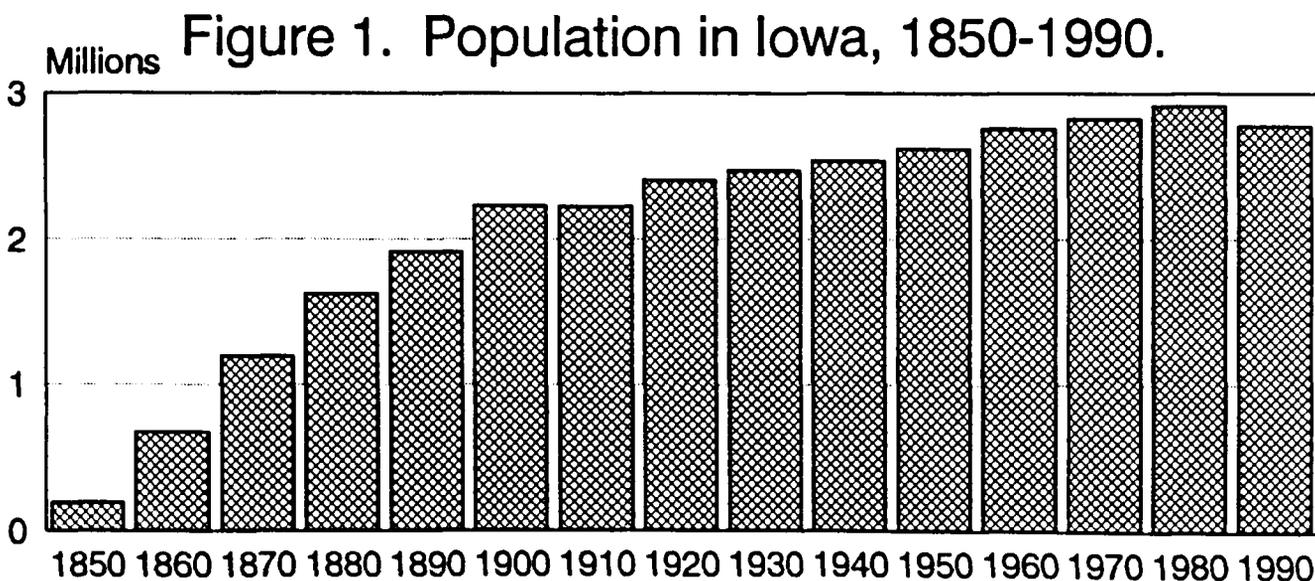


Figure 2. Historical population peaks, 1850-1990.

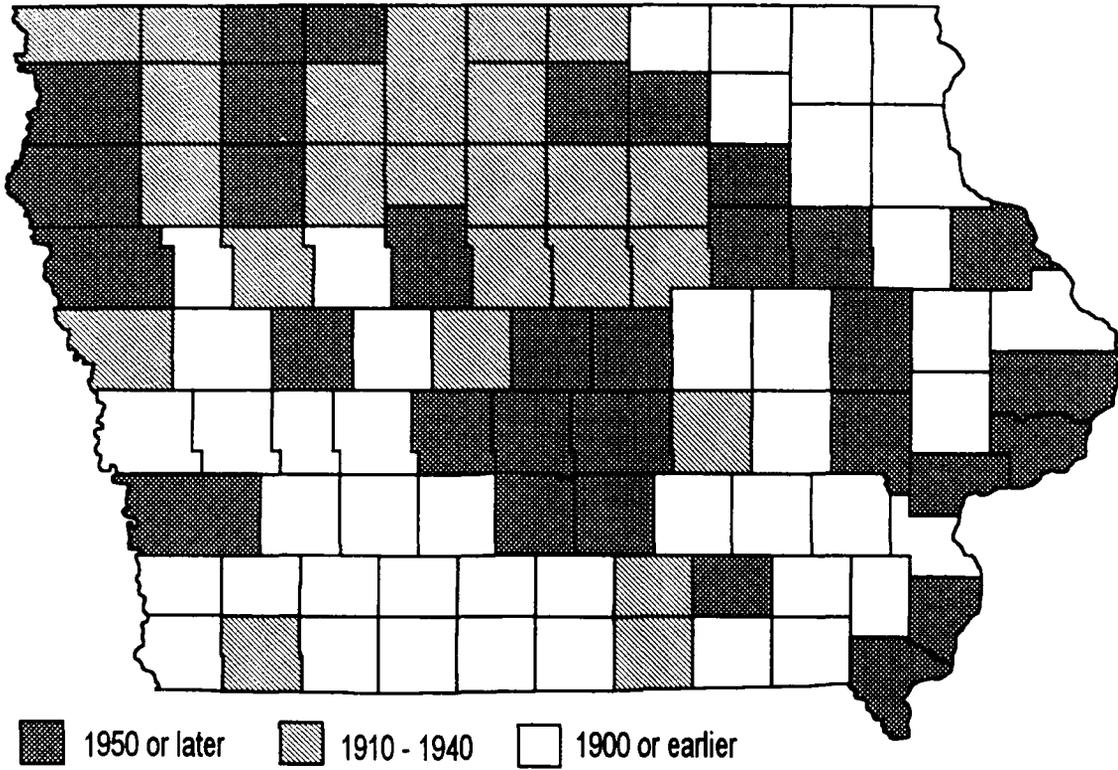


Figure 3. Population change, 1980-1990.

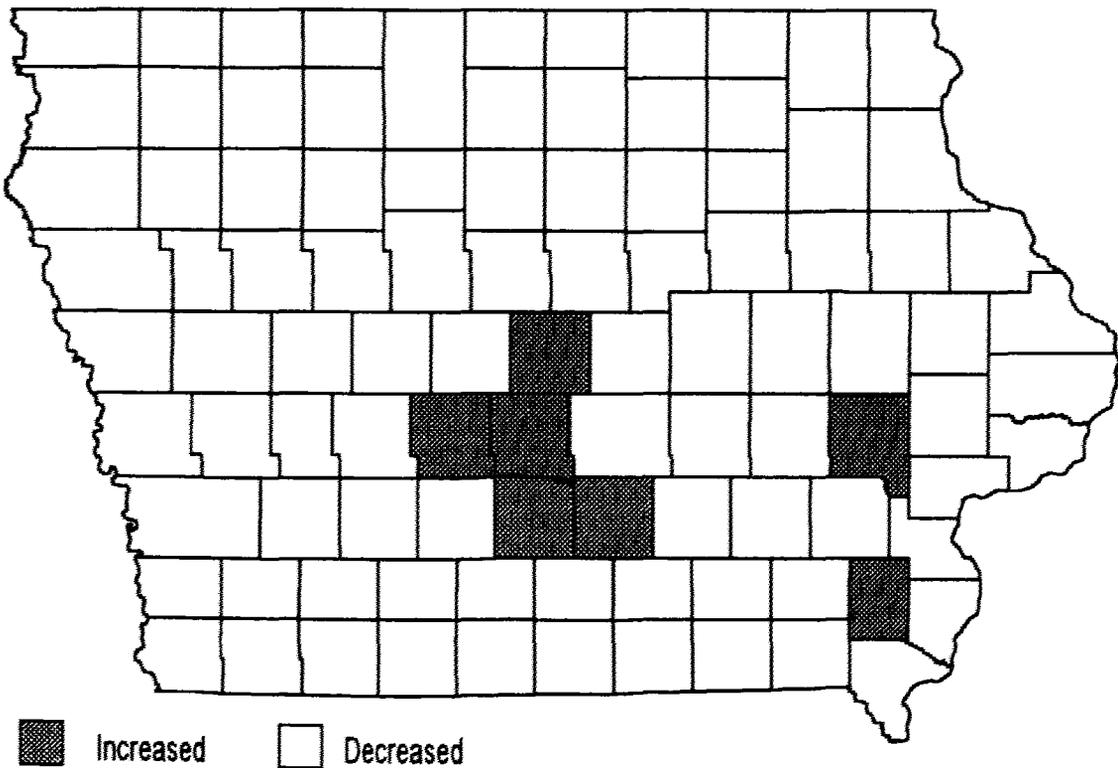


Figure 4. Percent increase, 1980-1990.

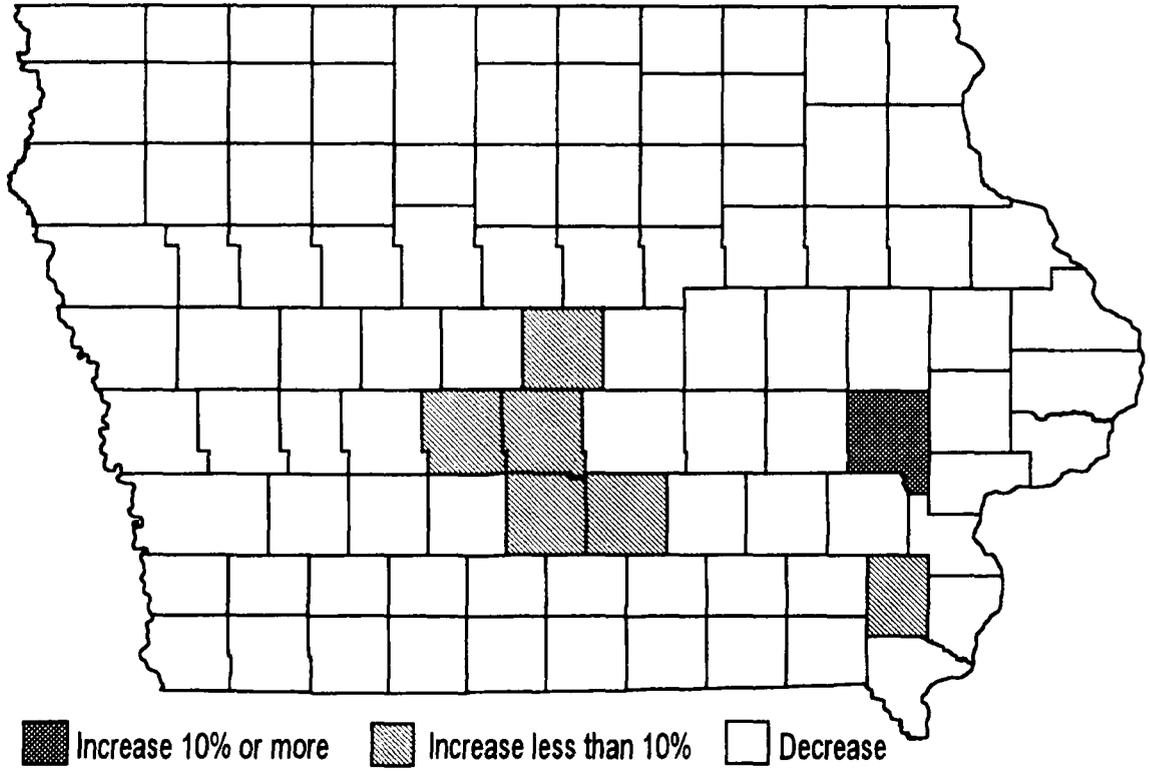
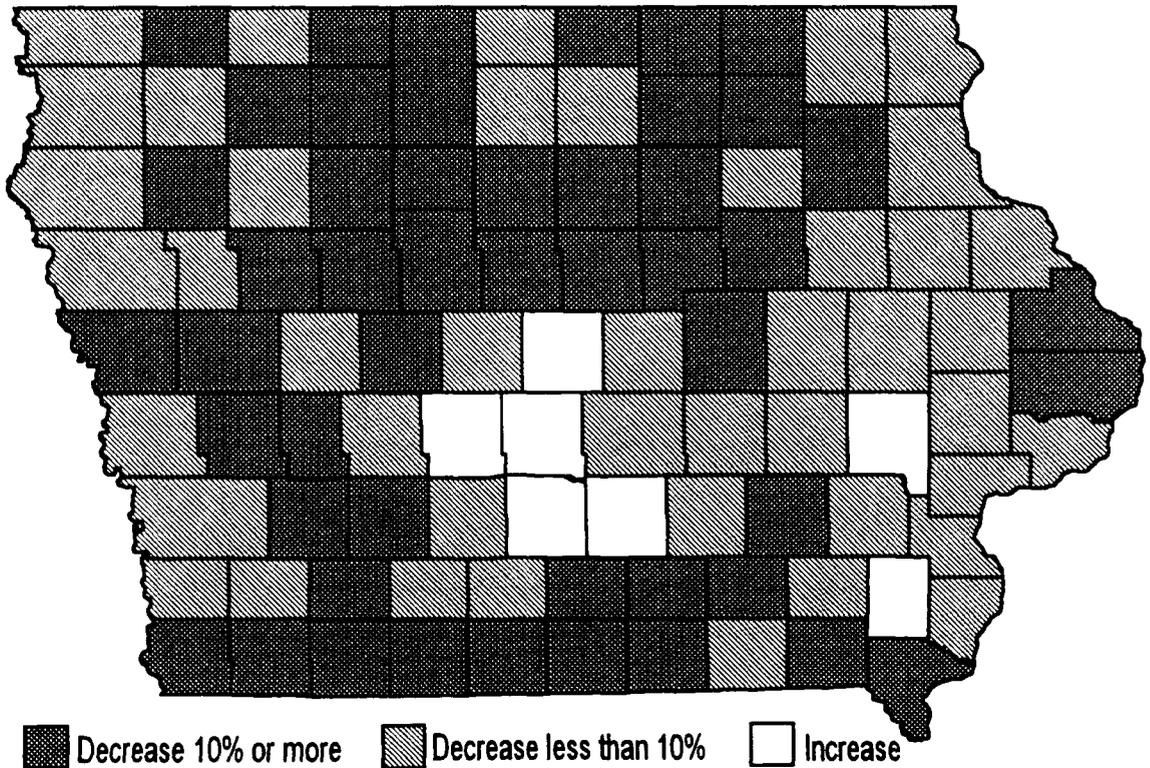


Figure 5. Percent decrease, 1980-1990.



Projected Population in Iowa's Counties: 2000-2010

Willis Goudy, Iowa State University

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

The projections released in 1984 by the Office of the State Demographer for Iowa, a position that no longer exists in state government, were based on demographic trends. Certain assumptions were made about births, deaths, and migration in the state and the counties through 1982 and projected to the year 2000. The projections made by the Iowa Department of Transportation in 1987 considered the same trends, although data through at least 1985 were available as the base. These projections were carried forward through the year 2010. In 1993, Woods and Poole Economics, Inc. (1794 Columbia Road, NW; Washington, DC 20009), also provided projections to 2010. Economic models drive this third set of projections, with employment statistics acting as a key determinant of the figures. Woods and Poole update their projections annually; they had the advantage of using 1990 census figures as part of the data series for their projection equations. The Woods and Poole projections are used in Figure 1.

For Iowa, the projections for the year 2000 vary from 2,895,000 to 2,965,000; the more recent the projection, the lower the figure. The two projections that are available for 2010 differ by 50,000, with the Woods and Poole (2,980,000) projection higher than that from the Iowa Department of Transportation (2,930,000).

Using the 1990 total populations as a base, more counties are projected to gain from 1990 to 2000 by the Office of the State Demographer (87 increase, 12 decrease) than by the Iowa Department of Transportation (68 increase, 31 decrease). But the most recent projections from Woods and Poole indicate that 50 will gain while 49 will decline in population this decade. Both projections available for 2010 predict that more counties will decrease than increase during the first decade of the next century, with 58 (Iowa Department of Transportation) or 59 (Woods and Poole) counties projected to decline even though the state's total population is expected to increase.

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

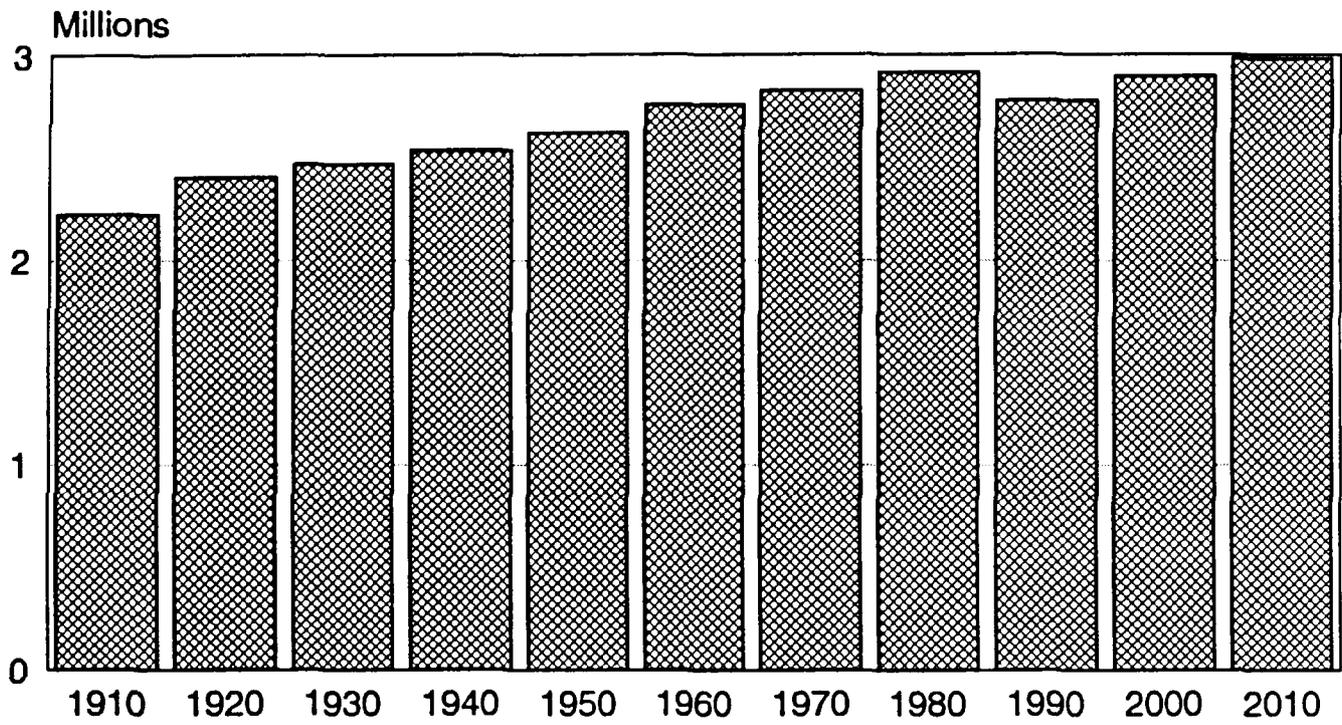
Table 1. Residents, 1990, and Projected Residents, 2000-2010, in Iowa Counties.

County	Census	State Demographer	Iowa Dept. of Transportation		Woods and Poole Economics	
	1990	2000	2000	2010	2000	2010
Adair	8409	8300	8240	7750	8370	8280
Adams	4866	5200	5030	4750	4740	4710
Allamakee	13855	15000	17760	19420	14000	13990
Appanoose	13743	14400	13290	12410	13660	13370
Audubon	7334	8100	7460	7020	7330	7310
Benton	22429	22400	23040	22940	24170	25710
Black Hawk	123798	139400	120620	113790	126230	126620
Boone	25186	25500	24730	24250	25440	25280
Bremer	22813	25600	27270	28830	22870	22630
Buchanan	20844	25000	26260	28360	20800	20400
Buena Vista	19965	21600	20370	20340	20630	21200
Butler	15731	17000	17990	18310	15530	14980
Calhoun	11508	12400	11180	10240	11290	10840
Carroll	21423	23900	24350	25300	21500	21320
Cass	15128	17500	16170	15940	14870	14470
Cedar	17381	18000	20380	21510	19120	20790
Cerro Gordo	46733	47400	47430	47340	46220	44770
Cherokee	14098	15300	14670	14070	14040	13850
Chickasaw	13295	15000	16640	17440	13480	13570
Clarke	8287	10000	9270	9710	8600	8840
Clay	17585	18000	16850	15770	18470	19290
Clayton	19054	21200	23520	25060	19350	19690
Clinton	51040	57400	50760	48270	50830	50170
Crawford	16775	21200	21570	23230	16740	16640
Dallas	29755	28900	33450	35930	32760	35230
Davis	8312	10400	10250	10970	8360	8350
Decatur	8338	8600	7550	6680	7960	7650
Delaware	18035	20400	24370	27900	18520	18710
Des Moines	42614	43300	41470	39640	42820	42320
Dickinson	14909	15800	15230	15170	17530	19920
Dubuque	86403	92300	93870	94770	88460	89430
Emmet	11569	13400	10640	9590	11220	10690
Fayette	21843	23900	23240	22390	21340	20460
Floyd	17058	18300	18670	18380	16530	15980
Franklin	11364	11500	12140	11820	10850	10280
Fremont	8226	9000	8160	7680	8100	7910
Greene	10045	11400	10160	9380	9760	9280
Grundy	12029	13000	11930	10970	11480	10840
Guthrie	10935	10600	10510	9930	11040	10770
Hamilton	16071	17200	15510	14580	15860	15450
Hancock	12638	13700	15000	15760	12290	11940
Hardin	19094	21000	20610	20230	18190	17180
Harrison	14730	16000	16300	16420	14580	14300
Henry	19226	17700	18760	18850	20580	21760
Howard	9809	10900	11850	12340	9460	8890
Humboldt	10756	11600	11670	11500	10680	10560
Ida	8365	8200	9180	9400	8410	8460
Iowa	14630	15000	14250	13820	15510	16090
Jackson	19950	22900	24090	25150	20570	21130
Jasper	34795	35100	35530	35410	34870	34740

Table 1. Residents, 1990, and Projected Residents, 2000-2010, in Iowa Counties (continued).

County	Census	State Demographer	Iowa Dept. of Transportation		Woods and Poole Economics	
	1990	2000	2000	2010	2000	2010
Jefferson	16310	16200	16800	17200	16740	17070
Johnson	96119	93700	85240	87830	109420	122490
Jones	19444	20400	22360	23610	20900	22110
Keokuk	11624	11900	11700	11230	11490	11260
Kossuth	18591	21600	20280	19700	17780	17050
Lee	38687	42800	39780	38560	39600	39930
Linn	168767	167400	166690	166640	184590	198340
Louisa	11592	13300	13070	13740	11930	12210
Lucas	9070	10800	9810	9650	9050	8780
Lyon	11952	12700	14200	15030	11810	11620
Madison	12483	12800	13450	14030	12890	13080
Mahaska	21522	22200	22960	23210	21850	22070
Marion	30001	32500	33810	36410	33860	37550
Marshall	38276	44600	40030	39600	39080	39620
Mills	13202	15600	15120	16190	14470	15650
Mitchell	10928	11300	10700	10050	10640	10310
Monona	10034	10700	9470	8600	9980	9880
Monroe	8114	8900	7940	7440	8060	7820
Montgomery	12076	12200	12240	11790	12260	12430
Muscatine	39907	51000	49120	54620	42740	44810
O'Brien	15444	17100	16450	16340	15600	15570
Osceola	7267	7800	7590	7290	7080	6920
Page	16870	18500	16020	14810	16680	16390
Palo Alto	10669	12100	10760	9990	10260	9780
Plymouth	23388	24000	24590	24730	23970	24390
Pocahontas	9525	10500	10300	9890	9060	8610
Polk	327140	326900	322320	335310	365260	397860
Pottawattamie	82628	93700	94720	99970	83260	82860
Poweshiek	19033	17800	17950	17460	19300	19460
Ringgold	5420	5600	5490	5240	5380	5320
Sac	12324	12900	11500	10470	11800	11270
Scott	150979	176000	162060	164540	162710	171960
Shelby	13230	14300	15790	16320	13070	12700
Sioux	29903	32500	37990	42560	31030	31700
Story	74252	78500	71020	71000	81580	88220
Tama	17419	18800	19650	19880	17030	16480
Taylor	7114	8300	8020	7930	7110	7060
Union	12750	14400	12160	11480	12510	12320
Van Buren	7676	8500	8410	8380	7550	7320
Wapello	35687	36800	35960	34290	34850	33510
Warren	36033	37800	43250	48590	39580	42670
Washington	19612	20600	20650	21100	21300	22560
Wayne	7067	7800	6260	5520	6800	6500
Webster	40342	42900	36090	32260	40770	40840
Winnebago	12122	11300	13410	13730	11650	11190
Winneshiek	20847	22900	26690	29740	21520	22010
Woodbury	98276	105500	97900	97300	101460	103010
Worth	7991	8100	8680	8560	7770	7560
Wright	14269	15700	14090	13210	13820	13260
State of Iowa	2776755	2965100	2899780	2929730	2894870	2980350

Figure 1. Population and projected population in Iowa, 1910-2010.



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

1980-1993

Willis Goudy, Iowa State University
Sandra Charvat Burke, Iowa State University
Michael Dare, Iowa Department of Public Health

The Iowa Department of Public Health annually records vital statistics for Iowa and its counties. Data for 1993 recently were released for births and deaths. Births are counted by the county of residence of the mother, which may not necessarily be the county in which the birth occurs. Similarly, deaths are reported by the county of residence of the deceased individual, although the death may have happened elsewhere.

Births

Iowa recorded 37,805 births in 1993, 654 fewer than in 1992 (Table 1). That decline continued the pattern from 1990 to 1992, which followed three annual increases (Figure 1). More than 5,400 fewer births occurred in 1993 than 10 years earlier in 1983. A drop of 2,434 births took place between 1985 and 1986; this was the greatest decline between adjacent years.

Comparison of the most recent years indicates that 37 counties had more births in 1993 than in 1992, 59 had fewer births in the more recent year, and three had the same number both years. Increases in the number of births ranged from less than 10 in 15 counties to at least 20 in 9 others, with the greatest increases occurring in Black Hawk and Dubuque. Declines ranged from less than 10 in 16 counties to at least 90 in three others (Linn, Polk, Story).

Only nine counties (Benton, Johnson, Linn, Louisa, Lucas, Madison, Polk, Warren, Woodbury) had more births in 1993 than in 1983, indicating that most areas of Iowa reflected the state's trend. In four counties (Black Hawk, Pottawattamie, Scott, Story), there were at least 200 fewer births in 1993 than in 1983, led by a drop of 322 in Black Hawk. In 13 other counties, there were from 100 to 199 fewer births in 1993 than in 1983, while 32 counties had from 50 to 99 fewer births at the end than at the beginning of the period.

Deaths

The number of deaths in Iowa has fluctuated much less than the number of births (Figure 2). The 27,951 deaths in 1993 outnumbered the 27,509 counted in 1983 by 442 (Table 2). The change between adjacent years was greatest for 1992-1993; there were 1,371 more deaths in 1993 than in 1992. From 1980 through 1992, changes from one year to the next never varied by more than 838 (1984-1985) and decreased about as frequently as it increased from one year to the next.

Seventy counties had more deaths in 1993 than the previous year. The increase was less than 10 in 25 counties. Forty-five counties had at least 10 more deaths in 1993 than in 1992, although only seven (Black Hawk, Bremer, Linn, Polk, Scott, Tama, Warren) had at least 50 more deaths during the more recent year. Twenty-eight counties had fewer deaths in 1993 than in 1992; 13 had less than 10 fewer deaths in the more recent year; Greene, Hardin, Madison, Monroe, Plymouth, and Poweshiek declined by at least 20 deaths between 1992 and 1993.

The different trends for births and deaths are highlighted when 1993 data are compared with those for 1983. Births were lower in 1993 in all but nine counties, and the drop was at least 100 in 17. For deaths, the differences are much smaller. In only Polk did deaths increase or decrease by at least 100

Table 1. Births in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	74	105	87	102	109	86	94	111	122	114	115	143	125	166
Adams	51	41	64	60	70	74	63	55	73	73	64	80	64	94
Allamakee	176	199	174	177	214	201	202	210	219	219	220	237	249	252
Appanoose	164	174	170	166	166	167	162	180	188	197	194	184	229	241
Audubon	72	70	76	91	83	82	95	89	111	135	120	119	112	151
Benton	308	304	336	318	292	286	283	295	309	328	291	307	349	414
Black Hawk	1774	1651	1732	1699	1687	1628	1621	1739	1947	2093	2096	2245	2332	2382
Boone	274	289	312	329	309	347	318	295	326	333	347	367	384	395
Bremer	272	259	237	242	256	233	242	267	297	306	320	367	398	417
Buchanan	277	327	302	302	336	310	325	287	367	381	393	454	448	447
Buena Vista	238	274	265	287	253	302	263	294	314	290	302	313	344	322
Butler	169	159	162	184	180	189	179	209	201	242	259	255	236	284
Calhoun	90	120	111	130	124	111	145	152	149	140	171	196	170	204
Carroll	258	271	278	320	292	312	338	361	373	384	416	384	416	436
Cass	178	169	205	192	192	190	163	204	200	255	228	254	286	241
Cedar	203	197	217	221	224	197	189	195	251	253	259	266	285	260
Cerro Gordo	592	600	621	686	657	623	625	656	725	679	709	714	720	728
Cherokee	141	158	153	200	177	169	166	211	199	207	229	231	245	238
Chickasaw	179	166	166	199	182	170	154	201	177	224	224	265	260	258
Clarke	81	105	105	106	121	112	114	109	116	104	112	136	122	126
Clay	190	235	258	239	260	222	237	243	270	260	305	357	314	347
Clayton	242	228	254	242	262	234	250	256	298	282	306	327	364	343
Clinton	680	680	685	685	674	676	689	707	753	788	775	855	882	920
Crawford	208	196	205	228	204	256	277	247	263	256	323	294	300	321
Dallas	425	422	426	409	445	384	423	391	402	454	461	428	432	466
Davis	118	107	127	128	116	115	110	124	134	128	148	137	149	149
Decatur	88	88	94	91	99	98	110	95	106	112	107	136	125	129
Delaware	262	261	271	285	264	290	284	281	320	311	341	362	331	401
Des Moines	558	568	580	568	582	560	540	518	670	650	657	670	742	767
Dickinson	127	152	163	160	158	147	175	165	177	195	178	227	199	229
Dubuque	1252	1168	1231	1260	1184	1192	1253	1199	1278	1362	1375	1447	1542	1584
Emmet	141	135	155	134	121	139	144	139	159	160	196	200	214	227
Fayette	255	278	295	289	279	297	263	278	298	357	362	404	380	405
Floyd	200	204	221	219	220	197	208	213	236	241	285	250	276	259
Franklin	120	126	130	124	132	136	139	148	173	193	165	176	191	195
Fremont	90	103	107	100	98	103	103	124	116	117	124	117	132	131
Greene	129	123	124	108	104	117	138	127	147	172	169	165	196	182
Grundy	141	113	136	146	138	142	121	148	143	170	187	167	182	227
Guthrie	105	155	138	122	111	117	104	115	119	156	144	149	160	179
Hamilton	193	206	220	209	213	199	198	243	199	254	235	219	259	257
Hancock	125	142	157	164	167	159	165	189	190	212	191	233	217	252
Hardin	204	192	209	213	214	224	218	233	270	283	311	324	318	348
Harrison	179	200	201	187	191	192	225	230	227	217	200	217	221	254
Henry	252	256	237	265	224	248	236	250	238	264	260	270	278	303
Howard	112	126	114	135	126	111	146	141	137	161	163	169	158	184
Humboldt	110	100	104	112	136	143	138	149	163	186	178	189	191	188
Ida	93	94	100	107	150	122	112	118	135	148	146	117	159	148
Iowa	213	196	208	213	236	178	179	215	182	216	217	216	230	229
Jackson	258	258	286	252	255	275	290	282	345	325	349	357	371	370
Jasper	423	455	471	432	461	446	438	418	472	462	440	524	506	530

Table 1. Births in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	177	185	186	192	202	208	178	218	222	224	233	209	210	217
Johnson	1337	1359	1358	1406	1297	1330	1285	1278	1326	1306	1254	1299	1350	1276
Jones	235	243	255	251	236	240	216	220	290	262	275	280	272	323
Keokuk	143	147	176	150	152	160	147	137	157	185	185	166	199	223
Kossuth	219	199	226	251	240	245	249	265	262	295	350	344	332	397
Lee	526	540	494	496	492	509	544	526	589	582	596	623	663	693
Linn	2551	2644	2632	2641	2507	2465	2373	2345	2450	2499	2479	2642	2567	2826
Louisa	184	143	148	163	149	141	167	144	145	161	172	178	201	172
Lucas	117	100	111	116	93	111	101	113	110	132	115	164	135	170
Lyon	162	180	156	178	167	183	176	160	183	194	207	214	238	236
Madison	162	155	158	158	167	161	138	140	164	154	150	158	155	197
Mahaska	277	264	300	285	316	295	296	326	318	325	339	342	331	400
Marion	391	412	364	374	398	363	405	368	439	403	434	463	439	449
Marshall	523	471	458	502	488	488	455	520	555	588	622	617	654	673
Mills	159	151	170	136	168	154	173	171	167	192	173	174	212	225
Mitchell	154	126	148	131	127	137	133	147	148	149	173	154	171	196
Monona	106	145	133	114	113	105	110	129	105	140	176	157	161	179
Monroe	119	98	111	116	96	88	107	104	109	122	120	111	135	133
Montgomery	141	165	138	158	150	148	153	136	152	179	189	183	187	205
Muscatine	642	656	676	665	682	615	560	635	632	635	709	754	732	714
O'Brien	191	199	176	184	195	173	184	206	213	235	263	274	287	279
Osceola	81	86	107	94	100	104	87	88	107	105	131	124	127	137
Page	164	166	179	200	220	209	189	183	235	204	226	237	266	270
Palo Alto	109	112	111	95	140	133	122	134	181	162	215	184	214	209
Plymouth	307	317	296	346	310	311	353	376	334	409	415	392	455	427
Pocahontas	88	99	104	124	110	135	109	121	167	150	160	150	149	160
Polk	5460	5560	5494	5367	5545	4998	4987	4956	5087	4909	4974	4969	5093	5087
Pottawattamie	1193	1261	1299	1361	1281	1295	1252	1328	1334	1379	1426	1411	1469	1468
Poweshiek	205	215	237	226	226	203	187	223	220	220	244	254	261	247
Ringgold	38	57	53	44	53	56	60	45	78	84	71	107	80	86
Sac	139	140	125	145	153	142	149	153	177	182	175	183	235	235
Scott	2408	2483	2409	2430	2376	2368	2292	2545	2543	2647	2641	2751	2824	2954
Shelby	163	154	156	182	163	170	172	160	171	237	211	240	189	253
Sioux	437	433	439	434	432	471	457	494	511	519	574	560	584	636
Story	785	878	900	927	874	949	933	944	1035	1039	1075	1010	1054	1055
Tama	225	226	213	215	218	207	233	227	250	260	269	285	259	289
Taylor	70	75	63	92	79	73	86	71	91	102	102	133	119	135
Union	152	149	143	148	166	143	152	167	150	165	190	192	226	212
Van Buren	108	91	98	89	93	123	103	94	107	111	111	117	136	126
Wapello	465	422	481	490	484	420	446	467	468	534	480	564	547	597
Warren	499	516	550	479	499	483	487	466	506	489	485	495	514	551
Washington	273	269	277	307	301	280	298	273	269	307	282	290	293	326
Wayne	71	74	74	83	77	89	75	75	96	94	84	93	105	123
Webster	534	566	563	597	605	589	595	574	631	631	671	733	675	760
Winnebago	121	141	138	148	165	164	152	171	162	170	172	178	162	197
Winneshiek	229	255	252	259	269	272	269	288	287	321	321	309	300	327
Woodbury	1651	1665	1623	1631	1496	1582	1542	1457	1652	1601	1645	1691	1809	1793
Worth	94	91	99	99	107	100	98	103	117	115	110	130	129	127
Wright	156	171	188	214	191	174	177	171	196	203	206	208	220	247
State of Iowa	37805	38459	38925	39330	38916	38070	37866	38748	41182	42360	43247	44716	45918	47797

Table 2. Deaths in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	122	107	111	104	101	103	124	124	103	115	113	104	110	112
Adams	61	56	63	57	70	78	55	61	54	79	66	75	67	75
Allamakee	171	179	165	198	189	170	185	191	182	167	175	163	169	189
Appanoose	200	173	197	179	175	191	197	164	221	183	169	168	196	212
Audubon	107	118	98	88	84	115	94	84	112	74	100	117	102	75
Benton	207	207	222	197	235	250	235	210	219	213	246	207	213	213
Black Hawk	1194	1130	1123	1142	1066	1114	1080	1034	1081	998	1112	1059	1041	1059
Boone	307	266	278	289	279	321	282	268	281	267	286	321	281	290
Bremer	266	216	214	229	211	238	235	223	207	205	188	186	213	227
Buchanan	231	202	180	185	199	204	183	190	180	211	216	218	171	192
Buena Vista	217	196	200	210	253	240	221	210	260	214	253	217	240	246
Butler	195	202	176	169	197	182	191	209	180	183	191	186	160	166
Calhoun	169	185	171	148	202	174	169	157	211	174	168	173	164	186
Carroll	229	233	217	214	202	210	229	190	216	237	244	252	240	238
Cass	180	184	213	206	225	230	198	222	243	217	213	211	189	210
Cedar	157	155	148	176	166	169	169	174	171	175	176	167	177	177
Cerro Gordo	504	490	457	481	463	474	483	470	468	518	446	477	483	467
Cherokee	158	163	166	171	170	164	177	156	184	168	172	171	172	176
Chickasaw	156	124	159	142	132	133	169	149	150	157	141	116	161	159
Clarke	106	103	113	93	109	99	93	87	111	102	96	83	101	106
Clay	182	172	185	158	182	171	189	199	169	180	165	161	171	186
Clayton	214	220	239	201	227	225	232	236	261	239	228	234	217	235
Clinton	548	518	540	559	556	577	502	555	491	546	604	539	580	534
Crawford	179	171	155	170	160	160	172	201	214	190	197	183	201	179
Dallas	274	273	278	287	274	292	304	268	270	265	267	272	259	262
Davis	107	87	103	100	99	96	89	96	108	86	120	105	118	96
Decatur	118	128	134	106	105	98	105	118	121	91	141	136	99	119
Delaware	173	181	144	171	165	160	153	178	176	184	166	186	169	182
Des Moines	428	399	474	456	493	519	438	495	520	442	422	488	405	466
Dickinson	172	149	163	160	161	179	147	145	162	169	156	172	152	135
Dubuque	854	810	841	840	853	796	782	818	801	822	802	798	847	803
Emmet	146	147	130	134	156	122	132	123	143	151	137	137	133	159
Fayette	255	242	266	257	266	275	269	287	295	277	273	288	290	260
Floyd	220	216	214	203	219	220	178	207	246	182	213	226	198	231
Franklin	145	117	130	120	136	156	157	123	141	151	131	131	135	135
Fremont	115	127	105	104	122	129	143	126	110	131	122	125	122	119
Greene	116	141	143	142	123	159	148	137	159	155	147	135	166	136
Grundy	127	89	134	117	130	148	128	136	139	112	135	147	123	138
Guthrie	145	136	133	142	147	190	165	158	152	153	166	176	149	165
Hamilton	171	183	186	177	194	199	169	173	167	171	195	200	165	162
Hancock	135	132	115	130	111	150	135	125	142	133	144	131	147	159
Hardin	243	267	239	237	231	226	243	263	244	246	230	233	262	243
Harrison	230	200	202	198	177	221	212	173	205	188	190	204	197	205
Henry	233	200	215	169	209	194	219	185	209	197	180	197	179	207
Howard	125	122	118	124	107	129	153	130	144	146	137	133	139	112
Humboldt	141	140	130	135	99	122	113	125	130	133	119	129	113	136
Ida	117	104	117	115	86	115	115	109	103	101	113	104	99	107
Iowa	172	163	155	174	152	169	196	144	162	162	168	178	150	161
Jackson	228	202	241	209	247	225	237	219	229	220	198	220	226	237
Jasper	365	356	374	298	329	361	343	343	329	335	376	310	343	341

Table 2. Deaths in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	166	160	173	153	145	160	162	169	165	171	177	168	168	154
Johnson	455	436	451	429	461	421	452	444	482	444	452	403	392	395
Jones	177	167	202	192	174	194	178	201	184	174	179	172	209	167
Keokuk	137	124	138	165	151	171	152	147	168	169	186	154	189	166
Kossuth	223	196	207	197	189	203	195	206	204	197	220	230	209	217
Lee	463	444	453	398	423	459	435	446	453	387	462	406	458	456
Linn	1356	1230	1274	1237	1288	1288	1269	1307	1245	1181	1287	1222	1227	1271
Louisa	147	113	100	121	103	136	107	119	101	104	109	122	119	110
Lucas	107	122	122	129	139	126	107	114	152	119	125	131	130	115
Lyon	136	116	137	115	128	96	117	137	121	120	120	105	105	134
Madison	143	164	150	156	144	156	141	156	153	143	160	128	140	126
Mahaska	223	220	224	250	243	237	230	261	267	261	248	243	244	233
Marion	308	326	303	329	315	323	276	297	287	308	293	277	297	256
Marshall	497	456	506	485	500	421	458	392	437	417	439	423	412	427
Mills	149	110	129	129	147	123	148	140	138	128	111	144	123	133
Mitchell	157	153	135	148	150	140	166	108	154	161	169	150	138	142
Monona	158	162	147	156	143	153	144	149	177	172	167	159	139	143
Monroe	96	118	109	105	137	104	112	127	113	109	125	117	139	116
Montgomery	183	156	176	181	186	178	175	177	165	195	147	173	151	152
Muscatine	380	375	391	357	377	340	383	341	379	389	360	364	359	339
O'Brien	184	192	205	190	182	200	209	159	194	198	195	215	166	198
Osceola	72	77	88	66	78	81	101	97	96	88	99	81	96	105
Page	211	224	236	230	214	235	239	238	256	234	253	243	281	223
Palo Alto	153	124	144	140	139	147	145	140	149	135	149	147	147	148
Plymouth	224	244	225	235	220	215	243	210	246	245	249	244	207	246
Pocahontas	119	127	132	121	132	160	128	114	150	145	131	176	132	169
Polk	2617	2466	2614	2539	2571	2604	2484	2499	2533	2427	2461	2373	2393	2456
Pottawattamie	769	731	754	746	731	829	819	747	802	800	772	752	771	786
Poweshiek	184	204	170	196	195	206	188	199	195	209	175	192	187	192
Ringgold	83	77	74	84	65	71	78	80	88	70	73	74	89	84
Sac	176	155	144	178	177	165	168	172	176	168	178	188	173	147
Scott	1307	1224	1171	1105	1218	1211	1217	1236	1174	1214	1234	1093	1209	1173
Shelby	147	146	153	151	161	163	147	151	155	139	161	146	158	168
Sioux	242	218	218	228	238	255	238	235	278	235	228	234	229	236
Story	420	412	453	415	405	412	411	418	425	357	396	404	361	402
Tama	222	170	216	226	209	176	198	209	232	210	201	187	234	211
Taylor	95	94	115	105	133	98	119	122	98	106	126	127	127	114
Union	163	160	165	167	156	171	175	168	167	166	181	170	174	153
Van Buren	106	97	108	87	118	134	107	116	117	83	123	109	99	119
Wapello	463	418	488	473	459	476	442	506	443	513	488	441	477	498
Warren	285	233	282	283	272	288	242	246	244	261	230	223	217	227
Washington	236	206	243	215	217	212	219	208	235	226	226	186	203	207
Wayne	101	112	102	92	96	104	107	124	138	111	129	97	142	128
Webster	483	482	489	451	459	495	490	448	473	468	486	489	489	472
Winnebago	150	158	151	138	125	150	147	119	139	151	137	134	145	133
Winneshiek	175	159	176	219	183	198	182	221	229	207	224	178	188	179
Woodbury	982	974	918	939	956	1017	943	940	950	950	970	1013	971	984
Worth	96	94	96	115	86	120	102	108	108	103	108	100	104	93
Wright	210	173	175	178	165	187	181	185	199	189	177	196	209	208
State of Iowa	27951	26580	27306	26815	27147	27851	27213	27021	27810	26972	27509	26852	26930	27096

Table 3. Natural Change in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	-48	-2	-24	-2	8	-17	-30	-13	19	-1	2	39	15	54
Adams	-10	-15	1	3	0	-4	8	-6	19	-6	-2	5	-3	19
Allamakee	5	20	9	-21	25	31	17	19	37	52	45	74	80	63
Appanoose	-36	1	-27	-13	-9	-24	-35	16	-33	14	25	16	33	29
Audubon	-35	-48	-22	3	-1	-33	1	5	-1	61	20	2	10	76
Benton	101	97	114	121	57	36	48	85	90	115	45	100	136	201
Black Hawk	580	521	609	557	621	514	541	705	866	1095	984	1186	1291	1323
Boone	-33	23	34	40	30	26	36	27	45	66	61	46	103	105
Bremer	6	43	23	13	45	-5	7	44	90	101	132	181	185	190
Buchanan	46	125	122	117	137	106	142	97	187	170	177	236	277	255
Buena Vista	21	78	65	77	0	62	42	84	54	76	49	96	104	76
Butler	-26	-43	-14	15	-17	7	-12	0	21	59	68	69	76	118
Calhoun	-79	-65	-60	-18	-78	-63	-24	-5	-62	-34	3	23	6	18
Carroll	29	38	61	106	90	102	109	171	157	147	172	132	176	198
Cass	-2	-15	-8	-14	-33	-40	-35	-18	-43	38	15	43	97	31
Cedar	46	42	69	45	58	28	20	21	80	78	83	99	108	83
Cerro Gordo	88	110	164	205	194	149	142	186	257	161	263	237	237	261
Cherokee	-17	-5	-13	29	7	5	-11	55	15	39	57	60	73	62
Chickasaw	23	42	7	57	50	37	-15	52	27	67	83	149	99	99
Clarke	-25	2	-8	13	12	13	21	22	5	2	16	53	21	20
Clay	8	63	73	81	78	51	48	44	101	80	140	196	143	161
Clayton	28	8	15	41	35	9	18	20	37	43	78	93	147	108
Clinton	132	162	145	126	118	99	187	152	262	242	171	316	302	386
Crawford	29	25	50	58	44	96	105	46	49	66	126	111	99	142
Dallas	151	149	148	122	171	92	119	123	132	189	194	156	173	204
Davis	11	20	24	28	17	19	21	28	26	42	28	32	31	53
Decatur	-30	-40	-40	-15	-6	0	5	-23	-15	21	-34	0	26	10
Delaware	89	80	127	114	99	130	131	103	144	127	175	176	162	219
Des Moines	130	169	106	112	89	41	102	23	150	208	235	182	337	301
Dickinson	-45	3	0	0	-3	-32	28	20	15	26	22	55	47	94
Dubuque	398	358	390	420	331	396	471	381	477	540	573	649	695	781
Emmet	-5	-12	25	0	-35	17	12	16	16	9	59	63	81	68
Fayette	0	36	29	32	13	22	-6	-9	3	80	89	116	90	145
Floyd	-20	-12	7	16	1	-23	30	6	-10	59	72	24	78	28
Franklin	-25	9	0	4	-4	-20	-18	25	32	42	34	45	56	60
Fremont	-25	-24	2	-4	-24	-26	-40	-2	6	-14	2	-8	10	12
Greene	13	-18	-19	-34	-19	-42	-10	-10	-12	17	22	30	30	46
Grundy	14	24	2	29	8	-6	-7	12	4	58	52	20	59	89
Guthrie	-40	19	5	-20	-36	-73	-61	-43	-33	3	-22	-27	11	14
Hamilton	22	23	34	32	19	0	29	70	32	83	40	19	94	95
Hancock	-10	10	42	34	56	9	30	64	48	79	47	102	70	93
Hardin	-39	-75	-30	-24	-17	-2	-25	-30	26	37	81	91	56	105
Harrison	-51	0	-1	-11	14	-29	13	57	22	29	10	13	24	49
Henry	19	56	22	96	15	54	17	65	29	67	80	73	99	96
Howard	-13	4	-4	11	19	-18	-7	11	-7	15	26	36	19	72
Humboldt	-31	-40	-26	-23	37	21	25	24	33	53	59	60	78	52
Ida	-24	-10	-17	-8	64	7	-3	9	32	47	33	13	60	41
Iowa	41	33	53	39	84	9	-17	71	20	54	49	38	80	68
Jackson	30	56	45	43	8	50	53	63	116	105	151	137	145	133
Jasper	58	99	97	134	132	85	95	75	143	127	64	214	163	189

Table 3. Natural Change in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	11	25	13	39	57	48	16	49	57	53	56	41	42	63
Johnson	882	923	907	977	836	909	833	834	844	862	802	896	958	881
Jones	58	76	53	59	62	46	38	19	106	88	96	108	63	156
Keokuk	6	23	38	-15	1	-11	-5	-10	-11	16	-1	12	10	57
Kossuth	-4	3	19	54	51	42	54	59	58	98	130	114	123	180
Lee	63	96	41	98	69	50	109	80	136	195	134	217	205	237
Linn	1195	1414	1358	1404	1219	1177	1104	1038	1205	1318	1192	1420	1340	1555
Louisa	37	30	48	42	46	5	60	25	44	57	63	56	82	62
Lucas	10	-22	-11	-13	-46	-15	-6	-1	-42	13	-10	33	5	55
Lyon	26	64	19	63	39	87	59	23	62	74	87	109	133	102
Madison	19	-9	8	2	23	5	-3	-16	11	11	-10	30	15	71
Mahaska	54	44	76	35	73	58	66	65	51	64	91	99	87	167
Marion	83	86	61	45	83	40	129	71	152	95	141	186	142	193
Marshall	26	15	-48	17	-12	67	-3	128	118	171	183	194	242	246
Mills	10	41	41	7	21	31	25	31	29	64	62	30	89	92
Mitchell	-3	-27	13	-17	-23	-3	-33	39	-6	-12	4	4	33	54
Monona	-52	-17	-14	-42	-30	-48	-34	-20	-72	-32	9	-2	22	36
Monroe	23	-20	2	11	-41	-16	-5	-23	-4	13	-5	-6	-4	17
Montgomery	-42	9	-38	-23	-36	-30	-22	-41	-13	-16	42	10	36	53
Muscatine	262	281	285	308	305	275	177	294	253	246	349	390	373	375
O'Brien	7	7	-29	-6	13	-27	-25	47	19	37	68	59	121	81
Osceola	9	9	19	28	22	23	-14	-9	11	17	32	43	31	32
Page	-47	-58	-57	-30	6	-26	-50	-55	-21	-30	-27	-6	-15	47
Palo Alto	-44	-12	-33	-45	1	-14	-23	-6	32	27	66	37	67	61
Plymouth	83	73	71	111	90	96	110	166	88	164	166	148	248	181
Pocahontas	-31	-28	-28	3	-22	-25	-19	7	17	5	29	-26	17	-9
Polk	2843	3094	2880	2828	2974	2394	2503	2457	2554	2482	2513	2596	2700	2631
Pottawattamie	424	530	545	615	550	466	433	581	532	579	654	659	698	682
Poweshiek	21	11	67	30	31	-3	-1	24	25	11	69	62	74	55
Ringgold	-45	-20	-21	-40	-12	-15	-18	-35	-10	14	-2	33	-9	2
Sac	-37	-15	-19	-33	-24	-23	-19	-19	1	14	-3	-5	62	88
Scott	1101	1259	1238	1325	1158	1157	1075	1309	1369	1433	1407	1658	1615	1781
Shelby	16	8	3	31	2	7	25	9	16	98	50	94	31	85
Sioux	195	215	221	206	194	216	219	259	233	284	346	326	355	400
Story	365	466	447	512	469	537	522	526	610	682	679	606	693	653
Tama	3	56	-3	-11	9	31	35	18	18	50	68	98	25	78
Taylor	-25	-19	-52	-13	-54	-25	-33	-51	-7	-4	-24	6	-8	21
Union	-11	-11	-22	-19	10	-28	-23	-1	-17	-1	9	22	52	59
Van Buren	2	-6	-10	2	-25	-11	-4	-22	-10	28	-12	8	37	7
Wapello	2	4	-7	17	25	-56	4	-39	25	21	-8	123	70	99
Warren	214	283	268	196	227	195	245	220	262	228	255	272	297	324
Washington	37	63	34	92	84	68	79	65	34	81	56	104	90	119
Wayne	-30	-38	-28	-9	-19	-15	-32	-49	-42	-17	-45	-4	-37	-5
Webster	51	84	74	146	146	94	105	126	158	163	185	244	186	288
Winnebago	-29	-17	-13	10	40	14	5	52	23	19	35	44	17	64
Winneshiek	54	96	76	40	86	74	87	67	58	114	97	131	112	148
Woodbury	669	691	705	692	540	565	599	517	702	651	675	678	838	809
Worth	-2	-3	3	-16	21	-20	-4	-5	9	12	2	30	25	34
Wright	-54	-2	13	36	26	-13	-4	-14	-3	14	29	12	11	39
State of Iowa	9854	11879	11619	12515	11769	10219	10653	11727	13372	15388	15738	17864	18988	20701

when the two years are compared; indeed, the difference in either direction was 10 or less in 29 counties. An additional 10 or more deaths were reported in 1993 than in 1983 in 36 counties, but deaths decreased by 10 or more in 37 others.

Natural Change

The result of subtracting deaths from births is called natural change. This is an indication of population change caused by the natural events of birth and death. Iowa has had more births than deaths each year during the 1980-1993 period (Table 3). But births outnumbered deaths by a smaller margin 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.

Sixty Iowa counties reported natural increases (more births than deaths) in 1993. These increases ranged from less than 50 in 34 counties to more than 100 in 16 others. Three counties (Linn, Polk, Scott) had at least 1,000 more births than deaths in 1993. Three others (Black Hawk, Johnson, Woodbury) had natural increases of at least 500 that year.

Thirty-eight counties had natural decreases (more deaths than births) in 1993 (Figure 3). Deaths outnumbered births by more than 75 only in Calhoun; three other counties had at least 50 fewer births than deaths (Harrison, Monona, Wright). In 1980, only two counties (Pocahontas, Wayne) reported more deaths than births. The total of 38 counties experiencing natural decrease in 1993 was higher than that reported in 1992 but still below the high of 39 with more deaths than births noted in 1987 (Figure 4).

Forty-one counties had more births than deaths every year from 1980 through 1993. Only Wayne had more deaths than births every year, although 23 others had natural decreases occurring in at least 7 of the 14 years examined.

Concluding Comments

While the number of deaths in Iowa has changed relatively little through the 1980s and early 1990s, births have declined substantially. At the beginning of the 1980s, the state and nearly all counties had more births than deaths. More recently, however, there has been a greater number of counties experiencing more deaths than births. These trends suggest that many counties will continue to have difficulty adding to their populations through natural events.

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

Figure 1. Births in Iowa, 1980-1993.

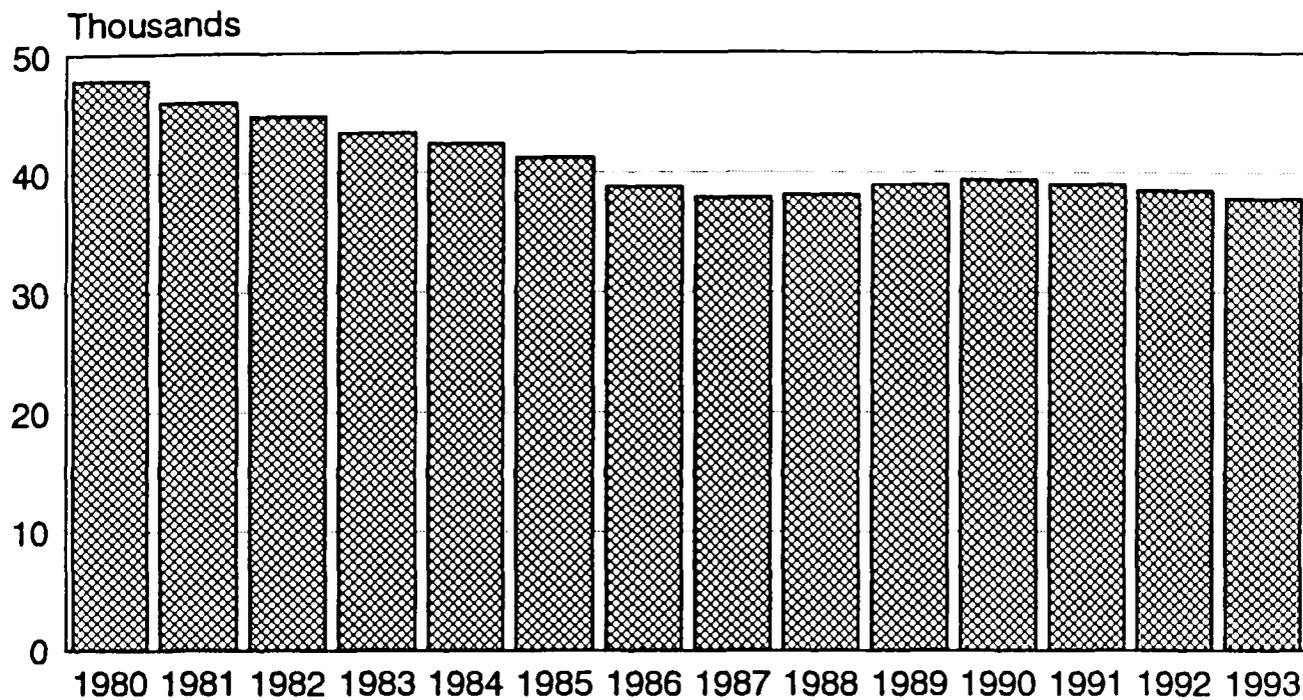


Figure 2. Deaths in Iowa, 1980-1993.

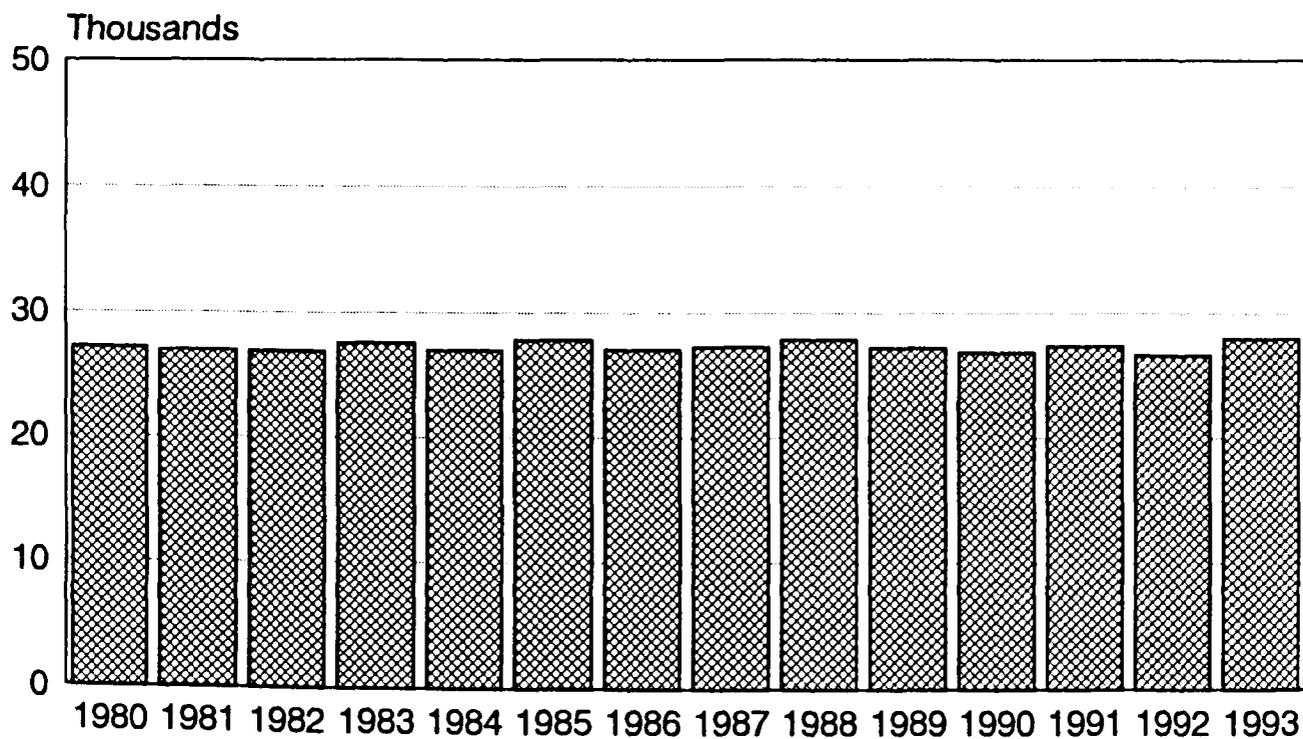


Figure 3. Natural change, 1993.

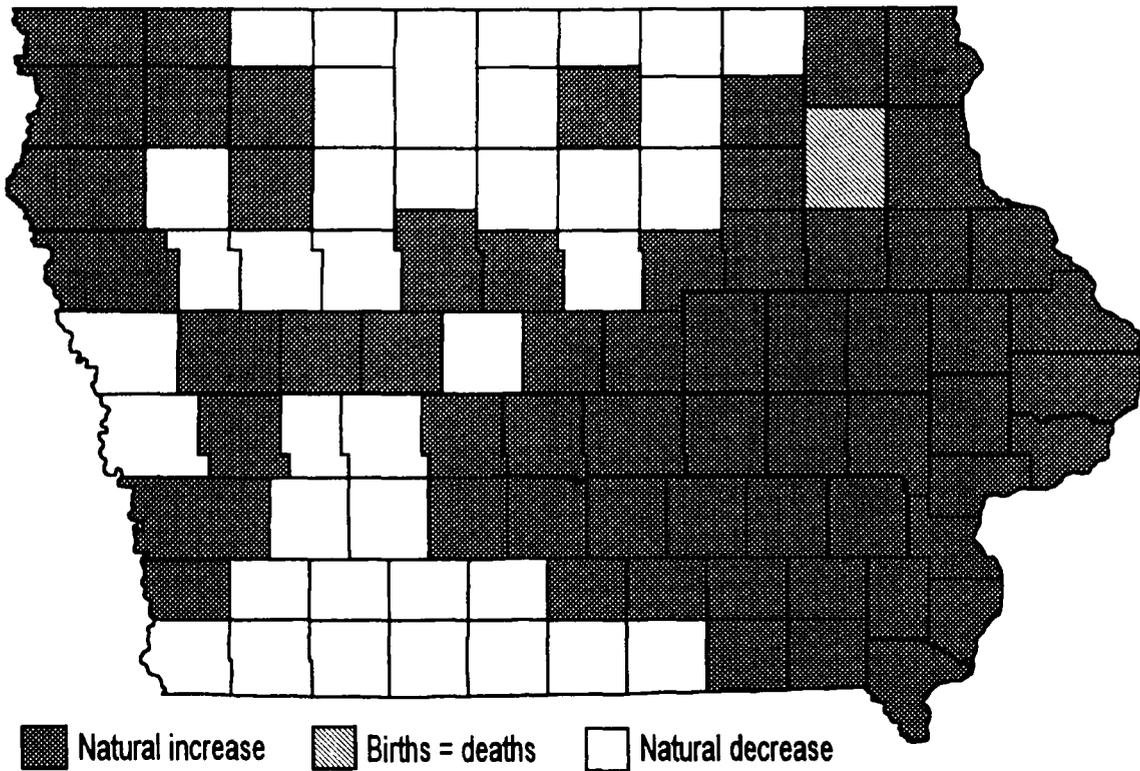
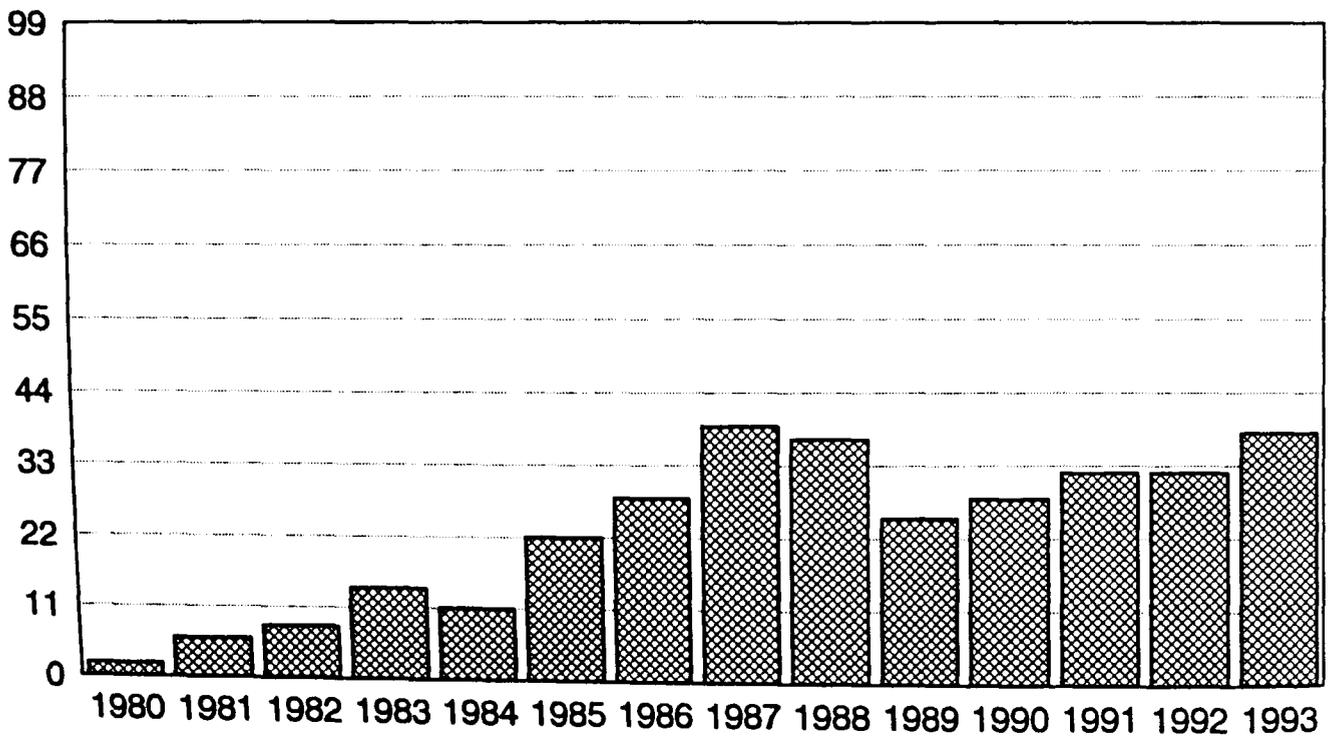


Figure 4. Number of counties with natural decrease in Iowa, 1980-1993.



Estimated Birth and Death Rates in Iowa's Counties:

1980-1993

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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. Caution is urged in examining the 1981-1989 and 1991-1993 rates; they are based on population estimates provided by the U.S. Bureau of the Census. The 1992 population estimates were used to calculate the 1993 rates because the 1993 population estimates were not released before this volume was printed.

Iowa and National Birth and Death Rates

The birth rate for Iowa has dropped substantially since 1980 (Figure 1). There were at least two more births per 1,000 residents in 1980 (16.4) than in 1986-1993, although the rate was up half a point from 1987 to 1990. The death rate in Iowa has not changed as much; it increased from 9.3 in 1980 to 10.1 in 1988, declined to 9.5 in 1992, and increased again to 10.0 in 1993. Although Iowa's death rate is somewhat higher than that for the nation (1980, 8.7; 1993, 8.8), the pattern of change has been similar. But the direction of change for birth rates in Iowa and the United States was in marked contrast during most of the period. Iowa's birth rate declined during much of the 1980s, while it increased in the nation; more recently, however, the country's birth rate began to decline so that the 1980 (15.8) and 1993 (15.7) figures are nearly identical. In 1980, Iowa's birth rate was more than a half point above that of the nation; by 1993, however, Iowa's figure of 13.5 was more than two points below that of the United States.

County Data on Birth and Death Rates

In 1993, 23 counties had birth rates above the state figure of 13.5 (Table 1). Five counties (Louisa, Muscatine, Polk, Scott, Woodbury) had rates two points or more above that for Iowa, while another three (Iowa, Linn, Monroe) had rates at least a point above the state average. Of the 75 counties with birth rates below that of the state, 34 fell at least two points under the state level and another 23 were at least one but less than two points below 13.5. Adair, Calhoun, Clarke, Dickinson, Guthrie, Page, Pocahontas, and Ringgold had fewer than 10 births for every 1,000 residents in 1993.

Death rates in 1993 varied from under 7.0 (Johnson, Story) to 15.0 or more (Audubon, Harrison, Monona, Montgomery, Ringgold) in Iowa's counties (Table 2). Although only six counties (Johnson, Linn, Polk, Sioux, Story, Warren) had death rates two points or more below the state average of 10.0, 45 counties reported rates two or more points greater than that for the state. Sixteen counties had rates at least four points higher than did the state. A total of 77 counties had death rates above the state figure.

Differences between county birth rates in 1983 and 1993 generally mirror the decline reported for the state. Only eight counties (Benton, Iowa, Louisa, Lucas, Madison, Monroe, Van Buren, Wapello) had higher birth rates in 1993 than in 1983. Fifteen had birth rates in 1993 that were less than a point lower than their rates for 1983. But the differences were at least five points in six counties. Carroll and Palo Alto had birth rates in 1993 that were at least six points lower than 10 years earlier.

For the most part, death rates changed far less than did birth rates. Sixty-seven counties had higher death rates in 1993 than in 1983, as did the state. But in only Bremer and Montgomery was the

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1993.

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	8.9	12.7	10.4	12.1	12.9	10.1	11.0	12.8	13.6	12.5	12.5	15.4	13.3	17.5
Adams	11.0	8.8	13.6	12.3	14.0	14.5	12.1	10.6	13.7	13.5	11.7	14.4	11.4	16.4
Allamakee	12.7	14.4	12.6	12.8	15.2	14.2	14.3	14.6	15.0	14.8	14.8	15.9	16.6	16.7
Appanoose	11.9	12.7	12.4	12.1	12.0	12.0	11.5	12.7	13.1	13.4	13.0	12.1	14.9	15.5
Audubon	10.1	9.9	10.5	12.4	11.2	10.9	12.5	11.3	13.7	16.2	14.5	14.2	13.2	17.6
Benton	13.6	13.4	14.9	14.2	13.0	12.8	12.7	13.2	13.7	14.4	12.7	13.2	14.8	17.5
Black Hawk	14.1	13.2	13.8	13.7	13.7	13.3	13.1	13.8	15.0	15.6	15.5	16.4	16.9	17.3
Boone	10.9	11.5	12.3	13.1	12.3	13.8	12.6	11.7	12.8	13.0	13.4	14.1	14.6	15.1
Bremer	11.9	11.4	10.4	10.6	11.3	10.3	10.7	11.5	12.5	12.6	13.0	14.9	16.1	16.8
Buchanan	13.2	15.6	14.4	14.5	16.1	14.9	15.6	13.6	16.8	17.1	17.3	19.8	19.5	19.5
Buena Vista	11.9	13.7	13.3	14.4	12.6	15.0	13.1	14.4	15.3	13.9	14.6	15.0	16.5	15.5
Butler	10.8	10.1	10.3	11.7	11.4	11.8	11.2	12.8	12.0	14.2	15.0	14.6	13.4	16.1
Calhoun	7.9	10.5	9.7	11.3	10.7	9.5	12.3	12.7	12.1	11.0	13.1	14.8	12.7	15.1
Carroll	12.1	12.7	13.0	14.9	13.6	14.4	15.5	16.3	16.6	17.0	18.4	16.9	18.1	19.0
Cass	11.9	11.3	13.7	12.7	12.6	12.4	10.6	12.9	12.2	15.1	13.5	15.0	16.8	14.2
Cedar	11.6	11.2	12.5	12.7	12.9	11.4	10.8	10.9	13.8	13.7	13.9	14.4	15.3	14.0
Cerro Gordo	12.6	12.8	13.2	14.7	14.0	13.2	13.2	13.6	14.9	14.1	14.7	14.8	14.9	15.0
Cherokee	10.1	11.3	10.9	14.2	12.5	11.8	11.4	14.2	13.0	13.2	14.4	14.6	15.2	14.7
Chickasaw	13.6	12.6	12.6	15.0	13.6	12.6	11.2	14.2	12.2	15.0	14.8	17.4	17.0	16.7
Clarke	9.7	12.6	12.7	12.8	14.5	13.3	13.7	13.1	13.8	12.2	13.1	15.6	14.1	14.6
Clay	10.7	13.3	14.7	13.6	14.9	12.9	13.7	13.7	14.7	13.7	15.9	18.6	16.2	17.7
Clayton	12.9	12.2	13.5	12.7	13.6	12.1	12.9	13.0	14.8	13.7	14.9	15.7	17.4	16.3
Clinton	13.3	13.3	13.5	13.4	13.2	13.2	13.3	13.5	14.1	14.5	14.0	15.2	15.6	16.1
Crawford	12.5	11.8	12.3	13.6	12.0	14.6	15.7	13.9	14.3	13.7	17.2	15.6	15.9	17.0
Dallas	13.8	13.7	14.1	13.7	15.2	13.2	14.7	13.5	13.7	15.6	15.7	14.7	14.7	15.8
Davis	14.2	12.9	15.3	15.4	14.0	13.7	12.9	14.3	15.2	14.3	16.5	15.2	16.4	16.4
Decatur	10.9	10.9	11.6	10.9	11.7	11.6	12.9	10.8	11.9	12.3	11.5	14.2	12.8	13.2
Delaware	14.3	14.3	14.9	15.8	14.6	16.1	15.8	15.6	17.3	16.6	18.2	19.3	17.6	21.2
Des Moines	13.0	13.3	13.6	13.3	13.7	13.1	12.6	12.0	15.3	14.7	14.7	14.8	16.1	16.6
Dickinson	8.3	10.0	10.7	10.7	10.6	10.0	11.9	11.1	11.8	12.8	11.7	14.7	12.8	14.7
Dubuque	14.4	13.4	14.2	14.6	13.7	13.6	14.4	13.7	14.3	15.2	15.2	15.7	16.5	16.9
Emmet	12.1	11.6	13.3	11.6	10.5	11.9	12.4	11.7	12.8	12.5	15.3	15.2	16.1	17.0
Fayette	11.7	12.8	13.5	13.2	12.8	13.6	12.0	12.3	12.7	14.8	14.8	16.3	15.2	15.9
Floyd	11.8	12.1	13.1	12.8	12.7	11.3	11.9	11.9	12.7	12.8	15.0	13.1	14.3	13.2
Franklin	10.8	11.3	11.5	10.9	11.6	11.8	11.8	12.2	14.0	15.4	13.0	13.8	14.8	15.0
Fremont	11.1	12.7	13.1	12.2	11.9	12.2	11.9	14.3	13.1	13.0	13.7	12.8	14.3	13.9
Greene	12.9	12.3	12.4	10.8	10.2	11.3	13.1	11.7	13.1	15.0	14.4	14.0	16.4	15.0
Grundy	11.7	9.4	11.4	12.1	11.4	11.6	9.7	11.6	10.8	12.6	13.6	12.0	12.8	15.8
Guthrie	9.4	13.9	12.4	11.2	10.2	10.6	9.4	10.2	10.4	13.4	12.5	12.7	13.5	14.9
Hamilton	12.0	12.8	13.7	13.0	13.1	12.1	11.9	14.4	11.7	14.8	13.5	12.5	14.5	14.4
Hancock	10.2	11.5	12.6	13.0	13.0	12.4	12.8	14.4	14.2	15.7	14.2	17.2	15.9	18.2
Hardin	10.9	10.2	11.0	11.2	11.1	11.6	11.1	11.5	12.9	13.3	14.6	15.0	14.7	16.0
Harrison	12.2	13.7	13.7	12.7	12.9	12.7	14.8	15.0	14.7	13.9	12.7	13.5	13.7	15.5
Henry	12.9	13.2	12.3	13.8	11.8	13.0	12.4	13.2	12.6	14.2	14.0	14.4	14.8	16.0
Howard	11.4	12.8	11.6	13.8	12.7	11.0	14.4	13.7	13.0	14.8	15.1	15.5	14.4	16.6
Humboldt	10.5	9.5	9.8	10.4	12.6	13.2	12.6	13.2	14.0	15.7	14.9	15.8	15.7	15.4
Ida	11.2	11.4	12.1	12.8	17.9	14.6	13.4	13.7	15.4	16.8	16.6	13.4	17.9	16.6
Iowa	14.5	13.3	14.1	14.6	16.1	12.1	12.2	14.4	12.1	14.3	14.4	14.2	14.9	14.8
Jackson	12.9	12.9	14.4	12.6	12.6	13.4	13.9	13.4	16.0	14.9	15.9	16.2	16.6	16.4
Jasper	12.1	13.0	13.5	12.4	13.3	12.8	12.7	12.1	13.6	13.2	12.5	14.7	14.0	14.6

*1993 rates were calculated with 1992 population estimates.

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	10.8	11.2	11.4	11.8	12.3	12.7	10.9	13.4	13.6	13.7	14.4	12.8	13.1	13.3
Johnson	13.7	13.9	14.1	14.6	13.7	14.4	14.2	14.3	15.0	15.0	14.6	15.3	16.1	15.6
Jones	11.9	12.3	13.0	12.9	12.2	12.5	11.4	11.4	14.8	13.2	13.8	14.0	13.5	15.8
Keokuk	12.4	12.7	15.2	12.9	13.0	13.5	12.4	11.3	12.7	14.8	14.7	13.1	15.6	17.3
Kossuth	12.1	11.0	12.4	13.5	12.7	12.9	13.0	13.5	12.8	14.2	16.7	16.2	15.4	18.1
Lee	13.5	13.9	12.7	12.8	12.7	13.0	13.7	13.0	14.4	14.0	14.2	14.7	15.6	16.1
Linn	14.8	15.3	15.4	15.6	14.9	14.9	14.4	14.3	14.9	15.1	15.0	15.8	15.2	16.6
Louisa	16.1	12.5	12.8	14.1	12.9	12.1	14.4	12.4	12.3	13.4	14.3	14.8	16.5	14.3
Lucas	12.9	11.1	12.2	12.8	10.1	11.9	10.8	11.8	11.3	13.1	11.4	16.0	13.1	16.5
Lyon	13.6	15.1	13.1	14.9	14.0	15.3	14.8	13.2	14.8	15.4	16.2	16.9	18.6	18.3
Madison	12.7	12.2	12.6	12.7	13.5	13.1	11.3	11.4	13.4	12.6	12.2	12.7	12.4	15.6
Mahaska	12.9	12.3	14.0	13.2	14.8	13.7	13.8	15.1	14.6	14.7	15.4	15.4	14.7	17.5
Marion	13.0	13.7	12.1	12.5	13.2	12.1	13.7	12.5	14.9	13.6	14.6	15.5	14.7	15.1
Marshall	13.9	12.5	12.0	13.1	12.7	12.7	11.7	13.1	13.8	14.3	15.0	14.8	15.6	16.2
Mills	11.9	11.3	12.8	10.3	12.7	11.6	13.1	12.9	12.5	14.4	12.9	13.0	15.7	16.8
Mitchell	14.3	11.7	13.6	12.0	11.5	12.3	11.9	13.1	12.9	12.9	14.6	12.9	14.1	15.9
Monona	10.7	14.6	13.4	11.4	11.1	10.2	10.6	12.3	9.7	12.5	15.4	13.8	14.0	15.3
Monroe	14.5	12.0	13.6	14.3	11.9	10.8	13.0	12.4	12.7	14.0	13.6	12.4	14.8	14.4
Montgomery	12.0	14.0	11.6	13.1	12.4	12.3	12.7	11.0	11.8	13.6	14.4	13.9	14.0	15.3
Muscatine	15.7	16.1	16.7	16.7	17.2	15.5	14.2	15.9	15.6	15.5	17.3	18.2	17.9	17.7
O'Brien	12.4	13.0	11.4	11.9	12.6	11.1	11.8	12.9	13.1	14.1	15.5	16.3	16.9	16.4
Osceola	11.3	12.0	14.8	12.9	13.8	14.1	11.8	11.7	13.8	13.0	16.1	15.3	15.4	16.4
Page	9.9	10.0	10.7	11.9	13.1	12.5	11.1	10.6	13.2	11.2	12.3	12.7	14.1	14.2
Palo Alto	10.4	10.7	10.5	8.9	13.0	12.3	11.1	11.8	15.2	13.3	17.3	14.7	16.9	16.4
Plymouth	13.0	13.4	12.6	14.8	13.2	13.1	15.0	15.9	14.1	17.0	17.1	16.0	18.3	17.3
Pocahontas	9.5	10.7	11.1	13.0	11.3	13.7	10.9	11.7	15.5	13.8	14.6	13.7	13.4	14.1
Polk	16.1	16.4	16.5	16.4	17.2	15.8	15.9	16.0	16.5	16.0	16.3	16.3	16.7	16.8
Pottawattamie	14.2	15.1	15.7	16.5	15.5	15.5	14.9	15.8	15.7	16.1	16.7	16.4	17.0	17.0
Poweshiek	10.8	11.3	12.5	11.9	11.9	10.7	10.0	11.9	11.6	11.7	12.8	13.3	13.5	12.8
Ringgold	7.1	10.7	9.9	8.1	9.7	10.3	11.0	8.1	13.5	14.1	11.8	17.5	13.2	14.1
Sac	11.5	11.6	10.3	11.8	12.4	11.5	11.9	12.0	13.5	13.7	13.0	13.3	16.8	16.6
Scott	15.5	16.0	15.7	16.1	15.8	15.8	15.2	16.7	16.5	16.9	16.8	17.2	17.6	18.5
Shelby	12.4	11.7	11.8	13.8	12.3	12.7	12.8	11.6	12.0	16.1	14.4	16.2	12.7	16.8
Sioux	14.4	14.3	14.5	14.5	14.5	15.7	15.4	16.5	16.8	17.0	18.7	18.3	19.1	20.6
Story	10.6	11.8	12.1	12.5	11.9	12.8	12.7	12.8	14.0	14.2	14.7	14.0	14.5	14.6
Tama	13.0	13.0	12.3	12.3	12.5	11.7	13.1	12.5	13.4	13.7	14.1	14.8	13.4	14.8
Taylor	10.0	10.8	9.0	12.9	11.0	10.1	11.6	9.4	11.6	12.6	12.4	16.0	14.3	16.2
Union	12.2	12.0	11.3	11.6	13.1	11.2	11.8	12.9	11.4	12.2	13.9	14.0	16.3	15.3
Van Buren	14.0	11.8	12.7	11.6	12.1	15.7	13.1	11.8	13.2	13.4	13.2	13.7	15.8	14.6
Wapello	13.0	11.8	13.5	13.7	13.6	11.8	12.3	12.6	12.3	13.8	12.3	14.3	13.7	14.8
Warren	13.4	13.8	15.0	13.3	14.0	13.7	13.9	13.4	14.5	14.1	14.0	14.3	14.7	15.8
Washington	13.6	13.4	14.0	15.7	15.4	14.3	15.3	13.9	13.6	15.5	14.2	14.4	14.5	16.2
Wayne	10.3	10.7	10.6	11.7	10.9	12.6	10.4	10.2	12.8	12.0	10.7	11.7	13.0	15.0
Webster	13.4	14.2	14.0	14.8	14.9	14.5	14.5	13.8	14.8	14.5	15.2	16.3	14.8	16.5
Winnebago	10.2	11.8	11.5	12.2	13.6	13.6	12.6	13.9	12.9	13.5	13.7	14.2	12.8	15.1
Winneshiek	10.9	12.1	12.1	12.4	12.8	12.9	12.8	13.6	13.4	14.8	14.8	14.2	13.7	14.9
Woodbury	16.5	16.7	16.3	16.6	15.3	16.2	15.9	14.9	16.7	16.1	16.5	16.8	17.9	17.8
Worth	12.0	11.6	12.6	12.4	13.2	12.2	12.0	12.1	13.4	13.1	12.4	14.5	14.3	14.0
Wright	11.0	12.0	13.3	15.0	13.3	12.2	12.3	11.5	12.7	12.8	13.1	13.1	13.7	15.1
State of Iowa	13.5	13.7	14.0	14.2	14.0	13.8	13.7	13.9	14.6	14.8	15.1	15.5	15.8	16.4

Table 2. Estimated Death Rates per 1,000 Population in Iowa Counties, 1980-1993.

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	14.7	12.9	13.3	12.4	12.0	12.1	14.5	14.3	11.5	12.6	12.3	11.2	11.7	11.8
Adams	13.2	12.1	13.4	11.7	14.0	15.3	10.5	11.7	10.2	14.6	12.0	13.5	11.9	13.1
Allamakee	12.4	13.0	11.9	14.3	13.4	12.0	13.1	13.3	12.4	11.3	11.8	11.0	11.3	12.5
Appanoose	14.6	12.6	14.4	13.0	12.7	13.7	14.0	11.6	15.4	12.5	11.4	11.1	12.8	13.7
Audubon	15.1	16.6	13.5	12.0	11.3	15.3	12.4	10.7	13.8	8.9	12.1	14.0	12.0	8.8
Benton	9.1	9.1	9.9	8.8	10.5	11.2	10.6	9.4	9.7	9.3	10.7	8.9	9.0	9.0
Black Hawk	9.5	9.0	9.0	9.2	8.6	9.1	8.7	8.2	8.3	7.5	8.2	7.7	7.5	7.7
Boone	12.2	10.6	11.0	11.5	11.1	12.7	11.2	10.6	11.0	10.4	11.0	12.3	10.7	11.1
Bremer	11.7	9.5	9.4	10.0	9.3	10.6	10.3	9.6	8.7	8.5	7.7	7.5	8.6	9.1
Buchanan	11.0	9.6	8.6	8.9	9.5	9.8	8.8	9.0	8.3	9.5	9.5	9.5	7.4	8.4
Buena Vista	10.9	9.8	10.0	10.5	12.6	11.9	11.0	10.3	12.6	10.2	12.2	10.4	11.5	11.8
Butler	12.4	12.9	11.2	10.7	12.4	11.4	11.9	12.8	10.7	10.7	11.1	10.7	9.1	9.4
Calhoun	14.8	16.2	14.9	12.9	17.4	14.9	14.4	13.1	17.1	13.6	12.9	13.1	12.2	13.7
Carroll	10.7	10.9	10.2	10.0	9.4	9.7	10.5	8.6	9.6	10.5	10.8	11.1	10.4	10.4
Cass	12.0	12.3	14.2	13.6	14.8	15.0	12.8	14.0	14.8	12.9	12.6	12.5	11.1	12.4
Cedar	8.9	8.8	8.5	10.1	9.6	9.8	9.7	9.8	9.4	9.5	9.5	9.0	9.5	9.5
Cerro Gordo	10.8	10.5	9.7	10.3	9.9	10.0	10.2	9.8	9.6	10.8	9.3	9.9	10.0	9.6
Cherokee	11.3	11.7	11.8	12.1	12.0	11.5	12.2	10.5	12.0	10.7	10.9	10.8	10.7	10.8
Chickasaw	11.8	9.4	12.0	10.7	9.8	9.8	12.3	10.5	10.4	10.5	9.3	7.6	10.5	10.3
Clarke	12.7	12.4	13.7	11.2	13.1	11.8	11.1	10.5	13.2	12.0	11.2	9.5	11.7	12.3
Clay	10.3	9.7	10.5	9.0	10.4	9.9	10.9	11.2	9.2	9.5	8.6	8.4	8.8	9.5
Clayton	11.4	11.7	12.7	10.5	11.8	11.6	12.0	12.0	12.9	11.7	11.1	11.2	10.4	11.1
Clinton	10.7	10.1	10.6	11.0	10.9	11.2	9.7	10.6	9.2	10.0	10.9	9.6	10.2	9.3
Crawford	10.8	10.3	9.3	10.1	9.4	9.2	9.8	11.3	11.7	10.1	10.5	9.7	10.6	9.5
Dallas	8.9	8.8	9.2	9.6	9.3	10.0	10.6	9.3	9.2	9.1	9.1	9.3	8.8	8.9
Davis	12.9	10.5	12.4	12.0	11.9	11.5	10.4	11.0	12.3	9.6	13.3	11.6	13.0	10.5
Decatur	14.6	15.8	16.5	12.7	12.4	11.6	12.3	13.4	13.6	10.0	15.2	14.2	10.2	12.2
Delaware	9.4	9.9	7.9	9.5	9.1	8.9	8.5	9.9	9.5	9.8	8.9	9.9	9.0	9.6
Des Moines	10.0	9.3	11.1	10.7	11.6	12.1	10.2	11.5	11.9	10.0	9.4	10.7	8.8	10.1
Dickinson	11.3	9.8	10.7	10.7	10.8	12.2	10.0	9.8	10.8	11.1	10.2	11.2	9.8	8.6
Dubuque	9.8	9.3	9.7	9.7	9.8	9.1	9.0	9.3	9.0	9.2	8.9	8.7	9.1	8.6
Emmet	12.6	12.6	11.2	11.6	13.5	10.4	11.3	10.3	11.5	11.8	10.7	10.4	10.0	11.9
Fayette	11.7	11.1	12.2	11.8	12.2	12.6	12.2	12.7	12.6	11.5	11.2	11.6	11.6	10.2
Floyd	13.0	12.8	12.7	11.9	12.7	12.6	10.1	11.6	13.3	9.7	11.2	11.8	10.2	11.8
Franklin	13.0	10.5	11.5	10.6	11.9	13.5	13.3	10.2	11.4	12.1	10.3	10.2	10.5	10.4
Fremont	14.1	15.6	12.9	12.6	14.8	15.3	16.5	14.5	12.5	14.5	13.5	13.6	13.2	12.7
Greene	11.6	14.1	14.3	14.1	12.1	15.4	14.1	12.7	14.2	13.5	12.6	11.5	13.9	11.2
Grundy	10.6	7.4	11.2	9.7	10.7	12.1	10.3	10.6	10.5	8.3	9.8	10.5	8.7	9.6
Guthrie	13.0	12.2	12.0	13.0	13.5	17.2	14.9	14.0	13.3	13.2	14.4	15.1	12.6	13.8
Hamilton	10.6	11.4	11.6	11.0	11.9	12.1	10.2	10.3	9.8	9.9	11.2	11.4	9.2	9.1
Hancock	11.0	10.7	9.2	10.3	8.7	11.7	10.5	9.5	10.6	9.9	10.7	9.6	10.8	11.5
Hardin	13.0	14.2	12.6	12.4	12.0	11.7	12.4	13.0	11.7	11.5	10.8	10.8	12.1	11.2
Harrison	15.7	13.7	13.8	13.4	11.9	14.7	14.0	11.3	13.3	12.0	12.0	12.7	12.2	12.5
Henry	12.0	10.3	11.1	8.8	11.0	10.1	11.5	9.8	11.1	10.6	9.7	10.5	9.5	11.0
Howard	12.7	12.4	12.0	12.6	10.8	12.8	15.1	12.6	13.6	13.4	12.7	12.2	12.6	10.1
Humboldt	13.4	13.3	12.2	12.6	9.2	11.2	10.3	11.1	11.2	11.2	10.0	10.8	9.3	11.1
Ida	14.1	12.6	14.1	13.7	10.3	13.8	13.7	12.7	11.8	11.5	12.8	11.9	11.1	12.0
Iowa	11.7	11.1	10.5	11.9	10.4	11.5	13.3	9.7	10.7	10.7	11.1	11.7	9.7	10.4
Jackson	11.4	10.1	12.1	10.5	12.2	10.9	11.4	10.4	10.6	10.1	9.0	10.0	10.1	10.5
Jasper	10.5	10.2	10.8	8.6	9.5	10.4	9.9	9.9	9.5	9.6	10.7	8.7	9.5	9.4

*1993 rates were calculated with 1992 population estimates.

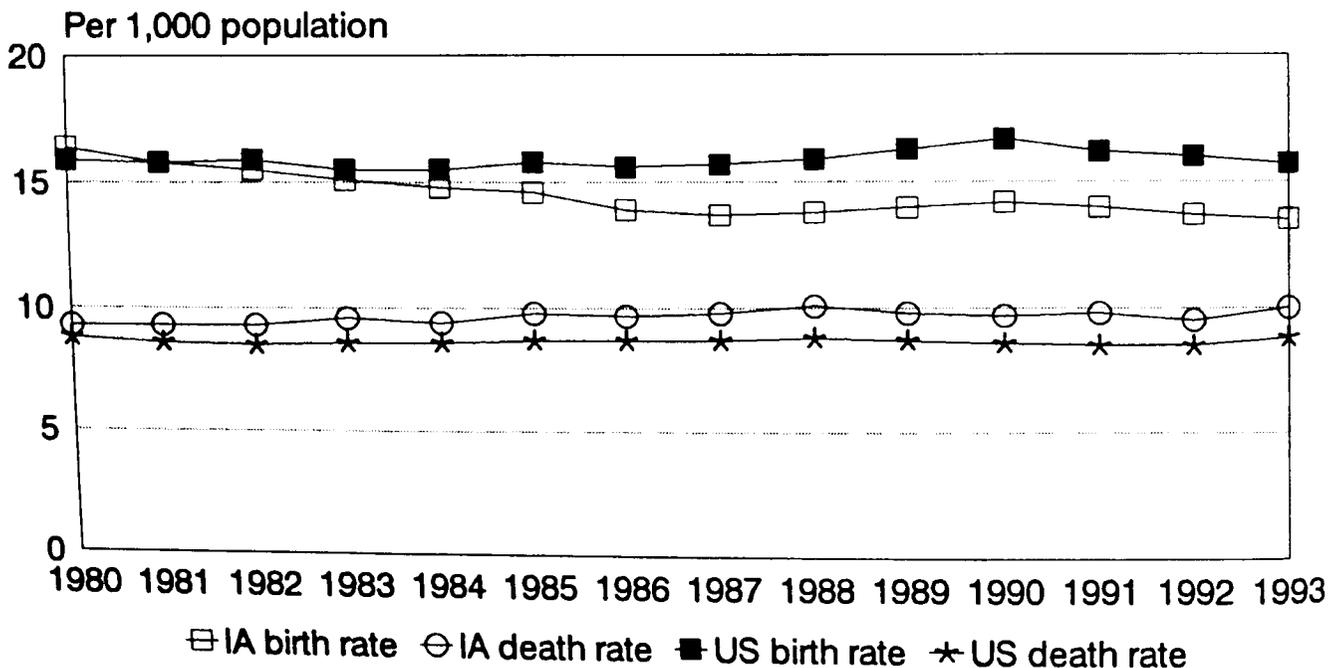
Table 2. Estimated Death Rates per 1,000 Population in Iowa Counties, 1980-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	10.1	9.7	10.6	9.4	8.9	9.8	9.9	10.4	10.1	10.4	11.0	10.3	10.4	9.4
Johnson	4.7	4.5	4.7	4.5	4.9	4.5	5.0	5.0	5.4	5.1	5.3	4.8	4.7	4.8
Jones	9.0	8.5	10.3	9.9	9.0	10.1	9.4	10.4	9.4	8.7	9.0	8.6	10.4	8.2
Keokuk	11.8	10.7	11.9	14.2	13.0	14.5	12.8	12.1	13.6	13.5	14.8	12.2	14.8	12.8
Kossuth	12.3	10.8	11.3	10.6	10.0	10.7	10.2	10.5	10.0	9.5	10.5	10.8	9.7	9.9
Lee	11.9	11.4	11.6	10.3	10.9	11.7	11.0	11.1	11.1	9.3	11.0	9.6	10.8	10.6
Linn	7.8	7.1	7.5	7.3	7.7	7.8	7.7	8.0	7.6	7.1	7.8	7.3	7.3	7.5
Louisa	12.9	9.9	8.6	10.4	8.9	11.7	9.2	10.2	8.6	8.7	9.1	10.2	9.8	9.1
Lucas	11.8	13.5	13.4	14.2	15.1	13.5	11.4	11.9	15.6	11.9	12.4	12.7	12.7	11.2
Lyon	11.4	9.7	11.5	9.6	10.7	8.0	9.8	11.3	9.8	9.5	9.4	8.3	8.2	10.4
Madison	11.3	12.9	12.0	12.5	11.6	12.7	11.5	12.7	12.5	11.7	13.0	10.3	11.2	10.0
Mahaska	10.4	10.3	10.5	11.6	11.3	11.0	10.7	12.1	12.2	11.8	11.3	10.9	10.8	10.2
Marion	10.2	10.8	10.1	11.0	10.5	10.8	9.3	10.1	9.7	10.4	9.9	9.3	10.0	8.6
Marshall	13.2	12.1	13.3	12.7	13.1	11.0	11.8	9.9	10.8	10.2	10.6	10.1	9.8	10.3
Mills	11.1	8.2	9.7	9.8	11.1	9.2	11.2	10.6	10.3	9.6	8.3	10.8	9.1	9.9
Mitchell	14.6	14.2	12.4	13.5	13.6	12.6	14.9	9.6	13.5	13.9	14.3	12.6	11.4	11.5
Monona	15.9	16.3	14.8	15.5	14.1	14.9	13.9	14.2	16.3	15.3	14.6	13.9	12.1	12.2
Monroe	11.7	14.4	13.4	12.9	16.9	12.8	13.6	15.2	13.2	12.5	14.1	13.1	15.2	12.6
Montgomery	15.5	13.2	14.8	15.0	15.4	14.8	14.5	14.3	12.9	14.8	11.2	13.2	11.3	11.3
Muscatine	9.3	9.2	9.7	8.9	9.5	8.6	9.7	8.5	9.4	9.5	8.8	8.8	8.8	8.4
O'Brien	12.0	12.5	13.3	12.3	11.7	12.9	13.4	10.0	11.9	11.9	11.5	12.8	9.8	11.7
Osceola	10.0	10.7	12.1	9.1	10.7	11.0	13.7	12.9	12.4	10.9	12.2	10.0	11.6	12.5
Page	12.8	13.5	14.1	13.6	12.7	14.0	14.1	13.8	14.4	12.9	13.8	13.1	14.9	11.7
Palo Alto	14.6	11.8	13.6	13.1	12.9	13.5	13.2	12.3	12.5	11.1	12.0	11.8	11.6	11.6
Plymouth	9.5	10.3	9.6	10.0	9.4	9.1	10.3	8.9	10.4	10.2	10.3	10.0	8.3	9.9
Pocahontas	12.9	13.7	14.1	12.7	13.6	16.2	12.8	11.0	14.0	13.4	12.0	16.0	11.8	14.9
Polk	7.7	7.3	7.8	7.8	8.0	8.2	7.9	8.1	8.2	7.9	8.0	7.8	7.8	8.1
Pottawattamie	9.2	8.7	9.1	9.0	8.8	9.9	9.8	8.9	9.5	9.3	9.0	8.8	8.9	9.1
Poweshiek	9.7	10.8	9.0	10.3	10.2	10.9	10.0	10.6	10.3	11.1	9.2	10.1	9.7	9.9
Ringgold	15.6	14.5	13.8	15.5	11.9	13.1	14.4	14.4	15.2	11.7	12.2	12.1	14.6	13.7
Sac	14.6	12.8	11.9	14.4	14.3	13.3	13.4	13.5	13.5	12.7	13.2	13.7	12.3	10.4
Scott	8.4	7.9	7.6	7.3	8.1	8.1	8.1	8.1	7.6	7.8	7.8	6.8	7.5	7.3
Shelby	11.2	11.1	11.5	11.4	12.1	12.1	10.9	10.9	10.9	9.5	11.0	9.9	10.7	11.2
Sioux	8.0	7.2	7.2	7.6	8.0	8.5	8.0	7.9	9.1	7.7	7.4	7.7	7.5	7.7
Story	5.7	5.5	6.1	5.6	5.5	5.6	5.6	5.6	5.7	4.9	5.4	5.6	5.0	5.6
Tama	12.8	9.8	12.5	13.0	11.9	10.0	11.1	11.5	12.4	11.1	10.6	9.7	12.1	10.8
Taylor	13.6	13.5	16.3	14.8	18.5	13.5	16.1	16.1	12.5	13.1	15.3	15.3	15.3	13.6
Union	13.1	12.8	13.1	13.1	12.3	13.4	13.6	13.0	12.7	12.3	13.3	12.4	12.6	11.0
Van Buren	13.7	12.6	14.0	11.3	15.4	17.1	13.6	14.5	14.4	10.0	14.6	12.8	11.5	13.8
Wapello	12.9	11.7	13.7	13.3	12.9	13.4	12.2	13.6	11.6	13.2	12.5	11.2	11.9	12.4
Warren	7.6	6.3	7.7	7.9	7.6	8.2	6.9	7.0	7.0	7.5	6.6	6.4	6.2	6.5
Washington	11.8	10.3	12.3	11.0	11.1	10.8	11.2	10.6	11.9	11.4	11.4	9.3	10.1	10.3
Wayne	14.6	16.2	14.5	13.0	13.6	14.7	14.8	16.8	18.4	14.2	16.4	12.2	17.6	15.6
Webster	12.1	12.1	12.2	11.2	11.3	12.2	11.9	10.7	11.1	10.8	11.0	10.9	10.7	10.3
Winnebago	12.6	13.3	12.6	11.4	10.3	12.4	12.2	9.7	11.1	12.0	10.9	10.7	11.4	10.2
Winneshiek	8.3	7.6	8.5	10.5	8.7	9.4	8.7	10.5	10.7	9.5	10.3	8.2	8.6	8.2
Woodbury	9.8	9.7	9.2	9.6	9.8	10.4	9.7	9.6	9.6	9.5	9.7	10.1	9.6	9.8
Worth	12.2	12.0	12.2	14.4	10.6	14.7	12.5	12.7	12.4	11.7	12.2	11.2	11.5	10.2
Wright	14.8	12.2	12.4	12.5	11.5	13.1	12.5	12.5	12.9	12.0	11.2	12.4	13.0	12.7
State of Iowa	10.0	9.5	9.8	9.7	9.8	10.1	9.8	9.7	9.8	9.4	9.6	9.3	9.3	9.3

rate four or more points higher at the end of the period than at the beginning. Among the 29 counties where the death rates were lower in 1993 than 1983, only Keokuk dropped by at least three points.

Note: Comparisons of any one year with another must be done with caution, because unusual circumstances could have affected the rates in any single year. Because the population figures used to generate the rates for 1981-1989 and for 1991-1993 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, 1992," 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, 1980-1993.



Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties: 1980-1992

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Births to Iowa residents are attributed to the county of residence of the mother. This information is collected annually by the Iowa Department of Public Health. In 1992, there were 38,432 births to Iowans (Table 1), a decrease of 14.1 percent from the 44,716 births in 1982.

Births in Iowa's counties in 1992 varied from as few as 41 in Adams to as many as 5,558 in Polk. Polk had the highest number of births each year in the period, while either Adams or Ringgold had the lowest.

The state had annual declines in births from 1980 to 1987; these numbers increased from 1987 to 1990, although they declined again from 1990 to 1992. All counties had at least one year of increase during the time period. When 1982 and 1992 were compared, however, all counties except Guthrie, Johnson, Linn, Polk, and Warren showed a decline (Table 3); Polk's increase of 589 was the only one above 60. Black Hawk, with 595 fewer births in 1992 than in 1982, had the largest decrease, although 19 other counties declined by at least 100.

Out-of-Wedlock Births

Even though births declined in Iowa between 1982 and 1992, the number of births out of wedlock increased. The 9,050 out-of-wedlock births in 1992 was an increase of 78.8 percent from the 5,062 in 1982. The increase of 822 out-of-wedlock births from 1988 to 1989 was the largest annual increase among the years reported. Indeed, nearly all of Iowa's increase in births from 1988 to 1989 (+846) was in the out-of-wedlock category (+822). And the increase in out-of-wedlock births (+717) surpassed the increase in total births (+414) from 1989 to 1990. The decline of 493 total births from 1991 to 1992 stands in contrast to the gain of 406 out-of-wedlock births during that same period.

In each year from 1980 through 1992, Polk county had the highest number of out-of-wedlock births; Scott was second highest. The three out-of-wedlock births in Adams was the lowest of any county in 1992.

Out-of-wedlock births occurred disproportionately in large, urban counties. In 1982, the six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) with the highest number of out-of-wedlock births together accounted for 49.9 percent of such births but only for 35.1 percent of the total births. In 1992, the same six counties recorded 49.7 percent of the out-of-wedlock births and 39.7 percent of all births.

Between 1982 and 1992, the number of out-of-wedlock births increased each year for Iowa, although every county had at least one year when these numbers declined. Ninety-two counties had more out-of-wedlock births in 1992 than in 1982 (Table 3). The increases ranged from 2 to 727. For 62 of the 92 counties that gained, the increase was less than 25. Black Hawk, Clinton, Linn, Polk, Pottawattamie, Scott, and Woodbury increased by more than 100. Four counties (Adams, Audubon, Humboldt, Worth) had the same number of out-of-wedlock births in 1982 and 1992. Three counties (Chickasaw, Lucas, Shelby) had fewer out-of-wedlock births in 1992 than in 1982.

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1992.

County	1992		1991		1990		1989		1988		1987		1986	
	Births	Out of Wedlock Births												
Adair	105	17	87	12	102	16	109	11	86	9	94	9	111	6
Adams	41	3	64	13	60	11	70	13	74	3	63	6	55	2
Allamakee	199	28	174	16	177	31	214	35	201	25	202	40	210	17
Appanoose	174	43	170	44	166	40	166	51	167	36	162	24	180	16
Audubon	70	9	76	11	91	5	83	7	82	5	95	7	89	8
Benton	304	60	336	68	318	46	292	49	286	34	283	29	295	37
Black Hawk	1650	577	1732	561	1699	541	1687	491	1628	482	1621	409	1739	443
Boone	288	53	312	51	329	57	309	47	347	58	318	37	295	38
Bremer	259	31	237	34	242	27	256	24	233	18	242	23	267	18
Buchanan	327	59	302	45	302	47	336	52	310	36	325	42	287	28
Buena Vista	274	55	265	54	287	42	253	25	302	43	263	30	294	19
Butler	159	22	162	20	184	25	180	26	189	25	179	19	209	11
Calhoun	120	19	111	18	130	20	124	22	111	13	145	16	152	9
Carroll	271	59	278	47	320	36	292	32	312	18	338	35	361	32
Cass	169	23	205	29	192	26	192	33	190	22	163	16	204	17
Cedar	197	37	217	28	221	37	224	38	197	23	189	27	195	17
Cerro Gordo	600	155	621	162	686	157	657	144	623	114	625	130	656	91
Cherokee	158	30	153	33	200	38	177	19	169	24	166	17	211	20
Chickasaw	166	24	166	24	199	18	182	26	170	21	154	17	201	22
Clarke	105	28	105	25	106	22	121	22	112	19	114	15	109	10
Clay	235	40	258	42	239	32	260	39	222	28	237	36	243	33
Clayton	228	44	254	33	242	43	262	35	234	33	250	23	256	35
Clinton	680	201	685	181	685	183	674	140	676	151	689	124	707	115
Crawford	196	49	205	36	228	49	204	34	256	37	277	24	247	18
Dallas	422	74	426	73	409	77	445	74	384	55	423	61	391	37
Davis	107	16	127	14	128	14	116	18	115	9	110	9	124	8
Decatur	88	22	94	21	91	12	99	16	98	9	110	16	95	10
Delaware	261	33	271	40	285	27	264	28	290	31	284	32	281	26
Des Moines	567	171	580	175	568	161	582	172	560	115	540	101	518	105
Dickinson	152	35	163	20	160	26	158	19	147	17	175	30	165	19
Dubuque	1168	250	1231	238	1260	211	1184	215	1192	156	1253	166	1199	151
Emmet	135	36	155	23	134	31	121	20	139	19	144	17	139	18
Fayette	278	52	295	53	289	45	279	43	297	25	263	23	278	26
Floyd	204	36	221	45	219	48	220	47	197	33	208	32	213	24
Franklin	125	23	130	26	124	22	132	14	136	18	139	18	148	14
Fremont	103	30	107	26	100	17	98	19	103	20	103	14	124	16
Greene	123	25	124	26	108	14	104	21	117	20	138	19	127	15
Grundy	113	14	136	15	146	11	138	13	142	8	121	10	148	8
Guthrie	154	32	138	30	122	25	111	25	117	11	104	13	115	20
Hamilton	206	45	220	42	209	26	213	33	199	21	198	24	243	24
Hancock	142	20	157	26	164	23	167	19	159	21	165	18	189	13
Hardin	192	49	209	26	213	29	214	33	224	38	218	20	233	24
Harrison	200	38	201	34	187	27	191	40	192	25	225	33	230	25
Henry	256	61	237	47	265	50	224	46	248	30	236	31	250	25
Howard	126	19	114	14	135	14	126	15	111	14	146	10	141	11
Humboldt	100	11	104	20	112	16	136	10	143	14	138	14	149	15
Ida	94	18	100	11	107	17	150	12	122	5	112	9	118	9
Iowa	196	29	208	34	213	28	236	21	178	18	179	12	215	15
Jackson	258	58	286	52	252	51	255	43	275	39	290	29	282	34
Jasper	455	88	471	89	432	74	461	61	446	52	438	60	418	46

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1992 (continued).

County	1992		1991		1990		1989		1988		1987		1986	
	Births	Out of Wedlock Births												
Jefferson	185	36	186	30	192	37	202	31	208	24	178	13	218	22
Johnson	1359	149	1358	156	1406	170	1297	138	1330	117	1285	131	1278	91
Jones	243	51	255	27	251	49	236	35	240	43	216	28	220	25
Keokuk	147	24	176	26	150	19	152	17	160	15	147	19	137	8
Kossuth	199	29	226	33	251	35	240	25	245	19	249	17	265	19
Lee	539	167	494	141	496	121	492	149	509	131	544	128	526	105
Linn	2644	604	2632	561	2641	562	2507	522	2465	482	2373	392	2345	441
Louisa	143	42	148	36	163	36	149	28	141	24	167	28	144	14
Lucas	100	17	111	23	116	19	93	14	111	18	101	10	113	22
Lyon	180	13	156	9	178	14	167	9	183	6	176	9	160	11
Madison	155	25	158	25	158	14	167	28	161	19	138	14	140	15
Mahaska	264	53	300	68	285	52	316	60	295	43	296	54	326	43
Marion	412	57	364	51	374	44	398	51	363	45	405	37	368	28
Marshall	471	109	458	115	502	96	488	92	488	94	455	71	520	70
Mills	151	36	170	35	136	22	168	28	154	41	173	27	171	22
Mitchell	126	16	148	18	131	20	127	15	137	17	133	7	147	10
Monona	145	37	133	29	114	21	113	26	105	18	110	21	129	20
Monroe	98	20	111	23	116	25	96	17	88	7	107	18	104	17
Montgomery	165	33	138	28	158	31	150	29	148	29	153	12	136	11
Muscatine	655	179	676	152	665	159	682	137	615	118	560	99	635	113
O'Brien	199	28	176	16	184	19	195	16	173	18	184	11	206	8
Osceola	86	8	107	13	94	10	100	6	104	9	87	7	88	3
Page	166	48	179	39	200	45	220	41	209	28	189	27	183	27
Palo Alto	112	18	111	19	95	13	140	19	133	15	122	8	134	14
Plymouth	317	47	296	60	346	51	310	40	311	29	353	35	376	32
Pocahontas	99	13	104	10	124	17	110	10	135	12	109	7	121	7
Polk	5558	1524	5494	1481	5367	1398	5545	1302	4998	1145	4987	1085	4956	989
Pottawattamie	1261	396	1299	392	1361	388	1281	327	1295	326	1252	301	1328	282
Poweshiek	215	40	237	45	226	45	226	28	203	30	187	25	223	26
Ringgold	57	11	53	9	44	5	53	4	56	8	60	5	45	3
Sac	140	25	125	20	145	18	153	17	142	16	149	13	153	13
Scott	2469	838	2409	818	2430	783	2376	721	2368	656	2292	575	2545	640
Shelby	154	14	156	17	182	21	163	15	170	13	172	9	160	13
Sioux	433	34	439	36	434	33	432	21	471	20	457	26	494	14
Story	877	103	900	101	927	88	874	62	949	80	933	73	944	64
Tama	225	60	213	56	215	31	218	54	207	34	233	37	227	41
Taylor	75	11	63	10	92	10	79	12	73	5	86	10	71	5
Union	149	40	143	32	148	32	166	28	143	20	152	30	167	27
Van Buren	91	19	98	20	89	14	93	8	123	11	103	10	94	8
Wapello	422	128	481	116	490	137	484	96	420	78	446	94	467	79
Warren	516	107	550	75	479	72	499	68	483	69	487	34	466	42
Washington	269	41	277	27	307	45	301	45	280	29	298	32	273	35
Wayne	74	15	74	11	83	14	77	9	89	16	75	6	75	10
Webster	566	154	563	165	597	159	605	142	589	143	595	106	574	119
Winnebago	139	37	138	22	148	21	165	23	164	16	152	14	171	13
Winneshiek	255	33	252	33	259	34	269	20	272	19	269	12	288	20
Woodbury	1665	558	1623	552	1631	528	1496	425	1582	435	1542	409	1457	334
Worth	91	15	99	16	99	16	107	22	100	14	98	12	103	17
Wright	171	37	188	40	214	31	191	28	174	26	177	18	171	19
State of Iowa	38432	9050	38925	8644	39330	8269	38916	7552	38070	6730	37866	6142	38748	5811

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1992 (continued).

County	1985		1984		1983		1982		1981		1980	
	Births	Out of Wedlock Births										
Adair	122	7	114	4	115	3	143	8	125	12	166	5
Adams	73	6	73	7	64	6	80	3	64	5	94	5
Allamakee	219	32	219	21	220	21	237	16	249	22	252	21
Appanoose	188	33	197	21	194	33	184	22	229	31	241	28
Audubon	111	13	135	8	120	6	119	9	112	8	151	12
Benton	309	29	328	23	291	29	307	28	349	24	414	41
Black Hawk	1947	444	2093	428	2096	362	2245	384	2332	371	2382	374
Boone	326	34	333	30	347	25	367	34	384	32	395	29
Bremer	297	22	306	18	320	9	367	21	398	25	417	14
Buchanan	367	44	381	45	393	26	454	41	448	24	447	26
Buena Vista	314	27	290	22	302	20	313	16	344	12	322	15
Butler	201	10	242	12	259	22	255	12	236	10	284	8
Calhoun	149	14	140	4	171	18	196	13	170	16	204	16
Carroll	373	23	384	18	416	32	384	25	416	31	436	27
Cass	200	14	255	22	228	12	254	16	286	19	241	17
Cedar	251	25	253	28	259	21	266	20	285	25	260	15
Cerro Gordo	725	95	679	84	709	79	714	82	720	70	728	63
Cherokee	199	20	207	23	229	14	231	15	245	17	238	27
Chickasaw	177	22	224	16	224	15	265	25	260	16	258	14
Clarke	116	17	104	10	112	11	136	12	122	4	126	12
Clay	270	22	260	30	305	25	357	33	314	32	347	29
Clayton	298	25	282	17	306	20	327	20	364	18	343	18
Clinton	753	88	788	99	775	88	855	92	882	103	920	90
Crawford	263	38	256	25	323	35	294	30	300	17	321	18
Dallas	402	42	454	43	461	53	428	41	432	40	466	40
Davis	134	8	128	11	148	9	137	13	149	9	149	8
Decatur	106	12	112	7	107	8	136	7	125	6	129	9
Delaware	320	18	311	12	341	20	362	21	331	20	401	23
Des Moines	670	107	650	105	657	89	670	91	742	92	767	106
Dickinson	177	17	195	10	178	25	227	9	199	13	229	14
Dubuque	1278	155	1362	170	1375	155	1447	160	1542	140	1584	112
Emmet	159	21	160	15	196	26	200	21	214	17	227	15
Fayette	298	31	357	32	362	27	404	48	380	28	405	30
Floyd	236	36	241	35	285	27	250	24	276	30	259	12
Franklin	173	15	193	14	165	9	176	5	191	12	195	10
Fremont	116	17	117	12	124	12	117	11	132	10	131	12
Greene	147	19	172	15	169	16	165	18	196	13	182	14
Grundy	143	11	170	11	187	10	167	10	182	14	227	6
Guthrie	119	10	156	6	144	12	149	14	160	13	179	19
Hamilton	199	25	254	23	235	19	219	25	259	20	257	19
Hancock	190	16	212	11	191	16	233	15	217	14	252	15
Hardin	270	30	283	24	311	26	324	24	318	19	348	23
Harrison	227	24	217	24	200	22	217	24	221	13	254	29
Henry	238	27	264	19	260	22	270	27	278	20	303	27
Howard	137	7	161	14	163	14	169	16	158	3	184	6
Humboldt	163	16	186	15	178	9	189	11	191	10	188	8
Ida	135	6	148	11	146	6	117	6	159	6	148	5
Iowa	182	15	216	12	217	11	216	12	230	20	229	8
Jackson	345	39	325	27	349	35	357	34	371	35	370	32
Jasper	472	55	462	44	440	49	524	50	506	44	530	30

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1992 (continued).

County	1985		1984		1983		1982		1981		1980	
	Births	Out of Wedlock Births										
Jefferson	222	13	224	19	233	15	209	21	210	9	217	16
Johnson	1326	97	1306	89	1254	94	1299	88	1350	80	1276	71
Jones	290	35	262	29	275	28	280	27	272	25	323	33
Keokuk	157	12	185	15	185	10	166	7	199	8	223	18
Kossuth	262	21	295	16	350	20	344	13	332	15	397	27
Lee	589	112	582	97	596	108	623	92	663	98	693	94
Linn	2450	366	2499	356	2479	350	2642	338	2567	329	2826	341
Louisa	145	14	161	16	172	14	178	17	201	19	172	17
Lucas	110	18	132	18	115	15	164	24	135	9	170	15
Lyon	183	6	194	6	207	2	214	9	238	9	236	7
Madison	164	13	154	14	150	15	158	7	155	10	197	10
Mahaska	318	35	325	36	339	29	342	26	331	30	400	36
Marion	439	39	403	35	434	39	463	36	439	42	449	25
Marshall	555	74	588	55	622	69	617	58	654	55	673	60
Mills	167	27	192	20	173	16	174	20	212	24	225	24
Mitchell	148	6	149	9	173	13	154	14	171	11	196	10
Monona	105	9	140	14	176	15	157	14	161	14	179	13
Monroe	109	14	122	16	120	9	111	10	135	10	133	13
Montgomery	152	17	179	18	189	16	183	12	187	10	205	17
Muscatine	632	101	635	103	709	82	754	112	732	92	714	90
O'Brien	213	18	235	15	263	16	274	11	287	15	279	18
Osceola	107	3	105	3	131	10	124	4	127	5	137	5
Page	235	34	204	27	226	27	237	21	266	20	270	23
Palo Alto	181	10	162	16	215	15	184	14	214	13	209	17
Plymouth	334	15	409	27	415	18	392	23	455	25	427	20
Pocahontas	167	3	150	13	160	13	150	5	149	7	160	7
Polk	5087	923	4909	833	4974	869	4969	797	5093	829	5087	764
Pottawattamie	1334	253	1379	254	1426	259	1411	231	1469	261	1468	237
Poweshiek	220	15	220	17	244	29	254	21	261	18	247	18
Ringgold	78	10	84	7	71	2	107	8	80	3	86	3
Sac	177	13	182	13	175	13	183	7	235	16	235	14
Scott	2543	531	2647	515	2641	491	2751	465	2824	484	2954	476
Shelby	171	7	237	8	211	13	240	22	189	10	253	13
Sioux	511	18	519	11	574	17	560	11	584	8	636	19
Story	1035	59	1039	46	1075	50	1010	54	1054	50	1055	57
Tama	250	42	260	39	269	22	285	31	259	25	289	27
Taylor	91	7	102	5	102	6	133	8	119	5	135	6
Union	150	38	165	20	190	21	192	28	226	26	212	31
Van Buren	107	16	111	7	111	10	117	7	136	6	126	14
Wapello	468	80	534	91	480	79	564	77	547	64	597	77
Warren	506	38	489	40	485	42	495	46	514	42	551	33
Washington	269	25	307	28	282	23	290	19	293	22	326	17
Wayne	96	3	94	10	84	6	93	7	105	10	123	12
Webster	631	120	631	129	671	114	733	111	675	102	760	110
Winnebago	162	7	170	9	172	14	178	15	162	13	197	20
Winneshiek	287	16	321	21	321	28	309	15	300	17	327	21
Woodbury	1652	341	1601	359	1645	318	1691	310	1809	310	1793	319
Worth	117	10	115	11	110	6	130	15	129	7	127	4
Wright	196	18	203	23	206	19	208	20	220	21	247	20
State of Iowa	41182	5585	42360	5315	43247	5168	44716	5062	45918	4938	47797	4895

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1992.

County	1992		1991		1990		1989		1988		1987		1986	
	Teen Births	Out of Wedlock Births												
Adair	8	5	4	2	12	8	6	6	6	5	8	4	10	3
Adams	2	1	3	3	3	3	8	6	2	0	7	4	3	1
Allamakee	13	7	9	6	17	10	27	18	13	10	23	15	19	8
Appanoose	30	15	28	17	29	13	25	17	20	14	24	12	24	7
Audubon	2	1	5	4	6	2	7	2	9	0	6	3	10	4
Benton	23	19	26	18	23	19	22	15	14	10	28	14	24	14
Black Hawk	259	228	257	219	246	198	226	181	183	149	195	147	204	159
Boone	30	20	32	22	26	21	32	23	35	21	17	8	23	13
Bremer	8	5	19	15	15	9	14	10	14	6	18	9	14	8
Buchanan	18	13	21	15	27	17	26	18	24	18	25	12	30	14
Buena Vista	18	14	27	18	30	18	15	6	29	23	13	9	20	6
Butler	15	11	13	7	15	9	13	10	13	5	10	6	16	6
Calhoun	9	7	5	4	4	3	8	7	6	3	7	5	2	1
Carroll	20	18	26	20	15	10	19	17	10	7	21	15	27	13
Cass	20	11	22	11	23	9	16	12	13	8	8	2	9	4
Cedar	17	13	11	9	25	15	19	12	10	7	16	10	5	3
Cerro Gordo	71	59	71	53	76	55	77	54	62	49	57	41	43	29
Cherokee	16	12	15	11	27	18	10	5	12	8	4	2	7	4
Chickasaw	6	6	12	6	15	8	13	7	10	7	18	9	16	8
Clarke	17	11	10	8	12	6	13	5	21	8	17	6	7	1
Clay	11	8	14	10	16	9	16	11	20	12	19	13	16	11
Clayton	16	13	18	12	23	15	23	15	14	10	26	12	27	15
Clinton	80	70	79	59	82	59	76	53	71	47	68	52	85	49
Crawford	18	18	21	12	27	21	15	10	18	12	17	5	10	5
Dallas	30	24	36	26	37	25	49	30	31	19	37	24	32	14
Davis	9	6	6	5	10	4	9	4	9	2	8	2	6	2
Decatur	20	10	12	7	13	4	7	4	13	5	15	7	10	5
Delaware	17	16	20	15	14	10	20	12	18	10	14	9	18	13
Des Moines	79	60	87	66	76	53	75	54	65	39	64	39	75	41
Dickinson	16	13	12	6	17	13	12	5	9	5	16	9	13	9
Dubuque	92	82	100	80	93	67	106	86	88	58	80	48	88	57
Emmet	15	13	19	7	16	11	14	11	11	8	15	7	19	8
Fayette	32	17	28	19	23	17	31	18	16	8	23	11	24	14
Floyd	19	12	25	18	28	19	25	17	22	13	18	16	29	16
Franklin	12	9	15	11	10	7	11	8	11	7	12	8	11	8
Fremont	15	12	16	12	11	10	18	14	16	9	11	6	11	4
Greene	8	6	17	9	9	5	15	10	12	9	17	11	10	6
Grundy	6	4	9	7	5	5	12	8	5	3	9	4	10	4
Guthrie	20	14	14	10	8	5	15	8	7	3	11	4	7	5
Hamilton	21	16	28	20	19	10	22	13	18	7	24	14	16	7
Hancock	6	5	15	10	12	7	10	9	12	8	9	4	11	6
Hardin	19	16	21	12	17	11	17	12	16	14	17	9	12	5
Harrison	14	10	21	10	22	9	18	8	13	6	25	15	25	9
Henry	28	19	25	20	30	19	28	16	31	15	21	13	25	16
Howard	7	4	8	7	6	2	8	5	9	5	12	4	10	4
Humboldt	7	4	13	7	10	5	4	1	11	8	6	5	13	8
Ida	4	4	5	4	9	5	12	6	2	1	11	6	5	3
Iowa	14	10	16	10	12	8	18	12	9	3	5	3	15	7
Jackson	18	17	19	16	30	23	24	16	23	15	22	12	22	12
Jasper	46	32	46	31	38	25	43	25	42	19	31	21	41	14

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1992 (continued).

County	1992		1991		1990		1989		1988		1987		1986	
	Teen Out of Teen Wedlock Births Births													
Jefferson	14	9	14	9	16	8	18	14	13	12	5	3	11	4
Johnson	39	32	51	42	60	45	59	44	42	32	53	41	41	20
Jones	15	13	12	6	20	15	18	10	21	16	9	9	13	6
Keokuk	12	5	20	11	18	7	12	4	20	6	13	8	9	3
Kossuth	16	12	12	8	25	19	19	11	18	8	18	8	16	8
Lee	74	58	62	41	57	37	77	57	60	42	68	49	76	45
Linn	241	210	269	219	246	191	256	188	232	189	242	153	228	163
Louisa	21	14	20	16	16	9	18	8	17	12	22	13	12	5
Lucas	5	2	12	7	16	6	10	3	13	8	14	4	17	7
Lyon	14	6	5	0	8	2	12	5	11	3	9	3	13	5
Madison	15	7	12	5	12	4	18	9	16	6	11	3	15	5
Mahaska	33	22	35	20	29	13	37	17	37	19	25	16	35	20
Marion	33	23	32	17	33	22	35	19	33	20	34	14	26	10
Marshall	53	40	51	42	38	30	52	35	45	34	37	21	43	25
Mills	16	12	18	12	11	4	19	10	22	17	11	9	12	7
Mitchell	12	8	13	7	15	10	11	8	6	5	7	4	6	4
Monona	23	17	24	14	12	6	12	8	8	4	11	6	13	7
Monroe	15	12	15	11	16	11	8	6	11	3	13	8	11	7
Montgomery	20	10	20	11	13	9	21	12	18	13	7	3	12	7
Muscatine	83	56	85	55	89	51	84	50	82	42	72	31	81	42
O'Brien	26	14	11	7	17	10	14	6	11	8	12	6	13	5
Osceola	8	5	7	7	9	6	8	5	7	4	4	2	2	1
Page	25	22	27	16	26	17	38	22	18	10	18	10	20	6
Palo Alto	8	6	16	13	14	8	13	7	8	5	3	1	8	6
Plymouth	22	14	29	19	27	17	31	21	15	8	21	14	32	21
Pocahontas	5	4	6	3	8	5	4	3	4	3	5	3	7	4
Polk	589	498	608	502	577	462	634	481	570	430	561	388	483	317
Pottawattamie	168	128	184	140	191	128	152	106	162	115	150	102	171	111
Poweshiek	20	18	24	17	27	19	19	10	10	5	13	3	22	9
Ringgold	7	4	4	2	1	0	3	1	3	1	4	2	3	1
Sac	10	8	10	9	10	7	13	9	6	4	14	5	10	4
Scott	352	305	363	308	343	280	327	273	288	234	262	212	349	258
Shelby	9	7	6	3	9	7	12	6	9	7	10	5	8	6
Sioux	26	16	27	18	23	11	21	10	31	13	34	17	26	7
Story	41	27	42	25	48	21	35	17	44	20	37	18	46	22
Tama	26	21	28	25	21	13	26	22	14	11	21	13	21	16
Taylor	5	3	9	4	11	5	8	2	6	2	9	4	8	1
Union	13	9	21	12	14	7	19	10	10	5	13	8	11	7
Van Buren	11	10	9	4	13	9	6	1	9	3	8	2	9	3
Wapello	57	35	59	27	75	48	66	34	46	22	62	37	79	35
Warren	55	44	50	32	49	36	41	26	50	30	33	9	33	11
Washington	18	12	20	12	24	20	32	17	20	11	25	14	24	14
Wayne	10	6	11	4	9	6	7	3	16	6	7	2	11	3
Webster	68	50	66	52	63	45	78	58	70	50	70	49	67	47
Winnebago	18	16	7	3	11	10	23	14	11	8	10	5	11	9
Winneshiek	15	13	13	8	14	11	9	8	10	5	14	5	15	7
Woodbury	246	181	234	186	234	186	203	148	199	163	202	156	166	110
Worth	9	6	8	7	10	7	9	5	10	7	5	5	6	4
Wright	13	7	19	12	16	13	21	11	10	9	14	8	7	7
State of Iowa	3935	3077	4081	3036	4013	2847	4017	2786	3540	2428	3507	2237	3567	2135

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1992 (continued).

County	1985		1984		1983		1982		1981		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	7	2	9	1	6	0	13	4	14	4	20	2
Adams	4	2	6	3	7	3	6	1	3	1	13	3
Allamakee	19	13	21	7	16	9	28	12	31	13	31	8
Appanoose	23	7	19	8	33	12	28	10	40	15	50	12
Audubon	5	3	16	4	9	1	15	3	15	7	21	9
Benton	17	9	33	13	34	12	30	12	27	11	55	26
Black Hawk	238	174	250	172	228	149	273	173	286	168	335	183
Boone	30	16	22	10	23	10	30	15	42	13	45	13
Bremer	27	10	22	9	19	4	30	8	41	13	56	10
Buchanan	36	18	38	15	35	13	57	19	59	18	45	14
Buena Vista	19	11	21	5	20	7	27	9	26	4	33	8
Butler	26	6	16	4	34	11	22	4	22	6	40	3
Calhoun	10	5	3	1	8	5	20	4	17	4	19	7
Carroll	20	7	16	4	32	15	39	18	40	20	31	13
Cass	15	4	29	7	18	4	21	5	21	8	23	8
Cedar	22	12	29	11	20	8	29	9	30	11	28	6
Cerro Gordo	57	30	54	31	62	28	56	21	74	28	69	24
Cherokee	14	6	20	11	17	6	20	8	24	7	26	10
Chickasaw	16	11	14	6	15	7	34	12	25	9	28	6
Clarke	10	5	12	4	11	4	18	9	18	1	22	5
Clay	15	8	17	9	24	13	35	13	36	16	44	14
Clayton	31	15	29	9	24	7	36	10	44	9	39	11
Clinton	69	33	89	49	109	56	77	30	111	47	127	43
Crawford	24	12	24	9	37	19	40	17	33	9	50	10
Dallas	27	12	32	15	46	22	30	13	51	16	44	19
Davis	15	5	7	3	26	3	14	7	19	4	21	5
Decatur	8	3	11	1	9	2	14	2	11	2	21	4
Delaware	20	10	12	5	12	5	29	12	33	13	57	14
Des Moines	66	31	71	36	78	38	88	33	118	49	116	41
Dickinson	11	5	14	1	19	14	18	4	21	8	24	9
Dubuque	109	65	116	78	122	79	127	75	158	70	153	60
Emmet	15	7	13	8	20	9	21	11	29	11	16	4
Fayette	28	13	34	13	27	12	52	20	44	12	35	13
Floyd	28	14	29	14	37	15	27	7	32	15	24	7
Franklin	12	5	18	6	7	3	17	3	16	6	20	2
Fremont	15	8	12	2	14	6	12	3	16	2	17	3
Greene	13	6	13	5	20	8	24	11	25	8	24	5
Grundy	12	7	8	1	14	5	9	3	13	5	18	3
Guthrie	12	5	12	2	20	8	17	5	14	6	22	7
Hamilton	15	6	26	10	19	6	25	13	38	15	23	10
Hancock	7	3	13	5	17	8	22	9	15	5	23	4
Hardin	22	13	20	8	19	7	30	9	31	9	45	14
Harrison	26	13	25	11	26	10	32	11	26	8	42	16
Henry	21	14	22	6	17	5	20	5	25	9	38	10
Howard	6	2	10	4	19	7	18	8	18	1	22	5
Humboldt	21	10	16	6	14	3	14	6	18	6	26	4
Ida	8	3	12	6	7	2	9	2	14	3	14	1
Iowa	13	5	16	7	14	4	24	7	22	8	18	4
Jackson	34	20	31	11	40	14	49	18	42	16	60	20
Jasper	56	28	50	19	51	19	69	24	56	17	68	16

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1992 (continued).

County	1985		1984		1983		1982		1981		1980	
	Teen Wedlock Births	Teen Out of Wedlock Births										
Jefferson	12	5	14	7	19	3	26	11	18	3	21	7
Johnson	54	29	50	22	44	22	55	20	59	23	55	20
Jones	12	5	30	12	30	10	30	12	23	5	41	19
Keokuk	9	1	15	4	22	6	21	3	21	4	28	10
Kossuth	18	13	21	9	22	8	27	6	29	10	42	15
Lee	85	46	81	39	93	47	72	29	93	45	106	47
Linn	215	125	219	135	233	141	252	138	267	150	356	158
Louisa	14	4	19	7	20	6	24	8	27	11	27	8
Lucas	15	7	19	7	16	4	26	11	19	5	29	6
Lyon	17	3	11	4	6	0	14	3	18	5	15	3
Madison	16	9	12	4	15	5	20	4	13	3	27	4
Mahaska	37	17	25	9	34	14	36	12	39	16	61	22
Marion	45	17	45	17	43	15	46	16	66	21	62	13
Marshall	44	22	42	21	66	27	51	26	61	23	79	28
Mills	19	9	22	6	17	5	17	7	31	12	27	12
Mitchell	10	3	16	7	20	7	14	8	21	7	23	7
Monona	8	2	19	7	14	7	17	8	25	7	23	8
Monroe	11	3	13	5	11	3	14	1	15	5	15	6
Montgomery	10	6	16	7	19	6	21	6	20	3	24	6
Muscatine	73	38	92	43	104	32	116	45	132	44	114	39
O'Brien	9	4	17	4	15	4	34	4	38	7	31	9
Osceola	4	1	8	2	10	3	7	1	12	2	11	3
Page	30	13	27	10	30	10	26	11	34	10	40	12
Palo Alto	7	2	11	4	24	8	15	4	26	8	30	9
Plymouth	17	8	27	12	19	4	29	8	46	13	36	8
Pocahontas	5	1	10	4	12	8	7	2	14	5	16	4
Polk	531	331	491	292	545	335	579	313	658	353	664	318
Pottawattamie	162	99	188	111	204	103	207	109	266	135	258	120
Poweshiek	12	5	16	5	29	14	35	8	25	6	29	9
Ringgold	5	3	8	1	7	1	11	2	10	1	11	2
Sac	13	4	14	5	11	4	11	3	24	9	26	8
Scott	302	207	314	212	299	196	327	210	365	222	432	218
Shelby	5	2	15	6	19	6	22	8	23	6	24	6
Sioux	27	7	31	7	28	7	43	8	42	4	57	12
Story	50	18	41	16	56	16	70	21	63	18	82	16
Tama	29	21	33	19	21	11	32	16	30	13	38	16
Taylor	4	1	11	1	10	2	15	2	18	4	18	4
Union	11	8	11	7	22	11	21	10	32	9	30	12
Van Buren	7	2	11	2	14	4	13	3	14	2	19	6
Wapello	70	33	72	35	65	28	88	34	84	27	94	38
Warren	53	19	32	14	39	13	56	22	70	23	58	14
Washington	21	8	30	10	21	8	20	8	31	8	29	7
Wayne	10	2	11	2	10	4	13	5	17	6	22	8
Webster	77	45	79	55	86	51	91	51	91	47	124	61
Winnebago	14	2	18	5	15	5	18	6	17	7	23	10
Winneshiek	20	7	16	10	29	9	19	4	26	5	27	8
Woodbury	210	131	194	131	212	130	231	123	245	131	275	143
Worth	6	2	5	2	5	2	8	4	12	1	13	2
Wright	26	9	19	7	24	9	25	10	25	10	25	5
State of Iowa	3835	2091	3993	2048	4284	2091	4767	2131	5339	2260	5958	2274

Table 3. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa Counties, 1982 and 1992.

County	1992 Births Minus 1982 Births		% of Births Out of Wedlock		1992 Teen Births Minus 1982 Teen Births		% of Teen Births Out of Wedlock		Teen Births as a % of All Births		Teen Out-of-Wedlock Births as a % of All Out-of-Wedlock Births	
	Total	Out of Wedlock	1992	1982	Total	Out of Wedlock	1992	1982	1992	1982	1992	1982
Adair	-38	9	16.2	5.6	-5	1	62.5	30.8	7.6	9.1	29.4	50.0
Adams	-39	0	7.3	3.8	-4	0	50.0	16.7	4.9	7.5	33.3	33.3
Allamakee	-38	12	14.1	6.8	-15	-5	53.8	42.9	6.5	11.8	25.0	75.0
Appanoose	-10	21	24.7	12.0	2	5	50.0	35.7	17.2	15.2	34.9	45.5
Audubon	-49	0	12.9	7.6	-13	-2	50.0	20.0	2.9	12.6	11.1	33.3
Benton	-3	32	19.7	9.1	-7	7	82.6	40.0	7.6	9.8	31.7	42.9
Black Hawk	-595	193	35.0	17.1	-14	55	88.0	63.4	15.7	12.2	39.5	45.1
Boone	-79	19	18.4	9.3	0	5	66.7	50.0	10.4	8.2	37.7	44.1
Bremer	-108	10	12.0	5.7	-22	-3	62.5	26.7	3.1	8.2	16.1	38.1
Buchanan	-127	18	18.0	9.0	-39	-6	72.2	33.3	5.5	12.6	22.0	46.3
Buena Vista	-39	39	20.1	5.1	-9	5	77.8	33.3	6.6	8.6	25.5	56.3
Butler	-96	10	13.8	4.7	-7	7	73.3	18.2	9.4	8.6	50.0	33.3
Calhoun	-76	6	15.8	6.6	-11	3	77.8	20.0	7.5	10.2	36.8	30.8
Carroll	-113	34	21.8	6.5	-19	0	90.0	46.2	7.4	10.2	30.5	72.0
Cass	-85	7	13.6	6.3	-1	6	55.0	23.8	11.8	8.3	47.8	31.3
Cedar	-69	17	18.8	7.5	-12	4	76.5	31.0	8.6	10.9	35.1	45.0
Cerro Gordo	-114	73	25.8	11.5	15	38	83.1	37.5	11.8	7.8	38.1	25.6
Cherokee	-73	15	19.0	6.5	-4	4	75.0	40.0	10.1	8.7	40.0	53.3
Chickasaw	-99	-1	14.5	9.4	-28	-6	100.0	35.3	3.6	12.8	25.0	48.0
Clarke	-31	16	26.7	8.8	-1	2	64.7	50.0	16.2	13.2	39.3	75.0
Clay	-122	7	17.0	9.2	-24	-5	72.7	37.1	4.7	9.8	20.0	39.4
Clayton	-99	24	19.3	6.1	-20	3	81.3	27.8	7.0	11.0	29.5	50.0
Clinton	-175	109	29.6	10.8	3	40	87.5	39.0	11.8	9.0	34.8	32.6
Crawford	-98	19	25.0	10.2	-22	1	100.0	42.5	9.2	13.6	36.7	56.7
Dallas	-6	33	17.5	9.6	0	11	80.0	43.3	7.1	7.0	32.4	31.7
Davis	-30	3	15.0	9.5	-5	-1	66.7	50.0	8.4	10.2	37.5	53.8
Decatur	-48	15	25.0	5.1	6	8	50.0	14.3	22.7	10.3	45.5	28.6
Delaware	-101	12	12.6	5.8	-12	4	94.1	41.4	6.5	8.0	48.5	57.1
Des Moines	-103	80	30.2	13.6	-9	27	75.9	37.5	13.9	13.1	35.1	36.3
Dickinson	-75	26	23.0	4.0	-2	9	81.3	22.2	10.5	7.9	37.1	44.4
Dubuque	-279	90	21.4	11.1	-35	7	89.1	59.1	7.9	8.8	32.8	46.9
Emmet	-65	15	26.7	10.5	-6	2	86.7	52.4	11.1	10.5	36.1	52.4
Fayette	-126	4	18.7	11.9	-20	-3	53.1	38.5	11.5	12.9	32.7	41.7
Floyd	-46	12	17.6	9.6	-8	5	63.2	25.9	9.3	10.8	33.3	29.2
Franklin	-51	18	18.4	2.8	-5	6	75.0	17.6	9.6	9.7	39.1	60.0
Fremont	-14	19	29.1	9.4	3	9	80.0	25.0	14.6	10.3	40.0	27.3
Greene	-42	7	20.3	10.9	-16	-5	75.0	45.8	6.5	14.5	24.0	61.1
Grundy	-54	4	12.4	6.0	-3	1	66.7	33.3	5.3	5.4	28.6	30.0
Guthrie	5	18	20.8	9.4	3	9	70.0	29.4	13.0	11.4	43.8	35.7
Hamilton	-13	20	21.8	11.4	-4	3	76.2	52.0	10.2	11.4	35.6	52.0
Hancock	-91	5	14.1	6.4	-16	-4	83.3	40.9	4.2	9.4	25.0	60.0
Hardin	-132	25	25.5	7.4	-11	7	84.2	30.0	9.9	9.3	32.7	37.5
Harrison	-17	14	19.0	11.1	-18	-1	71.4	34.4	7.0	14.7	26.3	45.8
Henry	-14	34	23.8	10.0	8	14	67.9	25.0	10.9	7.4	31.1	18.5
Howard	-43	3	15.1	9.5	-11	-4	57.1	44.4	5.6	10.7	21.1	50.0
Humboldt	-89	0	11.0	5.8	-7	-2	57.1	42.9	7.0	7.4	36.4	54.5
Ida	-23	12	19.1	5.1	-5	2	100.0	22.2	4.3	7.7	22.2	33.3
Iowa	-20	17	14.8	5.6	-10	3	71.4	29.2	7.1	11.1	34.5	58.3
Jackson	-99	24	22.5	9.5	-31	-1	94.4	36.7	7.0	13.7	29.3	52.9
Jasper	-69	38	19.3	9.5	-23	8	69.6	34.8	10.1	13.2	36.4	48.0

Table 3. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa Counties, 1982 and 1992 (continued).

County	1992 Births Minus 1982 Births		% of Births Out of Wedlock		1992 Teen Births Minus 1982 Teen Births		% of Teen Births Out of Wedlock		Teen Births as a % of All Births		Teen Out-of-Wedlock Births as a % of All Out-of-Wedlock Births	
	Total	Out of Wedlock	1992	1982	Total	Out of Wedlock	1992	1982	1992	1982	1992	1982
	Jefferson	-24	15	19.5	10.0	-12	-2	64.3	42.3	7.6	12.4	25.0	52.4
Johnson	60	61	11.0	6.8	-16	12	82.1	36.4	2.9	4.2	21.5	22.7
Jones	-37	24	21.0	9.6	-15	1	86.7	40.0	6.2	10.7	25.5	44.4
Keokuk	-19	17	16.3	4.2	-9	2	41.7	14.3	8.2	12.7	20.8	42.9
Kossuth	-145	16	14.6	3.8	-11	6	75.0	22.2	8.0	7.8	41.4	46.2
Lee	-84	75	31.0	14.8	2	29	78.4	40.3	13.7	11.6	34.7	31.5
Linn	2	266	22.8	12.8	-11	72	87.1	54.8	9.1	9.5	34.8	40.8
Louisa	-35	25	29.4	9.6	-3	6	66.7	33.3	14.7	13.5	33.3	47.1
Lucas	-64	-7	17.0	14.6	-21	-9	40.0	42.3	5.0	15.9	11.8	45.8
Lyon	-34	4	7.2	4.2	0	3	42.9	21.4	7.8	6.5	46.2	33.3
Madison	-3	18	16.1	4.4	-5	3	46.7	20.0	9.7	12.7	28.0	57.1
Mahaska	-78	27	20.1	7.6	-3	10	66.7	33.3	12.5	10.5	41.5	46.2
Marion	-51	21	13.8	7.8	-13	7	69.7	34.8	8.0	9.9	40.4	44.4
Marshall	-146	51	23.1	9.4	2	14	75.5	51.0	11.3	8.3	36.7	44.8
Mills	-23	16	23.8	11.5	-1	5	75.0	41.2	10.6	9.8	33.3	35.0
Mitchell	-28	2	12.7	9.1	-2	0	66.7	57.1	9.5	9.1	50.0	57.1
Monona	-12	23	25.5	8.9	6	9	73.9	47.1	15.9	10.8	45.9	57.1
Monroe	-13	10	20.4	9.0	1	11	80.0	7.1	15.3	12.6	60.0	10.0
Montgomery	-18	21	20.0	6.6	-1	4	50.0	28.6	12.1	11.5	30.3	50.0
Muscatine	-99	67	27.3	14.9	-33	11	67.5	38.8	12.7	15.4	31.3	40.2
O'Brien	-75	17	14.1	4.0	-8	10	53.8	11.8	13.1	12.4	50.0	36.4
Osceola	-38	4	9.3	3.2	1	4	62.5	14.3	9.3	5.6	62.5	25.0
Page	-71	27	28.9	8.9	-1	11	88.0	42.3	15.1	11.0	45.8	52.4
Palo Alto	-72	4	16.1	7.6	-7	2	75.0	26.7	7.1	8.2	33.3	28.6
Plymouth	-75	24	14.8	5.9	-7	6	63.6	27.6	6.9	7.4	29.8	34.8
Pocahontas	-51	8	13.1	3.3	-2	2	80.0	28.6	5.1	4.7	30.8	40.0
Polk	589	727	27.4	16.0	10	185	84.6	54.1	10.6	11.7	32.7	39.3
Pottawattamie	-150	165	31.4	16.4	-39	19	76.2	52.7	13.3	14.7	32.3	47.2
Poweshiek	-39	19	18.6	8.3	-15	10	90.0	22.9	9.3	13.8	45.0	38.1
Ringgold	-50	3	19.3	7.5	-4	2	57.1	18.2	12.3	10.3	36.4	25.0
Sac	-43	18	17.9	3.8	-1	5	80.0	27.3	7.1	6.0	32.0	42.9
Scott	-282	373	33.9	16.9	25	95	86.6	64.2	14.3	11.9	36.4	45.2
Shelby	-86	-8	9.1	9.2	-13	-1	77.8	36.4	5.8	9.2	50.0	36.4
Sioux	-127	23	7.9	2.0	-17	8	61.5	18.6	6.0	7.7	47.1	72.7
Story	-133	49	11.7	5.3	-29	6	65.9	30.0	4.7	6.9	26.2	38.9
Tama	-60	29	26.7	10.9	-6	5	80.8	50.0	11.6	11.2	35.0	51.6
Taylor	-58	3	14.7	6.0	-10	1	60.0	13.3	6.7	11.3	27.3	25.0
Union	-43	12	26.8	14.6	-8	-1	69.2	47.6	8.7	10.9	22.5	35.7
Van Buren	-26	12	20.9	6.0	-2	7	90.9	23.1	12.1	11.1	52.6	42.9
Wapello	-142	51	30.3	13.7	-31	1	61.4	38.6	13.5	15.6	27.3	44.2
Warren	21	61	20.7	9.3	-1	22	80.0	39.3	10.7	11.3	41.1	47.8
Washington	-21	22	15.2	6.6	-2	4	66.7	40.0	6.7	6.9	29.3	42.1
Wayne	-19	8	20.3	7.5	-3	1	60.0	38.5	13.5	14.0	40.0	71.4
Webster	-167	43	27.2	15.1	-23	-1	73.5	56.0	12.0	12.4	32.5	45.9
Winnebago	-39	22	26.6	8.4	0	10	88.9	33.3	12.9	10.1	43.2	40.0
Winneshek	-54	18	12.9	4.9	-4	9	86.7	21.1	5.9	6.1	39.4	26.7
Woodbury	-26	248	33.5	18.3	15	58	73.6	53.2	14.8	13.7	32.4	39.7
Worth	-39	0	16.5	11.5	1	2	66.7	50.0	9.9	6.2	40.0	26.7
Wright	-37	17	21.6	9.6	-12	-3	53.8	40.0	7.6	12.0	18.9	50.0
State of Iowa	-6284	3988	23.5	11.3	-832	946	78.2	44.7	10.2	10.7	34.0	42.1

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 1982 to 23.5 percent in 1992 (Table 3, Figure 1). In 1992, the percentage of out-of-wedlock births in the counties ranged from 7.2 percent in Lyon to 35.0 percent in Black Hawk. Four additional counties (Adams, Osceola, Shelby, Sioux) were under 10 percent, and 21 counties ranged from 10.0 percent through 14.9 percent. In Black Hawk and 23 other counties, at least one of every four (25%) of the 1992 births occurred out of wedlock (Figure 2).

For Iowa, the percentage of births out of wedlock increased each year from 1982 to 1992. The counties were more variable; all had at least one year in which the percentage of out-of-wedlock births declined. Only Shelby had a lower percentage of out-of-wedlock births in 1992 than in 1982, however; 58 had percentages 10 or more points higher in 1992 than in 1982.

Births to Teens

Births to Iowa teens, which includes mothers 19 and younger, numbered 3,935 in 1992 (Table 2). The 1992 figure was 146 lower than in 1991; increases occurred from 1987 through 1989 following continuous decreases from 1980 to 1987. Still, teen births in 1992 were 17.5 percent lower than the 4,767 teen births recorded in 1982. For the counties, births to teens in 1992 ranged from 2 in Adams and Audubon to 589 in Polk. Fifty-eight counties had fewer than 20 births to teens. In each of the 11 years, Polk had the highest number of teen births, with Scott the second highest. From 1981 through 1992, the county with the lowest number of births to teens recorded six or fewer. In 1980, the lowest number was 11 (Osceola, Ringgold).

Seventy-nine counties had fewer teen births in 1992 than in 1982 (Table 3); of the remaining 20, four had the same numbers both years while 12 counties increased by less than 10 births to teens. Four (Cerro Gordo, Polk, Scott, Woodbury) increased by at least 10. Counties with a decrease in teen births of at least 30 were Buchanan, Dubuque, Jackson, Muscatine, Pottawattamie, and Wapello. The declines of 39 in Buchanan and Pottawattamie were the largest. Sixty-five counties reported decreases of 20 or fewer.

Out-of-Wedlock Births to Teens

Teen births out of wedlock numbered 3,077 in the state in 1992, which was the highest figure of the years reported. Teen out-of-wedlock births declined each year from 1980 to 1984 and then increased annually from 1984 to 1992 (Table 2).

In 1982, teen out-of-wedlock births occurred disproportionately in the larger, urban counties. In that year, six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) had 39.2 percent of all teen births but 50.0 percent of the out-of-wedlock teen births. This changed by 1992; in that year, these six urban counties had 47.1 percent of all births to teens and 50.4 percent of the out-of-wedlock teen births. These 1992 percentages are quite similar, indicating that teens in both the most urban and other counties are opting for out-of-wedlock births at about the same rate.

Between 1982 and 1992, all the counties experienced years when the number of teen out-of-wedlock births increased and other years when the number decreased. Differences between 1982 and 1992 ranged from a decline of 9 to a gain of 185 (Table 3). Twenty counties had fewer teen out-of-wedlock births in 1992 than in 1982, three counties were the same in both years, and 76 counties showed an increase. For 77 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 from 1982 to 1992 in the proportion of teen births in Iowa that were out of wedlock (Table 3, Figure 1). In 1982, 2,131 of 4,767 teen births (44.7%) were out of wedlock. By 1992, 3,077 of 3,935 teen births--more than three of every four (78.2%)--were out of wedlock.

For the counties in 1992, the percentage of teen births that were out of wedlock ranged from less than 50 percent in four counties to 75 percent or more in 48 others (Figure 3). In 1982, the highest percentage for any county was 64.2 percent (Scott) and in only 11 others were more than half of the births to teens out of wedlock. In 1992, 95 counties had half or more of their teen births out of wedlock. Only Lucas had a lower percentage of teen births out of wedlock in 1992 than in 1982.

Births to Teens Compared with Total Births

For every year between 1980 and 1987 in Iowa, both total births and births to teens declined, although both increased from 1987 to 1988 and 1988 to 1989. From 1989 to 1990, total births increased but births to teens decreased; the pattern was reversed from 1990 to 1991, when total births declined but births to teens gained. Then from 1991 to 1992, the pattern matched that of the early 1980s with decreases noted in both total births and those to teens. Because teen births for the period declined somewhat more than total births, the proportion of the total births that were to teens (10.7% in 1982) declined slightly to 10.2 percent in 1992 (Table 3).

In 1992, the percentages of the total births that were to teens ranged from 2.9 percent (Audubon, Johnson) to 22.7 percent (Decatur), the only county greater than 18 percent. Although there were year-to-year variations for all the counties, teen births, as a percentage of all births, were lower in 1992 than in 1982 for 58 counties.

Teens tended to have a much higher percentage of their births out of wedlock than the population overall. In most counties for both 1982 and 1992, the percentage of teen births that were out of wedlock was significantly higher than the percentage of all births that were out of wedlock (Table 3).

For the state, the number of teen out-of-wedlock births remained relatively stable between 1980 and 1987 although they generally increased from 1987 to 1992. From 1982 to 1992, teen out-of-wedlock births increased 44.4 percent. In comparison, the total number of out-of-wedlock births increased much faster (78.8%) in the same years. Consequently, teen out-of-wedlock births, which were 42.1 percent of all out-of-wedlock births in 1982, were down to 34.0 percent of all out-of-wedlock births in 1992 (Table 3).

For the counties in 1992, teen out-of-wedlock births, as a proportion of all out-of-wedlock births, ranged from less than 25 percent in 12 counties to 50 percent or more in seven others. Seventy-three counties had a lower proportion of all out-of-wedlock births to teens in 1992 than in 1982 while 25 counties increased. Only Adams had the same percentage both years.

Figure 1. Percent of births out of wedlock in Iowa, 1980-1992.

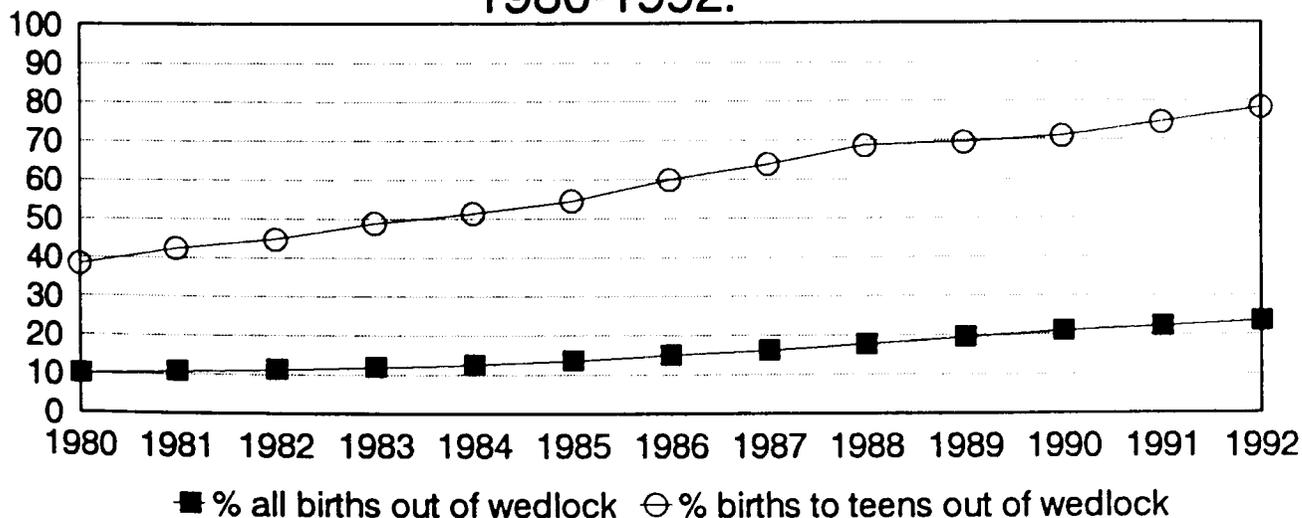


Figure 2. Percent of births out of wedlock, 1992.

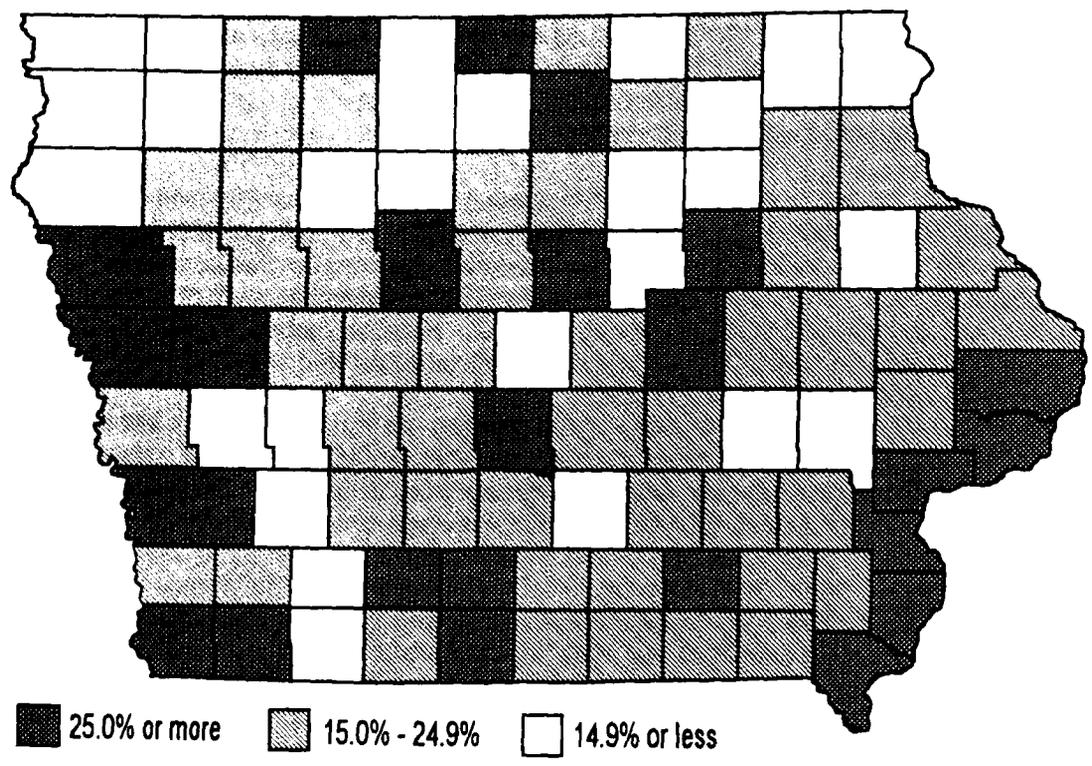
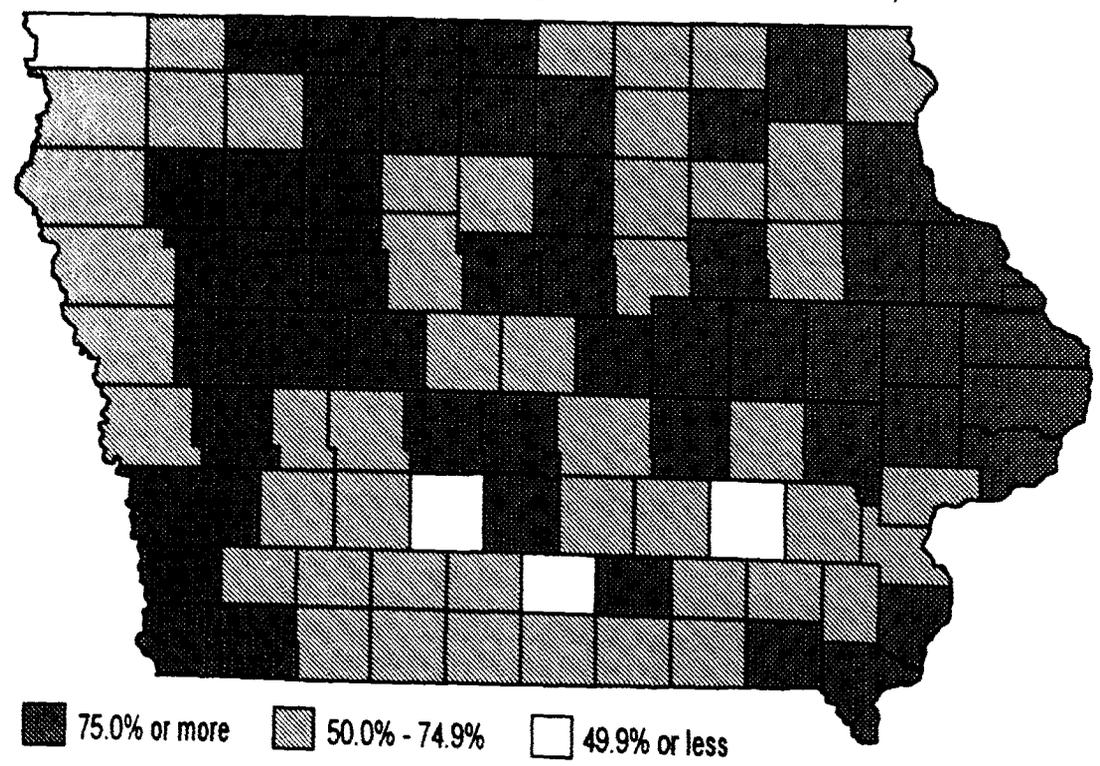


Figure 3. Percent of births to teenage women out of wedlock, 1992.



Infant Mortality in Iowa's Counties: 1980-1993

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In 1993, 261 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 the lowest number of infant deaths from 1980 to that year (Figure 1). The 1993 number was only 46.2 percent of the 565 infant deaths in 1980. The reduction occurred throughout the period, with declines greater than 50 between 1980 and 1981, 1982 and 1983, and 1985 and 1986. Slight increases took place from 1984 to 1985 and from 1986 to 1987. Deaths are reported for the county of residence of the deceased, while births are recorded by the county of residence of the mother; neither are based on where the event occurred.

A total of 5,142 infants died during the 14 years from 1980 through 1993. Polk (786) had the highest number during this period. Eight others (Black Hawk, Dubuque, Johnson, Linn, Pottawattamie, Scott, Story, Woodbury) each reported at least 100 infant deaths. These nine counties accounted for more than half (2,636, 51.3%) of the deaths to infants from 1980 through 1993. Seventeen counties had 13 or fewer infant deaths during these 14 years, or an average of less than one per year. Nearly two-thirds (64) of the 99 counties counted more than 13 but less than 50 infant deaths.

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). For the entire 14-year period, the infant mortality rate was 9.0 (or 9.0 infant deaths for every 1,000 live births) (Table 2). In 1980, the rate was 11.8; substantial declines occurred through the 1980s and early 1990s, with a rate of 6.9 reported for 1993 (Figure 2). 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 the 1985-1989 period, and it was 7.7 when the data were tallied for 1990 through 1993.

Nearly a third (32) of Iowa's 99 counties had infant mortality rates equaling or exceeding the state figure of 9.0 for the 1980-1993 period. Thirteen counties reported rates of 10.0 or higher (Figure 3). Four (Emmet, Louisa, Van Buren, Woodbury) had rates of at least 11.0; these were the only counties with rates two points or more above that for the state. Twenty-eight counties were more than two points below the state's rate. Three (Adair, Osceola, Union) had rates that were less than half that of the state.

Thirty-seven counties matched the state's pattern of declining mortality rates across the three subperiods (1980-1984, 1985-1989, 1990-1993) (Table 2). But six others (Adair, Dickinson, Montgomery, Shelby, Sioux, Union) had rates that increased through the three 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 four or five 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.

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 in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Adair	0	1	1	0	0	0	1	0	1	0	0	1	0	1	6
Adams	0	1	0	0	1	1	0	1	0	2	1	0	1	0	8
Allamakee	3	0	1	0	2	0	1	0	4	0	1	1	2	5	20
Appanoose	2	0	3	3	0	1	3	0	1	4	2	0	1	2	22
Audubon	0	1	2	1	1	0	2	0	0	3	0	3	2	0	15
Benton	4	4	1	0	1	5	1	2	1	2	2	1	5	2	31
Black Hawk	22	14	13	17	14	17	15	11	9	18	21	35	26	34	266
Boone	1	4	2	0	2	4	3	3	4	4	4	3	5	4	43
Bremer	2	1	0	0	2	1	0	5	0	4	0	1	5	4	25
Buchanan	1	2	0	1	2	4	3	1	4	4	6	3	6	6	43
Buena Vista	0	0	0	0	2	2	4	1	0	3	2	5	2	3	24
Butler	1	1	1	1	0	0	2	1	2	2	1	2	4	2	20
Calhoun	1	0	1	0	2	0	0	3	2	3	2	0	3	2	19
Carroll	2	0	0	2	1	2	3	2	1	3	1	5	1	3	26
Cass	0	1	1	1	4	0	1	2	3	4	3	2	3	3	28
Cedar	3	0	3	3	2	0	2	2	1	2	2	1	5	3	29
Cerro Gordo	6	7	2	6	0	3	4	10	4	11	2	5	6	12	78
Cherokee	0	1	0	5	2	2	0	1	1	1	3	2	1	3	22
Chickasaw	1	1	1	0	1	0	3	0	3	1	3	2	1	4	21
Clarke	0	0	1	0	0	3	0	1	0	2	1	4	2	0	14
Clay	0	1	2	0	2	0	7	2	1	3	2	3	3	5	31
Clayton	1	2	3	0	3	3	2	1	3	3	2	1	2	5	31
Clinton	8	3	3	7	3	3	4	5	8	3	2	8	7	8	72
Crawford	1	0	0	1	1	1	1	6	3	1	6	4	7	2	34
Dallas	2	2	4	1	5	3	7	5	3	5	5	4	0	3	49
Davis	1	0	1	0	0	1	0	1	3	0	0	0	2	1	10
Decatur	1	2	0	0	0	1	0	0	0	0	1	0	1	2	8
Delaware	1	0	1	2	1	4	4	5	1	1	3	2	8	4	37
Des Moines	3	6	2	6	1	7	6	5	9	11	4	6	9	13	88
Dickinson	2	4	0	1	2	0	1	2	2	2	1	1	1	3	22
Dubuque	2	6	8	16	6	11	7	11	10	10	13	16	10	18	144
Emmet	0	1	0	1	2	1	1	3	2	0	4	5	3	7	30
Fayette	1	2	3	1	2	4	1	3	2	1	2	4	9	3	38
Floyd	1	2	0	0	0	0	1	0	6	5	2	0	2	2	21
Franklin	1	1	2	1	1	3	0	1	0	1	0	4	3	3	21
Fremont	0	2	0	0	2	0	1	2	1	0	1	1	1	0	11
Greene	1	0	1	1	0	2	0	1	0	1	0	2	4	1	14
Grundy	0	1	1	1	0	1	1	0	1	1	3	0	3	0	13
Guthrie	0	0	2	0	2	0	0	1	1	2	2	2	0	2	14
Hamilton	1	3	1	3	3	0	2	2	0	2	0	3	1	4	25
Hancock	0	1	0	2	2	0	0	1	1	0	4	2	3	9	25
Hardin	0	0	2	2	1	0	2	3	3	4	0	4	1	0	22
Harrison	1	0	1	1	0	0	1	2	5	1	1	2	0	3	18
Henry	4	0	2	0	3	2	2	1	3	0	2	1	1	9	30
Howard	1	0	0	1	0	1	0	2	1	1	2	1	0	3	13
Humboldt	0	0	1	2	1	1	4	0	1	4	0	0	0	1	15
Ida	2	1	1	0	2	0	1	0	1	1	1	2	0	1	13
Iowa	0	0	1	0	5	4	3	2	1	1	1	2	0	1	13
Jackson	2	3	2	1	4	5	1	3	4	2	1	2	4	5	39
Jasper	5	3	4	0	3	3	5	5	6	5	3	4	3	4	53

Table 1. Infant Mortality in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Jefferson	3	3	2	3	1	0	0	0	1	5	0	1	3	1	23
Johnson	3	11	12	13	14	11	9	7	15	10	16	17	13	17	168
Jones	1	0	0	4	0	1	3	2	2	1	0	2	2	2	20
Keokuk	0	1	2	1	0	3	0	3	3	4	1	2	1	1	22
Kossuth	0	2	1	4	0	2	1	1	4	1	4	3	1	5	29
Lee	3	3	8	2	4	3	9	6	3	5	6	11	7	9	79
Linn	19	20	14	26	19	27	19	25	24	17	27	44	22	45	348
Louisa	2	0	1	4	2	2	1	3	0	2	2	3	1	2	25
Lucas	0	1	1	0	3	0	1	0	1	1	0	1	0	0	9
Lyon	2	3	1	1	0	0	0	2	0	1	4	2	1	0	17
Madison	0	0	2	1	0	0	1	1	1	1	1	1	0	3	12
Mahaska	1	2	3	1	3	2	4	1	2	3	3	3	4	1	33
Marion	2	5	4	1	4	3	3	5	3	0	5	3	4	2	44
Marshall	4	0	5	4	2	3	5	6	8	2	4	10	4	7	64
Mills	2	0	0	0	0	2	3	1	1	2	0	2	3	1	17
Mitchell	1	4	1	1	1	0	1	1	1	1	2	0	4	2	20
Monona	2	0	1	1	0	0	1	1	0	2	0	0	0	1	9
Monroe	0	0	0	0	1	2	3	1	0	1	1	1	2	2	14
Montgomery	2	1	3	1	1	5	0	0	1	1	0	0	1	4	20
Muscatine	3	10	11	2	6	6	5	8	4	3	7	11	12	7	95
O'Brien	2	2	3	2	1	0	1	1	1	0	1	4	1	4	23
Osceola	0	0	0	0	0	0	1	0	0	0	1	0	0	2	4
Page	4	2	1	0	1	6	1	0	1	2	5	1	1	4	29
Palo Alto	2	1	1	1	0	0	0	2	0	3	3	1	4	1	19
Plymouth	3	4	3	2	2	1	4	1	1	6	2	6	3	3	41
Pocahontas	0	0	0	0	0	1	1	0	2	1	1	1	2	0	9
Polk	48	52	66	57	59	51	60	46	70	50	52	44	59	72	786
Pottawattamie	7	13	14	5	11	7	18	12	22	12	16	25	21	18	201
Poweshiek	1	0	0	0	3	1	1	3	1	1	0	4	4	6	25
Ringgold	0	0	2	0	0	1	2	0	1	1	1	0	0	0	8
Sac	0	1	0	1	2	2	1	1	1	1	3	1	3	2	19
Scott	12	23	14	27	24	22	17	26	17	25	24	25	29	41	326
Shelby	0	2	2	3	3	2	0	0	1	0	1	0	2	4	20
Sioux	2	4	5	2	3	2	3	2	6	4	7	3	3	2	48
Story	6	5	11	10	3	5	7	7	11	8	8	5	8	9	103
Tama	1	2	0	2	0	2	0	1	3	1	2	2	2	5	23
Taylor	0	0	1	0	5	1	0	0	2	0	1	2	0	2	14
Union	0	1	2	1	1	1	0	1	0	0	0	1	0	0	8
Van Buren	1	1	2	1	1	1	0	0	2	2	1	1	4	0	17
Wapello	3	5	3	4	6	3	7	4	5	7	7	0	5	8	67
Warren	4	4	6	0	1	5	5	4	4	5	2	1	4	3	48
Washington	1	4	1	1	4	3	0	1	3	5	3	3	1	2	32
Wayne	0	0	1	1	0	0	0	0	0	1	1	1	1	2	8
Webster	4	5	5	5	5	7	7	5	7	9	4	10	6	12	91
Winnebago	3	1	1	0	1	0	1	5	1	1	3	3	0	0	20
Winneshiek	0	2	0	2	0	4	1	1	3	5	2	0	3	4	27
Woodbury	13	19	14	26	27	22	21	9	24	17	21	24	30	27	294
Worth	0	1	0	0	0	0	1	0	1	1	0	3	2	1	10
Wright	3	2	1	3	1	2	1	0	2	1	2	3	4	1	26
State of Iowa	261	307	312	317	321	330	343	327	389	376	385	453	456	565	5142

Table 2. Infant Mortality Rates Per 1,000 Live Births in Iowa Counties for Selected Periods from 1980 through 1993.

County	1980- 1993	1990- 1993	1985- 1989	1980- 1984	County	1980- 1993	1990- 1993	1985- 1989	1980- 1984
Adair	3.9	5.4	3.8	3.0	Jefferson	8.0	14.9	1.9	9.1
Adams	8.6	4.6	9.0	10.7	Johnson	9.1	7.1	8.6	11.3
Allamakee	6.8	5.5	6.7	7.6	Jones	5.6	5.1	6.7	5.0
Appanoose	8.5	11.9	5.8	8.6	Keokuk	9.5	6.5	12.0	9.4
Audubon	10.7	12.9	6.5	12.6	Kossuth	7.5	7.8	6.3	8.1
Benton	7.0	7.1	6.8	7.1	Lee	10.0	7.8	9.4	12.0
Black Hawk	10.0	9.6	7.7	12.0	Linn	9.8	7.5	9.4	11.9
Boone	9.3	5.8	10.0	11.0	Louisa	11.0	11.0	10.7	11.3
Bremer	6.1	3.0	6.2	7.7	Lucas	5.3	4.5	9.5	2.8
Buchanan	8.7	3.3	8.6	11.8	Lyon	6.5	10.4	2.3	7.3
Buena Vista	5.9	.0	6.3	9.5	Madison	5.4	4.7	3.9	7.4
Butler	6.9	5.9	5.2	8.6	Mahaska	7.5	6.2	7.7	8.1
Calhoun	9.4	4.4	10.3	11.4	Marion	7.7	7.8	9.1	6.4
Carroll	5.4	3.5	5.4	6.4	Marshall	8.4	6.7	9.6	8.6
Cass	9.5	4.0	10.5	11.9	Mills	7.0	3.2	8.4	8.2
Cedar	9.0	10.7	6.6	9.8	Mitchell	9.6	12.5	5.8	10.7
Cerro Gordo	8.4	8.4	6.4	10.1	Monona	4.8	8.0	3.6	3.7
Cherokee	8.1	9.2	6.5	8.7	Monroe	8.9	0.0	13.9	11.3
Chickasaw	7.4	4.2	7.9	8.9	Montgomery	8.8	11.6	9.5	6.4
Clarke	8.9	2.5	7.0	15.0	Muscatine	10.2	9.9	9.3	11.3
Clay	8.3	3.3	9.7	10.1	O'Brien	7.5	12.0	4.1	7.5
Clayton	8.0	6.2	9.2	8.0	Osceola	2.7	0.0	2.1	4.8
Clinton	6.9	7.7	6.6	6.6	Page	9.8	9.9	8.7	10.8
Crawford	9.5	2.4	9.6	13.4	Palo Alto	9.0	11.7	2.8	12.2
Dallas	8.2	5.4	11.2	7.6	Plymouth	8.1	9.5	5.3	9.5
Davis	5.6	4.2	8.3	4.2	Pocahontas	4.9	0.0	6.2	6.5
Decatur	5.4	8.3	2.0	6.6	Polk	10.8	10.2	11.2	11.1
Delaware	8.7	3.7	10.4	10.3	Pottawattamie	10.7	7.6	10.8	12.9
Des Moines	10.2	7.5	9.8	12.3	Poweshiek	7.9	1.1	8.5	12.2
Dickinson	9.0	11.6	8.5	7.8	Ringgold	8.8	10.4	13.7	4.7
Dubuque	7.9	6.5	7.4	9.2	Sac	8.1	3.6	9.0	9.9
Emmet	13.3	3.5	12.8	19.1	Scott	9.1	7.8	8.7	10.4
Fayette	8.6	6.3	8.5	10.0	Shelby	7.6	10.7	7.2	6.2
Floyd	6.5	3.6	6.5	8.4	Sioux	6.9	7.5	6.8	6.6
Franklin	9.8	10.0	6.9	12.0	Story	7.7	9.2	7.0	7.3
Fremont	7.0	5.0	11.0	4.8	Tama	6.8	5.7	5.3	8.8
Greene	7.0	6.2	4.7	9.0	Taylor	10.8	3.3	20.0	8.5
Grundy	6.0	5.6	4.3	7.5	Union	3.4	6.8	3.9	1.0
Guthrie	7.5	3.8	7.1	10.2	Van Buren	11.3	13.0	7.7	13.3
Hamilton	8.1	9.7	6.7	8.2	Wapello	9.8	8.1	10.9	9.9
Hancock	9.8	5.1	4.6	16.3	Warren	6.8	6.8	7.8	5.9
Hardin	6.2	4.9	7.8	5.7	Washington	7.9	6.2	7.7	9.3
Harrison	6.1	3.9	7.5	6.3	Wayne	6.6	6.6	0.0	12.0
Henry	8.4	5.9	9.2	9.5	Webster	10.4	8.4	10.4	11.8
Howard	6.6	4.1	6.1	8.4	Winnebago	8.9	9.1	9.8	8.0
Humboldt	7.2	7.0	9.6	5.4	Winneshiek	6.8	4.0	6.5	8.9
Ida	7.4	10.2	6.3	7.0	Woodbury	12.9	11.0	13.3	13.9
Iowa	9.2	1.2	15.2	9.9	Worth	6.6	2.6	3.8	11.5
Jackson	9.1	7.6	11.7	7.9	Wright	9.6	12.3	6.6	10.1
Jasper	8.2	6.7	9.8	7.7					
					State of Iowa	9.0	7.7	8.8	10.0

Figure 1. Infant mortality in Iowa, 1980-1993.

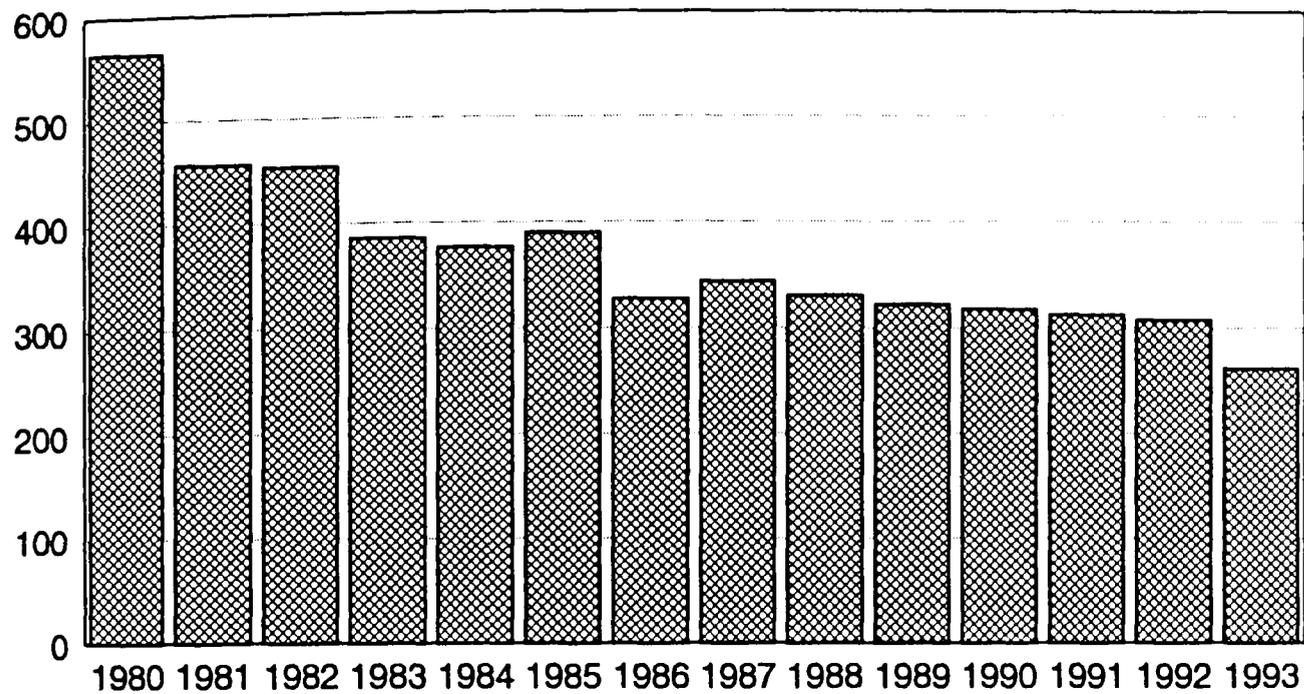
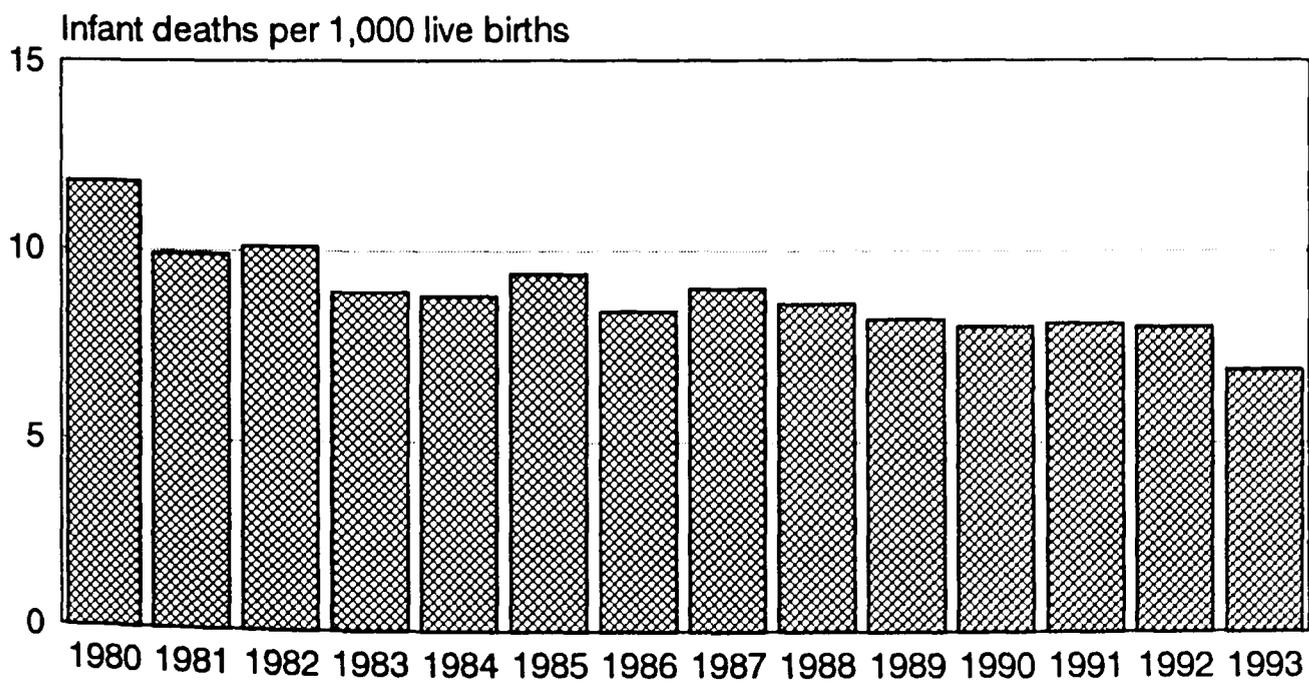


Figure 2. Infant mortality rate in Iowa, 1980-1993.



Deaths Caused by Accident, Suicide, or Homicide in Iowa's Counties: 1980-1993

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Willis Goudy, Iowa State University
Michael Dare, Iowa Department of Public Health

The Iowa Department of Public Health maintains records on the causes of death of residents in Iowa's counties. Deaths from causes other than illness and disease include motor vehicle accidents, other accidents, suicides, and homicides. From 1980 through 1993, the 20,989 deaths due to these four causes accounted for 5.5% of all deaths (381,053) 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 1993, 463 Iowans died in motor vehicle accidents (Table 1). From 1980 through 1992, only one year (1986) had a lower total; deaths from motor vehicle accidents were substantially higher in 1980 and 1981, exceeding 650 both years (Figure 1).

Polk county had more residents (34) die in motor vehicle accidents in 1993 than did any other county. The next highest counties were Black Hawk and Linn, each with 19. Six counties had from 10 to 17 such deaths. Twenty-two counties had from five to nine motor vehicle deaths while a majority (61) had one to four. Seven counties (Calhoun, Greene, Grundy, Lucas, Madison, Pocahontas, Worth) had no residents die in motor vehicle accidents in 1993.

A total of 7,363 Iowa residents died in motor vehicle accidents from 1980 through 1993. Of these, 640 were residents of Polk county. Seventeen other counties had at least 100 residents die in this manner between 1980 and 1993. Adams county had 15 residents die in motor vehicle accidents during the 14 year period, the lowest of any county.

Deaths Due to Other Accidents

Included in the category of other accidents are deaths by falls, drowning, fire, suffocation, accidental poisoning, and gunshots; deaths from boat and airplane accidents also are counted in this category. The deaths of 559 Iowans were due to these kinds of incidents in 1993 (Table 2). In 1980, 652 accidental deaths not involving motor vehicles occurred to Iowa residents, the highest during the period reviewed (Figure 1).

In 1993, Polk county had the highest number (70) of deaths from accidents other than those involving motor vehicles, followed by Black Hawk (36) and Scott (32). Five or fewer such deaths occurred in 70 counties in 1993; among these, no deaths from these kinds of accidents were reported for residents of eight counties in 1993.

During the 1980-1993 period, accidents other than those involving motor vehicles claimed the lives of 8,125 Iowans. Polk's total was 984, nearly triple that of second place Linn (340). Eighteen other counties recorded 100 or more such accidental deaths during the 14 years. Ringgold (19) had the fewest of these accidental deaths during the period.

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Adair	5	2	2	3	1	1	0	2	0	2	1	0	2	3	24
Adams	2	1	2	0	1	4	1	0	1	0	1	1	1	0	15
Allamakee	4	7	3	4	6	1	9	3	1	6	7	7	5	9	72
Appanoose	5	2	0	5	4	6	4	4	1	5	0	0	5	3	44
Audubon	1	1	4	2	1	0	0	0	1	2	4	0	2	4	22
Benton	3	1	8	3	7	8	5	3	3	4	9	5	3	7	69
Black Hawk	19	24	16	19	16	17	13	13	18	13	16	19	24	29	256
Boone	1	6	1	3	3	2	6	1	5	2	2	6	7	3	48
Bremer	8	1	6	5	5	9	2	3	4	2	4	3	5	8	65
Buchanan	3	3	2	3	4	8	1	1	2	4	6	7	5	5	54
Buena Vista	3	6	4	3	4	8	2	3	2	5	3	6	5	6	60
Butler	4	4	3	2	3	6	6	5	1	3	2	2	2	5	48
Calhoun	0	3	3	2	10	4	3	2	5	3	3	2	2	7	49
Carroll	4	4	7	2	1	6	5	3	3	3	3	5	3	8	57
Cass	4	4	2	2	0	4	1	7	4	1	6	4	4	10	53
Cedar	3	2	7	2	3	9	4	2	7	4	0	5	8	5	61
Cerro Gordo	13	8	6	3	6	3	8	5	8	3	5	8	10	16	102
Cherokee	1	1	5	1	5	5	3	0	4	4	1	4	7	4	45
Chickasaw	2	3	6	1	1	5	2	3	1	5	1	2	2	6	40
Clarke	4	2	3	2	2	1	2	4	3	0	0	3	4	1	31
Clay	2	0	6	4	1	1	2	4	4	1	3	6	2	8	44
Clayton	9	4	6	2	13	3	1	8	3	5	5	6	10	11	86
Clinton	7	4	11	9	8	20	10	10	8	6	11	14	16	11	145
Crawford	5	2	5	2	2	4	7	4	10	2	9	2	6	6	66
Dallas	11	10	9	10	5	11	6	5	7	5	6	8	7	5	105
Davis	3	2	2	3	3	0	2	3	3	5	1	1	0	0	28
Decatur	3	1	3	1	1	1	0	1	2	3	2	8	4	2	32
Delaware	4	2	4	2	1	1	4	2	4	3	2	4	4	4	41
Des Moines	13	3	10	7	5	12	8	8	4	11	9	5	8	9	112
Dickinson	2	6	4	1	2	2	3	0	2	1	0	1	1	5	30
Dubuque	9	18	9	11	18	15	14	14	14	15	18	12	21	18	206
Emmet	1	2	5	0	3	3	4	1	8	3	2	0	5	4	41
Fayette	3	5	7	13	3	12	8	3	6	3	4	4	5	2	78
Floyd	4	3	3	2	5	4	4	1	3	2	5	8	6	7	57
Franklin	2	4	1	0	4	4	2	1	1	3	3	2	3	3	33
Fremont	3	0	1	2	2	2	5	4	4	3	2	2	4	3	37
Greene	0	2	0	4	2	9	1	0	0	1	2	1	5	8	35
Grundy	0	0	3	1	0	1	2	1	2	1	2	4	2	3	22
Guthrie	2	2	1	1	1	5	1	1	3	2	2	3	1	2	27
Hamilton	4	4	1	4	4	7	7	2	0	3	6	3	8	4	57
Hancock	4	0	2	5	2	2	2	4	1	3	3	1	1	2	32
Hardin	4	2	3	2	3	8	5	3	3	8	2	2	7	7	59
Harrison	4	12	7	6	6	5	2	4	2	5	4	6	1	8	72
Henry	7	2	11	2	7	1	2	7	0	3	1	5	6	4	58
Howard	1	4	1	2	4	2	3	3	1	5	1	1	5	2	35
Humboldt	2	3	1	1	4	1	3	3	2	2	4	0	5	2	33
Ida	4	5	0	2	1	2	7	1	5	2	3	0	1	0	33
Iowa	3	6	2	2	1	3	3	2	8	1	0	5	5	5	46
Jackson	4	4	8	7	3	8	11	8	7	4	7	10	8	7	96
Jasper	9	4	1	8	10	6	8	7	3	10	9	5	6	5	91

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Jefferson	2	2	6	5	2	3	5	2	2	4	5	1	4	5	48
Johnson	8	8	11	10	14	6	5	8	22	8	7	14	9	11	141
Jones	6	7	2	5	4	6	4	2	4	1	7	3	6	6	63
Keokuk	6	2	2	5	0	5	6	3	3	8	9	6	8	3	66
Kossuth	6	2	1	1	9	3	4	2	10	3	1	7	7	5	61
Lee	3	7	16	16	9	9	8	5	8	6	10	9	13	14	133
Linn	19	12	22	21	26	19	19	16	20	19	15	20	32	29	289
Louisa	3	3	1	4	5	3	0	3	0	2	3	3	2	2	34
Lucas	0	5	2	6	2	0	3	2	3	3	3	2	4	1	36
Lyon	3	2	2	2	2	0	2	5	3	4	1	2	5	4	37
Madison	0	2	4	2	3	1	2	1	4	3	3	1	3	1	30
Mahaska	7	6	6	5	3	6	7	3	4	4	5	3	0	6	65
Marion	8	9	4	7	8	6	2	4	5	2	5	1	8	4	73
Marshall	5	12	17	6	11	2	9	10	9	6	9	13	10	11	130
Mills	3	2	3	7	2	2	3	5	3	2	1	3	3	4	43
Mitchell	2	6	0	1	2	3	3	1	1	1	4	1	2	3	30
Monona	1	3	2	3	5	4	4	5	0	3	3	3	6	7	49
Monroe	4	3	1	3	5	1	1	1	3	3	6	1	3	6	41
Montgomery	2	0	3	4	2	3	2	3	2	1	2	2	6	2	34
Muscatine	3	5	9	11	19	14	8	4	18	10	15	8	12	9	145
O'Brien	1	5	3	1	4	3	3	0	1	7	3	3	8	3	45
Osceola	2	1	0	1	0	3	0	6	2	2	4	1	2	0	24
Page	1	5	3	7	2	5	1	2	2	8	4	3	5	6	54
Palo Alto	2	3	5	4	3	3	0	2	7	1	1	1	2	2	36
Plymouth	5	2	2	4	3	6	8	4	9	1	5	7	8	10	74
Pocahontas	0	3	3	4	6	5	3	7	1	2	3	3	5	4	49
Polk	34	39	45	35	48	60	41	43	45	44	43	28	58	77	640
Pottawattamie	14	20	8	14	14	15	25	17	14	11	21	21	22	5	221
Poweshiek	1	2	3	2	5	4	6	5	3	8	2	6	5	6	58
Ringgold	2	1	1	1	0	2	3	0	2	2	3	1	1	3	22
Sac	3	4	1	2	4	4	7	1	7	1	3	4	3	5	49
Scott	17	18	10	18	21	19	22	21	15	18	33	18	29	28	287
Shelby	7	6	2	3	4	4	2	0	2	2	5	5	2	7	51
Sioux	2	1	6	8	7	4	6	9	5	4	4	4	4	6	70
Story	7	7	13	9	4	5	9	6	6	9	5	6	9	9	104
Tama	5	6	6	6	3	2	5	5	5	4	8	3	7	4	69
Taylor	2	1	0	2	2	1	5	4	2	0	5	3	2	3	32
Union	3	5	5	1	2	4	1	5	3	3	0	5	3	5	45
Van Buren	4	0	4	2	2	2	0	0	1	2	1	3	3	1	25
Wapello	7	8	10	9	11	7	2	9	8	5	5	7	11	5	104
Warren	1	3	1	4	8	11	3	7	7	5	6	6	6	11	79
Washington	7	3	3	3	4	3	4	5	10	4	4	3	10	8	71
Wayne	3	1	2	0	0	1	3	0	3	1	3	2	3	3	25
Webster	4	4	11	8	11	10	8	11	12	14	11	9	11	17	141
Winnebago	3	3	2	5	4	3	3	1	1	5	7	3	3	4	47
Winneshiek	2	1	3	8	5	3	2	3	2	5	7	4	4	3	52
Woodbury	12	15	12	16	17	16	14	13	19	13	20	22	15	12	216
Worth	0	0	1	1	3	3	1	1	2	2	1	3	0	0	18
Wright	3	1	6	6	4	4	3	4	7	5	3	4	2	3	55
State of Iowa	463	467	502	491	541	570	501	455	521	473	536	509	655	679	7363

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Adair	0	3	6	2	3	1	4	2	1	4	0	4	2	4	36
Adams	4	3	2	0	3	3	1	1	2	2	1	1	2	3	28
Allamakee	2	3	3	4	7	5	5	8	2	4	4	5	3	3	58
Appanoose	3	2	2	3	3	4	4	9	6	4	2	6	1	3	52
Audubon	0	4	2	0	2	2	0	2	2	2	4	3	1	2	26
Benton	3	3	4	5	6	4	4	1	5	4	7	2	4	6	58
Black Hawk	36	16	23	24	14	15	22	24	14	16	33	21	25	27	310
Boone	9	5	8	3	8	11	11	8	8	3	9	3	9	5	100
Bremer	4	4	5	4	3	5	1	5	2	4	4	4	8	2	55
Buchanan	3	10	3	4	1	5	7	3	5	4	3	6	8	4	66
Buena Vista	2	4	0	2	7	6	3	0	4	2	8	3	4	6	51
Butler	0	0	1	2	2	3	4	7	2	1	2	2	4	5	35
Calhoun	2	2	6	2	1	4	4	4	2	3	4	0	1	2	37
Carroll	3	6	3	2	7	6	8	2	5	8	3	11	3	5	72
Cass	0	6	6	6	8	7	5	1	8	3	1	4	3	5	63
Cedar	4	2	0	5	1	2	0	1	6	5	2	2	4	0	34
Cerro Gordo	4	5	12	2	8	4	8	11	10	9	7	8	13	9	110
Cherokee	1	2	4	5	9	7	2	1	3	2	4	3	1	2	46
Chickasaw	4	2	4	1	1	1	1	4	1	3	0	2	3	3	30
Clarke	3	3	3	4	2	1	2	0	3	2	3	1	3	7	37
Clay	3	4	1	2	0	2	4	1	0	4	3	6	4	5	39
Clayton	6	4	7	3	5	8	4	2	6	9	6	8	6	7	81
Clinton	14	13	6	6	14	11	13	9	13	6	8	20	5	14	152
Crawford	4	3	2	4	5	1	3	5	5	5	3	5	5	4	54
Dallas	8	10	4	3	6	11	10	4	8	8	7	6	4	4	93
Davis	1	0	3	2	2	1	2	0	2	2	4	5	1	1	26
Decatur	4	8	6	5	4	4	2	3	3	1	2	2	1	5	50
Delaware	1	8	5	3	6	6	2	5	6	9	2	7	1	4	65
Des Moines	7	9	12	11	13	11	4	11	14	2	5	7	9	7	122
Dickinson	4	0	0	6	3	0	3	3	4	3	3	8	4	3	44
Dubuque	14	6	17	20	13	10	7	22	20	16	13	13	15	19	205
Emmet	4	2	2	1	3	6	1	1	4	5	3	0	4	2	38
Fayette	7	5	4	5	7	3	8	3	6	8	3	6	10	8	83
Floyd	4	6	4	1	1	5	5	2	2	5	4	6	3	10	58
Franklin	2	4	4	3	3	3	1	6	5	1	3	1	5	2	43
Fremont	3	0	4	3	2	3	2	1	0	2	7	3	8	3	41
Greene	0	3	6	1	0	1	3	3	5	1	7	2	0	4	36
Grundy	2	1	4	2	2	1	2	2	2	0	1	4	4	6	33
Guthrie	3	0	3	2	4	1	5	3	4	3	1	6	3	8	46
Hamilton	1	5	1	3	1	2	1	5	2	3	6	1	1	5	37
Hancock	3	2	1	3	2	3	3	5	0	3	3	5	3	1	37
Hardin	6	2	6	5	1	1	3	4	3	2	4	5	4	9	55
Harrison	1	4	5	4	3	6	4	2	8	3	9	3	4	3	59
Henry	6	7	0	1	3	7	2	3	7	1	8	2	3	3	53
Howard	2	1	3	3	3	5	2	1	2	0	3	3	1	0	29
Humboldt	3	7	2	3	0	2	2	1	0	4	1	5	5	1	36
Ida	1	1	1	2	3	7	3	2	0	4	3	3	4	2	36
Iowa	1	2	3	2	3	2	3	2	2	3	1	1	3	3	31
Jackson	3	6	2	5	2	2	3	2	2	5	4	9	11	4	60
Jasper	11	5	13	4	8	5	6	12	7	8	9	8	12	11	119

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Jefferson	2	4	2	2	4	1	7	3	4	2	4	2	4	0	41
Johnson	7	13	11	16	8	11	11	13	6	6	13	11	12	6	144
Jones	6	4	1	5	6	4	3	5	5	3	7	1	3	6	59
Keokuk	5	4	2	4	0	6	5	4	6	6	3	4	4	2	55
Kossuth	2	2	5	6	8	7	3	11	3	4	4	4	3	4	66
Lee	7	7	5	6	7	17	10	4	8	6	15	11	8	12	123
Linn	22	24	28	19	25	29	17	26	23	23	22	21	29	32	340
Louisa	4	1	1	4	1	0	5	2	5	1	1	5	2	0	32
Lucas	2	1	5	1	7	4	0	1	3	0	2	5	1	1	33
Lyon	0	0	2	5	2	3	5	3	1	7	1	3	5	3	40
Madison	4	5	4	3	3	8	2	5	5	3	3	3	4	6	58
Mahaska	4	7	12	7	4	5	7	4	4	3	5	4	4	4	74
Marion	7	11	9	11	6	5	6	14	7	8	8	8	11	6	117
Marshall	7	13	10	10	7	10	8	6	9	12	9	5	9	11	126
Mills	5	0	3	7	3	1	2	2	2	2	1	1	4	2	35
Mitchell	2	2	1	4	8	1	4	2	3	6	2	4	6	7	52
Monona	5	6	2	3	5	3	1	5	2	3	4	3	0	3	45
Monroe	0	4	3	1	4	1	3	1	6	3	1	2	0	7	36
Montgomery	7	5	7	6	6	1	5	2	3	3	1	3	6	1	56
Muscatine	2	4	13	5	5	12	8	8	12	6	8	10	9	5	107
O'Brien	2	7	7	3	0	4	8	9	6	2	3	6	6	2	65
Osceola	1	1	0	1	3	0	2	1	5	0	3	1	1	3	22
Page	3	7	4	5	2	5	3	5	7	2	4	6	3	4	60
Palo Alto	1	0	2	1	4	1	1	1	2	5	0	2	4	5	29
Plymouth	1	3	2	3	5	0	4	2	2	3	4	6	5	2	42
Pocahontas	1	1	1	6	1	2	0	2	0	1	0	8	1	4	28
Polk	70	71	82	68	72	88	60	78	61	74	51	58	71	80	984
Pottawattamie	13	15	21	13	21	22	14	16	17	11	15	19	16	14	227
Poweshiek	6	4	6	3	6	7	7	3	5	3	5	6	2	6	69
Ringgold	0	2	1	1	1	0	3	2	2	5	1	0	0	1	19
Sac	5	5	3	5	3	2	1	2	4	1	4	4	8	4	51
Scott	32	21	14	14	27	13	34	27	19	21	24	25	24	22	317
Shelby	5	2	3	6	2	4	0	3	4	9	6	3	3	6	56
Sioux	9	5	4	3	7	3	2	6	5	7	5	8	7	10	81
Story	14	7	17	16	9	7	11	8	13	5	14	14	14	13	162
Tama	2	2	4	8	6	1	2	12	5	4	1	6	4	4	61
Taylor	1	1	2	2	3	4	0	1	1	1	1	5	1	2	25
Union	4	1	3	3	5	6	6	0	3	4	4	5	6	3	53
Van Buren	5	1	1	3	5	2	2	6	2	2	1	1	1	2	34
Wapello	6	10	8	9	10	6	9	7	4	8	15	7	14	12	125
Warren	4	8	4	8	7	9	3	7	7	9	9	8	9	4	96
Washington	5	5	5	7	4	9	8	3	6	9	4	3	5	7	80
Wayne	1	2	2	1	0	0	3	2	4	2	3	2	8	4	34
Webster	13	13	13	10	13	12	8	6	11	7	10	9	14	12	151
Winnebago	4	5	5	1	1	4	1	3	2	2	4	3	4	3	42
Winneshiek	6	0	4	6	2	6	7	2	11	2	2	5	5	5	63
Woodbury	21	14	18	14	29	18	14	21	15	15	27	12	18	29	265
Worth	1	5	1	3	0	0	0	2	1	2	1	2	2	2	22
Wright	7	3	7	3	2	4	1	5	6	2	0	6	4	8	58
State of Iowa	559	551	598	549	587	594	535	582	580	536	572	601	629	652	8125

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Adair	1	1	3	1	2	1	2	3	0	1	2	0	2	1	20
Adams	1	1	0	0	1	1	0	0	0	2	1	0	0	0	7
Allamakee	2	0	1	1	1	2	5	4	3	2	1	2	0	3	27
Appanoose	1	1	2	3	4	2	2	2	0	4	0	4	1	3	29
Audubon	0	3	2	1	1	1	0	1	1	1	0	1	2	0	14
Benton	5	1	3	4	1	4	3	3	5	1	2	2	1	1	36
Black Hawk	18	14	12	12	13	16	16	14	16	17	15	12	15	13	203
Boone	4	1	3	3	1	3	3	3	4	3	2	3	0	4	37
Bremer	1	2	1	3	3	0	3	0	2	3	2	0	1	4	25
Buchanan	3	4	3	4	1	2	2	1	2	7	1	2	3	3	38
Buena Vista	4	1	2	0	1	2	1	2	3	5	2	0	1	0	24
Butler	1	1	1	2	2	2	3	3	2	1	2	0	1	0	21
Calhoun	2	2	2	1	2	1	3	0	0	2	1	4	1	1	22
Carroll	4	2	3	3	6	2	2	2	1	2	3	2	2	3	37
Cass	0	0	2	1	2	1	2	5	1	1	5	1	1	2	24
Cedar	0	2	4	1	2	1	2	4	2	4	2	1	3	0	28
Cerro Gordo	6	3	5	5	6	3	9	4	9	2	5	8	4	4	73
Cherokee	3	4	4	1	0	0	3	2	2	1	1	1	1	1	24
Chickasaw	1	2	1	1	0	2	3	1	2	1	1	0	0	2	17
Clarke	3	1	2	1	2	2	2	0	0	1	0	3	0	2	19
Clay	1	0	0	1	1	0	0	1	1	2	2	0	3	3	15
Clayton	2	5	5	2	0	2	3	4	4	3	2	0	4	3	39
Clinton	7	4	2	6	3	5	9	11	6	11	6	6	9	7	92
Crawford	2	2	2	3	3	0	0	1	2	1	2	2	0	2	22
Dallas	3	7	10	2	5	3	4	4	4	2	3	7	4	3	61
Davis	2	4	0	0	0	0	0	1	0	0	1	0	4	2	14
Decatur	4	2	2	0	0	1	1	1	3	0	0	0	0	0	14
Delaware	1	0	5	1	1	1	3	2	2	3	5	0	1	0	25
Des Moines	9	3	8	6	6	5	12	7	2	3	5	7	6	4	83
Dickinson	1	1	1	2	1	3	1	7	3	1	5	1	1	0	28
Dubuque	9	12	11	6	9	11	12	5	9	7	12	8	6	10	127
Emmet	0	1	1	2	1	1	1	0	1	4	0	0	1	8	21
Fayette	3	1	4	2	3	2	7	2	3	1	3	4	6	3	44
Floyd	2	2	3	1	2	1	4	0	3	0	1	2	3	0	24
Franklin	1	0	0	3	0	0	2	1	1	1	0	0	2	1	12
Fremont	0	1	1	1	3	2	1	1	1	2	0	0	0	0	13
Greene	1	2	0	1	3	1	4	1	2	1	3	1	0	4	24
Grundy	1	0	1	1	2	3	0	2	3	2	1	1	0	2	19
Guthrie	1	3	0	2	2	1	0	3	3	2	2	3	1	3	26
Hamilton	3	2	5	1	4	4	3	3	3	3	0	1	1	0	33
Hancock	1	2	2	0	1	3	2	1	1	3	1	0	1	2	20
Hardin	0	1	0	1	0	1	2	1	2	1	0	6	0	1	16
Harrison	2	0	3	0	2	2	1	2	1	3	1	3	4	1	25
Henry	2	4	2	2	4	3	1	0	1	7	3	1	6	1	37
Howard	0	0	1	1	0	0	0	0	1	1	2	1	0	0	7
Humboldt	3	1	0	0	1	0	2	0	1	3	0	3	0	3	17
Ida	1	2	1	1	1	1	0	0	0	3	1	1	0	1	13
Iowa	1	1	4	1	1	1	2	3	1	1	0	1	0	2	19
Jackson	3	3	3	3	2	1	3	2	2	4	2	3	4	1	36
Jasper	2	2	7	4	4	3	3	6	4	3	3	2	1	5	49

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Jefferson	3	0	1	6	0	2	2	2	1	2	2	0	0	2	23
Johnson	8	7	10	9	3	11	12	10	14	7	4	6	11	8	120
Jones	1	2	1	8	4	2	3	1	4	1	2	1	2	4	36
Keokuk	3	4	1	2	1	0	2	1	2	0	1	2	3	1	23
Kossuth	1	0	0	2	2	0	4	1	1	1	3	3	2	2	22
Lee	6	2	6	3	2	2	6	5	7	4	4	4	4	4	59
Linn	22	17	25	24	20	30	28	27	16	19	13	20	22	20	303
Louisa	0	2	1	4	1	3	3	1	3	6	1	0	3	0	28
Lucas	1	3	1	1	2	3	4	1	0	2	0	2	1	4	25
Lyon	1	1	1	1	1	0	1	2	0	4	3	0	0	5	20
Madison	1	1	0	0	2	1	0	2	1	4	1	3	1	1	18
Mahaska	2	3	0	4	2	2	1	5	2	2	7	1	2	2	35
Marion	1	2	2	3	5	2	7	6	3	6	6	2	3	5	53
Marshall	3	6	4	6	1	6	6	12	5	5	6	7	5	3	75
Mills	2	0	1	2	0	2	1	0	1	0	2	1	3	1	16
Mitchell	1	2	2	2	4	0	0	0	1	0	4	1	2	2	21
Monona	1	1	0	2	0	2	0	4	1	1	0	0	0	1	13
Monroe	1	0	0	3	2	0	1	0	0	1	0	2	0	1	11
Montgomery	2	2	0	1	4	1	2	3	2	2	3	5	0	3	30
Muscatine	6	5	4	8	2	4	7	5	4	3	6	7	2	1	64
O'Brien	1	2	3	4	0	0	0	2	3	1	2	3	0	0	21
Osceola	1	0	1	1	1	1	1	3	2	0	0	0	2	1	14
Page	0	3	3	1	2	1	0	3	0	2	1	0	2	1	19
Palo Alto	1	0	0	0	0	2	0	2	0	0	1	2	3	0	11
Plymouth	0	2	3	3	2	2	6	2	3	1	3	2	0	0	29
Pocahontas	0	0	3	2	1	2	1	0	2	2	0	2	3	1	19
Polk	44	25	46	49	46	51	42	42	50	31	47	46	40	40	599
Pottawattamie	9	16	10	13	11	11	16	8	12	12	11	10	9	13	161
Poweshiek	4	1	1	1	3	3	2	0	0	2	4	3	2	2	28
Ringgold	1	0	2	3	0	0	0	1	1	1	0	0	0	0	9
Sac	1	1	0	2	2	1	1	3	0	0	0	1	2	1	15
Scott	13	21	17	13	19	16	31	27	20	22	28	13	25	36	301
Shelby	1	1	2	4	1	2	1	1	2	2	2	0	2	2	23
Sioux	2	0	1	1	0	2	1	2	3	3	2	0	0	0	17
Story	5	3	5	6	6	5	8	5	6	6	3	9	4	3	74
Tama	5	0	1	0	1	2	2	3	3	3	5	3	3	1	32
Taylor	0	0	1	3	3	2	3	1	2	2	2	1	0	1	21
Union	5	2	2	3	1	0	3	0	1	3	1	1	1	2	25
Van Buren	1	0	1	0	1	2	0	4	3	1	4	0	0	1	18
Wapello	6	2	2	4	4	3	5	7	5	5	7	7	4	4	65
Warren	2	5	3	3	6	3	5	3	5	5	1	3	2	5	51
Washington	4	7	1	2	3	1	3	1	3	1	3	0	2	1	32
Wayne	1	3	1	1	0	1	1	2	1	1	0	0	0	0	12
Webster	1	6	6	7	7	5	6	11	3	5	3	10	7	4	81
Winnebago	1	1	0	1	0	2	2	1	2	1	1	1	2	0	15
Winneshiek	3	2	5	3	2	2	3	3	3	3	2	0	4	2	37
Woodbury	11	7	12	9	12	12	14	12	7	17	10	11	11	9	154
Worth	0	0	1	0	3	0	0	1	0	2	1	2	0	0	10
Wright	1	3	1	2	3	1	2	2	0	3	0	1	0	2	21
State of Iowa	318	287	334	336	314	317	398	366	335	346	326	308	303	321	4609

Table 4. Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Adair	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adams	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Allamakee	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Appanoose	0	0	0	1	0	1	0	0	0	1	0	0	0	1	4
Audubon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benton	0	0	0	0	1	0	3	1	0	0	0	0	1	1	7
Black Hawk	8	0	5	6	3	3	0	1	3	2	6	4	10	4	55
Boone	1	1	0	0	0	0	1	0	0	2	1	0	1	2	9
Bremer	0	1	0	0	0	1	0	1	0	0	0	0	1	0	4
Buchanan	0	0	0	0	1	0	0	0	0	0	0	1	1	0	3
Buena Vista	0	0	0	0	0	0	0	1	0	0	2	0	0	0	3
Butler	0	0	0	0	0	0	0	0	0	1	4	0	0	0	5
Calhoun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carroll	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2
Cass	1	0	1	0	0	1	0	0	0	1	0	0	0	0	4
Cedar	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Cerro Gordo	2	0	1	0	0	2	0	1	0	2	0	3	1	0	12
Cherokee	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Chickasaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clarke	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2
Clay	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Clayton	0	0	0	0	0	1	0	2	0	0	0	0	0	0	3
Clinton	0	2	0	1	1	2	0	4	3	0	0	1	9	1	24
Crawford	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
Dallas	0	0	3	0	2	1	1	0	0	1	0	1	1	0	10
Davis	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3
Decatur	1	0	0	1	0	0	0	0	0	0	0	0	0	1	3
Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Des Moines	1	1	2	2	2	0	0	1	0	1	3	3	0	4	20
Dickinson	0	0	0	1	1	0	0	0	0	0	0	0	1	0	3
Dubuque	0	2	3	0	0	0	1	0	1	0	1	0	1	1	10
Emmet	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Fayette	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floyd	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Franklin	0	0	1	0	0	0	0	0	0	0	0	0	0	2	3
Fremont	0	0	0	0	0	0	1	0	0	1	1	1	0	0	4
Greene	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2
Grundy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Guthrie	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hamilton	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
Hancock	1	0	0	0	0	0	0	0	2	0	0	1	1	0	5
Hardin	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
Harrison	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
Henry	0	1	0	0	1	0	0	1	0	2	4	0	2	2	13
Howard	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Humboldt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iowa	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
Jackson	0	0	0	1	0	0	1	0	1	1	1	0	1	1	7
Jasper	0	0	0	0	2	3	0	3	1	1	2	2	0	0	14

Table 4. Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1993
Jefferson	1	0	1	0	0	0	0	0	0	0	0	0	0	1	3
Johnson	1	0	7	1	0	2	0	0	4	1	0	0	2	0	18
Jones	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
Keokuk	0	1	0	0	0	0	1	0	0	0	0	0	1	0	3
Kossuth	0	0	0	0	0	0	2	0	1	0	0	0	0	0	3
Lee	0	0	5	0	1	0	0	0	2	1	1	3	2	2	17
Linn	3	4	5	2	5	1	3	2	2	7	6	4	3	3	50
Louisa	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Lucas	0	0	1	0	0	0	0	0	0	1	0	1	0	0	3
Lyon	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Madison	0	0	0	0	0	1	0	1	1	1	0	0	0	0	4
Mahaska	0	0	1	1	0	1	1	0	1	0	1	1	0	0	7
Marion	1	1	0	2	0	0	0	1	1	0	0	1	0	1	8
Marshall	1	0	0	1	1	0	2	0	0	1	0	2	1	1	10
Mills	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2
Mitchell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monona	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Monroe	0	0	0	0	0	0	0	0	2	1	1	0	0	0	4
Montgomery	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Muscatine	1	3	0	0	0	1	1	2	4	0	0	3	1	1	17
O'Brien	0	0	1	1	0	0	0	0	1	0	0	0	1	0	4
Osceola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Page	0	1	1	0	1	1	0	0	0	1	0	0	0	3	8
Palo Alto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plymouth	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Pocahontas	0	0	1	0	1	0	0	0	0	0	0	2	1	0	5
Polk	12	11	12	18	15	15	19	21	13	18	13	17	13	19	216
Pottawattamie	2	2	4	2	1	4	2	4	0	4	4	1	1	5	36
Poweshiek	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2
Ringgold	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Sac	0	2	0	0	0	0	0	0	0	0	0	1	0	1	4
Scott	6	3	2	3	5	3	5	2	6	9	6	5	8	9	72
Shelby	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Sioux	0	1	2	0	0	0	0	1	1	0	0	0	0	0	5
Story	1	2	1	0	0	0	2	2	1	1	0	0	0	0	10
Tama	0	0	0	2	0	1	0	1	0	0	0	0	0	3	7
Taylor	0	0	0	0	0	0	0	0	1	1	0	0	0	1	3
Union	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2
Van Buren	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2
Wapello	0	1	1	0	0	1	3	0	0	1	1	1	2	0	11
Warren	4	2	1	0	1	0	1	0	1	1	0	1	0	0	12
Washington	0	0	1	0	0	1	1	0	0	0	0	0	0	1	4
Wayne	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Webster	2	0	5	1	1	2	0	0	1	2	2	2	4	1	23
Winnebago	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winneshiek	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Woodbury	3	3	7	1	6	1	3	4	0	2	6	2	4	1	43
Worth	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Wright	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
State of Iowa	60	49	76	52	55	53	58	62	58	74	69	68	80	78	892

Deaths Due to Suicide

Iowa recorded 318 suicides in 1993, a number substantially greater than the 1992 low of 287 (Table 3, Figure 1). Polk (44) and Linn (22) were the only counties with at least 20 suicides in 1993. A large majority (85) of the counties had five or fewer; of these, 13 had no suicides in 1993.

A total of 4,609 Iowans committed suicide from 1980 through 1993. More than 100 occurred to residents of Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, and Woodbury counties. Adams (7) and Howard (7) had the lowest totals for the 14 years.

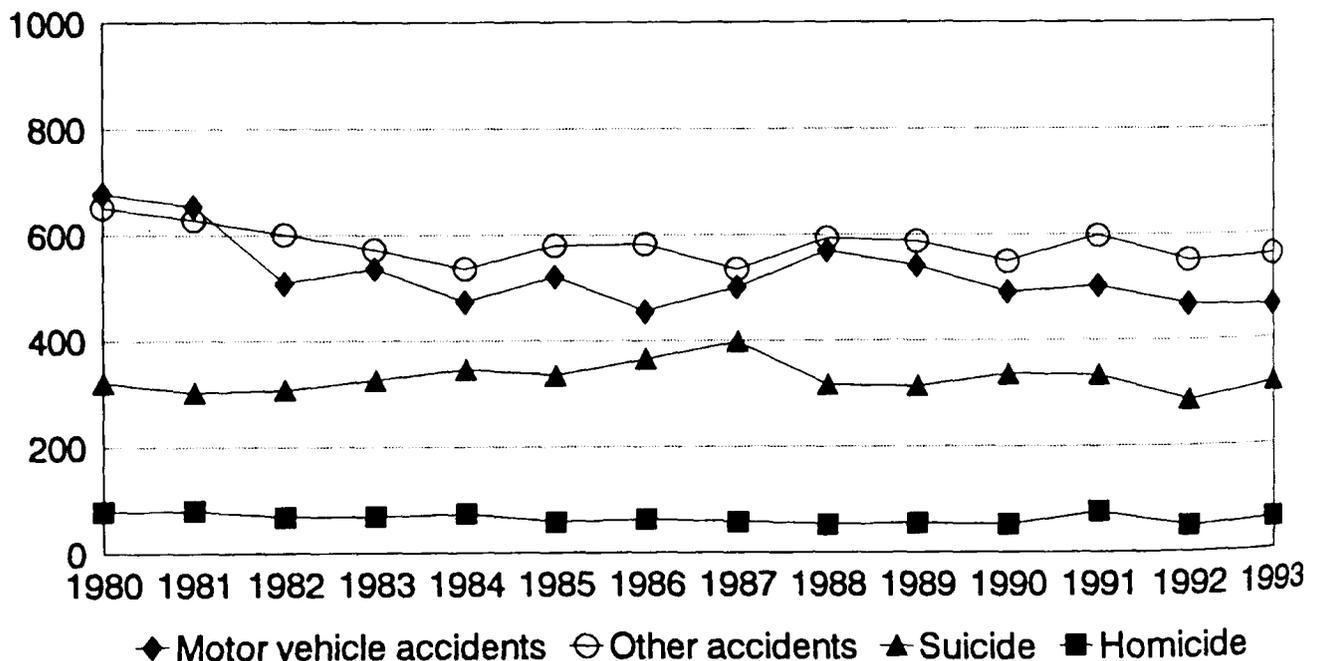
Deaths Due to Homicide

There were fewer homicides in Iowa in 1993 (60) than in 7 of the 14 years reported (Table 4, Figure 1); the highest number during the decade was 80 in 1981. Nearly three-fourths (72) of Iowa's counties had no homicide in 1993 and another 18 counties had only one. Polk (12) had the most; Black Hawk (8) and Scott (6) also had at least five homicides in 1993.

From 1980 through 1993, 892 Iowans died by homicide. Of these, 216 were Polk residents, 72 were from Scott, and 55 were from Black Hawk. These three counties accounted for 38.5 percent of all of Iowa's homicides during these 14 years. Thirteen counties had no homicides from 1980 to 1993, while 32 counties had one or two residents who died in this manner.

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, 1980-1993.



Injuries and Fatalities on Farms in Iowa's Counties:

1990-1993

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Information on injuries and fatalities occurring on Iowa's farms is collected periodically 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 1993, 2,304 farm-related injuries occurred in Iowa (Table 1). The number of injuries increased between 1990 and 1992, although a decrease of 771 occurred between 1992 and 1993. Of the 10,181 injuries that occurred over this four-year period, 8,539 (83.9%) were related to work. Both work- and leisure-related injuries increased from 1990 through 1992 but declined between 1992 and 1993.

Sioux (380) and Winneshiek (379) were the only counties listing at least 300 farm-related injuries from 1990 through 1993. Another five (Buchanan, Crawford, Dubuque, Fayette, Poweshiek) noted 200-299. Of the 56 counties where injuries totaled less than 100 in the 1990-1993 period, four (Cherokee, Louisa, Lucas, Polk) had fewer than 30.

In the four years examined, work-related injuries on farms ranged from fewer than 50 in 31 counties to more than 200 in six (Buchanan, Crawford, Dubuque, Fayette, Sioux, Winneshiek). Six counties (Black Hawk, Buchanan, Lee, Poweshiek, Sioux, Winneshiek) reported more than 50 leisure-related injuries during the four-year period; 41 counties had fewer than 10 such injuries.

Fatalities on Farms

In 1993, 51 farm-related fatalities occurred in Iowa. Of the 38 counties that had fatalities, two (Jones, Pottawattamie) reported three fatalities while nine had two farm-related deaths. Sixty counties had no fatalities that were related to farms in 1993.

From 1990 through 1993, 287 farm-related deaths took place in the state. Six counties (Cedar, Grundy, O'Brien, Scott, Union, Wayne) had no farm-related fatalities. Three counties (Clayton, Jackson, Pottawattamie) had more than 10. When single years are 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 Counties, 1990-1993.

County	Total Injuries					Work-Related Injuries					Leisure-Related Injuries					Total Fatalities				
	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993
Adair	9	29	37	12	87	8	24	30	12	74	1	5	7	0	13	1	1	1	0	3
Adams	22	33	17	32	104	17	28	11	26	82	5	5	6	6	22	0	2	0	0	2
Allamakee	37	32	55	20	144	36	24	39	17	116	1	8	16	3	28	0	0	2	1	3
Appanoose	9	24	5	4	42	5	10	5	4	24	4	14	0	0	18	0	0	0	2	2
Audubon	10	20	5	7	42	7	15	4	7	33	3	5	1	0	9	0	2	0	0	2
Benton	16	59	11	19	105	14	46	10	16	86	2	13	1	3	19	1	0	0	1	2
Black Hawk	34	91	59	8	192	24	55	43	7	129	10	36	16	1	63	1	1	1	2	5
Boone	14	7	22	10	53	13	7	19	10	49	1	0	3	0	4	1	1	0	0	2
Bremer	24	53	43	29	149	23	43	36	25	127	1	10	7	4	22	0	2	0	0	2
Buchanan	70	105	56	40	271	51	77	46	32	206	19	28	10	8	65	1	1	0	0	2
Buena Vista	2	8	4	17	31	2	6	4	17	29	0	2	0	0	2	0	1	0	0	1
Butler	15	23	28	30	96	13	20	22	26	81	2	3	6	4	15	0	1	0	0	1
Calhoun	14	7	7	18	46	12	6	7	17	42	2	1	0	1	4	1	0	2	0	3
Carroll	9	16	5	26	56	9	12	4	23	48	0	4	1	3	8	1	0	0	0	1
Cass	33	30	40	42	145	31	25	34	39	129	2	5	6	3	16	0	0	1	2	3
Cedar	14	24	15	18	71	11	20	14	17	62	3	4	1	1	9	0	0	0	0	0
Cerro Gordo	4	18	6	13	41	3	14	6	12	35	1	4	0	1	6	0	1	0	0	1
Cherokee	7	5	2	7	21	7	4	1	7	19	0	1	1	0	2	0	0	1	3	4
Chickasaw	28	25	27	17	97	27	20	23	15	85	1	5	4	2	12	0	1	1	1	3
Clarke	15	26	3	6	50	9	17	1	5	32	6	9	2	1	18	0	1	3	2	6
Clay	23	18	15	13	69	21	17	13	11	62	2	1	2	2	7	2	1	0	0	3
Clayton	35	42	37	14	128	30	38	31	14	113	5	4	6	0	15	2	5	4	1	12
Clinton	23	27	8	27	85	21	24	7	24	76	2	3	1	3	9	1	0	2	1	4
Crawford	53	45	76	89	263	53	45	59	67	224	0	0	17	20	37	1	3	0	2	6
Dallas	11	11	4	4	30	10	8	4	4	26	1	3	0	0	4	1	0	0	0	1
Davis	24	37	32	14	107	22	31	27	13	93	2	6	5	1	14	0	1	1	2	4
Decatur	9	9	10	18	46	8	7	9	18	42	1	2	1	0	4	2	1	1	0	4
Delaware	18	37	33	44	132	15	34	31	44	124	3	3	2	0	8	0	2	3	2	7
Des Moines	11	14	11	6	42	9	13	10	5	37	2	1	1	1	5	2	2	0	1	5
Dickinson	6	13	4	15	38	6	12	4	14	36	0	1	0	1	2	1	0	0	1	2
Dubuque	75	71	72	78	296	64	62	67	70	263	11	9	5	8	33	0	0	1	2	3
Emmet	1	7	22	21	51	1	6	17	19	43	0	1	5	2	8	0	0	1	0	1
Fayette	72	84	51	41	248	66	71	40	37	214	6	13	11	4	34	1	1	0	2	4

Table 1. Farm-Related Injuries and Fatalities in Iowa Counties, 1990-1993 (continued).

County	Total Injuries					Work-Related Injuries					Leisure-Related Injuries					Total Fatalities				
	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993
Floyd	24	17	27	19	87	16	11	15	15	57	8	6	12	4	30	0	2	0	0	2
Franklin	13	13	16	13	55	12	11	16	13	52	1	2	0	0	3	0	0	1	0	1
Fremont	13	10	8	11	42	10	7	6	9	32	3	3	2	2	10	2	0	0	0	2
Greene	24	41	27	36	128	24	39	26	33	122	0	2	1	3	6	0	1	1	0	2
Grundy	6	13	30	17	66	5	12	24	16	57	1	1	6	1	9	0	0	0	0	0
Guthrie	11	25	16	13	65	10	22	16	12	60	1	3	0	1	5	0	1	0	0	1
Hamilton	11	16	26	3	56	10	14	16	2	42	1	2	10	1	14	1	0	1	0	2
Hancock	24	35	33	34	126	23	32	33	29	117	1	3	0	5	9	1	0	0	1	2
Hardin	18	13	26	22	79	18	11	18	20	67	0	2	8	2	12	0	0	1	0	1
Harrison	34	32	9	7	82	31	26	7	7	71	3	6	2	0	11	0	0	0	1	1
Henry	4	18	22	18	62	3	16	17	18	54	1	2	5	0	8	0	3	2	0	5
Howard	37	55	41	9	142	35	47	38	8	128	2	8	3	1	14	1	0	2	0	3
Humboldt	79	56	20	4	159	66	42	17	4	129	13	14	3	0	30	0	0	0	1	1
Ida	4	22	11	6	43	4	22	10	5	41	0	0	1	1	2	0	0	0	1	1
Iowa	41	44	54	43	182	39	36	44	38	157	2	8	10	5	25	0	0	0	2	2
Jackson	27	23	15	35	100	19	14	13	34	80	8	9	2	1	20	1	4	5	2	12
Jasper	17	39	33	36	125	13	37	30	29	109	4	2	3	6	15	0	4	1	0	5
Jefferson	36	29	45	23	133	27	22	32	19	100	9	7	13	4	33	0	1	0	0	1
Johnson	38	66	41	45	190	32	41	38	41	152	6	25	3	4	38	0	2	0	1	3
Jones	22	20	28	37	107	19	18	26	37	100	3	2	2	0	7	3	0	1	1	5
Keokuk	46	51	36	42	175	40	45	28	36	149	6	6	8	6	26	1	0	0	0	1
Kossuth	21	14	28	27	90	19	13	22	25	79	2	1	6	2	11	1	1	1	2	5
Lee	60	55	57	23	195	32	34	36	17	119	28	21	21	6	76	1	0	0	1	2
Linn	7	69	19	19	114	7	35	15	17	74	0	34	4	1	39	0	1	0	1	2
Louisa	7	10	5	5	27	6	9	5	5	25	1	1	0	0	2	0	1	0	0	1
Lucas	3	4	12	3	22	3	3	11	3	20	0	1	1	0	2	1	0	0	0	1
Lyon	25	14	21	24	84	25	14	21	24	84	0	0	0	0	0	0	0	2	1	3
Madison	7	17	20	7	51	7	9	15	5	36	0	8	5	2	15	0	0	3	0	3
Mahaska	38	48	25	15	126	31	39	25	13	108	7	9	0	2	18	0	1	0	1	2
Marion	28	15	23	9	75	25	14	21	9	69	3	1	2	0	6	1	0	2	3	6
Marshall	24	32	22	12	90	22	26	21	12	81	2	6	1	0	9	0	1	0	1	2
Mills	7	12	23	7	49	6	11	21	6	44	1	1	2	1	5	0	0	1	0	1
Mitchell	11	28	23	.*	.	11	26	20	.	.	0	2	3	.	.	1	2	0	.	.

*Not available.

Table 1. Farm-Related Injuries and Fatalities in Iowa Counties, 1990-1993 (continued).

County	Total Injuries					Work-Related Injuries					Leisure-Related Injuries					Total Fatalities				
	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993	1993	1992	1991	1990	1990-1993
Monona	8	2	40	9	59	8	2	27	8	45	0	0	13	1	14	2	0	0	2	4
Monroe	31	34	45	30	140	28	30	37	26	121	3	4	8	3	18	0	0	1	1	2
Montgomery	1	29	25	15	70	1	24	22	15	62	0	5	3	0	8	0	2	1	0	3
Muscatine	14	25	12	11	62	12	21	12	9	54	2	4	0	2	8	1	0	0	0	1
O'Brien	47	40	50	42	179	39	38	42	39	158	8	2	8	3	21	0	0	0	0	0
Osceola	3	8	11	14	36	2	7	10	13	32	1	1	1	1	4	0	2	0	1	3
Page	28	21	13	23	85	23	19	12	15	69	5	2	1	8	16	1	0	0	0	1
Palo Alto	7	10	10	21	48	5	10	10	20	45	2	0	0	1	3	0	0	0	1	1
Plymouth	9	22	19	18	68	8	22	16	14	60	1	0	3	4	8	1	2	1	2	6
Pocahontas	13	16	11	18	58	12	15	10	15	52	1	1	1	3	6	0	0	0	2	2
Polk	6	10	3	4	23	4	7	3	3	17	2	3	0	0	5	2	0	0	1	3
Pottawattamie	35	48	40	25	148	32	35	35	17	119	3	13	5	8	29	3	5	3	4	15
Poweshiek	55	45	57	86	243	44	36	48	64	192	11	9	9	22	51	0	2	1	0	3
Ringgold	25	26	23	31	105	22	23	20	22	87	3	3	3	8	17	0	1	0	2	3
Sac	16	29	9	26	80	14	24	8	24	70	2	5	1	2	10	0	2	0	0	2
Scott	20	4	7	4	35	14	2	5	4	25	6	2	2	0	10	0	0	0	0	0
Shelby	13	12	28	43	96	13	12	27	38	90	0	0	1	5	6	0	0	1	3	4
Sioux	64	109	118	89	380	60	84	99	69	312	4	25	19	19	67	0	1	1	1	3
Story	16	47	31	19	113	15	42	28	18	103	1	5	3	1	10	2	1	1	0	4
Tama	23	48	49	17	137	18	42	41	14	115	5	6	8	3	22	0	0	3	1	4
Taylor	28	20	10	13	71	25	16	6	9	56	3	4	4	4	15	0	0	1	0	1
Union	13	10	16	12	51	12	8	10	11	41	1	2	6	1	10	0	0	0	0	0
Van Buren	26	41	32	33	132	20	34	26	29	109	6	7	6	4	23	0	0	1	1	2
Wapello	48	47	36	27	158	32	35	28	24	119	16	12	8	3	39	0	0	1	0	1
Warren	5	10	5	13	33	4	8	4	10	26	1	2	1	3	7	0	2	1	1	4
Washington	51	57	39	39	186	48	56	32	35	171	3	1	7	3	14	0	4	0	1	5
Wayne	37	35	69	15	156	29	25	51	13	118	8	10	18	2	38	0	0	0	0	0
Webster	38	83	12	2	135	29	68	8	2	107	9	15	4	0	28	1	2	0	0	3
Winnebago	4	22	11	10	47	3	19	8	9	39	1	3	3	1	8	2	1	2	0	5
Winneshiek	90	123	111	55	379	83	113	93	39	328	7	10	18	16	51	0	0	0	5	5
Woodbury	8	12	12	6	38	8	11	7	6	32	0	1	5	0	6	0	0	0	4	4
Worth	.	4	3	4	.	.	4	3	3	.	.	0	0	1	.	.	0	1	1	.
Wright	8	20	15	9	52	6	16	12	8	42	2	4	3	1	10	1	0	0	2	3
State of Iowa	2304	3075	2636	2166	10181	1971	2507	2181	1880	8539	333	568	455	277	1633	51	83	69	84	287

Marriages and Dissolutions in Iowa's Counties:

1980-1993

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

Marriages

Iowa recorded 22,822 marriages in 1993, 307 fewer than in 1992 (Table 1, Figure 1). This was the tenth time since 1980 that there had been a decrease in marriages over the previous year; declines have occurred each year since 1989. The largest year-to-year drop of the period was between 1984 and 1985 (-1,788).

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

In 1993, Polk's 3,040 marriages constituted the highest number in any county. Black Hawk, Linn, and Scott also had more than 1,000 marriages that year. Five counties (Chickasaw, Dubuque, Johnson, Pottawattamie, Woodbury) recorded 500 to 999 marriages, 14 were between 200 and 499, and 36 counties had 100 to 199 marriages. Forty counties had fewer than 100 marriages in 1993; the lowest numbers were in Adair (34) and Adams (31).

Fifty-seven of the counties followed the state trend with fewer marriages in 1993 than in 1992. The greatest decline occurred in Dubuque (-69), the only county down more than 50 marriages. Four counties (Black Hawk, Chickasaw, Dallas, Muscatine) increased by at least 50 marriages between 1992 and 1993.

Nearly 4,000 fewer marriages occurred in Iowa in 1993 than in 1983. Ninety-four counties mirrored this trend. Six (Black Hawk, Chickasaw, Clinton, Johnson, Pottawattamie, Webster) had at least 100 fewer marriages in 1993 than in 1983. Increases occurred in five counties (Benton, Ida, Linn, Madison, Sioux), with Linn (+35) gaining the most marriages in the 10-year period.

Dissolutions

There were 10,700 dissolutions in Iowa in 1993, 224 fewer than in 1992. Between 1980 and 1993 there were six times when dissolutions increased compared with the previous year and seven times when dissolutions decreased (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.

Table 1. Marriages in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	34	43	49	63	49	59	51	58	62	82	54	60	74	57
Adams	31	20	24	24	35	41	38	40	43	38	34	45	43	36
Allamakee	121	123	110	134	133	118	115	121	133	150	144	139	150	149
Appanoose	129	131	121	157	113	112	104	115	125	112	130	106	119	129
Audubon	49	47	45	48	48	65	54	42	49	71	82	74	70	64
Benton	174	159	150	156	157	153	168	178	160	169	163	158	189	190
Black Hawk	1007	865	935	1074	1097	958	948	913	1044	1066	1130	1115	1144	1256
Boone	179	196	208	179	202	224	192	194	216	209	205	209	224	235
Bremer	182	183	162	169	203	186	196	167	175	209	206	198	191	224
Buchanan	162	159	178	174	174	165	141	147	183	170	220	206	213	216
Buena Vista	150	167	149	164	165	164	155	163	180	171	188	189	173	207
Butler	87	98	111	97	81	101	113	103	107	123	127	124	134	122
Calhoun	65	72	70	80	71	69	77	84	76	110	93	99	119	117
Carroll	155	155	147	189	191	177	187	167	163	206	232	247	214	240
Cass	109	122	119	150	141	141	117	126	145	181	162	181	187	160
Cedar	129	153	117	139	121	118	122	117	103	134	140	148	176	156
Cerro Gordo	347	375	384	406	371	346	327	357	375	361	388	448	395	411
Cherokee	94	94	125	94	107	112	102	105	105	124	139	152	164	136
Chickasaw	690	630	721	806	751	800	741	775	791	897	963	915	910	850
Clarke	55	53	67	59	73	53	54	48	58	64	94	66	56	72
Clay	110	127	130	162	123	159	119	104	132	143	149	149	178	144
Clayton	136	155	141	149	162	160	144	151	154	166	164	182	186	204
Clinton	400	437	464	447	591	677	454	454	554	571	540	624	553	560
Crawford	132	128	142	131	119	141	134	144	135	152	176	142	149	163
Dallas	230	175	219	229	228	208	213	216	227	248	252	206	250	230
Davis	66	72	58	57	69	53	61	73	57	72	68	85	74	68
Decatur	59	81	60	67	66	70	80	72	80	75	74	71	75	81
Delaware	118	127	116	137	149	159	162	146	140	162	162	177	141	191
Des Moines	380	427	460	487	572	532	425	415	402	491	449	516	477	457
Dickinson	141	149	158	130	147	133	136	111	135	150	153	133	144	122
Dubuque	796	865	875	888	938	968	887	864	894	920	886	966	917	949
Emmet	78	81	93	107	87	86	109	100	96	115	95	116	107	104
Fayette	156	169	160	193	185	175	157	177	185	182	181	225	219	201
Floyd	124	124	133	134	123	128	120	137	155	160	145	152	176	153
Franklin	75	70	89	73	73	78	80	60	87	100	89	92	116	79
Fremont	71	72	54	75	73	67	71	66	52	80	81	65	71	80
Greene	73	66	93	107	104	84	74	84	73	86	99	99	99	105
Grundy	80	60	72	76	91	83	62	82	92	101	94	102	90	91
Guthrie	82	85	82	106	87	98	85	92	75	92	92	98	97	112
Hamilton	123	143	124	129	148	126	132	127	125	146	158	181	146	170
Hancock	84	93	93	95	82	80	77	101	101	100	101	103	112	101
Hardin	153	140	137	136	153	150	135	174	172	207	174	172	195	195
Harrison	105	114	130	124	134	117	111	122	136	145	145	137	131	147
Henry	152	171	164	156	171	183	168	158	167	168	166	158	171	164
Howard	61	70	83	75	88	94	68	81	92	106	92	98	82	104
Humboldt	82	64	90	89	67	97	83	75	82	109	98	109	100	107
Ida	65	51	46	63	61	53	63	45	59	66	61	67	65	69
Iowa	90	123	110	129	106	113	85	87	102	118	134	116	145	138
Jackson	157	192	148	184	195	188	198	181	176	177	200	214	218	238
Jasper	264	264	260	289	271	289	295	273	298	296	290	319	307	344

Table 1. Marriages in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	140	171	150	158	155	159	142	139	144	170	184	198	156	144
Johnson	637	653	685	770	774	721	668	677	697	734	746	727	706	731
Jones	145	144	145	155	146	157	137	163	159	138	169	162	187	169
Keokuk	72	64	84	101	77	76	91	66	99	111	118	90	107	122
Kossuth	117	131	119	154	145	143	138	134	152	160	188	212	179	182
Lee	368	359	365	396	487	437	373	372	412	446	423	407	399	442
Linn	1471	1516	1493	1525	1519	1505	1386	1365	1453	1507	1436	1532	1588	1562
Louisa	61	82	76	69	92	96	85	93	91	101	89	97	107	74
Lucas	46	66	64	70	64	83	59	77	72	89	98	97	68	95
Lyon	86	87	71	77	78	78	81	91	90	101	102	120	117	116
Madison	126	97	82	97	101	91	87	79	66	104	108	103	96	100
Mahaska	175	202	195	189	201	194	183	167	179	202	212	214	213	201
Marion	252	239	251	326	258	242	249	259	246	272	266	279	283	296
Marshall	330	353	339	341	346	349	298	302	339	365	360	402	371	378
Mills	96	80	92	105	98	98	69	81	82	107	134	135	115	101
Mitchell	77	68	75	93	80	77	61	80	93	111	103	99	127	101
Monona	82	72	86	83	85	82	72	75	72	87	94	116	89	127
Monroe	72	63	68	73	61	65	61	67	77	76	81	77	85	83
Montgomery	104	100	113	99	97	106	90	84	103	101	141	111	117	105
Muscatine	410	355	402	421	429	373	340	415	383	375	412	444	454	398
O'Brien	107	109	97	120	124	113	88	107	119	112	122	139	149	139
Osceola	51	46	55	58	66	57	53	42	47	51	59	73	64	58
Page	146	130	111	144	107	136	136	136	137	163	148	170	136	154
Palo Alto	61	70	94	87	73	78	87	92	97	96	105	108	115	131
Plymouth	155	165	188	169	170	179	162	154	172	183	233	239	228	197
Pocahontas	54	54	56	57	70	76	82	51	84	95	96	93	79	94
Polk	3040	3013	3001	3217	3187	3108	2966	2928	2987	3130	3133	3114	3150	3118
Pottawattamie	731	772	819	938	894	877	877	901	961	1085	1192	1052	998	978
Poweshiek	129	149	143	154	143	121	111	137	141	152	141	146	148	169
Ringgold	43	30	39	39	36	44	29	37	44	58	51	57	49	60
Sac	77	71	93	94	101	82	89	76	110	109	97	96	117	118
Scott	1385	1391	1484	1354	1726	1910	1353	1427	1505	1483	1484	1483	1523	1614
Shelby	125	87	111	120	125	100	118	105	115	136	146	157	153	146
Sioux	231	203	222	221	208	223	225	225	246	245	214	250	247	277
Story	496	517	468	490	513	511	491	475	527	530	538	573	566	589
Tama	112	127	122	143	144	125	121	125	131	134	174	138	142	139
Taylor	58	52	50	55	50	50	47	48	43	67	70	62	71	60
Union	93	115	123	113	121	98	99	108	101	101	112	120	121	164
Van Buren	47	57	53	56	57	53	55	46	55	49	62	52	73	87
Wapello	334	351	363	365	317	353	309	353	369	392	365	424	409	396
Warren	291	307	292	333	304	273	260	278	288	284	315	316	311	329
Washington	157	153	153	137	140	146	152	145	135	176	187	165	181	162
Wayne	55	47	47	51	56	57	63	50	43	75	60	64	57	73
Webster	313	323	330	354	345	372	338	371	365	411	417	442	405	407
Winnebago	73	94	99	87	74	90	95	90	100	114	116	116	106	113
Winneshiek	149	158	130	180	158	147	171	160	151	184	170	188	204	185
Woodbury	716	761	714	760	752	738	674	705	802	844	812	758	843	883
Worth	45	51	48	66	63	48	63	62	54	74	75	71	69	57
Wright	89	84	97	81	104	82	88	99	112	125	149	148	139	152
State of Iowa	22822	23129	23533	24931	25267	25090	23062	23311	24578	26366	26769	27189	27153	27474

Table 2. Dissolutions in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	26	30	21	30	24	22	26	26	27	39	26	24	20	34
Adams	20	14	18	18	11	15	17	23	17	9	27	11	20	11
Allamakee	52	44	31	26	38	24	30	32	43	33	32	25	43	29
Appanoose	53	67	64	54	66	62	34	56	51	55	66	82	50	59
Audubon	18	20	15	23	10	22	15	19	14	21	17	20	29	22
Benton	66	64	80	68	81	79	65	53	58	45	45	50	63	39
Black Hawk	490	553	496	493	523	514	476	496	512	564	560	539	670	671
Boone	110	97	123	96	104	106	120	102	113	95	104	97	114	133
Bremer	84	73	66	70	54	57	56	59	65	76	85	74	79	70
Buchanan	63	51	64	67	56	69	54	53	59	61	41	62	72	64
Buena Vista	49	57	75	75	63	57	56	68	63	54	50	58	72	59
Butler	38	36	40	45	33	42	31	38	42	42	44	37	30	35
Calhoun	28	31	27	39	27	23	27	39	40	32	35	33	37	39
Carroll	62	74	66	48	78	48	56	53	52	52	47	47	53	65
Cass	61	57	50	56	61	60	60	50	60	67	57	67	55	52
Cedar	61	49	64	47	69	53	65	55	55	39	65	67	64	67
Cerro Gordo	198	159	179	166	186	158	186	196	164	191	183	154	228	161
Cherokee	45	36	45	48	50	51	55	36	45	63	54	40	45	46
Chickasaw	37	40	43	28	29	42	37	30	34	32	34	36	38	38
Clarke	38	39	29	44	39	40	51	22	25	30	37	21	60	38
Clay	82	68	75	87	72	62	59	82	70	63	85	76	86	83
Clayton	43	53	41	41	44	44	33	45	49	43	54	49	65	59
Clinton	155	196	204	191	152	201	175	179	241	218	240	258	256	245
Crawford	65	63	67	73	77	62	62	75	53	66	57	64	60	64
Dallas	119	112	126	116	111	128	147	104	123	118	107	115	116	121
Davis	30	27	32	37	26	31	21	26	36	28	38	28	39	32
Decatur	23	31	36	29	32	28	23	31	24	29	33	36	44	37
Delaware	41	54	52	41	48	49	28	26	40	34	33	38	56	35
Des Moines	157	167	184	188	162	194	167	199	170	182	134	182	171	178
Dickinson	57	58	72	63	70	53	52	60	53	50	42	46	67	78
Dubuque	307	275	302	315	274	240	265	251	258	261	231	260	268	293
Emmet	42	26	26	37	38	33	34	32	38	44	27	37	43	57
Fayette	61	74	55	82	64	64	52	54	44	67	56	40	60	64
Floyd	48	41	52	57	57	56	55	51	56	56	60	76	59	82
Franklin	37	39	36	32	32	34	30	28	38	37	35	35	48	47
Fremont	30	40	40	33	31	30	25	32	36	26	27	41	48	29
Greene	46	31	41	38	40	40	52	39	30	22	32	33	27	33
Grundy	35	39	22	27	27	21	31	21	33	30	28	18	36	35
Guthrie	58	46	41	42	40	44	41	38	33	34	40	41	39	38
Hamilton	76	87	55	66	60	56	61	58	50	55	65	57	57	56
Hancock	31	24	40	26	21	33	33	32	29	32	33	36	43	35
Hardin	71	60	74	69	68	73	46	52	67	58	62	58	71	62
Harrison	49	58	46	61	57	54	58	57	63	56	62	75	61	58
Henry	82	96	99	86	73	90	66	52	56	64	59	55	65	61
Howard	16	29	33	27	19	30	23	24	23	22	23	22	21	16
Humboldt	45	32	37	29	39	31	34	24	28	39	40	31	32	38
Ida	42	29	36	17	24	27	24	27	20	17	21	30	23	24
Iowa	43	46	38	49	52	37	20	40	29	45	31	42	34	39
Jackson	63	76	63	53	50	62	68	38	53	48	31	45	57	41
Jasper	124	128	145	156	158	131	165	144	123	117	123	132	167	154

Table 2. Dissolutions in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	96	112	94	85	90	69	76	90	98	82	84	77	71	64
Johnson	238	283	253	237	216	216	286	224	270	289	313	319	305	331
Jones	54	67	57	69	55	54	61	50	59	65	45	51	73	56
Keokuk	26	26	25	12	31	28	28	20	21	21	21	29	39	24
Kossuth	48	43	44	40	38	44	40	44	37	49	34	44	56	49
Lee	157	168	143	203	151	191	179	155	174	186	174	183	216	218
Linn	648	655	647	606	566	608	548	531	584	576	540	541	559	579
Louisa	54	52	44	43	54	51	39	48	40	37	37	40	44	59
Lucas	46	46	47	39	40	40	38	31	51	38	35	48	45	48
Lyon	21	16	19	11	19	26	15	19	24	13	20	13	18	18
Madison	49	47	54	62	50	42	56	32	35	27	53	41	53	45
Mahaska	116	118	132	125	96	115	81	72	108	107	99	89	103	100
Marion	139	107	106	127	122	114	137	111	109	122	98	106	113	112
Marshall	194	221	182	195	174	201	166	163	160	152	190	185	193	219
Mills	58	53	47	54	48	50	41	60	31	59	54	40	65	62
Mitchell	27	25	29	27	20	23	25	19	23	24	28	17	22	21
Monona	33	29	26	25	32	44	27	34	29	26	37	20	45	39
Monroe	31	32	37	38	28	29	26	19	23	27	24	30	26	26
Montgomery	64	58	51	44	68	72	72	64	68	62	42	39	77	69
Muscatine	220	255	187	212	219	244	279	225	212	225	229	238	227	227
O'Brien	45	39	40	41	35	45	44	28	37	32	28	29	40	28
Osceola	19	14	17	16	18	13	11	16	11	12	17	16	19	8
Page	70	90	89	70	75	60	67	75	75	63	99	69	109	73
Palo Alto	28	20	22	22	29	21	18	28	29	34	31	34	27	35
Plymouth	64	74	56	65	47	72	51	53	63	63	56	42	54	55
Pocahontas	20	29	21	30	27	31	26	18	18	27	32	29	22	33
Polk	1608	1709	1810	1642	1665	1780	1705	1707	1716	1578	1571	1703	1888	1919
Pottawattamie	446	499	466	465	465	468	439	488	446	434	429	465	553	513
Poweshiek	70	77	69	71	82	60	60	75	58	58	82	55	55	48
Ringgold	14	17	18	21	21	16	16	17	10	28	28	20	30	17
Sac	39	30	37	32	29	28	32	37	29	30	31	38	33	35
Scott	679	677	649	725	664	735	777	743	747	736	804	873	962	984
Shelby	35	44	39	37	41	40	36	33	31	33	37	31	53	39
Sioux	57	48	53	48	41	55	33	46	42	46	52	40	31	48
Story	172	124	212	208	211	212	203	195	165	207	226	253	258	241
Tama	51	54	49	58	65	51	53	56	45	56	51	58	58	46
Taylor	27	17	20	12	15	22	25	29	30	25	30	19	28	19
Union	52	54	51	74	63	46	46	63	45	60	65	77	64	72
Van Buren	28	31	36	40	26	30	32	32	27	22	23	25	30	17
Wapello	158	148	197	204	157	177	169	166	209	224	206	210	228	215
Warren	144	133	135	149	128	130	155	122	133	120	121	140	146	138
Washington	64	68	79	86	60	70	61	70	76	66	68	66	70	43
Wayne	24	28	22	30	32	17	25	19	16	31	17	33	28	21
Webster	203	163	173	177	184	174	197	167	148	168	174	169	189	188
Winnebago	43	46	34	35	31	29	27	39	36	49	21	34	35	48
Winneshiek	41	41	43	50	45	67	41	65	68	48	49	46	48	51
Woodbury	428	467	443	447	449	451	409	429	474	431	490	475	526	540
Worth	21	30	21	23	20	22	27	16	23	19	18	19	26	22
Wright	54	44	48	72	45	43	55	54	57	61	57	51	50	66
State of Iowa	10700	10924	10939	10913	10507	10808	10527	10324	10525	10509	10588	10869	12071	11854

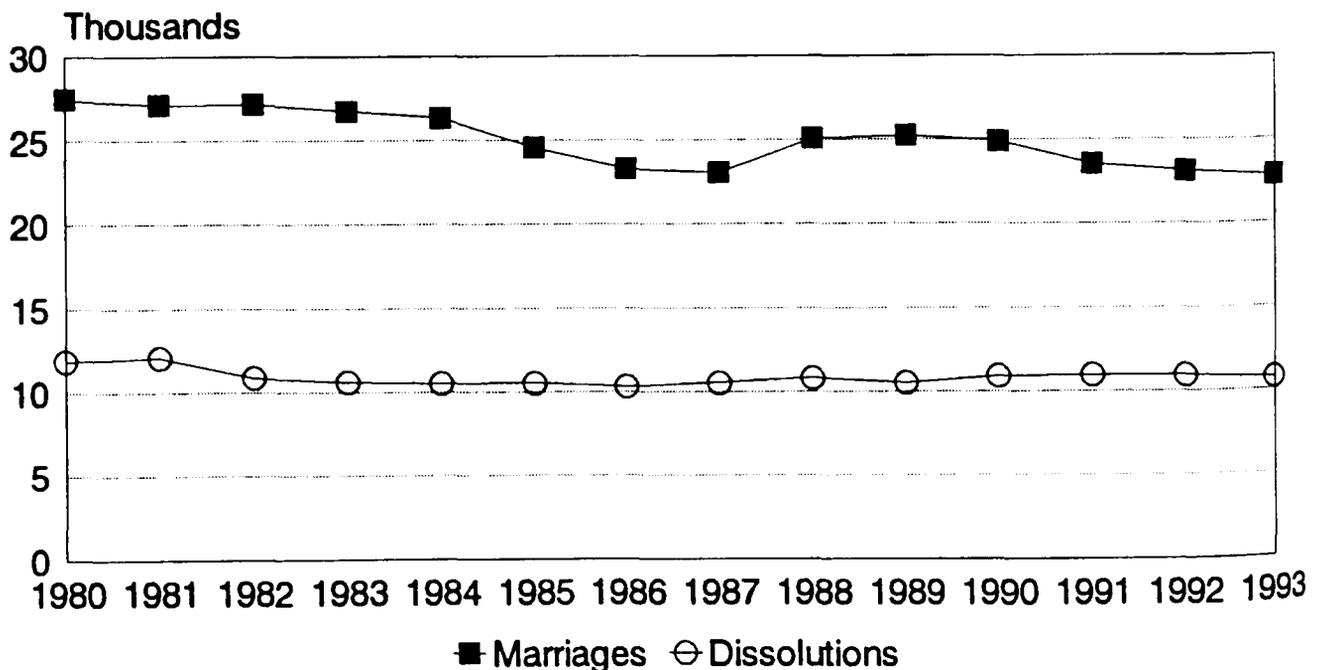
Dissolutions were highest in 1993 in Polk, the only county with more than 1,000. Other counties with at least 400 dissolutions that year were Black Hawk, Linn, Pottawattamie, Scott, and Woodbury. Seventeen counties had between 100 and 399 dissolutions, 30 recorded 50 to 99, and 46 counties had fewer than 50. Audubon, Howard, Osceola, and Ringgold were the only counties with fewer than 20 dissolutions.

Between 1992 and 1993, the number of dissolutions remained the same in three counties, decreased in 51, and increased in 45. Increases were 10 or more in 20 counties, although a gain greater than 40 occurred only in Story (+48). Among the counties with fewer dissolutions in 1993 than in 1992, 42 declined by less than 20. The largest drops occurred in Black Hawk, Polk, and Pottawattamie, the only counties where the number of dissolutions declined by at least 50.

Across the state, there were 112 more dissolutions in 1993 than in 1983. More than half (58) the counties followed that trend. Thirty-nine counties had fewer dissolutions at the end of the period than at the beginning, while two had the same number both years. Only Scott had at least 100 fewer dissolutions in 1993 than in 1983. Among counties that had more dissolutions at the end than the beginning of the period, most showed relatively low gains. Only Linn had at least 100 more dissolutions in 1993 than in 1983.

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, 1980-1993.



Per Capita Income in Iowa's Counties: 1970-1992

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Per capita income, a measure of average income per person, was \$18,275 for Iowa in 1992. It increased for Iowa every year from 1970 through 1992, although the gains were small from 1981 through 1983 (Table 1, Figure 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 Census Bureau 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 (Table 1, Figure 2). In 1992, Polk had the highest (\$22,315) and Decatur the lowest (\$13,225) per capita income, a difference of \$9,090. Starting with 1980, there was a difference of at least \$5,000 between the lowest and the highest county every year. This gap has been increasing; it has been at least \$7,500 each year since 1988. Polk has had the highest per capita income since 1976, but Mills and Linn were consistently among the top five in the seven most recent years. Decatur has had the lowest per capita income since 1990; it has ranked among the lowest five every year in the 1970-1992 period. Other counties among the lowest in recent years were Appanoose, Davis, Ringgold, Taylor, and Van Buren.

Between 1991 and 1992, per capita income increased in all of Iowa's 99 counties. Per capita income also gained in all counties from 1971 to 1972, 1972 to 1973, 1977 to 1978, 1980 to 1981, and 1988 to 1989. A majority of Iowa counties had decreases in per capita income from 1973 to 1974 (56). At least 40 had declines in three comparisons (1981-1982, 1982-1983, 1987-1988). These year-to-year variations reflect changes in the economy in Iowa and its counties.

From 1972 to 1992, Iowa's per capita income increased by \$13,895 (Table 3). Increases were under \$12,000 in 16 counties, although only Decatur reported a gain below \$10,000. Fifteen counties had increases in per capita income of at least \$14,000, with Polk (+\$17,206) the only one exceeding \$16,000. During the 1972-1992 period, 22 counties increased every year, but the other 77 declined one or more times. Some counties decreased in seven (Greene, Ida, Palo Alto, Pocahontas) or eight (Adair) of the 20 comparisons of one year with the next.

In percentage terms, Iowa's per capita income increased 317 percent between 1972 and 1992. Gains in Iowa's counties ranged from 248 percent in Greene to 417 percent in Winneshiek. Three increased by at least 350 percent, 54 by 300-349 percent, and 42 by less than 300 percent.

Per Capita Income Adjusted for Inflation

Rising prices of goods and services between 1972 and 1992 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 1992 dollars based on the consumer price index for each year. Per

Table 1. Per Capita Income in Iowa Counties, 1970-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Adair	16453	14940	15140	14411	12301	12391	12286	10695	9730	8381	8954	8995	7136	7568	7766	5933	6245	5391	4871	5422	4034	3501	3351
Adams	15993	14533	14426	13570	11485	12489	11976	10353	9225	8912	9284	9016	7133	7349	7208	5760	6513	5389	4538	5528	3761	3382	3261
Allamakee	15273	13849	14426	13249	11697	12070	11087	10149	9984	7836	8324	8253	6869	6951	6835	6179	6219	5189	4528	4506	3478	3192	3144
Appanoose	14788	13868	13356	12531	11533	11123	10462	9656	9315	8947	8837	8492	7769	7400	6581	5987	5843	5221	4718	4390	3536	3222	2976
Audubon	17925	16559	15780	15224	12828	13437	11660	11226	9978	8031	8727	9463	7358	7327	7691	5810	5696	5563	5002	5431	4023	3546	3526
Benton	16615	15429	15390	14708	12958	13352	12942	11709	11589	10279	10143	10256	8746	8624	8379	6805	6264	6095	5429	5419	4339	3911	3799
Black Hawk	17345	16252	15909	14802	13568	12803	12052	11857	11667	11347	11219	11150	10177	9357	8296	7592	6544	6071	5472	4899	4289	3808	3600
Boone	18929	17468	16879	16405	14755	14494	13590	12627	11944	11451	11037	10877	9768	9075	8514	6547	6513	6413	5776	5416	4239	3792	3700
Bremer	17086	15780	15440	14233	12823	12503	11791	11617	11262	10158	10037	10072	8880	8388	7794	6966	6032	5629	5217	5044	4149	3899	3597
Buchanan	16193	15199	14958	13679	12037	12364	10915	10474	10232	8486	8862	9034	7765	7626	7210	6197	5593	5582	5027	4684	3703	3254	3165
Buena Vista	17122	15966	15623	15111	13728	13279	13123	12529	11290	10361	10360	10825	9266	8862	8497	7366	5747	6307	5857	5906	4535	4183	4121
Butler	16377	15029	14920	12942	12113	12634	11821	11700	11166	9357	9272	9495	8371	8062	7967	6493	5795	5727	4957	5199	3886	3455	3307
Calhoun	17647	15336	15244	15196	13891	13368	13000	12249	11375	10771	10458	11212	9696	9204	8320	6424	5438	6015	5831	6043	4726	3731	3820
Carroll	18611	17234	16521	15674	14752	14529	13399	12846	12424	11311	11345	11678	9858	9364	8714	6686	5767	5805	5305	5572	4315	3528	3637
Cass	17426	16109	15682	15234	13365	13406	12711	12147	11542	10593	10460	10609	8650	8663	8199	6921	6646	5736	5302	5670	4511	3880	3761
Cedar	18041	16957	16910	15891	14040	13965	12693	12423	12423	10407	10442	10677	8816	8960	8709	7030	6527	6796	5546	5603	4338	3863	3865
Cerro Gordo	17898	17041	16734	15192	14547	14156	13333	12788	12524	11662	11046	10864	9549	8865	8269	7332	6638	6178	5522	5129	4521	4094	3934
Cherokee	17313	16626	16205	15006	14096	13347	12505	11690	11022	9644	9846	10071	8344	8059	7905	6539	5511	6144	5743	5907	4268	3692	3568
Chickasaw	17056	15833	15599	14433	13035	13207	12008	11426	11024	9268	9237	9652	8267	8235	7895	6887	5643	5516	5176	5331	4167	3401	3328
Clarke	14386	13482	13696	13060	11729	11805	11129	10296	9190	8873	8972	8548	7699	6960	6690	5992	5502	5016	4515	4798	3855	3574	3451
Clay	17536	16281	16537	15626	14350	13578	12893	11864	10798	10078	10159	10466	9504	9004	8472	7927	6707	6406	5666	5773	4420	3987	3796
Clayton	16128	14537	14940	13663	11829	12404	11512	10358	10330	7424	8082	8320	6596	6936	6790	5653	5249	4929	4452	4515	3610	3231	3244
Clinton	17409	16254	15806	14830	13547	13118	12371	11974	11776	10580	10436	10627	9450	8756	7909	6863	6156	5761	5180	4872	4300	3942	3921
Crawford	17032	15748	15094	13879	13052	12570	12021	10889	10614	9167	9591	9967	7483	7442	7402	5804	5008	5283	4787	5039	3954	3430	3456
Dallas	19491	18336	17668	16858	15342	14928	14017	13150	12873	12192	11738	11407	9631	9262	8285	7246	6891	6528	6071	5824	4843	4289	4163
Davis	14401	13396	13584	11771	10639	10588	10152	9539	9266	8376	8583	8006	7118	6834	6245	5149	5213	4901	4374	4785	4045	3491	3341
Decatur	13225	12434	12173	11703	9948	10293	9642	9084	8131	7154	7377	6917	5865	5741	5942	4673	4730	4274	3995	4108	3480	3133	2998
Delaware	16376	15407	16026	14169	12520	13215	11890	10697	10531	7871	8287	8726	6818	7421	7398	5947	5339	5700	4760	4536	3645	3180	3069
Des Moines	17846	16977	16641	15438	14472	14050	13511	12952	12516	11486	11055	10824	9844	9317	8354	7528	6822	6272	5744	5322	4725	4327	4156
Dickinson	19610	18171	18251	17117	15297	14629	13741	12708	12784	11228	10816	10638	9274	8948	8610	7423	6376	6219	5766	6041	4568	4004	3887
Dubuque	18172	16953	16509	15326	14264	13781	12754	12198	11696	10479	10093	9978	9014	8562	7869	6993	6071	5593	5173	4653	4130	3803	3603
Emmet	16241	14737	14943	13854	12701	12691	12277	11670	10797	9988	9917	10703	9788	8339	8173	7060	5998	6080	5799	5734	4277	4063	3929
Fayette	15490	14467	14458	13285	11517	11987	10892	10380	10327	8669	8506	8638	7359	7656	7168	6007	5369	5084	4727	4562	3608	3244	3226
Floyd	17077	16174	15965	14160	13097	13156	12371	11558	11488	10003	9942	9685	8732	8400	7855	7156	6177	5921	5445	5331	3819	3293	3505
Franklin	17755	15313	15859	14724	13386	13754	13487	11990	11418	9715	9517	10127	8385	8112	8273	6470	6186	6956	6226	6020	4295	3666	3916
Fremont	16856	15277	14728	14166	13563	12722	13587	12654	11017	11684	10542	10697	9414	8690	8275	6402	6873	5880	5201	6350	4663	4242	4295

Table 1. Per Capita Income in Iowa Counties, 1970-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Greene	18094	15812	15127	15344	13202	13798	13306	11941	11145	11227	10939	11390	9857	9488	9205	5871	6560	6918	6537	7003	5203	4199	4340
Grundy	19164	17673	17120	15295	14134	14527	13494	12717	12588	11535	11530	11933	10173	9784	9077	7831	6931	6957	6588	6209	4582	3940	3880
Guthrie	17364	16117	15950	15144	13034	13250	12146	11631	10855	9392	9786	9731	7757	7746	7461	5765	5664	5325	4890	5084	3815	3385	3336
Hamilton	19022	17831	16832	17221	14035	14660	14218	13503	12522	12081	11699	11934	10095	9566	8949	7306	6701	6963	6187	6523	5051	4398	4048
Hancock	16360	14320	15204	13702	13149	12906	13155	12584	11991	10916	10634	10883	8756	8566	8410	7333	6418	6808	6099	5995	4431	3715	3784
Hardin	17877	16286	16104	14655	13282	13912	13499	12612	11944	11024	10649	10882	9459	8855	8453	6886	6563	6310	5863	5827	4394	3900	4122
Harrison	16317	14479	13989	13006	12234	11952	11728	11777	10645	9536	9646	9693	7680	7707	7400	5800	5307	5459	4595	5122	3915	3557	3409
Henry	16929	15882	15512	14234	13439	12942	12425	12040	11330	10219	10118	9953	8739	8468	7922	7008	6650	6217	5287	5106	4244	3825	3661
Howard	15802	14806	14929	13802	11813	12680	12043	10830	11153	8887	8763	9048	7481	7759	7397	6440	5304	4923	4422	5134	3689	3100	2935
Humboldt	17710	15303	15688	15838	13518	13335	12601	11622	11475	10452	10758	10913	8819	8592	8733	7044	6277	6900	6239	5959	4019	3614	3662
Ida	17658	15884	15963	15261	14080	13656	12496	12075	11543	8544	9338	9779	7114	7876	8302	6264	4859	5719	5650	5920	4514	3972	3947
Iowa	19222	17247	16562	15459	13749	14348	12801	12675	12652	10060	9832	9984	8354	8361	8188	6779	6284	5752	5002	5243	4394	4100	4141
Jackson	16137	14775	14672	13657	12294	12276	11122	10700	10627	8803	8991	9017	7697	7455	7246	6155	5716	5225	4699	4790	3864	3511	3391
Jasper	18255	17143	16910	15983	14814	14855	13990	13399	13052	11829	11227	11127	9601	9024	8459	7085	6731	6184	5706	5561	4760	4018	4002
Jefferson	16086	15096	15252	14239	12980	13048	12447	11311	10823	9026	8679	9016	7721	7721	7076	6208	6009	5663	5535	4868	3939	3614	3575
Johnson	18824	17940	17145	16218	14721	14037	13548	12792	12312	11507	10967	10539	9621	8749	8093	7092	6217	5708	4963	4585	4053	3732	3481
Jones	14495	13503	13886	12984	11538	11595	10685	10322	10183	8401	8501	8764	7424	7457	7290	6009	5455	5418	4965	4779	3864	3581	3527
Keokuk	16456	15408	15355	14578	12480	14065	12602	12027	11610	9932	9897	9435	7921	7936	7907	6505	5948	5998	4971	5554	4295	3767	3623
Kossuth	17359	14414	15602	15437	14018	13630	13440	11919	11378	10439	9927	10230	8596	7982	8178	6816	5873	6769	6269	6370	4311	3623	3541
Lee	16986	15966	15371	14416	13374	12885	12711	12389	11883	10896	10586	10387	9194	8708	7974	6878	6375	5827	5250	4873	4160	3805	3634
Linn	20443	19396	18870	17924	16566	15661	14798	14025	13249	12519	12136	11649	10661	9956	8789	7831	7093	6397	5851	5296	4687	4386	4210
Louisa	17361	15430	15533	14302	12955	12994	12418	11556	11359	9554	10471	10199	8782	7668	7107	6339	5980	6041	5175	5256	4084	3795	3699
Lucas	16318	15240	15182	14489	13396	12818	12189	11218	10595	9945	9859	9543	8561	7797	7552	6107	6243	5453	4781	4931	4194	3745	3667
Lyon	15527	14629	14151	13801	11770	12264	11786	11414	10941	9196	9795	9463	7284	8083	7623	5974	4711	5142	4826	5989	4175	3598	3470
Madison	17110	15958	15841	14977	13465	13165	12571	11876	11128	10048	10171	9567	8490	7864	7692	6539	6584	5890	5034	5440	4270	3970	3831
Mahaska	16564	15429	15221	14168	12855	13253	12650	11901	11114	9978	10145	10007	8477	8310	8005	6625	6199	5812	5236	5174	4269	3652	3450
Marion	17910	16931	16608	15636	14721	14583	13557	12865	12311	11691	11045	10648	9246	8888	8146	6734	6670	6361	5716	5339	4471	3966	3794
Marshall	18814	17894	17280	16398	14516	14388	13653	13204	12697	12007	11568	11373	10273	9423	8739	7535	7368	6751	6147	5779	4857	4632	4415
Mills	20224	19254	18603	17320	16625	15802	14729	13315	11931	10775	10599	9997	8805	8207	8287	6866	6834	6394	5558	5953	4536	4197	4182
Mitchell	18510	17342	17562	16026	13899	14992	14023	12731	12400	10046	9718	9505	7738	7769	7832	6740	5377	5763	4875	5624	4140	3382	3407
Monona	16583	14563	14746	14095	12379	11962	11912	11293	10389	9205	10414	10626	7384	7204	7710	6308	4869	6042	5229	6285	4352	3690	3744
Monroe	16694	15863	15257	13824	12935	12339	11102	10673	10200	9172	9210	8632	7971	7127	6750	5883	5777	5155	4571	4641	3853	3387	3155
Montgomery	17623	16428	15770	15237	13576	13250	12865	11835	11310	10609	10806	10567	9178	9534	8308	6968	6727	5918	5508	5702	4280	3961	3921
Muscatine	19292	18006	17710	16429	15413	14792	14151	13800	13323	12173	11840	11468	10097	9111	8372	7460	6973	6359	5547	5148	4412	4138	4035
O'Brien	17485	16783	16448	15541	14770	14091	13454	12570	11798	10587	10591	10305	8670	8548	8608	7213	6273	6398	5886	6007	4442	3711	3444
Osceola	16189	15356	14937	14074	12909	12376	11519	10462	10124	9087	9040	9838	8375	8225	8468	7090	5590	6388	5317	6732	4652	3863	3687

Table 1. Per Capita Income in Iowa Counties, 1970-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	
Page	18093	16478	15996	15189	13331	13322	13099	11718	10581	10222	9873	9584	8364	8381	7634	6652	6524	5819	5040	5379	4253	3956	3700	
Palo Alto	16554	14531	15190	14033	12897	13178	12587	11983	10266	9436	9805	10288	9176	7907	8158	6749	5619	6075	5625	6108	4154	3749	3681	
Plymouth	18025	17097	16465	15264	13110	13877	12584	12297	11371	9287	9678	9503	7329	7935	8022	6373	5499	5711	5119	5675	4186	3514	3353	
Pocahontas	17617	15410	15173	15275	13373	13072	13602	13012	10691	9758	10727	11386	8975	8130	8716	7131	5391	6496	6270	6699	4320	3787	3721	
Polk	22315	21101	20324	19101	17823	16605	15845	15219	14613	13792	13181	12464	11464	10637	9399	8444	7503	6808	6183	5622	5109	4682	4413	
Pottawattamie	16584	15747	15109	14151	13586	13117	12767	12347	11810	10967	10507	10159	8998	8330	7889	6784	6202	5479	5142	4884	4162	3820	3719	
Poweshiek	17720	16637	16354	15538	14137	14318	13417	12102	12023	10547	10439	10215	8650	8553	8165	6790	6553	6047	5529	5575	4465	3940	3756	
Ringgold	15004	13487	13471	13362	11142	11865	11135	9359	8266	8159	8875	8187	7186	6767	7075	5480	6075	5384	4513	5628	4092	3501	3449	
Sac	17174	15407	15212	14502	13335	12946	13208	11647	11308	9851	10314	11166	8555	9166	8735	6813	5781	6287	6139	6254	4551	3753	3797	
Scott	19184	18364	17988	16625	15419	14729	14069	13657	13182	12215	11939	11742	10697	9793	8715	7805	7009	6424	5983	5432	4695	4307	4108	
Shelby	16988	16017	15599	14717	13243	13102	11967	12082	11140	9295	9742	9993	7668	8454	8405	5990	5551	5379	5047	5482	4173	3508	3544	
Sioux	16219	15292	14566	13819	12331	12526	11892	11860	11377	9347	8949	9575	7956	8148	8046	6241	5597	5182	5190	5368	4207	3548	3513	
Story	17191	16208	15430	14698	13438	13134	12360	11798	11115	10314	9911	9419	8592	7902	7206	6148	5645	5160	4694	4481	3835	3534	3336	
Tama	16482	15501	15573	14454	13495	13664	12815	12126	11530	10023	10445	10559	8650	7979	7838	6834	6438	6294	5413	5517	4248	3787	3656	
Taylor	14006	12862	12372	11584	10238	11264	10999	10176	8568	8286	8935	8312	7127	7335	6783	5868	5941	5154	4264	4915	3690	3085	3165	
Union	16060	14745	14501	13643	12603	12128	11751	11251	10465	9981	10039	9211	8249	7566	6904	6005	5915	5230	4649	4859	3936	3468	3268	
Van Buren	14125	12782	12734	11767	10544	10914	10229	9649	8961	7931	8147	7937	6822	6957	6805	5847	5612	5276	4459	4428	3616	3276	3051	
Wapello	16580	15628	15056	14007	12630	12020	11470	11193	10884	10183	10039	9624	9060	8212	7289	6514	5901	5362	4802	4452	4214	3828	3562	
Warren	17372	16353	15878	14564	13347	12623	12015	11762	11252	10560	10272	9891	9094	8586	7906	6717	6352	5796	5153	4947	4334	3909	3627	
Washington	17464	16894	16771	15309	13632	14264	13582	13489	13410	11719	11640	11351	9384	9388	8760	7132	6653	6762	5389	5577	4530	4169	3926	
Wayne	14993	13617	13626	12979	11583	11958	11441	10477	9613	8918	8970	8654	7507	7219	6916	5177	5518	5088	4259	4687	3886	3259	3172	
Webster	17538	16287	15293	14703	13184	12825	12650	11698	11256	11091	10901	10837	9908	9125	8263	7049	6420	6076	5684	5245	4264	3970	3692	
Winnebago	18352	16074	16739	16043	15811	14989	14104	13209	13079	10982	10206	9863	8366	8327	8345	7767	6826	6666	5452	6169	4788	3989	3731	
Winneshiak	16460	15396	15422	13960	12149	12441	11447	10405	10272	7757	7924	7822	6380	6288	6442	5540	5010	4609	4177	4038	3185	3020	2968	
Woodbury	18539	17105	16396	15442	14514	14072	13082	12551	11992	11368	11047	10774	9456	8814	8246	7406	6711	6169	5534	5255	4509	4072	3863	
Worth	16071	14861	15627	14309	13396	13680	12759	12103	11908	9669	9317	9267	7373	7603	8115	6855	5936	6463	5475	6075	4359	3469	3368	
Wright	16891	15447	15559	16045	14055	13786	13487	12716	13001	11870	11574	11436	9861	9454	9103	7817	6793	7171	6569	6249	4718	4036	3890	
State of Iowa	18275	17096	16683	15647	14332	13936	13209	12575	12049	11010	10791	10617	9346	8844	8209	7081	6413	6046	5475	5289	4380	3943	3795	
Counties:																								
Range: Low	13225	12434	12173	11584	9948	10293	9642	9084	8131	7154	7377	6917	5865	5741	5942	4673	4711	4274	3995	4038	3185	3020	2935	
High	22315	21101	20324	19101	17823	16605	15845	15219	14613	13792	13181	12464	11464	10637	9399	8444	7503	7171	6588	7003	5203	4682	4415	
Number Dec.	0	27	5	0	43	4	2	3	2	41	44	0	26	19	0	12	31	1	56	0	0	18		

Table 2. Adjusted Per Capita Income (1992 Dollars) in Iowa Counties, 1970-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Adair	16453	15370	16004	16174	14421	15166	15711	13764	12973	11576	12773	13326	11491	13710	15947	13273	14905	13511	13059	16282	13183	11828	11717
Adams	15993	14952	15249	15230	13464	15286	15315	13324	12300	12309	13244	13357	11486	13313	14801	12886	15544	13506	12166	16601	12291	11426	11402
Allamakee	15273	14248	15249	14870	13713	14774	14178	13062	13312	10823	11874	12227	11061	12592	14035	13823	14842	13005	12139	13532	11366	10784	10993
Appanoose	14788	14267	14118	14064	13521	13614	13379	12427	12420	12358	12606	12581	12510	13406	13513	13394	13945	13085	12649	13183	11556	10885	10406
Audubon	17925	17036	16681	17086	15039	16447	14910	14448	13304	11093	12449	14019	11849	13274	15793	12998	13594	13942	13410	16309	13147	11980	12329
Benton	16615	15873	16268	16507	15191	16343	16550	15069	15452	14198	14469	15194	14084	15623	17205	15224	14950	15276	14555	16273	14180	13213	13283
Black Hawk	17345	16720	16817	16613	15906	15671	15412	15260	15556	15673	16004	16519	16388	16951	17035	16984	15618	15216	14670	14712	14016	12865	12587
Boone	18929	17971	17842	18412	17298	17741	17379	16251	15925	15816	15745	16114	15729	16440	17483	14647	15544	16073	15485	16264	13853	12811	12937
Bremer	17086	16235	16321	15974	15033	15304	15078	14951	15016	14030	14318	14921	14300	15196	16004	15584	14396	14108	13987	15147	13559	13172	12577
Buchanan	16193	15637	15812	15352	14111	15133	13958	13480	13643	11721	12642	13384	12504	13815	14805	13864	13348	13990	13477	14066	12101	10993	11066
Buena Vista	17122	16426	16515	16960	16094	16253	16781	16125	15053	14311	14779	16037	14921	16054	17448	16479	13716	15807	15702	17736	14820	14132	14409
Butler	16377	15462	15772	14525	14200	15464	15116	15058	14888	12924	13227	14067	13480	14605	16359	14526	13831	14353	13290	15613	12699	11672	11563
Calhoun	17647	15778	16114	17055	16285	16362	16624	15764	15167	14877	14919	16610	15614	16674	17084	14371	12979	15075	15633	18147	15444	12605	13357
Carrroll	18611	17730	17464	17591	17294	17783	17134	16533	16565	15623	16184	17301	15874	16964	17893	14957	13764	14549	14223	16733	14101	11919	12717
Cass	17426	16573	16577	17098	15668	16409	16254	15633	15389	14631	14922	15717	13929	15694	16836	15483	15862	14376	14214	17027	14742	13108	13150
Cedar	18041	17445	17875	17835	16460	17093	16231	15988	16564	14374	14896	15818	14196	16232	17883	15727	15578	17033	14869	16826	14176	13051	13514
Cerro Gordo	17898	17532	17689	17051	17054	17327	17050	16458	16699	16108	15757	16095	15377	16060	16979	16403	15842	15484	14804	15402	14775	13831	13755
Cherokee	17313	17105	17130	16842	16525	16337	15991	15045	14696	13320	14046	14920	13436	14600	16232	14629	13153	15398	15397	17739	13948	12473	12476
Chickasaw	17056	16289	16489	16199	15281	16165	15355	14705	14699	12801	13177	14299	13312	14918	16211	15407	13468	13825	13877	16009	13618	11490	11636
Clarke	14386	13870	14478	14658	13750	14449	14231	13251	12253	12256	12799	12664	12398	12609	13737	13405	13131	12571	12105	14408	12598	12074	12066
Clay	17536	16750	17481	17538	16823	16619	16487	15269	14397	13920	14492	15505	15304	16312	17396	17734	16007	16055	15190	17336	14444	13470	13273
Clayton	16128	14956	15793	15334	13868	15182	14721	13331	13773	10254	11529	12326	10622	12565	13943	12647	12527	12353	11936	13559	11797	10916	11343
Clinton	17409	16722	16708	16644	15882	16056	15820	15411	15701	14613	14887	15744	15217	15862	16240	15353	14692	14439	13887	14631	14052	13318	13710
Crawford	17032	16202	15956	15577	15301	15386	15372	14014	14152	12662	13682	14766	12050	13482	15199	12984	11952	13241	12834	15132	12922	11588	12084
Dallas	19491	18864	18677	18920	17986	18272	17925	16924	17164	16840	16745	16899	15509	16779	17012	16210	16446	16361	16276	17489	15827	14490	14556
Davis	14401	13782	14359	13211	12472	12960	12982	12277	12355	11569	12244	11861	11462	12380	12823	11519	12442	12283	11727	14369	13219	11794	11682
Decatur	13225	12792	12868	13135	11662	12599	12330	11691	10841	9881	10524	10247	9444	10400	12201	10454	11289	10712	10710	12336	11373	10584	10483
Delaware	16376	15851	16941	15902	14678	16175	15205	13767	14041	10872	11822	12927	10979	13444	15191	13304	12742	14286	12761	13622	11912	10743	10731
Des Moines	17846	17466	17591	17327	16966	17197	17277	16669	16688	15865	15770	16036	15852	16879	17154	16841	16282	15719	15399	15982	15441	14618	14531
Dickinson	19610	18694	19293	19211	17933	17906	17572	16355	17045	15508	15429	15760	14934	16210	17680	16606	15217	15586	15458	18141	14928	13527	13591
Dubuque	18172	17441	17451	17201	16722	16868	16309	15699	15595	14474	14398	14782	14515	15511	16158	15644	14489	14018	13869	13973	13497	12848	12598
Emmet	16241	15162	15796	15549	14890	15534	15699	15019	14396	13796	14147	15856	15762	15107	16782	15794	14315	15238	15547	17219	13977	13726	13738
Fayette	15490	14884	15283	14910	13502	14672	13928	13359	13769	11974	12134	12797	11850	13870	14719	13438	12814	12742	12673	13700	11791	10959	11280
Floyd	17077	16640	16876	15892	15354	16103	15820	14875	15317	13816	14183	14348	14061	15217	16129	16009	14742	14840	14598	16009	12480	11125	12255
Franklin	17755	15754	16764	16525	15693	16835	17247	15431	15224	13419	13576	15003	13502	14696	16988	14474	14764	17434	16692	18078	14036	12385	13692
Fremont	16856	15717	15569	15899	15900	15572	17375	16286	14689	16138	15039	15847	15159	15743	16992	14322	16403	14737	13944	19069	15239	14331	15017

Table 2. Adjusted Per Capita Income (1992 Dollars) in Iowa Counties, 1970-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Greene	18094	16267	15990	17221	15477	16889	17015	15368	14860	15507	15605	16874	15873	17188	18901	13134	15656	17338	17525	21030	17003	14186	15175
Grundy	19164	18182	18097	17166	16570	17781	17256	16367	16784	15932	16448	17679	16382	17725	18639	17519	16542	17436	17662	18646	14974	13311	13566
Guthrie	17364	16581	16860	16997	15280	16218	15532	14969	14473	12972	13960	14416	12491	14033	15320	12897	13518	13346	13110	15267	12467	11436	11664
Hamilton	19022	18345	17793	19328	16454	17944	18182	17378	16696	16686	16689	17680	16256	17330	18376	16345	15993	17451	16587	19589	16507	14858	14154
Hancock	16360	14733	16072	15378	15415	15797	16822	16196	15988	15077	15170	16123	14100	15518	17269	16405	15317	17063	16351	18003	14480	12551	13231
Hardin	17877	16755	17023	16448	15571	17028	17262	16232	15925	15227	15191	16121	15232	16042	17357	15405	15663	15815	15718	17498	14359	13176	14413
Harrison	16317	14896	14788	14597	14342	14629	14997	15157	14193	13171	13760	14360	12367	13962	15195	12975	12666	13682	12319	15381	12794	12017	11920
Henry	16929	16340	16397	15975	15755	15841	15889	15495	15107	14115	14434	14745	14072	15341	16267	15678	15871	15581	14174	15333	13869	12922	12801
Howard	15802	15233	15781	15490	13849	15520	15400	13938	14871	12275	12501	13404	12047	14056	15189	14407	12659	12338	11855	15417	12056	10473	10262
Humboldt	17710	15744	16584	17776	15848	16322	16114	14958	15300	14436	15347	16167	14201	15565	17932	15758	14981	17293	16727	17895	13134	12209	12804
Ida	17658	16342	16874	17128	16506	16715	15980	15541	15391	11801	13321	14487	11456	14268	17047	14013	11597	14333	15147	17778	14752	13419	13801
Iowa	19222	17744	17507	17350	16118	17562	16370	16313	16869	13895	14026	14791	13452	15147	16813	15166	14998	14416	13410	15745	14359	13851	14479
Jackson	16137	15201	15510	15328	14413	15026	14223	13771	14169	12159	12826	13359	12395	13505	14879	13770	13642	13095	12598	14384	12627	11861	11857
Jasper	18255	17637	17875	17938	17367	18182	17890	17245	17403	16338	16016	16484	15461	16348	17370	15850	16064	15499	15298	16700	15556	13574	13993
Jefferson	16086	15531	16123	15981	15217	15971	15917	14557	14431	12467	12381	13357	12433	13987	14530	13888	14341	14193	14839	14619	12873	12209	12500
Johnson	18824	18457	18124	18202	17258	17181	17325	16463	16416	15894	15645	15613	15493	15850	16618	15866	14838	14306	13306	13769	13245	12608	12171
Jones	14495	13892	14679	14572	13526	14192	13664	13284	13577	11604	12127	12984	11955	13509	14969	13443	13019	13579	13311	14351	12627	12098	12332
Keokuk	16456	15852	16232	16361	14631	17215	16115	15479	15480	13718	14118	13978	12755	14377	16236	14553	14196	15033	13327	16679	14036	12726	12668
Kossuth	17359	14829	16493	17325	16434	16683	17187	15340	15171	14419	14161	15156	13842	14460	16793	15248	14017	16965	16807	19129	14088	12240	12381
Lee	16986	16426	16248	16180	15679	15771	16254	15945	15844	15050	15101	15388	14805	15775	16374	15387	15215	14604	14075	14634	13595	12855	12706
Linn	20443	19955	19947	20117	19421	19169	18923	18050	17665	17291	17312	17258	17167	18036	18047	17519	16928	16033	15686	15904	15317	14818	14720
Louisa	17361	15874	16420	16052	15188	15905	15880	14873	15145	13196	14937	15110	14142	13891	14593	14181	14272	15140	13874	15784	13346	12821	12934
Lucas	16318	15679	16049	16262	15705	15689	15587	14438	14127	13736	14064	14138	13786	14125	15507	13662	14900	13667	12818	14808	13706	12652	12822
Lyon	15527	15050	14959	15489	13798	15011	15072	14690	14588	12702	13973	14019	11729	14643	15653	13365	11243	12887	12938	17985	13644	12155	12133
Madison	17110	16418	16745	16809	15785	16114	16075	15284	14837	13878	14509	14173	13671	14246	15795	14629	15714	14762	13496	16336	13954	13412	13395
Mahaska	16564	15873	16090	15901	15070	16222	16176	15317	14819	13782	14472	14825	13651	15054	16437	14821	14795	14566	14038	15538	13951	12338	12063
Marion	17910	17419	17556	17549	17258	17849	17336	16557	16415	16148	15756	15775	14889	16101	16727	15065	15919	15942	15324	16033	14611	13399	13266
Marshall	18814	18409	18266	18404	17018	17611	17459	16994	16929	16584	16502	16849	16543	17071	17945	16857	17585	16920	16480	17354	15873	15649	15437
Mills	20224	19809	19665	19439	19490	19341	18835	17136	15908	14883	15120	14810	14179	14868	17016	15360	16310	16025	14901	17877	14824	14179	14622
Mitchell	18510	17842	18564	17987	16294	18350	17932	16385	16533	13876	13863	14081	12461	14074	16082	15078	12833	14444	13070	16889	13529	11426	11913
Monona	16583	14983	15588	15819	14512	14641	15233	14534	13852	12714	14856	15742	11890	13051	15832	14112	11621	15143	14019	18874	14222	12466	13091
Monroe	16694	16320	16128	15515	15164	15103	14197	13736	13600	12669	13138	12788	12836	12911	13860	13161	13788	12920	12255	13937	12592	11443	11031
Montgomery	17623	16901	16670	17101	15916	16218	16451	15232	15080	14653	15415	15655	14779	17272	17060	15588	16055	14832	14767	17123	13987	13382	13710
Muscatine	19292	18525	18721	18439	18069	18105	18096	17761	17764	16814	16890	16990	16259	16505	17191	16689	16642	15937	14871	15459	14418	13980	14108
O'Brien	17485	17266	17387	17442	17315	17247	17205	16178	15731	14623	15108	15267	13961	15486	17676	16136	14971	16035	15780	18039	14516	12537	12042
Osceola	16189	15798	15790	15796	15134	15148	14730	13465	13499	12551	12896	14575	13486	14900	17388	15861	13341	16010	14255	20216	15203	13051	12892

Table 2. Adjusted Per Capita Income (1992 Dollars) in Iowa Counties, 1970-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Page	18093	16953	16909	17047	15628	16306	16751	15081	14108	14119	14084	14199	13469	15183	15676	14881	15570	14584	13512	16153	13899	13365	12937
Palo Alto	16554	14950	16057	15750	15120	16130	16096	15422	13688	13033	13987	15241	14776	14324	16752	15098	13411	15226	15080	18342	13575	12666	12871
Plymouth	18025	17590	17405	17131	15369	16985	16092	15826	15161	12827	13806	14079	11802	14375	16472	14257	13124	14313	13724	17042	13680	11872	11724
Pocahontas	17617	15854	16039	17144	15678	16000	17394	16746	14255	13478	15302	16868	14452	14728	17897	15953	12866	16281	16810	20117	14118	12794	13010
Polk	22315	21709	21484	21438	20894	20324	20262	19587	19484	19050	18803	18465	18461	19270	19300	18890	17907	17063	16576	16883	16696	15818	15430
Pottawattamie	16584	16201	15971	15882	15927	16055	16326	15891	15747	15148	14989	15050	14490	15091	16199	15177	14802	13732	13786	14667	13601	12905	13003
Poweshiek	17720	17116	17288	17439	16573	17525	17157	15575	16031	14568	14892	15133	13929	15495	16766	15190	15640	15155	14823	16742	14592	13311	13133
Ringgold	15004	13876	14240	14997	13062	14523	14239	12045	11021	11269	12660	12129	11572	12259	14528	12260	14499	13494	12099	16901	13373	11828	12059
Sac	17174	15851	16080	16276	15633	15846	16890	14990	15077	13606	14713	16542	13776	16605	17936	15242	13797	15757	16458	18781	14873	12679	13276
Scott	19184	18893	19015	18659	18076	18028	17991	17577	17576	16872	17031	17396	17225	17741	17895	17461	16728	16100	16040	16312	15343	14551	14364
Shelby	16988	16478	16489	16517	15525	16037	15303	15550	14853	12838	13897	14804	12348	15315	17259	13400	13248	13481	13531	16462	13637	11851	12392
Sioux	16219	15733	15397	15510	14456	15332	15207	15264	15169	12910	12766	14185	12812	14761	16522	13962	13358	12987	13914	16120	13748	11986	12283
Story	17191	16675	16311	16496	15754	16076	15806	15184	14820	14246	14138	13954	13836	14315	14797	13754	13473	12932	12584	13456	12533	11939	11664
Tama	16482	15948	16462	16222	15821	16725	16387	15606	15373	13844	14900	15643	13929	14455	16094	15289	15365	15774	14512	16568	13882	12794	12783
Taylor	14006	13233	13078	13001	12002	13787	14065	13097	11424	11445	12746	12314	11477	13288	13928	13128	14179	12917	11432	14760	12059	10422	11066
Union	16060	15170	15329	15312	14775	14845	15027	14480	13953	13786	14321	13646	13283	13707	14177	13434	14117	13108	12464	14592	12863	11716	11427
Van Buren	14125	13150	13461	13207	12361	13359	13081	12418	11948	10954	11622	11759	10986	12603	13973	13081	13394	13223	11954	13297	11817	11068	10668
Wapello	16580	16078	15915	15721	14807	14712	14668	14405	14512	14065	14321	14258	14589	14877	14967	14573	14084	13439	12874	13369	13771	12932	12455
Warren	17372	16824	16784	16346	15647	15450	15364	15138	15003	14586	14653	14653	14644	15554	16234	15027	15160	14526	13815	14856	14163	13206	12682
Washington	17464	17381	17728	17182	15981	17459	17368	17360	17880	16186	16605	16816	15111	17007	17988	15955	15878	16947	14448	16748	14804	14084	13727
Wayne	14993	14009	14404	14567	13579	14636	14630	13484	12817	12318	12796	12821	12089	13078	14201	11582	13169	12752	11418	14075	12699	11010	11091
Webster	17538	16756	16166	16502	15456	15698	16176	15055	15008	15319	15551	16055	15955	16531	16967	15770	15322	15228	15239	15751	13935	13412	12909
Winnebago	18352	16537	17695	18006	18536	18346	18036	17000	17439	15169	14559	14612	13472	15085	17136	17376	16291	16707	14617	18526	15647	13476	13045
Winneshiek	16460	15840	16302	15668	14243	15228	14638	13391	13696	10714	11304	11588	10274	11391	13228	12394	11957	11551	11198	12126	10408	10203	10378
Woodbury	18539	17598	17332	17331	17015	17224	16729	16153	15989	15702	15759	15961	15227	15967	16932	16568	16017	15461	14836	15781	14735	13757	13507
Worth	16071	15289	16519	16059	15705	16744	16316	15577	15877	13355	13291	13729	11873	13774	16663	15336	14167	16198	14678	18243	14245	11720	11776
Wright	16891	15892	16447	18008	16477	16874	17247	16366	17335	16395	16511	16942	15879	17127	18692	17488	16212	17972	17611	18766	15418	13635	13601
State of Iowa	18275	17588	17635	17561	16802	17058	16891	16184	16065	15207	15394	15729	15050	16022	16856	15841	15305	15153	14678	15883	14314	13321	13269
Counties:																							
Range: Low	13225	12792	12868	13001	11662	12599	12330	11691	10841	9881	10524	10247	9444	10400	12201	10454	11243	10712	10710	12126	10408	10203	10262
High	22315	21709	21484	21438	20894	20324	20262	19587	19484	19050	18803	18465	18461	19270	19300	18890	17907	17972	17662	21030	17003	15818	15437
Number Dec.	0	66	43	6	83	30	3	38	9	77	82	2	96	98	2	35	46	14	98	1	0	52	

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1972-1992.

County	Change in Per Capita Income, 1972-1992			Change in Adjusted Per Capita Income, 1972-1992		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Adair	12419	307.9	8	3270	24.8	10
Adams	12232	325.2	5	3702	30.1	10
Allamakee	11795	339.1	5	3907	34.4	9
Appanoose	11252	318.2	0	3232	28.0	6
Audubon	13902	345.6	5	4778	36.3	9
Benton	12276	282.9	2	2435	17.2	11
Black Hawk	13056	304.4	0	3329	23.8	8
Boone	14690	346.5	0	5076	36.6	8
Bremer	12937	311.8	1	3527	26.0	8
Buchanan	12490	337.3	3	4092	33.8	9
Buena Vista	12587	277.6	3	2302	15.5	10
Butler	12491	321.4	3	3678	29.0	8
Calhoun	12921	273.4	3	2203	14.3	11
Carroll	14296	331.3	4	4510	32.0	9
Cass	12915	286.3	4	2684	18.2	9
Cedar	13703	315.9	5	3865	27.3	9
Cerro Gordo	13377	295.9	0	3123	21.1	8
Cherokee	13045	305.6	4	3365	24.1	7
Chickasaw	12889	309.3	3	3438	25.2	9
Clarke	10531	273.2	4	1788	14.2	8
Clay	13116	296.7	4	3092	21.4	9
Clayton	12518	346.8	6	4331	36.7	8
Clinton	13109	304.9	1	3357	23.9	7
Crawford	13078	330.8	4	4110	31.8	8
Dallas	14648	302.5	0	3664	23.2	8
Davis	10356	256.0	4	1182	8.9	9
Decatur	9745	280.0	5	1852	16.3	8
Delaware	12731	349.3	6	4464	37.5	9
Des Moines	13121	277.7	0	2405	15.6	8
Dickinson	15042	329.3	3	4682	31.4	7
Dubuque	14042	340.0	0	4675	34.6	6
Emmet	11964	279.7	3	2264	16.2	9
Fayette	11882	329.3	3	3699	31.4	8
Floyd	13258	347.2	1	4597	36.8	9
Franklin	13460	313.4	5	3719	26.5	10
Fremont	12193	261.5	5	1617	10.6	9
Greene	12891	247.8	7	1091	6.4	12
Grundy	14582	318.2	3	4190	28.0	9
Guthrie	13549	355.2	3	4897	39.3	9
Hamilton	13971	276.6	5	2515	15.2	9
Hancock	11929	269.2	4	1880	13.0	10
Hardin	13483	306.9	2	3518	24.5	9
Harrison	12402	316.8	6	3523	27.5	9
Henry	12685	298.9	0	3060	22.1	9
Howard	12113	328.4	6	3746	31.1	8
Humboldt	13691	340.7	6	4576	34.8	10
Ida	13144	291.2	7	2906	19.7	10
Iowa	14828	337.5	4	4863	33.9	7
Jackson	12273	317.6	3	3510	27.8	8
Jasper	13495	283.5	1	2699	17.4	9

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1972-1992
(continued).

County	Change in Per Capita Income, 1972-1992			Change in Adjusted Per Capita Income, 1972-1992		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Jefferson	12147	308.4	3	3213	25.0	7
Johnson	14771	364.4	0	5579	42.1	5
Jones	10631	275.1	5	1868	14.8	9
Keokuk	12161	283.1	4	2420	17.2	9
Kossuth	13048	302.7	5	3271	23.2	9
Lee	12826	308.3	0	3391	24.9	7
Linn	15756	336.2	0	5126	33.5	5
Louisa	13277	325.1	5	4015	30.1	9
Lucas	12124	289.1	2	2612	19.1	8
Lyon	11352	271.9	5	1883	13.8	10
Madison	12840	300.7	3	3156	22.6	8
Mahaska	12295	288.0	2	2613	18.7	7
Marion	13439	300.6	0	3299	22.6	8
Marshall	13957	287.4	0	2941	18.5	7
Mills	15688	345.9	2	5400	36.4	6
Mitchell	14370	347.1	6	4981	36.8	8
Monona	12231	281.0	6	2361	16.6	10
Monroe	12841	333.3	2	4102	32.6	6
Montgomery	13343	311.8	3	3636	26.0	8
Muscatine	14880	337.3	0	4874	33.8	8
O'Brien	13043	293.6	4	2969	20.5	8
Osceola	11537	248.0	4	986	6.5	9
Page	13840	325.4	2	4194	30.2	9
Palo Alto	12400	298.5	7	2979	21.9	7
Plymouth	13839	330.6	6	4345	31.8	7
Pocahontas	13297	307.8	7	3499	24.8	11
Polk	17206	336.8	0	5619	33.7	3
Pottawattamie	12422	298.5	0	2983	21.9	8
Poweshiek	13255	296.9	2	3128	21.4	10
Ringgold	10912	266.7	5	1631	12.2	9
Sac	12623	277.4	6	2301	15.5	12
Scott	14489	308.6	0	3841	25.0	6
Shelby	12815	307.1	5	3351	24.6	11
Sioux	12012	285.5	5	2471	18.0	8
Story	13356	348.3	0	4658	37.2	5
Tama	12234	288.0	5	2600	18.7	9
Taylor	10316	279.6	5	1947	16.1	8
Union	12124	308.0	2	3197	24.9	8
Van Buren	10509	290.6	3	2308	19.5	8
Wapello	12366	293.5	0	2809	20.4	7
Warren	13038	300.8	0	3209	22.7	5
Washington	12934	285.5	4	2660	18.0	9
Wayne	11107	285.8	5	2294	18.1	9
Webster	13274	311.3	0	3603	25.9	10
Winnebago	13564	283.3	3	2705	17.3	10
Winneshiek	13275	416.8	4	6052	58.1	8
Woodbury	14030	311.2	0	3804	25.8	6
Worth	11712	268.7	6	1826	12.8	8
Wright	12173	258.0	4	1473	9.6	11
State of Iowa	13895	317.2	0	3961	27.7	7

Table 4. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1982-1992.

County	Change in Per Capita Income, 1982-1992			Change in Adjusted Per Capita Income, 1982-1992		
	Dollars	Percent	Years	Dollars	Percent	Years
			Decreased			Decreased
Adair	7499	83.8	3	3680	28.8	5
Adams	6709	72.3	2	2749	20.8	5
Allamakee	6949	83.5	3	3399	28.6	4
Appanoose	5951	67.3	0	2182	17.3	2
Audubon	9198	105.4	2	5476	44.0	3
Benton	6472	63.8	1	2146	14.8	6
Black Hawk	6126	54.6	0	1341	8.4	4
Boone	7892	71.5	0	3184	20.2	2
Bremer	7049	70.2	0	2768	19.3	4
Buchanan	7331	82.7	2	3551	28.1	4
Buena Vista	6762	65.3	0	2343	15.9	5
Butler	7105	76.6	1	3150	23.8	3
Calhoun	7189	68.7	0	2728	18.3	5
Carroll	7266	64.0	1	2427	15.0	4
Cass	6966	66.6	1	2504	16.8	4
Cedar	7599	72.8	1	3145	21.1	4
Cerro Gordo	6852	62.0	0	2141	13.6	4
Cherokee	7467	75.8	1	3267	23.3	2
Chickasaw	7819	84.6	1	3879	29.4	3
Clarke	5414	60.3	3	1587	12.4	5
Clay	7377	72.6	2	3044	21.0	3
Clayton	8046	99.6	3	4599	39.9	4
Clinton	6973	66.8	0	2522	16.9	3
Crawford	7441	77.6	1	3350	24.5	3
Dallas	7753	66.1	0	2746	16.4	3
Davis	5818	67.8	2	2157	17.6	5
Decatur	5848	79.3	2	2701	25.7	4
Delaware	8089	97.6	3	4554	38.5	4
Des Moines	6791	61.4	0	2076	13.2	4
Dickinson	8794	81.3	2	4181	27.1	2
Dubuque	8079	80.0	0	3774	26.2	2
Emmet	6324	63.8	1	2094	14.8	4
Fayette	6984	82.1	1	3356	27.7	4
Floyd	7135	71.8	1	2894	20.4	4
Franklin	8238	86.6	2	4179	30.8	4
Fremont	6314	59.9	2	1817	12.1	4
Greene	7155	65.4	3	2489	16.0	5
Grundy	7634	66.2	1	2716	16.5	3
Guthrie	7578	77.4	2	3404	24.4	4
Hamilton	7323	62.6	2	2333	14.0	4
Hancock	5726	53.8	2	1190	7.8	5
Hardin	7228	67.9	1	2686	17.7	3
Harrison	6671	69.2	2	2557	18.6	4
Henry	6811	67.3	0	2495	17.3	4
Howard	7039	80.3	3	3301	26.4	4
Humboldt	6952	64.6	3	2363	15.4	5
Ida	8320	89.1	2	4337	32.6	4
Iowa	9390	95.5	1	5196	37.0	3
Jackson	7146	79.5	1	3311	25.8	4
Jasper	7028	62.6	1	2239	14.0	4

Table 4. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1982-1992
(continued).

County	Change in Per Capita Income, 1982-1992			Change in Adjusted Per Capita Income, 1982-1992		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Jefferson	7407	85.3	2	3705	29.9	2
Johnson	7857	71.6	0	3179	20.3	2
Jones	5994	70.5	3	2368	19.5	4
Keokuk	6559	66.3	1	2338	16.6	5
Kossuth	7432	74.9	1	3198	22.6	4
Lee	6400	60.5	0	1885	12.5	3
Linn	8307	68.4	0	3131	18.1	2
Louisa	6890	65.8	3	2424	16.2	4
Lucas	6459	65.5	0	2254	16.0	3
Lyon	5732	58.5	2	1554	11.1	4
Madison	6939	68.2	1	2601	17.9	4
Mahaska	6419	63.3	2	2092	14.5	3
Marion	6865	62.2	0	2154	13.7	2
Marshall	7246	62.6	0	2312	14.0	2
Mills	9625	90.8	0	5104	33.8	2
Mitchell	8792	90.5	2	4647	33.5	3
Monona	6169	59.2	2	1727	11.6	5
Monroe	7484	81.3	1	3556	27.1	1
Montgomery	6817	63.1	1	2208	14.3	4
Muscatine	7452	62.9	0	2402	14.2	4
O'Brien	6894	65.1	1	2377	15.7	3
Osceola	7149	79.1	0	3293	25.5	4
Page	8220	83.3	0	4009	28.5	4
Palo Alto	6749	68.8	3	2567	18.4	3
Plymouth	8347	86.2	2	4219	30.6	2
Pocahontas	6890	64.2	3	2315	15.1	5
Polk	9134	69.3	0	3512	18.7	0
Pottawattamie	6077	57.8	0	1595	10.6	3
Poweshiek	7281	69.7	1	2828	19.0	5
Ringgold	6129	69.1	2	2344	18.5	5
Sac	6860	66.5	2	2461	16.7	6
Scott	7245	60.7	0	2153	12.6	2
Shelby	7246	74.4	2	3091	22.2	5
Sioux	7270	81.2	1	3453	27.0	3
Story	7280	73.5	0	3053	21.6	2
Tama	6037	57.8	3	1582	10.6	3
Taylor	5071	56.8	2	1260	9.9	4
Union	6021	60.0	1	1739	12.1	4
Van Buren	5978	73.4	2	2503	21.5	3
Wapello	6541	65.2	0	2259	15.8	2
Warren	7100	69.1	0	2719	18.6	1
Washington	5824	50.0	1	859	5.2	4
Wayne	6023	67.1	3	2197	17.2	4
Webster	6637	60.9	0	1987	12.8	5
Winnebago	8146	79.8	1	3793	26.1	4
Winneshiek	8536	107.7	3	5156	45.6	4
Woodbury	7492	67.8	0	2780	17.6	2
Worth	6754	72.5	2	2780	20.9	3
Wright	5317	45.9	3	380	2.3	6
State of Iowa	7484	69.4	0	2881	18.7	3

capita income adjusted for inflation was higher in 1992 than it was in 1972 for Iowa (Table 2, Figure 3), but it did not increase each year as was the case before adjustment (Table 1). Instead, there were seven times (1973 to 1974, 1978 to 1979, 1979 to 1980, 1981 to 1982, 1982 to 1983, 1987 to 1988, 1990 to 1991) when it declined. The purchasing power of Iowa's residents was greater in 1978 than it was from 1979 through 1985.

County trends for adjusted per capita income show more variation than when the unadjusted figures were examined. Differences between the highest and lowest counties reached \$7,000-\$7,999 in 5 years, \$8,000-\$8,999 in 9 years, and more than \$9,000 in 1980, 1983, 1988, and 1992. Adjusted per capita income increased in all Iowa counties from 1971 to 1972 and again from 1991 to 1992, but these were the only year-to-year comparisons during which that occurred. More than 90 counties had decreases from 1973 to 1974, 1978 to 1979, and 1979 to 1980 when per capita income was adjusted for inflation. More counties experienced declines with the adjusted than the unadjusted figures, indicating that some did not always keep up with inflation even though income rose.

For the entire period between 1972 and 1992, Iowa's adjusted per capita income increased by \$3,961 and all of the counties experienced gains (Table 3). Six counties (Boone, Johnson, Linn, Mills, Polk, Winneshiek) increased by at least \$5,000, with only Winneshiek exceeding \$6,000. Osceola had the smallest gain (+\$986); three others (Davis, Greene, Wright) increased less than \$1,500. None of the counties had increases in adjusted per capita income in all 20 year-to-year comparisons from 1972 through 1992. Polk declined only three times, while Johnson, Linn, Story, and Warren had five decreases. Twelve counties declined in 10 instances when adjacent years were compared, five (Benton, Calhoun, Pocahontas, Shelby, Wright) declined 11 times, and Greene and Sac had losses in 12 of the 20 comparisons.

The state's percentage increase in adjusted per capita income from 1972 to 1992 was 27.7 percent. Gains ranged from less than 15 percent in 12 counties to more than 50 percent in Winneshiek. These percentage increases for adjusted per capita income were much less dramatic than those for the unadjusted figures. The adjusted numbers, however, represent real gains in buying power after the effect of inflation was removed.

When the span of change is shortened to 1982-1992, again per capita income increased in every county (Table 4). The state and 30 counties had no instances when per capita income decreased from one year to the next during this period, although declines occurred three times in 16 counties. The gain in per capita income was \$7,484 from 1982 to 1992, an increase of nearly 70 percent.

When income in 1982 is adjusted for inflation that occurred from that year to 1992, however, the increase is reduced to \$2,881 (+18.7%) (Table 4). In three of the year-to-year comparisons, adjusted per capita income declined in Iowa during those years. Benton, Sac, and Wright reported decreases in 6 of the 10 comparisons; declines occurred in 5 years for 16 others. Only Polk had an increase in adjusted per capita income each year. All counties noted adjusted figures higher in 1992 than in 1982, indicating that buying power had increased. Gains of at least 30 percent occurred in 10 counties, with two (Audubon, Winneshiek) at 40 percent or higher when the 1982 and 1992 figures for adjusted per capita income were compared.

Figure 1. Per capita income in Iowa, 1970-1992.

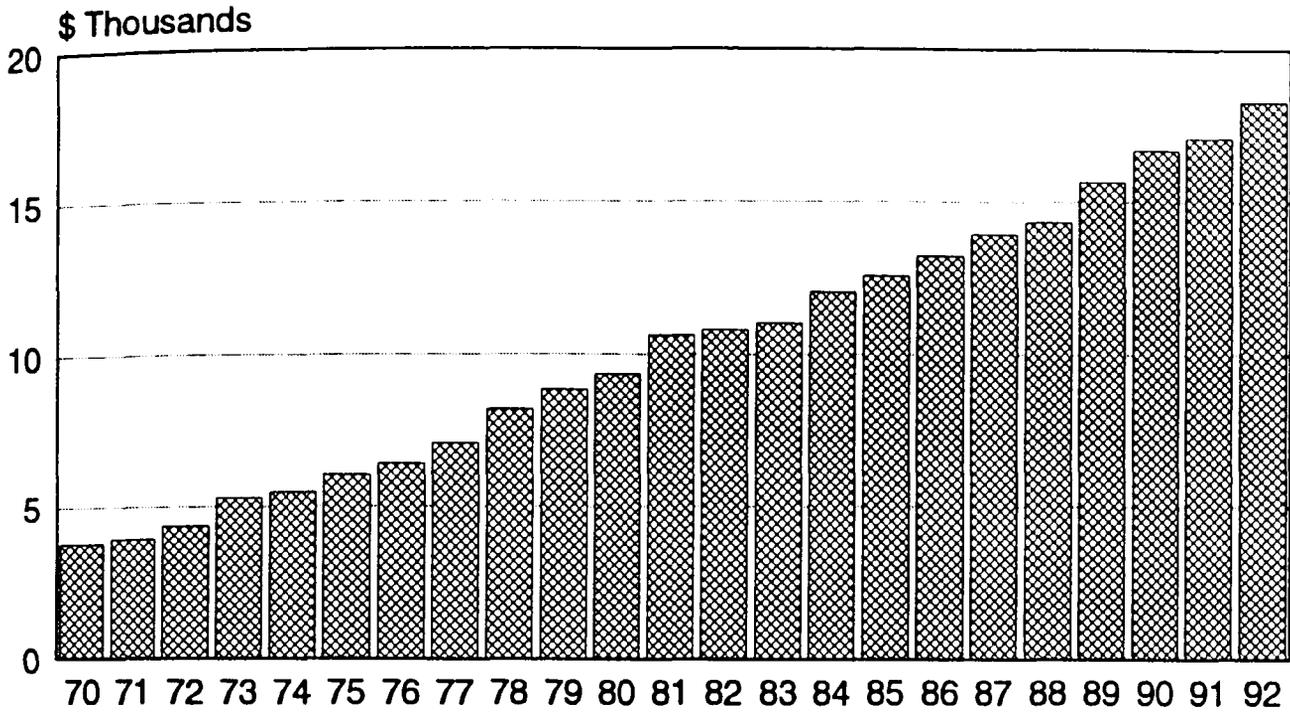


Figure 2. Per capita income, 1992.

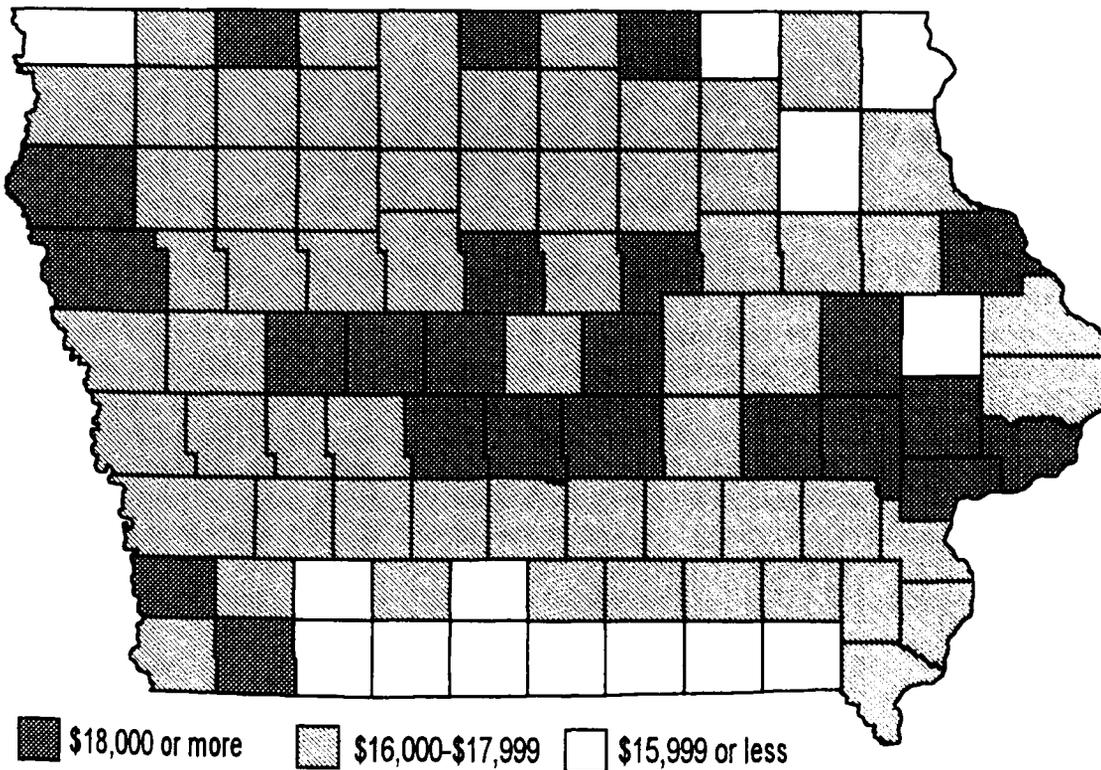
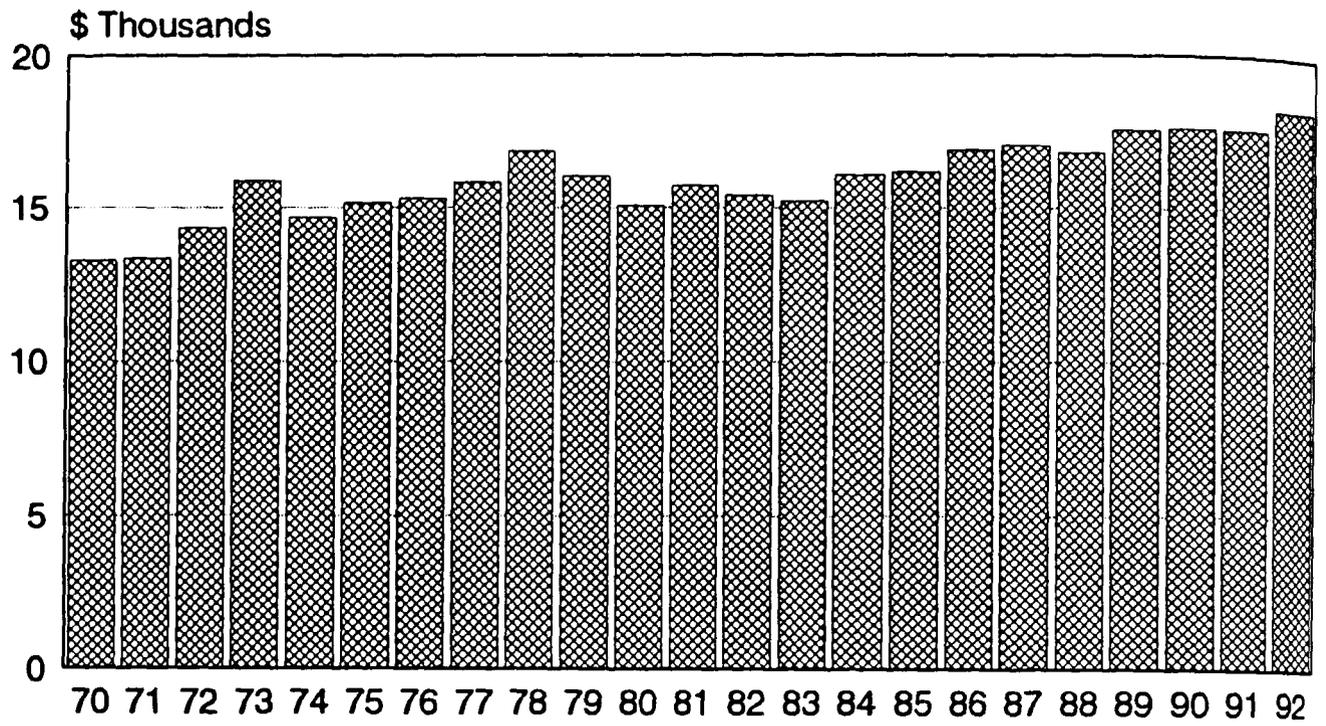


Figure 3. Adjusted per capita income (in 1992 dollars) in Iowa, 1970-1992.



Estimated Personal Income in Iowa's Counties:

1982-1992

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Willis Goudy, Iowa State University

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 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 1992 dollar values) are presented. The adjusted figures indicate whether income trends are 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, which are 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 \$51.2 billion in 1992, up from \$47.7 billion in 1991 and \$31.2 billion in 1982 (Table 1). In 1992, income ranged from \$74.2 million in Adams to \$7.5 billion in Polk (Figure 1). Adams is Iowa's least populous county, while Polk has the highest number of residents; in general, total income tends to follow the ranking on total population. Income increased by 64.4 percent from 1982 to 1992 in Iowa; gains occurred in all counties. Three (Adams, Ringgold, Taylor) increased by less than \$30 million; three others (Linn, Polk, Scott) each gained more than \$1 billion from 1982 to 1992.

When inflation is taken into account, however, increases in total personal income show a somewhat different pattern (Table 2). Adjusted income increased between 1982 and 1992 but not annually. Instead, only 6 of the 10 year-to-year comparisons produced gains; the total increase for the period was \$5.9 billion or 13.0 percent. County patterns also differed; 17 counties had lower total personal income in 1992 than in 1982 after inflation was included in the calculations. In general, declines in adjusted total income occurred in rural counties although the list includes Black Hawk and Webster. Black Hawk's decrease was more than \$65 million, which was the highest drop in these 17 counties. Gains in adjusted income in the remaining 82 counties were greatest in Polk (+\$1.7 billion), Linn (+\$585 million), and Johnson (+\$483 million); six others increased by at least \$100 million from 1982 to 1992.

Nonfarm Earnings

Of the four categories that are summed to yield total personal income, nonfarm earnings constitutes by far the largest share (\$31.4 billion, or 61.3% of the total in 1992). Statewide, nonfarm

Table 1. Total Personal Income (in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	136283	124795	127099	121819	104931	106378	107343	96331	89883	77751	83539
Adams	74158	68509	69835	66536	57025	63980	61292	54376	49558	48443	51174
Allamakee	210988	191297	199182	183932	163188	169706	158564	147967	147942	117037	123428
Appanoose	202974	190266	183497	172230	158888	154561	145995	136918	134771	131846	133100
Audubon	127175	119835	115526	112536	96030	101688	91132	90596	82567	66072	72849
Benton	376919	347164	345376	328646	288754	296263	288924	264617	264480	235196	236156
Black Hawk	2174926	2035026	1972132	1837708	1694820	1604778	1536987	1557240	1575277	1545333	1541187
Boone	477209	441846	425440	411934	369905	363324	343003	321974	306565	296052	287372
Bremer	389785	359348	352843	325545	294984	289349	278373	279576	275902	251411	249159
Buchanan	339085	317759	311917	285274	251776	258180	230969	229028	228647	193101	203604
Buena Vista	342356	319105	311758	301345	273956	266326	267229	256582	234739	214718	215291
Butler	256763	237034	234532	204476	192942	202365	193270	196316	190899	161331	161533
Calhoun	201109	175811	175235	175586	161745	156528	154806	150444	144255	139856	138281
Carroll	398050	368317	353798	335554	316190	311832	292381	284568	278365	253941	255600
Cass	260489	241689	236818	231599	204980	207573	202091	198939	194883	178891	176949
Cedar	316932	295407	293952	276661	245567	245275	227227	227250	229273	193579	193528
Cerro Gordo	837828	800261	781947	709285	679845	662829	635771	614424	597118	556793	530655
Cherokee	241494	233473	228522	212905	202155	194158	186061	178591	172404	152746	156159
Chickasaw	225277	209357	207254	193541	177190	182798	171541	166584	164725	140896	140946
Clarke	119665	111320	113418	107560	96035	96261	90360	84609	77162	75294	77851
Clay	310886	286608	291477	276102	255710	242712	235459	222916	208782	196129	197091
Clayton	302151	274097	284594	261350	227960	240520	226600	210716	212947	153714	167758
Clinton	890513	827716	807047	758281	695953	675850	646664	640058	639877	584190	587340
Crawford	282527	261785	252424	233945	221921	216907	209555	196838	196279	170824	179616
Dallas	601592	555768	527951	497412	448621	430255	404874	383118	374716	357057	342159
Davis	119388	111377	113005	98209	89396	90504	88156	83683	82773	75300	77499
Decatur	107198	101026	101049	98153	84282	88503	84996	81146	74379	66582	70881
Delaware	299844	279766	289203	255730	226739	241110	218073	201138	199781	148686	156200
Des Moines	764572	726416	709532	657527	617358	599132	580345	564956	552551	511397	500690
Dickinson	298717	275994	272845	254217	226582	215163	204291	191737	194579	171477	166689
Dubuque	1584859	1470897	1427384	1323305	1233336	1195165	1114650	1081774	1045925	944762	926191
Emmet	188801	171201	172985	160787	148377	147437	145642	144362	137320	127909	130042
Fayette	336991	316387	316041	292453	256734	270231	251547	248485	254067	214688	213136
Floyd	288385	271960	271700	242887	226862	229833	220478	213357	214575	189603	189685
Franklin	197900	172750	180098	168446	154827	161388	162518	148342	142742	123231	121581
Fremont	137225	124477	121168	116994	112855	108389	115955	110152	98203	104932	96003
Greene	181376	158391	151547	155853	136393	145637	144426	133926	128209	131647	129186
Grundy	230216	210696	205754	185768	174260	181602	173659	169334	169032	159361	160979
Guthrie	193258	178770	174523	166193	144013	147030	137440	133368	125658	108279	114129
Hamilton	306108	285760	269733	277014	226547	238283	235376	225338	212259	208622	204426
Hancock	201241	178290	191566	173111	166444	163452	169633	166367	160080	145051	143522
Hardin	335085	308093	307279	282053	258860	276167	275775	265088	255785	236014	230091
Harrison	239070	212314	206023	191552	180530	177105	176297	178851	164039	149440	153530
Henry	329514	307022	299181	271149	253453	245484	234664	222687	208820	189173	188687
Howard	155589	145897	146246	135844	117043	127908	123407	113326	120140	95594	95478
Humboldt	186048	162930	168635	171204	147455	146206	142254	134771	136015	124725	128725
Ida	146171	131360	133210	128100	118987	115405	108228	106190	101879	75395	81858
Iowa	282370	253628	242234	226061	201372	211352	191354	191617	191835	152015	149110
Jackson	322463	293424	292227	273778	248551	250915	231265	227679	229299	191807	197101
Jasper	637584	596330	588903	553768	511485	511235	482810	463591	455864	416174	400509

Table 1. Total Personal Income (in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	264621	247142	249072	230661	208841	208690	199152	181750	174638	144363	140760
Johnson	1836195	1730047	1652445	1531893	1361472	1272192	1212925	1135654	1082082	991872	930760
Jones	285985	264093	270288	251844	223577	224351	209835	205171	204632	168773	171327
Keokuk	190276	178690	178315	170158	146776	166885	152402	148633	144561	124586	124921
Kossuth	314595	263060	289261	289282	266009	261084	264631	243802	237802	219652	210757
Lee	661644	620905	593933	559584	522703	508744	510480	503279	491593	455365	446766
Linn	3534360	3310377	3192165	3002296	2753279	2579099	2433814	2316706	2193831	2072644	2028408
Louisa	197919	179045	180404	165265	149400	149562	143036	135135	134543	113826	125246
Lucas	147511	138893	137530	132129	123300	119884	116017	109433	106258	99951	101210
Lyon	184868	174401	169553	165216	141540	148189	144133	142438	138539	118009	124941
Madison	217445	199891	198295	185598	165589	160823	153333	144844	135695	123508	126696
Mahaska	354461	330558	328037	304113	275562	284069	273330	259198	245264	219500	226005
Marion	540364	509916	498053	464835	433350	425596	394796	375066	362380	344940	329256
Marshall	709267	681536	661655	629313	560330	559097	542504	532324	520156	498927	484196
Mills	270715	255707	245219	227459	217360	204886	191819	176059	158032	142801	140991
Mitchell	199592	188495	191675	175546	153110	167222	158097	146127	143782	119118	116287
Monona	164418	144702	147565	142178	125994	123056	124818	121479	115640	104751	118434
Monroe	136674	129349	123936	112627	106195	102022	93050	92066	88910	81317	82515
Montgomery	207604	195834	190324	184602	165509	161422	159863	153027	149398	139726	142409
Muscatine	787834	729337	708132	653127	611010	585387	566880	555882	542933	499249	489799
O'Brien	268668	258194	253755	240518	229764	220218	214451	205164	196901	179095	178571
Osceola	116445	111256	108788	103007	95588	92868	88279	82462	82653	74450	73897
Page	299331	276543	270192	257405	227794	229331	229579	211448	194283	188804	184153
Palo Alto	173335	153386	161532	151468	141685	145998	144174	143369	125287	117835	122822
Plymouth	426445	400258	385247	355502	304290	321960	293012	287203	270709	223744	235103
Pocahontas	162801	144241	144010	147377	131523	130615	140853	139918	115387	106628	117709
Polk	7548348	7028839	6675119	6166787	5665877	5198616	4910497	4694860	4489004	4219180	4018816
Pottawattamie	1389331	1306733	1249660	1167031	1119951	1085910	1063346	1040879	1004347	933856	899862
Poweshiek	335790	315314	311301	293546	265046	266585	249415	227140	225002	200012	198837
Ringgold	79793	72290	72904	72715	61080	64889	62412	54448	49669	49037	54254
Sac	207203	186776	187257	179356	166038	162827	168631	152236	150149	132593	141833
Scott	2977533	2817426	2722978	2507151	2327186	2231676	2155038	2120855	2067006	1928055	1908313
Shelby	223921	212254	206485	195573	177469	177594	166109	172272	164326	136366	144284
Sioux	491947	461546	435845	411800	366635	371292	355929	360475	348252	286631	272870
Story	1277817	1206387	1145802	1084488	985491	952947	906837	869496	817894	753847	715906
Tama	285622	268671	271274	252876	238030	243277	233456	225498	218700	190779	200571
Taylor	97620	90481	87828	83153	74529	83312	83404	79905	69216	68170	74488
Union	200194	186358	185363	174138	161465	157058	152865	148284	141538	136623	138233
Van Buren	108974	98792	97972	90431	81318	84325	80376	77065	73069	66095	68855
Wapello	592885	557816	537699	502834	458022	442245	431505	431643	425451	400024	396745
Warren	647596	598596	574263	528511	489938	459024	432972	419004	398524	372417	360813
Washington	350250	334838	329439	298399	264180	276128	264595	264110	264708	231724	232924
Wayne	103665	95471	96360	92465	83558	88629	85993	80330	75860	70870	71891
Webster	701378	655282	616694	595471	538002	526882	526862	499573	490434	489020	488695
Winnebago	218431	192900	203062	194425	191957	182428	175452	167055	166500	138421	128262
Winneshiek	346482	320230	321272	290683	253141	260249	241547	223027	222769	168957	172948
Woodbury	1853120	1698642	1614505	1510381	1413997	1358154	1272265	1237879	1190595	1132537	1108634
Worth	126321	117016	124561	114988	108711	111081	107306	104533	104288	85043	82815
Wright	240015	218095	221960	230375	203937	201491	202293	197397	206394	188188	184062

State of Iowa 51224716 47695358 46374629 43352498 39680920 38564901 36884078 35587442 34447409 31605944 31167103

Table 2. Adjusted Total Personal Income (1992 dollars in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	136283	128552	136435	137832	124445	131381	137411	125606	121372	109523	121456
Adams	74158	70571	74964	75282	67630	79018	78460	70901	66920	68238	74401
Allamakee	210988	197056	213812	208110	193536	209593	202979	192935	199772	164862	179450
Appanoose	202974	195994	196975	194870	188436	190888	186890	178528	181986	185723	193512
Audubon	127175	123442	124011	127329	113888	125588	116659	118128	111493	93071	105914
Benton	376919	357615	370744	371847	342453	365895	369854	345035	357137	331305	343344
Black Hawk	2174926	2096286	2116986	2079278	2010002	1981957	1967512	2030490	2127155	2176809	2240710
Boone	477209	455147	456689	466083	438695	448718	439081	419823	413966	417029	417806
Bremer	389785	370165	378760	368338	349842	357356	356348	364540	372561	354146	362249
Buchanan	339085	327324	334828	322774	298598	318861	295666	298630	308750	272009	296017
Buena Vista	342356	328711	334657	340957	324903	328922	342082	334558	316977	302459	313009
Butler	256763	244169	251759	231355	228823	249928	247407	255977	257778	227256	234851
Calhoun	201109	181103	188106	198667	191824	193318	198169	196164	194793	197006	201045
Carroll	398050	379404	379785	379663	374991	385124	374280	371049	375887	357710	371613
Cass	260489	248965	254212	262043	243100	256360	258699	259397	263158	251992	257264
Cedar	316932	304300	315543	313029	291235	302923	290875	296312	309596	272682	281368
Cerro Gordo	837828	824351	839382	802522	806274	818617	813856	801150	806310	784318	771512
Cherokee	241494	240501	245307	240892	239749	239792	238178	232865	232803	215163	227037
Chickasaw	225277	215659	222477	218982	210142	225762	219591	217209	222434	198471	204919
Clarke	119665	114671	121749	121699	113894	118886	115671	110322	104195	106062	113186
Clay	310886	295236	312886	312396	303264	299758	301413	290661	281926	276274	286548
Clayton	302151	282348	305498	295705	270353	297051	290073	274753	287550	216527	243901
Clinton	890513	852633	866325	857958	825378	834699	827801	834574	864050	822910	853925
Crawford	282527	269665	270965	264697	263191	267888	268253	256658	265043	240629	261141
Dallas	601592	572498	566729	562798	532050	531380	518283	499549	505993	502963	497460
Davis	119388	114730	121305	111119	106021	111776	112849	109115	111771	106070	112675
Decatur	107198	104067	108471	111055	99956	109304	108804	105807	100437	93790	103053
Delaware	299844	288188	310445	289346	268905	297779	279157	262265	269772	209444	227097
Des Moines	764572	748283	761648	743960	732167	739949	742905	736648	746130	720371	727946
Dickinson	298717	284302	292886	287634	268719	265734	261515	250007	262747	241548	242347
Dubuque	1584859	1515175	1532226	1497256	1462697	1476071	1426874	1410529	1412351	1330824	1346576
Emmet	188801	176355	185691	181923	175970	182090	186438	188234	185428	180177	189066
Fayette	336991	325911	339254	330896	304478	333745	322008	324000	343076	302417	309875
Floyd	288385	280147	291657	274815	269051	283852	282236	278197	289749	267081	275780
Franklin	197900	177950	193326	190588	183620	199320	208041	193424	192750	173587	176765
Fremont	137225	128224	130068	132373	133842	133864	148435	143628	132607	147811	139577
Greene	181376	163159	162678	176340	161758	179867	184881	174627	173125	185443	187822
Grundy	230216	217039	220867	210188	206667	224285	222303	220795	228250	224481	234045
Guthrie	193258	184151	187342	188039	170795	181587	175938	173899	169681	152526	165931
Hamilton	306108	294362	289545	313428	268677	294288	301307	293819	286621	293872	297212
Hancock	201241	183657	205637	195867	197397	201869	217149	216926	216162	204324	208665
Hardin	335085	317367	329849	319129	307000	341076	353022	345649	345396	332457	334526
Harrison	239070	218705	221156	216732	214103	218731	225679	233204	221508	210506	223215
Henry	329514	316264	321156	306792	300587	303181	300396	290362	281977	266476	274329
Howard	155589	150289	156988	153701	138809	157971	157974	147766	162229	134657	138814
Humboldt	186048	167835	181021	193709	174877	180570	182101	175728	183666	175692	187151
Ida	146171	135314	142994	144939	141115	142529	138544	138461	137571	106204	119012
Iowa	282370	261263	260026	255777	238821	261027	244954	249850	259042	214134	216789
Jackson	322463	302257	313691	309767	294774	309889	296045	296871	309631	270186	286562
Jasper	637584	614281	632158	626562	606605	631393	618050	604478	615570	586237	582294

Table 2. Adjusted Total Personal Income (1992 dollars in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	264621	254582	267367	260982	247679	257739	254936	236984	235820	203355	204649
Johnson	1836195	1782126	1773818	1733263	1614662	1571202	1552677	1480783	1461175	1397185	1353219
Jones	285985	272043	290141	284949	265155	277081	268612	267523	276322	237739	249090
Keokuk	190276	184069	191412	192526	174072	206109	195091	193803	195206	175496	181621
Kossuth	314595	270979	310507	327309	315478	322448	338757	317894	321113	309409	306417
Lee	661644	639596	637558	633142	619909	628317	653470	656227	663816	641443	649547
Linn	3534360	3410029	3426632	3396953	3265300	3185278	3115548	3020761	2962411	2919598	2949074
Louisa	197919	184435	193655	186989	177184	184714	183102	176203	181678	160339	182093
Lucas	147511	143074	147632	149498	146230	148061	148514	142690	143484	140794	147148
Lyon	184868	179651	182007	186934	167862	183019	184506	185725	187074	166232	181650
Madison	217445	205908	212860	209995	196383	198622	196283	188863	183234	173978	184202
Mahaska	354461	340509	352132	344089	326808	350835	349892	337969	331189	309195	328586
Marion	540364	525266	534635	525938	513939	525626	505382	489050	489335	485894	478701
Marshall	709267	702052	710254	712037	664533	690504	694465	694099	702386	702806	703966
Mills	270715	263404	263230	257359	257782	253041	245549	229564	213396	201154	204985
Mitchell	199592	194169	205754	198622	181584	206525	202381	190535	194154	167794	169068
Monona	164418	149058	158404	160868	149425	151978	159781	158397	156153	147556	172190
Monroe	136674	133243	133039	127432	125944	126001	119114	120045	120058	114546	119967
Montgomery	207604	201729	204303	208868	196288	199362	204642	199532	201738	196823	207046
Muscatine	787834	751292	760145	738982	724638	722974	725668	724816	733142	703259	712112
O'Brien	268668	265966	272393	272134	272493	271977	274521	267514	265883	252279	259622
Osceola	116445	114605	116779	116547	113364	114695	113007	107522	111609	104873	107438
Page	299331	284868	290038	291241	270156	283232	293886	275708	262347	265956	267737
Palo Alto	173335	158003	173397	171379	168034	180313	184559	186939	169180	165986	178569
Plymouth	426445	412307	413544	402233	360878	397632	375087	374485	365548	315174	341813
Pocahontas	162801	148583	154588	166750	155982	161314	180307	182440	155811	150200	171135
Polk	7548348	7240427	7165411	6977421	6719548	6420474	6285974	6121644	6061668	5943283	5842900
Pottawattamie	1389331	1346069	1341448	1320439	1328226	1341137	1361199	1357206	1356207	1315462	1308297
Poweshiek	335790	324806	334166	332133	314336	329242	319279	296169	303828	281744	289086
Ringgold	79793	74466	78259	82274	72439	80140	79894	70995	67070	69075	78879
Sac	207203	192398	201011	202933	196916	201097	215866	198501	202752	186775	206209
Scott	2977533	2902238	2922983	2836720	2759968	2756198	2758685	2765390	2791154	2715925	2774470
Shelby	223921	218643	221651	221281	210473	219335	212638	224626	221895	192090	209772
Sioux	491947	475440	467858	465932	434817	458559	455628	470025	470258	403758	396722
Story	1277817	1242703	1229962	1227046	1168761	1176923	1160851	1133739	1104432	1061895	1040846
Tama	285622	276759	291199	286117	282296	300456	298849	294028	295319	268738	291607
Taylor	97620	93205	94279	94084	88389	102893	106766	104188	93465	96027	108297
Union	200194	191968	198978	197029	191492	193972	195684	193348	191124	192452	200975
Van Buren	108974	101766	105168	102318	96441	104144	102890	100485	98668	93104	100107
Wapello	592885	574608	577193	568932	543199	546188	552374	562821	574502	563488	576822
Warren	647596	616615	616443	597985	581051	566911	554252	546341	538142	524599	524581
Washington	350250	344918	353637	337624	313309	341028	338711	344374	357445	326414	338645
Wayne	103665	98345	103438	104620	99097	109460	110080	104743	102437	99830	104521
Webster	701378	675008	661991	673747	638053	650718	674441	651395	662251	688850	710507
Winnebago	218431	198707	217977	219982	227655	225305	224598	217824	224831	194985	186478
Winneshiek	346482	329870	344870	328894	300217	321417	309207	290806	300813	237999	251447
Woodbury	1853120	1749776	1733091	1708923	1676955	1677368	1628638	1614075	1607704	1595331	1611827
Worth	126321	120539	133710	130103	128928	137189	137363	136301	140824	119795	120404
Wright	240015	224660	238263	260658	241863	248848	258957	257387	278701	265088	267605

State of Iowa 51224716 49131121 49780876 49051254 47060297 47629011 47215658 46402585 46515606 44521224 45313415

Table 3. Nonfarm Earnings (in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	63463	58320	56290	51694	49577	45198	41757	40502	39406	38250	36003
Adams	32277	30441	29514	28478	27329	25686	24675	24776	25529	24698	22464
Allamakee	102725	95765	91491	87253	82845	80124	75060	72794	72226	67613	63385
Appanoose	104073	98651	89832	83438	79660	74860	70128	67277	67521	66942	66626
Audubon	55045	51805	47558	44845	42190	37651	36287	35933	36438	34064	31531
Benton	222475	206946	198910	187649	175383	160664	152447	145684	142101	133068	127887
Black Hawk	1409719	1310380	1264921	1183592	1108236	1009960	930061	964950	1009012	1003973	1034473
Boone	253677	235174	227838	216381	203469	188481	180353	176192	171767	163903	158314
Bremer	234388	217148	206536	191210	178329	162798	152501	157996	160591	155873	152884
Buchanan	180183	169411	163305	151805	142555	128820	117964	118401	119832	115819	118165
Buena Vista	174025	163624	154375	150168	138821	130035	126433	123272	121333	112013	99041
Butler	127888	119459	114476	105174	97772	92893	85281	86209	87131	81212	78766
Calhoun	80916	76228	72848	70436	64233	59469	56830	57455	59343	57752	54917
Carroll	195989	179117	166908	156934	151611	143085	139305	138344	141451	135906	126826
Cass	119108	111426	108552	105978	101707	95519	93936	94534	96576	93831	87917
Cedar	176033	165304	157168	147408	138641	128330	122932	120996	120578	114313	110794
Cerro Gordo	494437	477584	455853	426916	411747	382235	362408	358465	352727	339219	322477
Cherokee	112762	107826	102505	94135	90237	86189	86107	87429	85654	83350	80239
Chickasaw	123334	115394	110840	107726	100874	94325	89197	86411	85364	81044	78519
Clarke	65942	62610	61485	60613	53684	49916	47209	44115	43434	42313	39522
Clay	175642	163830	160645	150183	141485	128241	119323	116479	114562	111977	106011
Clayton	136851	125585	120390	112882	107311	98657	94877	91635	91723	87746	82227
Clinton	543374	505466	480827	453060	428820	398344	382331	380713	383313	373318	376722
Crawford	134591	123855	117188	114681	115560	112182	108035	105979	104126	99439	93126
Dallas	406164	372479	349581	320586	306788	278720	256346	248688	241076	232945	218502
Davis	63650	59431	57963	53242	49025	44747	42987	43487	44082	42265	40720
Decatur	51324	50023	48707	48818	42939	43555	41734	41712	39278	35754	35233
Delaware	148640	140091	135357	123803	116568	104430	95643	92528	93303	88888	83771
Des Moines	485238	462500	446084	415851	391977	375920	351877	335951	328535	315325	308285
Dickinson	161705	144261	140281	125008	111979	101720	94733	90399	96967	87910	81012
Dubuque	994773	912114	866767	813021	774086	736164	666514	663366	638021	590247	569798
Emmet	95904	89793	85130	76795	73576	68450	64767	65888	68973	62974	64460
Fayette	158883	149226	142926	134405	128013	120991	116324	118362	121966	117392	114372
Floyd	140303	133553	128967	122981	114977	107577	100509	96200	100572	92117	91166
Franklin	82912	77734	76124	71013	67011	62618	61506	60092	60111	56939	54268
Fremont	58615	54455	51334	49666	49284	48674	46158	47373	49251	48785	46661
Greene	71950	65133	61286	59367	57589	55521	53361	52834	53144	52397	49863
Grundy	118757	109762	104873	96495	88866	84163	78595	80799	82844	80207	80710
Guthrie	93897	88678	84476	77041	71759	66279	62833	60993	59895	56394	52675
Hamilton	157158	150978	141505	137687	130335	119936	115082	112474	112054	107791	103141
Hancock	91707	87225	86323	83614	80092	73180	68962	69374	71574	64385	59219
Hardin	160199	151046	148385	133919	128269	126055	124896	123748	123386	119256	116972
Harrison	120583	111901	107553	99914	93997	88628	85703	81675	79427	75065	69524
Henry	203569	188985	179260	167075	155035	143555	133128	126244	120662	112654	107988
Howard	71844	66811	62256	57337	54676	52691	49141	47569	47678	44980	43053
Humboldt	84244	78895	76296	72899	68587	63825	60142	59612	59666	57275	55089
Ida	67296	61477	59294	56149	54447	50114	45361	44505	42714	40155	36770
Iowa	165582	147301	134956	126964	117020	108862	101263	98009	98420	87569	79421
Jackson	174539	161158	152864	142491	134691	127757	120821	117998	116966	110534	108360
Jasper	385040	361611	355546	336705	316186	297793	276477	265634	257927	243566	226499

Table 3. Nonfarm Earnings (in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	159883	149325	145514	136768	131597	121828	111118	100986	95048	83552	76455
Johnson	1372483	1285736	1215051	1132132	1024189	931763	875293	823392	783589	741138	681999
Jones	158549	147232	141584	131447	121133	111480	104930	100945	98723	94905	91976
Keokuk	80940	76429	73769	69149	64803	62728	61767	62035	59965	55377	52723
Kossuth	139847	131137	130242	124047	114007	107214	104103	103656	103205	96228	91860
Lee	390709	368424	357020	338878	319086	302835	299678	296207	297499	280590	272816
Linn	2495177	2316449	2227745	2091873	1957555	1791387	1659888	1582290	1489387	1410367	1367480
Louisa	121065	112947	107998	101736	91310	86134	79011	73003	70390	68487	73296
Lucas	80248	76598	73104	71791	67275	64261	62660	61002	59463	57694	55335
Lyon	82842	76149	71808	67557	62986	58972	55979	54508	53591	50484	47152
Madison	130163	121809	117894	107387	101634	93280	85603	81220	78963	74053	70231
Mahaska	192026	177728	175088	160500	151529	143364	136542	130931	126573	118905	110535
Marion	332542	312138	302410	287280	270569	255908	230456	219509	212240	201674	184510
Marshall	436707	422019	402923	376629	348956	328937	317460	319208	318171	307803	303834
Mills	134591	128867	124216	118007	111440	103250	97650	95909	92131	86733	81997
Mitchell	91479	84789	81148	75151	69401	68076	62968	61047	60513	56639	53477
Monona	71113	65752	61676	58951	53469	50087	49180	48849	49500	47106	43629
Monroe	76858	71879	67803	61307	59228	56273	50932	52001	48415	43129	42013
Montgomery	100048	96899	94348	89975	84508	78890	74139	75253	76862	71380	66031
Muscatine	503713	465314	446435	418576	393254	372197	355775	348903	342442	325657	324486
O'Brien	123520	114250	108929	100459	97810	90488	85448	83333	82090	77457	73525
Osceola	50069	46751	44157	39900	37503	35484	34247	34158	34777	34198	32745
Page	146703	134301	130660	125529	116645	109588	105573	101867	100537	92425	88272
Palo Alto	74048	68257	65660	63851	60046	57999	55686	54730	56083	53667	52344
Plymouth	223263	206098	192124	175068	157834	155246	137622	131929	129991	126511	118795
Pocahontas	68513	64637	63148	60520	55674	51843	49887	47486	47210	43564	40754
Polk	5456094	5027139	4772248	4409262	4082104	3700118	3440648	3288096	3155001	2940249	2778270
Pottawattamie	909219	858250	826276	783496	752755	712398	690335	669643	657547	627256	590160
Poweshiek	197199	187654	179787	170105	161040	149363	137892	130905	126329	117037	108520
Ringgold	34111	31333	29744	28633	25789	24332	24618	23966	23850	23645	22252
Sac	78758	74140	69804	65771	61195	58101	57338	57675	60199	58992	56375
Scott	2036900	1920953	1849543	1714758	1602399	1530843	1461561	1453145	1425986	1331236	1320052
Shelby	98758	93249	87057	83355	81201	74727	73562	73594	73256	72154	67902
Sioux	254427	232818	220026	202221	186061	169707	161426	162265	161572	154019	144425
Story	883977	832268	798019	747875	684601	638529	598209	577715	543045	498750	471884
Tama	149386	144149	140826	133329	126296	118583	113275	111874	108973	102189	101818
Taylor	39976	37804	35623	32844	31907	30122	29657	29109	29091	28554	28206
Union	107661	98803	96182	92138	86563	80257	78832	75765	75455	73175	72316
Van Buren	55984	50982	49288	46489	42348	40483	38061	37080	36131	33807	32569
Wapello	348936	329275	320389	298514	274139	256470	243868	256049	256579	238074	238302
Warren	473854	438396	419129	385505	361061	329522	310088	298164	287452	267415	252725
Washington	188790	177485	169702	157703	145477	132747	125158	122139	119262	110229	103765
Wayne	44339	41406	40887	38428	36074	35384	34561	32591	32376	30232	29261
Webster	386195	364107	346519	322408	302454	283101	275143	274971	277934	270327	269487
Winnebago	118609	106842	105011	104118	104362	93718	87536	85706	87985	76365	67671
Winneshiek	194394	182019	168346	151913	140795	130945	121710	115937	111905	102984	95281
Woodbury	1201701	1089399	1038843	970707	908383	853513	789211	771327	750168	730835	693874
Worth	61067	57679	56592	53604	52876	48797	46044	45791	47290	44533	41421
Wright	106336	101913	99874	99163	92851	86938	85697	88377	100659	92162	85487
State of Iowa	31397163	29247947	27986518	26162292	24476020	22733797	21378325	20868296	20455633	19365347	18616661

Table 4. Adjusted Nonfarm Earnings (1992 dollars in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	63463	60076	60425	58489	58797	55821	53454	52811	53211	53880	52344
Adams	32277	31357	31682	32221	32411	31723	31587	32306	34473	34790	32660
Allamakee	102725	98648	98211	98723	98252	98956	96085	94916	97529	95242	92155
Appanoose	104073	101621	96430	94406	94474	92455	89772	87723	91176	94297	96867
Audubon	55045	53364	51051	50740	50036	46500	46451	46853	49204	47984	45842
Benton	222475	213176	213520	212316	207999	198426	195149	189958	191884	187444	185933
Black Hawk	1409719	1349826	1357830	1339177	1314332	1247336	1190580	1258202	1362506	1414231	1504006
Boone	253677	242253	244573	244825	241308	232781	230872	229737	231943	230879	230171
Bremer	234388	223685	221706	216345	211492	201061	195218	206012	216852	219568	222276
Buchanan	180183	174511	175300	171760	169066	159097	151007	154383	161814	163147	171798
Buena Vista	174025	168550	165714	169908	164637	160598	161848	160735	163840	157785	143994
Butler	127888	123055	122884	118999	115954	114726	109169	112408	117656	114398	114517
Calhoun	80916	78523	78199	79695	76178	73446	72749	74916	80133	81351	79843
Carroll	195989	184509	179168	177563	179806	176715	178326	180387	191006	191442	184391
Cass	119108	114780	116525	119909	120621	117969	120248	123263	130410	132174	127821
Cedar	176033	170280	168712	166785	164424	158492	157366	157767	162821	161025	161082
Cerro Gordo	494437	491961	489336	483035	488319	472074	463922	467404	476300	477836	468845
Cherokee	112762	111072	110034	106509	107018	106446	110226	113999	115662	117410	116658
Chickasaw	123334	118868	118981	121887	119633	116495	114182	112672	115270	114161	114158
Clarke	65942	64495	66001	68581	63667	61648	60433	57522	58651	59604	57460
Clay	175642	168762	172444	169925	167797	158382	152747	151877	154697	157735	154128
Clayton	136851	129365	129233	127721	127267	121845	121453	119483	123857	123602	119549
Clinton	543374	520682	516144	512615	508567	491969	489426	496413	517602	525869	547711
Crawford	134591	127583	125796	129756	137050	138549	138297	138186	140605	140073	135395
Dallas	406164	383692	375258	362728	363841	344229	328151	324265	325534	328134	317677
Davis	63650	61220	62220	60241	58142	55264	55028	56703	59526	59536	59202
Decatur	51324	51529	52285	55235	50924	53792	53424	54388	53039	50364	51225
Delaware	148640	144308	145299	140077	138246	128975	122434	120648	125990	125211	121793
Des Moines	485238	476423	478849	470515	464872	464274	450441	438048	443633	444178	448211
Dickinson	161705	148604	150585	141441	132803	125628	121269	117872	130938	123833	117782
Dubuque	994773	939571	930432	919894	918041	909188	853211	864965	861543	831442	828421
Emmet	95904	92496	91383	86890	87259	84538	82909	85912	93137	88707	93717
Fayette	158883	153718	153424	152073	151819	149428	148907	154333	164695	165362	166284
Floyd	140303	137573	138440	139147	136359	132861	128663	125436	135806	129759	132545
Franklin	82912	80074	81715	80348	79473	77335	78734	78354	81170	80206	78899
Fremont	58615	56094	55105	56195	58449	60114	59087	61770	66505	68720	67840
Greene	71950	67094	65787	67171	68299	68570	68308	68890	71762	73808	72495
Grundy	118757	113066	112576	109179	105392	103944	100610	105354	111867	112982	117343
Guthrie	93897	91347	90681	87168	85104	81857	80433	79529	80878	79439	76583
Hamilton	157158	155523	151899	155786	154573	148125	147318	146655	151311	151838	149955
Hancock	91707	89851	92663	94605	94987	90380	88279	90457	96649	90695	86098
Hardin	160199	155593	159284	151523	152123	155682	159881	161355	166613	167988	170064
Harrison	120583	115270	115453	113048	111477	109459	109709	106496	107253	105739	101080
Henry	203569	194674	192427	189037	183867	177295	170418	164610	162934	158688	157002
Howard	71844	68822	66829	64874	64844	65075	62906	62025	64381	63360	62594
Humboldt	84244	81270	81900	82482	81342	78826	76988	77728	80569	80680	80093
Ida	67296	63328	63649	63530	64572	61893	58067	58030	57678	56564	53459
Iowa	165582	151735	144869	143654	138782	134448	129628	127794	132900	123353	115469
Jackson	174539	166009	164092	161222	159739	157784	154664	153858	157944	155702	157543
Jasper	385040	372497	381661	380965	374986	367785	353921	346361	348288	343095	329304

Table 4. Adjusted Nonfarm Earnings (1992 dollars in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	159883	153820	156202	154746	156070	150462	142243	131676	128347	117694	111157
Johnson	1372483	1324440	1304297	1280953	1214655	1150760	1120471	1073624	1058109	1043993	991549
Jones	158549	151664	151983	148726	143660	137682	134322	131623	133309	133686	133723
Keokuk	80940	78730	79187	78239	76854	77471	79069	80888	80973	78006	76653
Kossuth	139847	135085	139808	140353	135209	132413	133263	135157	139362	135550	133554
Lee	390709	379515	383243	383424	378426	374012	383621	386225	401724	395249	396643
Linn	2495177	2386181	2391374	2366853	2321597	2212426	2124838	2063153	2011174	1986692	1988160
Louisa	121065	116347	115931	115109	108291	106379	101143	95189	95050	96473	106564
Lucas	80248	78904	78474	81228	79786	79365	80212	79541	80295	81270	80451
Lyon	82842	78441	77082	76437	74699	72832	71659	71073	72366	71114	68554
Madison	130163	125476	126553	121503	120535	115204	109581	105903	106627	104314	102108
Mahaska	192026	183078	187948	181598	179709	177060	174789	170721	170916	167494	160705
Marion	332542	321534	324622	325043	320886	316055	295009	286219	286595	284085	268257
Marshall	436707	434723	432518	426137	413851	406249	406384	416216	429638	433582	441740
Mills	134591	132746	133340	133519	132164	127517	125003	125056	124408	122175	119214
Mitchell	91479	87341	87108	85030	82307	84076	80606	79599	81713	79784	77749
Monona	71113	67731	66206	66700	63413	61859	62956	63694	66842	66355	63432
Monroe	76858	74043	72783	69366	70243	69499	65199	67804	65377	60753	61082
Montgomery	100048	99816	101278	101802	100224	97432	94906	98123	103790	100548	96002
Muscatine	503713	479321	479226	473598	466387	459676	455431	454936	462412	458732	471766
O'Brien	123520	117689	116930	113664	116000	111756	109383	108658	110849	109109	106897
Osceola	50069	48158	47400	45145	44477	43824	43840	44539	46961	48172	47607
Page	146703	138344	140257	142030	138337	135345	135145	132825	135759	130193	128337
Palo Alto	74048	70312	70483	72244	71213	71631	71284	71363	75731	75597	76102
Plymouth	223263	212302	206236	198081	187186	191734	176171	172023	175532	178208	172714
Pocahontas	68513	66583	67786	68475	66028	64028	63861	61917	63749	61366	59252
Polk	5456094	5178470	5122773	4988867	4841244	4569776	4404406	4287359	4260314	4141736	4039288
Pottawattamie	909219	884086	886967	886488	892743	879837	883704	873150	887910	883574	858025
Poweshiek	197199	193303	192992	192466	190988	184469	176517	170687	170587	164862	157776
Ringgold	34111	32276	31929	32397	30585	30051	31514	31249	32206	33307	32352
Sac	78758	76372	74931	74417	72575	71757	73399	75203	81289	83098	81963
Scott	2036900	1978779	1985393	1940166	1900394	1890645	1870958	1894761	1925561	1875225	1919205
Shelby	98758	96056	93451	94312	96302	92290	94167	95959	98920	101639	98722
Sioux	254427	239826	236187	228803	220662	209594	206643	211578	218177	216956	209977
Story	883977	857322	856634	846184	811915	788606	765773	753285	733294	702556	686066
Tama	149386	148488	151170	150855	149783	146454	145004	145873	147150	143947	148032
Taylor	39976	38942	38240	37161	37841	37202	37964	37955	39283	40222	41008
Union	107661	101777	103247	104250	102661	99120	100914	98790	101890	103077	105139
Van Buren	55984	52517	52908	52600	50223	49998	48722	48349	48789	47622	47352
Wapello	348936	339187	343922	337754	325120	316749	312178	333863	346468	335359	346464
Warren	473854	451593	449914	436180	428207	406971	396947	388777	388157	376690	367433
Washington	188790	182828	182167	178433	172531	163947	160216	159257	161044	155272	150862
Wayne	44339	42652	43890	43479	42783	43700	44242	42496	43719	42586	42542
Webster	386195	375068	371971	364789	358701	349640	352213	358536	375305	380792	391803
Winnebago	118609	110058	112724	117804	123770	115745	112056	111752	118809	107570	98386
Winneshiek	194394	187498	180711	171882	166978	161722	155802	151171	151109	145067	138528
Woodbury	1201701	1122193	1115147	1098308	1077313	1054119	1010276	1005736	1012980	1029479	1008814
Worth	61067	59415	60749	60650	62709	60266	58941	59707	63857	62731	60221
Wright	106336	104981	107210	112198	110118	107371	109702	115235	135924	129823	124288

State of Iowa 31397163 30128392 30042146 29601367 29027774 28077040 27366597 27210241 27621995 27278697 27066503

Table 5. Percentage of Total Personal Income from Nonfarm Earnings in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	46.6	46.7	44.3	42.4	47.2	42.5	38.9	42.0	43.8	49.2	43.1
Adams	43.5	44.4	42.3	42.8	47.9	40.1	40.3	45.6	51.5	51.0	43.9
Allamakee	48.7	50.1	45.9	47.4	50.8	47.2	47.3	49.2	48.8	57.8	51.4
Appanoose	51.3	51.8	49.0	48.4	50.1	48.4	48.0	49.1	50.1	50.8	50.1
Audubon	43.3	43.2	41.2	39.8	43.9	37.0	39.8	39.7	44.1	51.6	43.3
Benton	59.0	59.6	57.6	57.1	60.7	54.2	52.8	55.1	53.7	56.6	54.2
Black Hawk	64.8	64.4	64.1	64.4	65.4	62.9	60.5	62.0	64.1	65.0	67.1
Boone	53.2	53.2	53.6	52.5	55.0	51.9	52.6	54.7	56.0	55.4	55.1
Bremer	60.1	60.4	58.5	58.7	60.5	56.3	54.8	56.5	58.2	62.0	61.4
Buchanan	53.1	53.3	52.4	53.2	56.6	49.9	51.1	51.7	52.4	60.0	58.0
Buena Vista	50.8	51.3	49.5	49.8	50.7	48.8	47.3	48.0	51.7	52.2	46.0
Butler	49.8	50.4	48.8	51.4	50.7	45.9	44.1	43.9	45.6	50.3	48.8
Calhoun	40.2	43.4	41.6	40.1	39.7	38.0	36.7	38.2	41.1	41.3	39.7
Carroll	49.2	48.6	47.2	46.8	47.9	45.9	47.6	48.6	50.8	53.5	49.6
Cass	45.7	46.1	45.8	45.8	49.6	46.0	46.5	47.5	49.6	52.5	49.7
Cedar	55.5	56.0	53.5	53.3	56.5	52.3	54.1	53.2	52.6	59.1	57.2
Cerro Gordo	59.0	59.7	58.3	60.2	60.6	57.7	57.0	58.3	59.1	60.9	60.8
Cherokee	46.7	46.2	44.9	44.2	44.6	44.4	46.3	49.0	49.7	54.6	51.4
Chickasaw	54.7	55.1	53.5	55.7	56.9	51.6	52.0	51.9	51.8	57.5	55.7
Clarke	55.1	56.2	54.2	56.4	55.9	51.9	52.2	52.1	56.3	56.2	50.8
Clay	56.5	57.2	55.1	54.4	55.3	52.8	50.7	52.3	54.9	57.1	53.8
Clayton	45.3	45.8	42.3	43.2	47.1	41.0	41.9	43.5	43.1	57.1	49.0
Clinton	61.0	61.1	59.6	59.7	61.6	58.9	59.1	59.5	59.9	63.9	64.1
Crawford	47.6	47.3	46.4	49.0	52.1	51.7	51.6	53.8	53.0	58.2	51.8
Dallas	67.5	67.0	66.2	64.5	68.4	64.8	63.3	64.9	64.3	65.2	63.9
Davis	53.3	53.4	51.3	54.2	54.8	49.4	48.8	52.0	53.3	56.1	52.5
Decatur	47.9	49.5	48.2	49.7	50.9	49.2	49.1	51.4	52.8	53.7	49.7
Delaware	49.6	50.1	46.8	48.4	51.4	43.3	43.9	46.0	46.7	59.8	53.6
Des Moines	63.5	63.7	62.9	63.2	63.5	62.7	60.6	59.5	59.5	61.7	61.6
Dickinson	54.1	52.3	51.4	49.2	49.4	47.3	46.4	47.1	49.8	51.3	48.6
Dubuque	62.8	62.0	60.7	61.4	62.8	61.6	59.8	61.3	61.0	62.5	61.5
Emmet	50.8	52.4	49.2	47.8	49.6	46.4	44.5	45.6	50.2	49.2	49.6
Fayette	47.1	47.2	45.2	46.0	49.9	44.8	46.2	47.6	48.0	54.7	53.7
Floyd	48.7	49.1	47.5	50.6	50.7	46.8	45.6	45.1	46.9	48.6	48.1
Franklin	41.9	45.0	42.3	42.2	43.3	38.8	37.8	40.5	42.1	46.2	44.6
Fremont	42.7	43.7	42.4	42.5	43.7	44.9	39.8	43.0	50.2	46.5	48.6
Greene	39.7	41.1	40.4	38.1	42.2	38.1	36.9	39.5	41.5	39.8	38.6
Grundy	51.6	52.1	51.0	51.9	51.0	46.3	45.3	47.7	49.0	50.3	50.1
Guthrie	48.6	49.6	48.4	46.4	49.8	45.1	45.7	45.7	47.7	52.1	46.2
Hamilton	51.3	52.8	52.5	49.7	57.5	50.3	48.9	49.9	52.8	51.7	50.5
Hancock	45.6	48.9	45.1	48.3	48.1	44.8	40.7	41.7	44.7	44.4	41.3
Hardin	47.8	49.0	48.3	47.5	49.6	45.6	45.3	46.7	48.2	50.5	50.8
Harrison	50.4	52.7	52.2	52.2	52.1	50.0	48.6	45.7	48.4	50.2	45.3
Henry	61.8	61.6	59.9	61.6	61.2	58.5	56.7	56.7	57.8	59.6	57.2
Howard	46.2	45.8	42.6	42.2	46.7	41.2	39.8	42.0	39.7	47.1	45.1
Humboldt	45.3	48.4	45.2	42.6	46.5	43.7	42.3	44.2	43.9	45.9	42.8
Ida	46.0	46.8	44.5	43.8	45.8	43.4	41.9	41.9	41.9	53.3	44.9
Iowa	58.6	58.1	55.7	56.2	58.1	51.5	52.9	51.1	51.3	57.6	53.3
Jackson	54.1	54.9	52.3	52.0	54.2	50.9	52.2	51.8	51.0	57.6	55.0
Jasper	60.4	60.6	60.4	60.8	61.8	58.2	57.3	57.3	56.6	58.5	56.6

Table 5. Percentage of Total Personal Income from Nonfarm Earnings in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	60.4	60.4	58.4	59.3	63.0	58.4	55.8	55.6	54.4	57.9	54.3
Johnson	74.7	74.3	73.5	73.9	75.2	73.2	72.2	72.5	72.4	74.7	73.3
Jones	55.4	55.8	52.4	52.2	54.2	49.7	50.0	49.2	48.2	56.2	53.7
Keokuk	42.5	42.8	41.4	40.6	44.2	37.6	40.5	41.7	41.5	44.4	42.2
Kossuth	44.5	49.9	45.0	42.9	42.9	41.1	39.3	42.5	43.4	43.8	43.6
Lee	59.1	59.3	60.1	60.6	61.0	59.5	58.7	58.9	60.5	61.6	61.1
Linn	70.6	70.0	69.8	69.7	71.1	69.5	68.2	68.3	67.9	68.0	67.4
Louisa	61.2	63.1	59.9	61.6	61.1	57.6	55.2	54.0	52.3	60.2	58.5
Lucas	54.4	55.1	53.2	54.3	54.6	53.6	54.0	55.7	56.0	57.7	54.7
Lyon	44.8	43.7	42.4	40.9	44.5	39.8	38.8	38.3	38.7	42.8	37.7
Madison	59.9	60.9	59.5	57.9	61.4	58.0	55.8	56.1	58.2	60.0	55.4
Mahaska	54.2	53.8	53.4	52.8	55.0	50.5	50.0	50.5	51.6	54.2	48.9
Marion	61.5	61.2	60.7	61.8	62.4	60.1	58.4	58.5	58.6	58.5	56.0
Marshall	61.6	61.9	60.9	59.8	62.3	58.8	58.5	60.0	61.2	61.7	62.8
Mills	49.7	50.4	50.7	51.9	51.3	50.4	50.9	54.5	58.3	60.7	58.2
Mitchell	45.8	45.0	42.3	42.8	45.3	40.7	39.8	41.8	42.1	47.5	46.0
Monona	43.3	45.4	41.8	41.5	42.4	40.7	39.4	40.2	42.8	45.0	36.8
Monroe	56.2	55.6	54.7	54.4	55.8	55.2	54.7	56.5	54.5	53.0	50.9
Montgomery	48.2	49.5	49.6	48.7	51.1	48.9	46.4	49.2	51.4	51.1	46.4
Muscatine	63.9	63.8	63.0	64.1	64.4	63.6	62.8	62.8	63.1	65.2	66.2
O'Brien	46.0	44.2	42.9	41.8	42.6	41.1	39.8	40.6	41.7	43.2	41.2
Osceola	43.0	42.0	40.6	38.7	39.2	38.2	38.8	41.4	42.1	45.9	44.3
Page	49.0	48.6	48.4	48.8	51.2	47.8	46.0	48.2	51.7	49.0	47.9
Palo Alto	42.7	44.5	40.6	42.2	42.4	39.7	38.6	38.2	44.8	45.5	42.6
Plymouth	52.4	51.5	49.9	49.2	51.9	48.2	47.0	45.9	48.0	56.5	50.5
Pocahontas	42.1	44.8	43.8	41.1	42.3	39.7	35.4	33.9	40.9	40.9	34.6
Polk	72.3	71.5	71.5	71.5	72.0	71.2	70.1	70.0	70.3	69.7	69.1
Pottawattamie	65.4	65.7	66.1	67.1	67.2	65.6	64.9	64.3	65.5	67.2	65.6
Poweshiek	58.7	59.5	57.8	57.9	60.8	56.0	55.3	57.6	56.1	58.5	54.6
Ringgold	42.7	43.3	40.8	39.4	42.2	37.5	39.4	44.0	48.0	48.2	41.0
Sac	38.0	39.7	37.3	36.7	36.9	35.7	34.0	37.9	40.1	44.5	39.7
Scott	68.4	68.2	67.9	68.4	68.9	68.6	67.8	68.5	69.0	69.0	69.2
Shelby	44.1	43.9	42.2	42.6	45.8	42.1	44.3	42.7	44.6	52.9	47.1
Sioux	51.7	50.4	50.5	49.1	50.7	45.7	45.4	45.0	46.4	53.7	52.9
Story	69.2	69.0	69.6	69.0	69.5	67.0	66.0	66.4	66.4	66.2	65.9
Tama	52.3	53.7	51.9	52.7	53.1	48.7	48.5	49.6	49.8	53.6	50.8
Taylor	41.0	41.8	40.6	39.5	42.8	36.2	35.6	36.4	42.0	41.9	37.9
Union	53.8	53.0	51.9	52.9	53.6	51.1	51.6	51.1	53.3	53.6	52.3
Van Buren	51.4	51.6	50.3	51.4	52.1	48.0	47.4	48.1	49.4	51.1	47.3
Wapello	58.9	59.0	59.6	59.4	59.9	58.0	56.5	59.3	60.3	59.5	60.1
Warren	73.2	73.2	73.0	72.9	73.7	71.8	71.6	71.2	72.1	71.8	70.0
Washington	53.9	53.0	51.5	52.8	55.1	48.1	47.3	46.2	45.1	47.6	44.5
Wayne	42.8	43.4	42.4	41.6	43.2	39.9	40.2	40.6	42.7	42.7	40.7
Webster	55.1	55.6	56.2	54.1	56.2	53.7	52.2	55.0	56.7	55.3	55.1
Winnebago	54.3	55.4	51.7	53.6	54.4	51.4	49.9	51.3	52.8	55.2	52.8
Winneshiek	56.1	56.8	52.4	52.3	55.6	50.3	50.4	52.0	50.2	61.0	55.1
Woodbury	64.8	64.1	64.3	64.3	64.2	62.8	62.0	62.3	63.0	64.5	62.6
Worth	48.3	49.3	45.4	46.6	48.6	43.9	42.9	43.8	45.3	52.4	50.0
Wright	44.3	46.7	45.0	43.0	45.5	43.1	42.4	44.8	48.8	49.0	46.4
State of Iowa	61.3	61.3	60.3	60.3	61.7	58.9	58.0	58.6	59.4	61.3	59.7

Table 6. Farm Earnings (in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	13851	9422	12508	17259	6267	13660	16125	7527	2422	-6589	3642
Adams	11310	8477	11786	11102	3780	11121	8967	3232	-2788	-3000	3165
Allamakee	21371	12597	26865	22466	11027	19961	11305	4900	9411	-13754	1226
Appanoose	6245	2794	8695	8690	4258	5654	1051	-3904	-4532	-4974	1137
Audubon	19159	16925	18622	20943	10804	21672	11406	12558	3553	-10166	679
Benton	23163	12705	25890	28457	5395	28376	27138	10261	16425	-537	7955
Black Hawk	28647	16474	24999	14861	7063	26398	22648	18650	11855	-264	2231
Boone	28362	16867	16454	26703	8251	24280	20326	11895	10697	14770	14757
Bremer	20301	10733	18552	13411	4833	13600	9700	9814	7127	-8155	245
Buchanan	30402	23268	31523	23600	8853	29871	13381	12740	12681	-16702	-916
Buena Vista	35207	26724	32595	33808	28806	29693	30760	27071	9588	-1048	14708
Butler	24909	18541	25027	10142	12389	24903	19893	23460	17685	-3079	6474
Calhoun	32435	14321	20371	29336	26944	26526	25713	20821	14780	8183	14941
Carroll	45028	37292	42487	43732	39482	45473	30174	27847	21321	7638	18678
Cass	21574	14624	17733	21886	9340	17098	10322	9127	5556	-2826	3266
Cedar	23894	17547	30278	30248	13570	23921	10998	10887	15309	-7808	-642
Cerro Gordo	25858	17408	31737	12912	21544	27873	23584	15411	13977	-1981	-1811
Cherokee	33269	32755	34796	34762	33363	29625	21553	15521	11605	-5374	5649
Chickasaw	22045	16646	22084	14549	8964	20352	11695	11064	10819	-6783	1207
Clarke	5212	2318	7119	5708	2823	6863	2858	1089	-4062	-3658	2666
Clay	24137	15452	26341	27544	21534	24062	23316	16230	8868	1248	7575
Clayton	43241	30365	51487	41787	21104	42891	31435	21969	27203	-23304	1179
Clinton	32177	18126	35327	35582	15430	28927	11222	10465	14844	-19817	-6215
Crawford	28963	22886	29054	27365	22715	21009	14680	5766	7035	-10695	7813
Dallas	16915	11894	14655	23632	4260	15991	10570	1396	4014	-2630	6269
Davis	2793	749	6757	2978	1478	6258	5072	2246	1993	-3038	1797
Decatur	5839	4355	7026	6932	1904	7038	4550	1466	-2152	-5816	1276
Delaware	50583	42114	60433	44283	28061	53808	38390	27456	27747	-15817	2527
Des Moines	14027	8292	15857	10657	11629	11558	13474	19832	22423	696	7421
Dickinson	14969	13096	17371	20789	15701	17490	13941	8494	6864	-710	2444
Dubuque	40692	28135	49321	39821	21763	42046	31519	20621	25221	-19417	1367
Emmet	13882	5954	15952	18068	13700	16607	15908	14535	5325	1614	6300
Fayette	38694	32848	45319	37427	17177	38647	19374	16347	20228	-10566	-2803
Floyd	23637	18838	28800	12044	15407	25908	20622	17563	15212	3164	7665
Franklin	34876	18255	30260	29674	25808	33114	33910	21354	18496	-800	4468
Fremont	19607	13229	15100	15122	16227	12446	22830	16129	3916	10149	7161
Greene	30589	16852	17166	26690	13841	23863	21131	12344	8549	10743	14434
Grundy	26703	18525	21036	14583	15956	26868	22340	15467	14501	12697	14220
Guthrie	21933	15795	18621	23088	11301	19113	10994	10268	5330	-6742	4367
Hamilton	35092	25409	23766	41718	6853	26904	26525	20293	11545	12054	16462
Hancock	27002	11825	26810	17764	19930	21997	29435	27919	19969	11176	18663
Hardin	28470	15699	23427	19060	7685	29361	27379	22063	13831	1053	1497
Harrison	22267	8670	12495	8717	10411	14782	16133	23506	10430	2022	15585
Henry	13623	8834	15065	6443	6010	10667	8764	5457	1630	-7501	294
Howard	11969	9900	18218	17481	4858	18913	15780	8395	15065	-431	5472
Humboldt	21561	6061	16942	27599	15339	18367	16843	11474	12020	3661	12096
Ida	23581	16379	22227	23418	18951	18768	15658	15049	13256	-8678	1545
Iowa	19254	11737	19919	19024	4771	23472	8455	14965	17559	-6686	1352
Jackson	16530	6966	23607	20676	9844	20547	5017	5020	9227	-15490	-1267
Jasper	28935	19677	29300	27476	14310	34012	29181	26665	33186	12429	19694

Table 6. Farm Earnings (in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	10736	7254	12726	10608	3699	11689	13358	9680	9894	-3503	2256
Johnson	19249	13541	24819	21787	4795	20506	16929	13374	17510	-6636	6551
Jones	16108	9659	20830	17816	7900	20990	10205	11048	16336	-12139	-1270
Keokuk	21773	17801	23536	24209	9963	30169	15400	13154	11220	-4590	3063
Kossuth	50418	11001	40389	54083	50113	51028	54581	34758	29476	15794	15179
Lee	16501	7932	12250	6456	6267	11147	13334	16756	12984	-3001	6780
Linn	15891	5943	19034	24822	1451	13697	7970	-232	6309	-9486	1646
Louisa	16445	7250	16614	10761	7839	11723	11966	10818	14673	-3505	6253
Lucas	4396	1719	5676	4432	2461	5253	1132	-2981	-3636	-5765	-696
Lyon	32281	30439	31597	34323	21402	33910	30712	30100	28749	8648	22820
Madison	12714	6264	12073	14868	3791	9168	7817	4204	-1131	-5200	3634
Mahaska	29149	24713	30379	29448	14902	32197	27486	21917	16672	1623	17227
Marion	15709	11762	16416	13849	10849	18563	13697	10945	7818	4820	15350
Marshall	24385	18159	22336	25783	9686	30471	19378	14386	12244	5104	4859
Mills	17794	14533	14152	11953	11560	14204	17073	12105	5453	4165	8439
Mitchell	27477	25277	34452	28435	15746	28884	22203	14668	15239	-3368	1609
Monona	20055	8671	18465	18979	13488	16835	17943	14389	8988	-2824	18774
Monroe	2378	2194	4055	3127	1435	3268	-1200	-4629	-2458	-3742	704
Montgomery	15586	11076	12039	14483	8218	11107	12656	5988	2298	2207	11676
Muscatine	13943	3685	12704	13979	4872	8930	8125	11098	15217	-3139	260
O'Brien	37574	38191	42838	46452	44983	41450	36685	32698	26449	15003	21611
Osceola	18187	18270	19447	20552	18347	18056	13452	7042	5992	-867	671
Page	26267	19991	21386	21011	10147	19894	23233	13637	-178	3346	7133
Palo Alto	23490	11401	24855	22417	20699	27192	23290	23519	6040	-1201	9202
Plymouth	52232	48101	52271	49514	26982	49057	35845	37774	27422	-11465	11932
Pocahontas	26664	14171	17914	27338	19490	19635	30065	32459	10140	3520	20703
Polk	16284	7132	11342	17332	5395	14913	10645	3206	4709	1395	6648
Pottawattamie	36062	28150	27459	16566	12936	26317	24558	30631	24021	66	12911
Poweshiek	17863	11478	20154	18937	7356	22046	15485	4070	8496	-3653	6269
Ringgold	8223	5137	9263	12515	5445	10308	7221	149	-3413	-3895	3788
Sac	36923	23469	31422	32318	30257	31383	33318	17533	13196	-1246	10710
Scott	21133	14902	22429	24048	10042	18435	6590	11266	15184	-6748	-3415
Shelby	31201	27955	30416	28935	18405	26002	14908	23955	18317	-6748	6271
Sioux	63943	61453	66577	69717	45886	69693	60878	67134	57443	8089	5576
Story	30069	19975	21606	30974	9620	27861	26110	19201	18086	9415	13675
Tama	17699	10569	21424	15843	13126	25066	17099	12385	11047	-6199	4407
Taylor	9807	6225	7257	8489	2808	12336	11137	8119	-2478	-2678	5536
Union	6237	4221	7160	6509	2713	7268	2074	1970	-3047	-5129	1716
Van Buren	6222	2704	6662	3751	1650	7242	4392	3214	1474	-3508	2276
Wapello	6945	2437	5305	5907	1347	5618	5364	-1024	-341	-2856	3254
Warren	12803	5885	10423	10080	4989	10530	5472	8236	3377	-396	5999
Washington	27791	27046	34397	25267	13604	33099	28365	33945	41596	19148	30389
Wayne	4983	2437	5361	6534	3870	10307	7070	4029	-1635	-3282	1123
Webster	31286	17404	18543	40635	13085	24120	27873	10748	4458	16650	17680
Winnebago	18527	7389	21519	16952	19251	20698	15755	10272	11242	-635	719
Winneshiek	33079	23014	41955	34279	14877	31836	23372	15345	22359	-17730	959
Woodbury	34443	17147	28449	32175	16416	31850	9490	9708	5946	-21025	5671
Worth	10985	7035	17800	15078	12185	17715	14449	12647	13165	-199	1351
Wright	26136	12426	22946	33537	22774	21393	24125	14430	13718	9706	16364
State of Iowa	2280829	1539943	2250902	2189880	1320836	2217413	1773130	1400569	1153404	-179198	656158

Table 7. Adjusted Farm Earnings (1992 dollars in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	13851	9706	13427	19528	7432	16871	20642	9814	3271	-9281	5295
Adams	11310	8732	12652	12561	4483	13735	11479	4214	-3765	-4226	4602
Allamakee	21371	12976	28838	25419	13078	24653	14472	6389	12708	-19374	1782
Appanoose	6245	2878	9334	9832	5050	6983	1345	-5090	-6120	-7007	1653
Audubon	19159	17434	19990	23696	12813	26766	14601	16374	4798	-14320	987
Benton	23163	13087	27792	32198	6398	35045	34740	13379	22179	-756	11566
Black Hawk	28647	16970	26835	16815	8376	32602	28992	24318	16008	-372	3244
Boone	28362	17375	17663	30213	9785	29987	26020	15510	14445	20806	21455
Bremer	20301	11056	19915	15174	5732	16796	12417	12797	9624	-11487	356
Buchanan	30402	23968	33838	26702	10499	36892	17129	16612	17124	-23527	-1332
Buena Vista	35207	27528	34989	38252	34163	36672	39376	35298	12947	-1476	21384
Butler	24909	19099	26865	11475	14693	30756	25465	30590	23881	-4337	9412
Calhoun	32435	14752	21867	33192	31955	32761	32915	27149	19958	11527	21723
Carroll	45028	38415	45608	49481	46824	56161	38626	36310	28791	10759	27156
Cass	21574	15064	19036	24763	11077	21117	13213	11901	7502	-3981	4748
Cedar	23894	18075	32502	34224	16094	29543	14079	14196	20672	-10999	-933
Cerro Gordo	25858	17932	34068	14609	25550	34424	30190	20094	18874	-2791	-2633
Cherokee	33269	33741	37352	39332	39567	36588	27590	20238	15671	-7570	8213
Chickasaw	22045	17147	23706	16461	10631	25135	14971	14426	14609	-9555	1755
Clarke	5212	2388	7642	6458	3348	8476	3659	1420	-5485	-5153	3876
Clay	24137	15917	28276	31165	25539	29717	29847	21162	11975	1758	11013
Clayton	43241	31279	55269	47280	25029	52972	40240	28645	36733	-32827	1714
Clinton	32177	18672	37922	40259	18299	35726	14365	13645	20044	-27915	-9036
Crawford	28963	23575	31188	30962	26939	25947	18792	7518	9500	-15065	11359
Dallas	16915	12252	15731	26738	5052	19749	13531	1820	5420	-3705	9114
Davis	2793	772	7253	3369	1753	7729	6493	2929	2691	-4279	2613
Decatur	5839	4486	7542	7843	2258	8692	5824	1912	-2906	-8193	1855
Delaware	50583	43382	64872	50104	33279	66455	49143	35800	37468	-22280	3674
Des Moines	14027	8542	17022	12058	13792	14275	17248	25859	30279	980	10789
Dickinson	14969	13490	18647	23522	18621	21601	17846	11075	9269	-1000	3553
Dubuque	40692	28982	52944	45056	25810	51928	40348	26888	34057	-27351	1987
Emmet	13882	6133	17124	20443	16248	20510	20364	18952	7191	2274	9159
Fayette	38694	33837	48648	42347	20371	47730	24801	21315	27315	-14884	-4075
Floyd	23637	19405	30915	13627	18272	31997	26398	22900	20541	4457	11144
Franklin	34876	18805	32483	33575	30607	40897	43409	27844	24976	-1127	6496
Fremont	19607	13627	16209	17110	19245	15371	29225	21031	5288	14296	10411
Greene	30589	17359	18427	30198	16415	29472	27050	16095	11544	15133	20985
Grundy	26703	19083	22581	16500	18923	33183	28598	20167	19581	17885	20674
Guthrie	21933	16270	19989	26123	13403	23605	14074	13388	7197	-9497	6349
Hamilton	35092	26174	25512	47202	8127	33227	33955	26460	15590	16980	23934
Hancock	27002	12181	28779	20099	23636	27167	37680	36404	26965	15743	27134
Hardin	28470	16172	25148	21565	9114	36262	35048	28768	18677	1483	2176
Harrison	22267	8931	13413	9863	12347	18256	20652	30650	14084	2848	22659
Henry	13623	9100	16172	7290	7128	13174	11219	7115	2201	-10566	427
Howard	11969	10198	19556	19779	5761	23358	20200	10946	20343	-607	7956
Humboldt	21561	6243	18186	31227	18192	22684	21561	14961	16231	5157	17586
Ida	23581	16872	23860	26496	22475	23179	20044	19622	17900	-12224	2246
Iowa	19254	12090	21382	21525	5658	28989	10823	19513	23711	-9418	1966
Jackson	16530	7176	25341	23394	11675	25376	6422	6546	12460	-21820	-1842
Jasper	28935	20269	31452	31088	16971	42006	37355	34769	44812	17508	28633

Table 7. Adjusted Farm Earnings (1992 dollars in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	10736	7472	13661	12002	4387	14436	17100	12622	13360	-4934	3280
Johnson	19249	13949	26642	24651	5687	25326	21671	17438	23644	-9348	9524
Jones	16108	9950	22360	20158	9369	25923	13064	14406	22059	-17099	-1846
Keokuk	21773	18337	25265	27391	11816	37260	19714	17152	15151	-6466	4453
Kossuth	50418	11332	43356	61192	59432	63021	69870	45321	39803	22248	22069
Lee	16501	8171	13150	7305	7432	13767	17069	21848	17533	-4227	9857
Linn	15891	6122	20432	28085	1721	16916	10202	-303	8519	-13362	2393
Louisa	16445	7468	17834	12176	9297	14478	15318	14106	19813	-4937	9091
Lucas	4396	1771	6093	5015	2919	6488	1449	-3887	-4910	-8121	-1012
Lyon	32281	31355	33918	38835	25382	41880	39315	39247	38821	12182	33178
Madison	12714	6453	12960	16822	4496	11323	10007	5482	-1527	-7325	5283
Mahaska	29149	25457	32610	33319	17673	39764	35185	28578	22513	2286	25046
Marion	15709	12116	17622	15669	12867	22926	17534	14271	10557	6790	22317
Marshall	24385	18706	23977	29172	11487	37633	24806	18758	16534	7190	7064
Mills	17794	14970	15191	13524	13710	17542	21855	15784	7363	5867	12269
Mitchell	27477	26038	36983	32173	18674	35673	28422	19126	20578	-4744	2339
Monona	20055	8932	19821	21474	15996	20792	22969	18762	12137	-3978	27295
Monroe	2378	2260	4353	3538	1702	4036	-1536	-6036	-3319	-5271	1024
Montgomery	15586	11409	12923	16387	9746	13718	16201	7808	3103	3109	16976
Muscatine	13943	3796	13637	15817	5778	11029	10401	14471	20548	-4422	378
O'Brien	37574	39341	45984	52558	53348	51192	46961	42635	35715	21134	31420
Osceola	18187	18820	20875	23254	21759	22300	17220	9182	8091	-1221	976
Page	26267	20593	22957	23773	12034	24570	29741	17781	-240	4713	10371
Palo Alto	23490	11744	26681	25364	24548	33583	29814	30667	8156	-1692	13379
Plymouth	52232	49549	56110	56023	32000	60587	45886	49254	37029	-16150	17348
Pocahontas	26664	14598	19230	30932	23115	24250	38486	42323	13692	4958	30100
Polk	16284	7347	12175	19610	6398	18418	13627	4180	6359	1965	9665
Pottawattamie	36062	28997	29476	18744	15342	32502	31437	39940	32436	93	18771
Poweshiek	17863	11824	21634	21426	8724	27228	19822	5307	11472	-5146	9114
Ringgold	8223	5292	9943	14160	6458	12731	9244	194	-4609	-5487	5507
Sac	36923	24175	33730	36566	35884	38759	42651	22861	17819	-1755	15571
Scott	21133	15351	24076	27209	11909	22768	8436	14690	20504	-9505	-4965
Shelby	31201	28797	32650	32739	21828	32113	19084	31235	24734	-9505	9117
Sioux	63943	63303	71467	78881	54419	86073	77931	87536	77567	11394	8107
Story	30069	20576	23193	35046	11409	34409	33424	25036	24422	13262	19882
Tama	17699	10887	22998	17926	15567	30957	21889	16149	14917	-8732	6407
Taylor	9807	6412	7790	9605	3330	15235	14257	10586	-3346	-3772	8049
Union	6237	4348	7686	7365	3218	8976	2655	2569	-4114	-7225	2495
Van Buren	6222	2785	7151	4244	1957	8944	5622	4191	1990	-4941	3309
Wapello	6945	2510	5695	6683	1597	6938	6867	-1335	-460	-4023	4731
Warren	12803	6062	11189	11405	5917	13005	7005	10739	4560	-558	8722
Washington	27791	27860	36923	28588	16134	40878	36310	44261	56169	26973	44182
Wayne	4983	2510	5755	7393	4590	12730	9050	5253	-2208	-4623	1633
Webster	31286	17928	19905	45977	15518	29789	35680	14014	6020	23454	25705
Winnebago	18527	7611	23100	19180	22831	25563	20168	13394	15180	-894	1045
Winneshiek	33079	23707	45037	38785	17644	39319	29919	20008	30192	-24975	1394
Woodbury	34443	17663	30539	36404	19469	39336	12148	12658	8029	-29617	8245
Worth	10985	7247	19107	17060	14451	21879	18496	16490	17777	-280	1964
Wright	26136	12800	24631	37945	27009	26421	30883	18815	18524	13672	23791
State of Iowa	2280829	1586300	2416232	2477743	1566469	2738583	2269801	1826207	1557484	-252424	953979

Table 8. Percentage of Total Personal Income from Farm Earnings in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	10.2	7.5	9.8	14.2	6.0	12.8	15.0	7.8	2.7	-8.5	4.4
Adams	15.3	12.4	16.9	16.7	6.6	17.4	14.6	5.9	-5.6	-6.2	6.2
Allamakee	10.1	6.6	13.5	12.2	6.8	11.8	7.1	3.3	6.4	-11.8	1.0
Appanoose	3.1	1.5	4.7	5.0	2.7	3.7	0.7	-2.9	-3.4	-3.8	0.9
Audubon	15.1	14.1	16.1	18.6	11.3	21.3	12.5	13.9	4.3	-15.4	0.9
Benton	6.1	3.7	7.5	8.7	1.9	9.6	9.4	3.9	6.2	-.2	3.4
Black Hawk	1.3	.8	1.3	0.8	0.4	1.6	1.5	1.2	0.8	0.0	0.1
Boone	5.9	3.8	3.9	6.5	2.2	6.7	5.9	3.7	3.5	5.0	5.1
Bremer	5.2	3.0	5.3	4.1	1.6	4.7	3.5	3.5	2.6	-3.2	0.1
Buchanan	9.0	7.3	10.1	8.3	3.5	11.6	5.8	5.6	5.5	-8.6	-0.4
Buena Vista	10.3	8.4	10.5	11.2	10.5	11.1	11.5	10.6	4.1	-0.5	6.8
Butler	9.7	7.8	10.7	5.0	6.4	12.3	10.3	12.0	9.3	-1.9	4.0
Calhoun	16.1	8.1	11.6	16.7	16.7	16.9	16.6	13.8	10.2	5.9	10.8
Carroll	11.3	10.1	12.0	13.0	12.5	14.6	10.3	9.8	7.7	3.0	7.3
Cass	8.3	6.1	7.5	9.4	4.6	8.2	5.1	4.6	2.9	-1.6	1.8
Cedar	7.5	5.9	10.3	10.9	5.5	9.8	4.8	4.8	6.7	-4.0	-0.3
Cerro Gordo	3.1	2.2	4.1	1.8	3.2	4.2	3.7	2.5	2.3	-0.4	-0.3
Cherokee	13.8	14.0	15.2	16.3	16.5	15.3	11.6	8.7	6.7	-3.5	3.6
Chickasaw	9.8	8.0	10.7	7.5	5.1	11.1	6.8	6.6	6.6	-4.8	0.9
Clarke	4.4	2.1	6.3	5.3	2.9	7.1	3.2	1.3	-5.3	-4.9	3.4
Clay	7.8	5.4	9.0	10.0	8.4	9.9	9.9	7.3	4.2	0.6	3.8
Clayton	14.3	11.1	18.1	16.0	9.3	17.8	13.9	10.4	12.8	-15.2	0.7
Clinton	3.6	2.2	4.4	4.7	2.2	4.3	1.7	1.6	2.3	-3.4	-1.1
Crawford	10.3	8.7	11.5	11.7	10.2	9.7	7.0	2.9	3.6	-6.3	4.3
Dallas	2.8	2.1	2.8	4.8	0.9	3.7	2.6	0.4	1.1	-0.7	1.8
Davis	2.3	0.7	6.0	3.0	1.7	6.9	5.8	2.7	2.4	-4.0	2.3
Decatur	5.4	4.3	7.0	7.1	2.3	8.0	5.4	1.8	-2.9	-8.7	1.8
Delaware	16.9	15.1	20.9	17.3	12.4	22.3	17.6	13.7	13.9	-10.6	1.6
Des Moines	1.8	1.1	2.2	1.6	1.9	1.9	2.3	3.5	4.1	0.1	1.5
Dickinson	5.0	4.7	6.4	8.2	6.9	8.1	6.8	4.4	3.5	-0.4	1.5
Dubuque	2.6	1.9	3.5	3.0	1.8	3.5	2.8	1.9	2.4	-2.1	0.1
Emmet	7.4	3.5	9.2	11.2	9.2	11.3	10.9	10.1	3.9	1.3	4.8
Fayette	11.5	10.4	14.3	12.8	6.7	14.3	7.7	6.6	8.0	-4.9	-1.3
Floyd	8.2	6.9	10.6	5.0	6.8	11.3	9.4	8.2	7.1	1.7	4.0
Franklin	17.6	10.6	16.8	17.6	16.7	20.5	20.9	14.4	13.0	-0.6	3.7
Fremont	14.3	10.6	12.5	12.9	14.4	11.5	19.7	14.6	4.0	9.7	7.5
Greene	16.9	10.6	11.3	17.1	10.1	16.4	14.6	9.2	6.7	8.2	11.2
Grundy	11.6	8.8	10.2	7.9	9.2	14.8	12.9	9.1	8.6	8.0	8.8
Guthrie	11.3	8.8	10.7	13.9	7.8	13.0	8.0	7.7	4.2	-6.2	3.8
Hamilton	11.5	8.9	8.8	15.1	3.0	11.3	11.3	9.0	5.4	5.8	8.1
Hancock	13.4	6.6	14.0	10.3	12.0	13.5	17.4	16.8	12.5	7.7	13.0
Hardin	8.5	5.1	7.6	6.8	3.0	10.6	9.9	8.3	5.4	0.4	0.7
Harrison	9.3	4.1	6.1	4.6	5.8	8.3	9.2	13.1	6.4	1.4	10.2
Henry	4.1	2.9	5.0	2.4	2.4	4.3	3.7	2.5	0.8	-4.0	0.2
Howard	7.7	6.8	12.5	12.9	4.2	14.8	12.8	7.4	12.5	-0.5	5.7
Humboldt	11.6	3.7	10.0	16.1	10.4	12.6	11.8	8.5	8.8	2.9	9.4
Ida	16.1	12.5	16.7	18.3	15.9	16.3	14.5	14.2	13.0	-11.5	1.9
Iowa	6.8	4.6	8.2	8.4	2.4	11.1	4.4	7.8	9.2	-4.4	0.9
Jackson	5.1	2.4	8.1	7.6	4.0	8.2	2.2	2.2	4.0	-8.1	-0.6
Jasper	4.5	3.3	5.0	5.0	2.8	6.7	6.0	5.8	7.3	3.0	4.9

Table 8. Percentage of Total Personal Income from Farm Earnings in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	4.1	2.9	5.1	4.6	1.8	5.6	6.7	5.3	5.7	-2.4	1.6
Johnson	1.0	0.8	1.5	1.4	0.4	1.6	1.4	1.2	1.6	-0.7	0.7
Jones	5.6	3.7	7.7	7.1	3.5	9.4	4.9	5.4	8.0	-7.2	-0.7
Keokuk	11.4	10.0	13.2	14.2	6.8	18.1	10.1	8.8	7.8	-3.7	2.5
Kossuth	16.0	4.2	14.0	18.7	18.8	19.5	20.6	14.3	12.4	7.2	7.2
Lee	2.5	1.3	2.1	1.2	1.2	2.2	2.6	3.3	2.6	-0.7	1.5
Linn	0.4	0.2	0.6	0.8	0.1	0.5	0.3	0.0	0.3	-0.5	0.1
Louisa	8.3	4.0	9.2	6.5	5.2	7.8	8.4	8.0	10.9	-3.1	5.0
Lucas	3.0	1.2	4.1	3.4	2.0	4.4	1.0	-2.7	-3.4	-5.8	-0.7
Lyon	17.5	17.5	18.6	20.8	15.1	22.9	21.3	21.1	20.8	7.3	18.3
Madison	5.8	3.1	6.1	8.0	2.3	5.7	5.1	2.9	-0.8	-4.2	2.9
Mahaska	8.2	7.5	9.3	9.7	5.4	11.3	10.1	8.5	6.8	0.7	7.6
Marion	2.9	2.3	3.3	3.0	2.5	4.4	3.5	2.9	2.2	1.4	4.7
Marshall	3.4	2.7	3.4	4.1	1.7	5.5	3.6	2.7	2.4	1.0	1.0
Mills	6.6	5.7	5.8	5.3	5.3	6.9	8.9	6.9	3.5	2.9	6.0
Mitchell	13.8	13.4	18.0	16.2	10.3	17.3	14.0	10.0	10.6	-2.8	1.4
Monona	12.2	6.0	12.5	13.3	10.7	13.7	14.4	11.8	7.8	-2.7	15.9
Monroe	1.7	1.7	3.3	2.8	1.4	3.2	-1.3	-5.0	-2.8	-4.6	0.9
Montgomery	7.5	5.7	6.3	7.8	5.0	6.9	7.9	3.9	1.5	1.6	8.2
Muscatine	1.8	0.5	1.8	2.1	0.8	1.5	1.4	2.0	2.8	-0.6	0.1
O'Brien	14.0	14.8	16.9	19.3	19.6	18.8	17.1	15.9	13.4	8.4	12.1
Osceola	15.6	16.4	17.9	20.0	19.2	19.4	15.2	8.5	7.2	-1.2	0.9
Page	8.8	7.2	7.9	8.2	4.5	8.7	10.1	6.4	-0.1	1.8	3.9
Palo Alto	13.6	7.4	15.4	14.8	14.6	18.6	16.2	16.4	4.8	-1.0	7.5
Plymouth	12.2	12.0	13.6	13.9	8.9	15.2	12.2	13.2	10.1	-5.1	5.1
Pocahontas	16.4	9.8	12.4	18.5	14.8	15.0	21.3	23.2	8.8	3.3	17.6
Polk	0.2	0.1	0.2	0.3	0.1	0.3	0.2	0.1	0.1	0.0	0.2
Pottawattamie	2.6	2.2	2.2	1.4	1.2	2.4	2.3	2.9	2.4	0.0	1.4
Poweshiek	5.3	3.6	6.5	6.5	2.8	8.3	6.2	1.8	3.8	-1.8	3.2
Ringgold	10.3	7.1	12.7	17.2	8.9	15.9	11.6	0.3	-6.9	-7.9	7.0
Sac	17.8	12.6	16.8	18.0	18.2	19.3	19.8	11.5	8.8	-0.9	7.6
Scott	0.7	0.5	0.8	1.0	0.4	0.8	0.3	0.5	0.7	-0.3	-0.2
Shelby	13.9	13.2	14.7	14.8	10.4	14.6	9.0	13.9	11.1	-4.9	4.3
Sioux	13.0	13.3	15.3	16.9	12.5	18.8	17.1	18.6	16.5	2.8	2.0
Story	2.4	1.7	1.9	2.9	1.0	2.9	2.9	2.2	2.2	1.2	1.9
Tama	6.2	3.9	7.9	6.3	5.5	10.3	7.3	5.5	5.1	-3.2	2.2
Taylor	10.0	6.9	8.3	10.2	3.8	14.8	13.4	10.2	-3.6	-3.9	7.4
Union	3.1	2.3	3.9	3.7	1.7	4.6	1.4	1.3	-2.2	-3.8	1.2
Van Buren	5.7	2.7	6.8	4.1	2.0	8.6	5.5	4.2	2.0	-5.3	3.3
Wapello	1.2	0.4	1.0	1.2	.3	1.3	1.2	-0.2	-0.1	-0.7	0.8
Warren	2.0	1.0	1.8	1.9	1.0	2.3	1.3	2.0	0.8	-0.1	1.7
Washington	7.9	8.1	10.4	8.5	5.1	12.0	10.7	12.9	15.7	8.3	13.0
Wayne	4.8	2.6	5.6	7.1	4.6	11.6	8.2	5.0	-2.2	-4.6	1.6
Webster	4.5	2.7	3.0	6.8	2.4	4.6	5.3	2.2	0.9	3.4	3.6
Winnebago	8.5	3.8	10.6	8.7	10.0	11.3	9.0	6.1	6.8	-0.5	0.6
Winneshiek	9.5	7.2	13.1	11.8	5.9	12.2	9.7	6.9	10.0	-10.5	0.6
Woodbury	1.9	1.0	1.8	2.1	1.2	2.3	0.7	0.8	0.5	-1.9	0.5
Worth	8.7	6.0	14.3	13.1	11.2	15.9	13.5	12.1	12.6	-0.2	1.6
Wright	10.9	5.7	10.3	14.6	11.2	10.6	11.9	7.3	6.6	5.2	8.9
State of Iowa	4.5	3.2	4.9	5.1	3.3	5.7	4.8	3.9	3.3	-0.6	2.1

Table 9. Dividends, Interest, and Rent (in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	32902	33360	36184	32653	30472	29776	31732	30922	31633	30386	29095
Adams	14607	14798	14624	14036	13788	14894	15626	15284	16507	17117	16756
Allamakee	44467	44726	45234	41399	39204	40416	43588	42392	41189	38752	35054
Appanoose	36554	36725	36947	35151	33343	34024	35078	34136	34087	32321	29844
Audubon	28922	29054	28710	27667	25935	26179	27640	26725	28155	28327	27644
Benton	68436	68884	67409	63748	63302	63705	66509	67176	66590	63528	62746
Black Hawk	346375	347319	352928	332520	297641	296455	311265	306977	305976	287996	270839
Boone	78611	78991	79324	74890	68083	69299	70726	68692	67867	66075	65624
Bremer	75822	76186	77666	74022	68108	69651	73311	70699	70292	65989	61482
Buchanan	69330	69424	66999	62792	56958	56016	57595	57260	59083	57078	52160
Buena Vista	73513	73892	74222	69817	61667	64019	68142	66256	66380	67176	66390
Butler	50851	51124	51968	49517	46676	49142	53472	53964	54965	52636	48216
Calhoun	43915	44337	44414	42134	39389	40927	43454	44070	44139	48753	44763
Carroll	91070	91290	88598	83341	78655	79499	80361	77808	77415	73859	75320
Cass	65414	65655	65056	61932	56045	59100	62604	60735	59778	56320	55801
Cedar	70207	70466	67822	63302	60676	61321	62351	65402	65540	60047	58037
Cerro Gordo	159726	159567	161551	147875	134889	145148	144945	140928	139239	128554	124895
Cherokee	50828	51047	51886	47256	44965	45292	46661	45826	47810	48461	45643
Chickasaw	40828	41179	41661	40819	39120	40952	43503	42446	43929	41902	38427
Clarke	21629	21932	22798	20833	20692	21618	22833	22380	21717	20833	20324
Clay	58674	59198	60247	57784	55174	53971	57084	56025	54029	52506	55339
Clayton	62573	63260	62622	60351	57038	58984	61358	58668	58283	54067	51270
Clinton	144883	145383	146403	136784	130570	134838	140767	138720	137075	125382	117914
Crawford	65276	65696	61111	50801	46521	49660	53676	53462	54052	52253	51376
Dallas	90311	91045	89736	83210	74489	75800	78892	75994	75486	73842	69325
Davis	26181	26704	25500	20643	19251	20391	21356	19973	19853	19491	19540
Decatur	18629	18768	19428	18610	17282	17632	19013	18545	18655	18487	17499
Delaware	57225	57676	57144	53865	51288	52918	54545	52223	51942	49028	44488
Des Moines	126816	127337	129068	121437	112069	113548	118137	114457	114806	106565	101515
Dickinson	72920	72997	73946	70288	63937	62149	62563	60907	61101	55775	56694
Dubuque	299432	301391	301129	274997	258189	250968	253303	238743	227711	214833	204487
Emmet	37161	37177	37190	33527	31672	34532	37664	37429	37935	37838	36115
Fayette	66448	66736	66571	63921	59725	61805	67452	65488	66235	62820	58956
Floyd	64804	65246	64263	62210	54439	56094	59475	60335	62128	56926	56744
Franklin	43234	43127	43416	40019	36313	40273	42572	43538	42521	45897	42669
Fremont	27910	28244	28570	27573	24765	26169	26469	27162	26385	28117	25285
Greene	43261	43415	42375	40931	38454	41627	45436	44382	43638	46217	43591
Grundy	48679	48729	49121	45976	43039	45196	47754	48279	48514	44151	45338
Guthrie	37264	37645	37660	34473	32054	34084	36638	35996	35705	35174	34930
Hamilton	59583	60329	59058	56067	51560	56091	59102	58395	56361	57283	55928
Hancock	45881	46082	47798	44093	41283	43595	46937	46050	47469	48862	46005
Hardin	76341	76529	76382	74485	72495	72396	76938	75431	76428	75315	74510
Harrison	40225	40680	40555	40260	37917	38065	39924	39555	41743	41155	39386
Henry	57671	57945	57911	54281	51953	53417	55516	54542	53033	50601	49197
Howard	37878	38279	37883	35427	34572	35251	37598	36705	37581	31812	29255
Humboldt	43322	43682	44033	42096	37611	39644	41455	40375	42305	42707	41550
Ida	29592	29601	30066	28204	26983	28492	29909	30369	31088	29873	30209
Iowa	56395	56750	52677	48218	49913	50358	53518	51342	51445	47229	45325
Jackson	65316	65809	61848	60367	57479	60170	63772	62964	62727	56201	51780
Jasper	117974	118685	116294	108627	106665	108071	107076	103990	101481	98500	95539

Table 9. Dividends, Interest, and Rent (in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	51879	51792	54665	49796	42605	44811	45023	43030	43499	37501	35676
Johnson	280063	279727	275099	251415	216839	209189	215423	199030	192613	170116	161785
Jones	60690	61106	65148	62398	57969	56737	60178	59581	57996	54762	50940
Keokuk	44919	45388	45104	43337	40856	44112	45822	45325	46965	48237	45024
Kossuth	68958	69230	71296	67308	61817	64588	68218	68453	70626	74175	72010
Lee	125169	125720	116932	111815	103541	103726	107453	103400	99554	94370	88565
Linn	576815	578030	568584	541190	477811	466349	462928	445973	431410	400786	403495
Louisa	28521	28702	28679	27835	26954	29527	30178	30208	29842	29076	27922
Lucas	28031	28215	29015	28223	27672	26635	28665	27016	27628	26039	25396
Lyon	38710	38884	39291	38695	34670	33510	35994	37447	37285	41001	38190
Madison	35110	35519	35008	32385	31782	32247	34521	34692	34339	32093	31722
Mahaska	66351	66714	66231	61789	60648	62306	63692	61476	60584	57968	59169
Marion	98075	98455	99129	89642	83721	87545	88894	85080	85446	82995	78084
Marshall	131245	132031	135376	132808	114512	113161	120792	116615	114112	109319	104142
Mills	29507	29760	30115	28605	27771	28673	29746	28695	30156	28771	28605
Mitchell	47172	47630	47598	45351	43253	45703	48985	47132	46485	44468	41379
Monona	31242	31503	32200	32022	29765	28974	31408	32187	32163	36395	33264
Monroe	24409	24560	23838	21583	20705	19637	20474	22204	21522	20447	19252
Montgomery	45164	45288	44772	43954	39784	39671	42046	41464	41626	38448	39090
Muscatine	160110	158349	156358	134340	134603	130260	129034	123550	118611	108882	101731
O'Brien	58895	59237	59463	54723	51317	53410	58433	57586	58289	57982	57037
Osceola	26242	26460	27041	25389	23985	24439	25624	26945	28361	28230	28637
Page	63971	64446	64964	61281	55399	56503	58407	54726	55403	55317	53810
Palo Alto	37979	38243	38895	35695	34013	35368	40044	40471	39891	42860	40183
Plymouth	88078	88334	88008	82051	74913	74646	77867	76923	76091	72973	71083
Pocahontas	35552	36029	35948	34484	33187	36312	38580	38620	38036	40061	37192
Polk	1123106	1125674	1094777	1004977	907391	850956	838210	797245	769798	715554	703314
Pottawattamie	173910	174469	166903	158431	163037	165237	168772	162045	158417	146165	142512
Poweshiek	67017	67358	66338	62562	58284	58597	60112	58036	57916	54788	54237
Ringgold	17196	17383	17051	16005	15617	16646	17624	17528	17471	18007	17359
Sac	49391	49616	49771	47534	43580	44559	49630	49603	50743	49525	50396
Scott	459150	459784	463146	411730	387025	376701	387812	366703	353996	327168	337829
Shelby	53374	53781	54890	51996	49183	48379	50207	48848	48201	48028	47846
Sioux	100227	100107	88139	83335	83301	82075	85357	85100	86396	84028	85768
Story	208117	207600	192596	181720	177522	177164	178755	173420	168480	158963	153123
Tama	62212	62382	62372	60545	58758	60688	64959	64027	64772	62155	62981
Taylor	21950	22327	22615	21123	20790	22319	24374	24913	25882	26103	25511
Union	40141	40141	41887	38046	37792	37269	40217	39119	39152	39281	37268
Van Buren	21452	21670	20324	19276	18481	18851	20343	19343	19382	19574	18366
Wapello	92365	92874	90909	84198	77269	79750	81903	79487	77437	73082	69925
Warren	77374	77617	74682	68713	64582	63883	64178	60703	60157	58257	57976
Washington	74538	75141	74923	69823	63590	70637	72275	71074	70007	69185	67451
Wayne	23803	24137	24306	23296	21855	23185	24800	24144	25235	24933	23874
Webster	139169	140129	128688	119151	118596	122047	128002	122162	120202	115207	121115
Winnebago	45243	45026	45538	44550	42048	42829	47364	47022	45289	41197	38903
Winneshiek	65940	66375	66223	62719	58977	60805	60659	57569	56560	52212	47544
Woodbury	280533	280223	261456	245278	246744	243918	250303	243315	233820	226302	223801
Worth	27638	27688	27852	25530	24490	25886	28311	28080	27247	24742	24914
Wright	57072	57336	56594	58014	51108	56997	56777	59868	59964	55484	53563
State of Iowa	9049641	9082291	8966743	8371895	7794420	7821039	8066668	7837305	7735063	7368229	7159778

Table 10. Adjusted Dividends, Interest, and Rent (1992 dollars in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	32902	34364	38842	36945	36139	36774	40620	40319	42715	42803	42301
Adams	14607	15243	15698	15881	16352	18395	20003	19929	22290	24112	24361
Allamakee	44467	46072	48556	46841	46495	49915	55797	55275	55619	54587	50965
Appanoose	36554	37831	39661	39772	39544	42021	44904	44510	46029	45528	43390
Audubon	28922	29929	30819	31304	30758	32332	35382	34847	38019	39902	40191
Benton	68436	70958	72360	72128	75074	78678	85139	87591	89919	89488	91226
Black Hawk	346375	357774	378851	376230	352993	366132	398453	400268	413171	405681	393769
Boone	78611	81369	85150	84734	80744	85587	90537	89568	91643	93076	95410
Bremer	75822	78479	83371	83752	80774	86021	93846	92185	94918	92954	89388
Buchanan	69330	71514	71920	71046	67550	69182	73728	74662	79782	80402	75835
Buena Vista	73513	76116	79674	78995	73135	79066	87229	86391	89635	94626	96523
Butler	50851	52663	55785	56026	55356	60692	68450	70364	74221	74145	70101
Calhoun	43915	45672	47676	47673	46714	50546	55626	57463	59603	68675	65080
Carroll	91070	94038	95106	94296	93282	98184	102871	101454	104536	104040	109507
Cass	65414	67631	69834	70073	66468	72991	80140	79193	80720	79334	81128
Cedar	70207	72587	72804	71623	71960	75734	79816	85278	88501	84584	84379
Cerro Gordo	159726	164370	173417	167313	159974	179263	185545	183756	188020	181086	181583
Cherokee	50828	52584	55697	53468	53327	55937	59731	59753	64560	68264	66360
Chickasaw	40828	42419	44721	46185	46395	50577	55689	55345	59319	59025	55868
Clarke	21629	22592	24473	23572	24540	26699	29229	29181	29325	29346	29549
Clay	58674	60980	64672	65380	65435	66656	73074	73051	72957	73962	80457
Clayton	62573	65164	67222	68284	67645	72847	78545	76497	78702	76161	74541
Clinton	144883	149759	157156	154764	154852	166530	180197	180877	185097	176617	171434
Crawford	65276	67674	65600	57479	55172	61332	68711	69709	72988	73605	74695
Dallas	90311	93786	96327	94148	88342	93616	100990	99089	101932	104016	100791
Davis	26181	27508	27373	23357	22831	25184	27338	26043	26808	27456	28409
Decatur	18629	19333	20855	21056	20496	21776	24339	24181	25191	26041	25442
Delaware	57225	59412	61341	60946	60826	65356	69824	68094	70139	69063	64680
Des Moines	126816	131170	138548	137400	132910	140236	151228	149241	155027	150111	147591
Dickinson	72920	75194	79377	79527	75827	76756	80087	79417	82507	78567	82427
Dubuque	299432	310464	323247	311146	306204	309954	324256	311298	307487	302621	297301
Emmet	37161	38296	39922	37934	37562	42648	48214	48804	51225	53300	52507
Fayette	66448	68745	71461	72324	70832	76331	86346	85390	89440	88490	85715
Floyd	64804	67210	68983	70388	64563	69278	76135	78671	83894	80188	82499
Franklin	43234	44425	46605	45280	43066	49739	54497	56769	57418	64652	62036
Fremont	27910	29094	30668	31198	29370	32320	33883	35417	35629	39607	36762
Greene	43261	44722	45487	46311	45605	51411	58163	57870	58926	65103	63376
Grundy	48679	50196	52729	52020	51043	55819	61130	62951	65510	62193	65916
Guthrie	37264	38778	40426	39005	38015	42095	46901	46935	48214	49547	50784
Hamilton	59583	62145	63396	63437	61149	69274	75657	76141	76106	80691	81313
Hancock	45881	47469	51309	49889	48960	53841	60084	60045	64099	68829	66886
Hardin	76341	78833	81992	84276	85977	89412	98489	98355	103204	106091	108329
Harrison	40225	41905	43534	45552	44968	47012	51107	51576	56367	57972	57263
Henry	57671	59689	62165	61416	61615	65972	71067	71117	71612	71278	71527
Howard	37878	39431	40666	40084	41001	43536	48130	47860	50747	44811	42533
Humboldt	43322	44997	47267	47630	44605	48962	53067	52645	57126	60159	60409
Ida	29592	30492	32274	31911	32001	35189	38287	39598	41979	42080	43920
Iowa	56395	58458	56546	54556	59195	62194	68509	66945	69468	66528	65897
Jackson	65316	67790	66391	68302	68168	74312	81635	82099	84703	79167	75282
Jasper	117974	122258	124836	122906	126501	133471	137069	135593	137034	138751	138903

Table 10. Adjusted Dividends, Interest, and Rent (1992 dollars in \$1,000) in Iowa Counties, 1982-1992
(continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	51879	53351	58680	56342	50528	55343	57634	56107	58738	52825	51869
Johnson	280063	288148	295305	284464	257164	258356	275765	259516	260092	239631	235217
Jones	60690	62945	69933	70600	68749	70072	77034	77688	78314	77140	74061
Keokuk	44919	46754	48417	49034	48454	54480	58657	59099	63419	67948	65460
Kossuth	68958	71314	76533	76156	73313	79768	87327	89256	95369	104485	104694
Lee	125169	129505	125521	126513	122796	128105	137552	134824	134431	132933	128763
Linn	576815	595430	610347	612330	566668	575957	592599	581506	582549	564561	586636
Louisa	28521	29566	30785	31494	31967	36467	38631	39388	40297	40957	40595
Lucas	28031	29064	31146	31933	32818	32895	36694	35226	37307	36679	36923
Lyon	38710	40055	42177	43782	41118	41386	46076	48827	50347	57755	55524
Madison	35110	36588	37579	36642	37692	39826	44191	45235	46369	45207	46120
Mahaska	66351	68722	71096	69911	71927	76950	81533	80159	81809	81656	86025
Marion	98075	101419	106410	101426	99290	108121	113794	110936	115381	116910	113525
Marshall	131245	136006	145319	150266	135808	139758	154627	152055	154090	153991	151411
Mills	29507	30656	32327	32365	32936	35412	38078	37416	40721	40528	41588
Mitchell	47172	49064	51094	51312	51297	56445	62706	61456	62770	62639	60160
Monona	31242	32451	34565	36231	35300	35784	40206	41969	43431	51267	48362
Monroe	24409	25299	25589	24420	24555	24252	26209	28952	29062	28802	27990
Montgomery	45164	46651	48061	49732	47183	48995	53823	54065	56209	54159	56832
Muscatine	160110	163116	167843	151999	159635	160876	165178	161097	160165	153375	147905
O'Brien	58895	61020	63831	61916	60860	65963	74801	75087	78710	81675	82925
Osceola	26242	27257	29027	28726	28445	30183	32802	35134	38297	39766	41635
Page	63971	66386	69736	69336	65701	69783	74767	71357	74813	77921	78234
Palo Alto	37979	39394	41752	40387	40338	43681	51261	52770	53866	60374	58422
Plymouth	88078	90993	94472	92837	88844	92190	99678	100300	102748	102792	103347
Pocahontas	35552	37114	38588	39017	39359	44847	49387	50357	51361	56431	54073
Polk	1123106	1159560	1175189	1137083	1076137	1050961	1073001	1039530	1039487	1007954	1022538
Pottawattamie	173910	179721	179162	179257	193357	204074	216047	211291	213916	205893	207196
Poweshiek	67017	69386	71211	70786	69123	72369	76950	75673	78206	77176	78854
Ringgold	17196	17906	18303	18109	18521	20558	22561	22855	23592	25365	25238
Sac	49391	51110	53427	53782	51684	55032	63532	64678	68520	69763	73270
Scott	459150	473625	497164	465853	458999	465239	496442	478145	478014	460860	491165
Shelby	53374	55400	58922	58831	58329	59750	64270	63693	65088	67654	69563
Sioux	100227	103121	94613	94290	98792	101366	109266	110962	116664	118365	124697
Story	208117	213849	206742	205607	210535	218804	228826	226123	227505	223921	222623
Tama	62212	64260	66953	68504	69685	74952	83155	83485	87464	87554	91567
Taylor	21950	22999	24276	23900	24656	27565	31201	32484	34949	36770	37090
Union	40141	41349	44964	43047	44820	46029	51482	51007	52868	55333	54183
Van Buren	21452	22322	21817	21810	21918	23282	26041	25221	26172	27573	26702
Wapello	92365	95670	97586	95266	91639	98494	104845	103643	104566	102946	101663
Warren	77374	79953	80167	77745	76592	78898	82155	79151	81232	82063	84290
Washington	74538	77403	80426	79001	75416	87239	92520	92674	94533	97456	98066
Wayne	23803	24864	26091	26358	25919	28634	31747	31481	34076	35121	34710
Webster	139169	144347	138140	134814	140651	150732	163857	159287	162313	162285	176087
Winnebago	45243	46381	48883	50406	49868	52895	60631	61312	61155	58032	56561
Winneshiek	65940	68373	71087	70964	69945	75096	77650	75064	76375	73548	69124
Woodbury	280533	288658	280660	277520	292630	301247	320415	317259	315736	318777	325381
Worth	27638	28521	29898	28886	29044	31970	36241	36614	36793	34852	36222
Wright	57072	59062	60751	65640	60612	70393	72681	78062	80972	78157	77874
State of Iowa	9049641	9355693	9625356	9472394	9243932	9659259	10326218	10219088	10444941	10379142	10409501

Table 11. Percentage of Total Personal Income from Dividends, Interest, and Rent in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	24.1	26.7	28.5	26.8	29.0	28.0	29.6	32.1	35.2	39.1	34.8
Adams	19.7	21.6	20.9	21.1	24.2	23.3	25.5	28.1	33.3	35.3	32.7
Allamakee	21.1	23.4	22.7	22.5	24.0	23.8	27.5	28.6	27.8	33.1	28.4
Appanoose	18.0	19.3	20.1	20.4	21.0	22.0	24.0	24.9	25.3	24.5	22.4
Audubon	22.7	24.2	24.9	24.6	27.0	25.7	30.3	29.5	34.1	42.9	37.9
Benton	18.2	19.8	19.5	19.4	21.9	21.5	23.0	25.4	25.2	27.0	26.6
Black Hawk	15.9	17.1	17.9	18.1	17.6	18.5	20.3	19.7	19.4	18.6	17.6
Boone	16.5	17.9	18.6	18.2	18.4	19.1	20.6	21.3	22.1	22.3	22.8
Bremer	19.5	21.2	22.0	22.7	23.1	24.1	26.3	25.3	25.5	26.2	24.7
Buchanan	20.4	21.8	21.5	22.0	22.6	21.7	24.9	25.0	25.8	29.6	25.6
Buena Vista	21.5	23.2	23.8	23.2	22.5	24.0	25.5	25.8	28.3	31.3	30.8
Butler	19.8	21.6	22.2	24.2	24.2	24.3	27.7	27.5	28.8	32.6	29.8
Calhoun	21.8	25.2	25.3	24.0	24.4	26.1	28.1	29.3	30.6	34.9	32.4
Carroll	22.9	24.8	25.0	24.8	24.9	25.5	27.5	27.3	27.8	29.1	29.5
Cass	25.1	27.2	27.5	26.7	27.3	28.5	31.0	30.5	30.7	31.5	31.5
Cedar	22.2	23.9	23.1	22.9	24.7	25.0	27.4	28.8	28.6	31.0	30.0
Cerro Gordo	19.1	19.9	20.7	20.8	19.8	21.9	22.8	22.9	23.3	23.1	23.5
Cherokee	21.0	21.9	22.7	22.2	22.2	23.3	25.1	25.7	27.7	31.7	29.2
Chickasaw	18.1	19.7	20.1	21.1	22.1	22.4	25.4	25.5	26.7	29.7	27.3
Clarke	18.1	19.7	20.1	19.4	21.5	22.5	25.3	26.5	28.1	27.7	26.1
Clay	18.9	20.7	20.7	20.9	21.6	22.2	24.2	25.1	25.9	26.8	28.1
Clayton	20.7	23.1	22.0	23.1	25.0	24.5	27.1	27.8	27.4	35.2	30.6
Clinton	16.3	17.6	18.1	18.0	18.8	20.0	21.8	21.7	21.4	21.5	20.1
Crawford	23.1	25.1	24.2	21.7	21.0	22.9	25.6	27.2	27.5	30.6	28.6
Dallas	15.0	16.4	17.0	16.7	16.6	17.6	19.5	19.8	20.1	20.7	20.3
Davis	21.9	24.0	22.6	21.0	21.5	22.5	24.2	23.9	24.0	25.9	25.2
Decatur	17.4	18.6	19.2	19.0	20.5	19.9	22.4	22.9	25.1	27.8	24.7
Delaware	19.1	20.6	19.8	21.1	22.6	21.9	25.0	26.0	26.0	33.0	28.5
Des Moines	16.6	17.5	18.2	18.5	18.2	19.0	20.4	20.3	20.8	20.8	20.3
Dickinson	24.4	26.4	27.1	27.6	28.2	28.9	30.6	31.8	31.4	32.5	34.0
Dubuque	18.9	20.5	21.1	20.8	20.9	21.0	22.7	22.1	21.8	22.7	22.1
Emmet	19.7	21.7	21.5	20.9	21.3	23.4	25.9	25.9	27.6	29.6	27.8
Fayette	19.7	21.1	21.1	21.9	23.3	22.9	26.8	26.4	26.1	29.3	27.7
Floyd	22.5	24.0	23.7	25.6	24.0	24.4	27.0	28.3	29.0	30.0	29.9
Franklin	21.8	25.0	24.1	23.8	23.5	25.0	26.2	29.3	29.8	37.2	35.1
Fremont	20.3	22.7	23.6	23.6	21.9	24.1	22.8	24.7	26.9	26.8	26.3
Greene	23.9	27.4	28.0	26.3	28.2	28.6	31.5	33.1	34.0	35.1	33.7
Grundy	21.1	23.1	23.9	24.7	24.7	24.9	27.5	28.5	28.7	27.7	28.2
Guthrie	19.3	21.1	21.6	20.7	22.3	23.2	26.7	27.0	28.4	32.5	30.6
Hamilton	19.5	21.1	21.9	20.2	22.8	23.5	25.1	25.9	26.6	27.5	27.4
Hancock	22.8	25.8	25.0	25.5	24.8	26.7	27.7	27.7	29.7	33.7	32.1
Hardin	22.8	24.8	24.9	26.4	28.0	26.2	27.9	28.5	29.9	31.9	32.4
Harrison	16.8	19.2	19.7	21.0	21.0	21.5	22.6	22.1	25.4	27.5	25.7
Henry	17.5	18.9	19.4	20.0	20.5	21.8	23.7	24.5	25.4	26.7	26.1
Howard	24.3	26.2	25.9	26.1	29.5	27.6	30.5	32.4	31.3	33.3	30.6
Humboldt	23.3	26.8	26.1	24.6	25.5	27.1	29.1	30.0	31.1	34.2	32.3
Ida	20.2	22.5	22.6	22.0	22.7	24.7	27.6	28.6	30.5	39.6	36.9
Iowa	20.0	22.4	21.7	21.3	24.8	23.8	28.0	26.8	26.8	31.1	30.4
Jackson	20.3	22.4	21.2	22.0	23.1	24.0	27.6	27.7	27.4	29.3	26.3
Jasper	18.5	19.9	19.7	19.6	20.9	21.1	22.2	22.4	22.3	23.7	23.9

Table 11. Percentage of Total Personal Income from Dividends, Interest, and Rent in Iowa Counties, 1982-1992
(continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	19.6	21.0	21.9	21.6	20.4	21.5	22.6	23.7	24.9	26.0	25.3
Johnson	15.3	16.2	16.6	16.4	15.9	16.4	17.8	17.5	17.8	17.2	17.4
Jones	21.2	23.1	24.1	24.8	25.9	25.3	28.7	29.0	28.3	32.4	29.7
Keokuk	23.6	25.4	25.3	25.5	27.8	26.4	30.1	30.5	32.5	38.7	36.0
Kossuth	21.9	26.3	24.6	23.3	23.2	24.7	25.8	28.1	29.7	33.8	34.2
Lee	18.9	20.2	19.7	20.0	19.8	20.4	21.0	20.5	20.3	20.7	19.8
Linn	16.3	17.5	17.8	18.0	17.4	18.1	19.0	19.3	19.7	19.3	19.9
Louisa	14.4	16.0	15.9	16.8	18.0	19.7	21.1	22.4	22.2	25.5	22.3
Lucas	19.0	20.3	21.1	21.4	22.4	22.2	24.7	24.7	26.0	26.1	25.1
Lyon	20.9	22.3	23.2	23.4	24.5	22.6	25.0	26.3	26.9	34.7	30.6
Madison	16.1	17.8	17.7	17.4	19.2	20.1	22.5	24.0	25.3	26.0	25.0
Mahaska	18.7	20.2	20.2	20.3	22.0	21.9	23.3	23.7	24.7	26.4	26.2
Marion	18.1	19.3	19.9	19.3	19.3	20.6	22.5	22.7	23.6	24.1	23.7
Marshall	18.5	19.4	20.5	21.1	20.4	20.2	22.3	21.9	21.9	21.9	21.5
Mills	10.9	11.6	12.3	12.6	12.8	14.0	15.5	16.3	19.1	20.1	20.3
Mitchell	23.6	25.3	24.8	25.8	28.2	27.3	31.0	32.3	32.3	37.3	35.6
Monona	19.0	21.8	21.8	22.5	23.6	23.5	25.2	26.5	27.8	34.7	28.1
Monroe	17.9	19.0	19.2	19.2	19.5	19.2	22.0	24.1	24.2	25.1	23.3
Montgomery	21.8	23.1	23.5	23.8	24.0	24.6	26.3	27.1	27.9	27.5	27.4
Muscatine	20.3	21.7	22.1	20.6	22.0	22.3	22.8	22.2	21.8	21.8	20.8
O'Brien	21.9	22.9	23.4	22.8	22.3	24.3	27.2	28.1	29.6	32.4	31.9
Osceola	22.5	23.8	24.9	24.6	25.1	26.3	29.0	32.7	34.3	37.9	38.8
Page	21.4	23.3	24.0	23.8	24.3	24.6	25.4	25.9	28.5	29.3	29.2
Palo Alto	21.9	24.9	24.1	23.6	24.0	24.2	27.8	28.2	31.8	36.4	32.7
Plymouth	20.7	22.1	22.8	23.1	24.6	23.2	26.6	26.8	28.1	32.6	30.2
Pocahontas	21.8	25.0	25.0	23.4	25.2	27.8	27.4	27.6	33.0	37.6	31.6
Polk	14.9	16.0	16.4	16.3	16.0	16.4	17.1	17.0	17.1	17.0	17.5
Pottawattamie	12.5	13.4	13.4	13.6	14.6	15.2	15.9	15.6	15.8	15.7	15.8
Poweshiek	20.0	21.4	21.3	21.3	22.0	22.0	24.1	25.6	25.7	27.4	27.3
Ringgold	21.6	24.0	23.4	22.0	25.6	25.7	28.2	32.2	35.2	36.7	32.0
Sac	23.8	26.6	26.6	26.5	26.2	27.4	29.4	32.6	33.8	37.4	35.5
Scott	15.4	16.3	17.0	16.4	16.6	16.9	18.0	17.3	17.1	17.0	17.7
Shelby	23.8	25.3	26.6	26.6	27.7	27.2	30.2	28.4	29.3	35.2	33.2
Sioux	20.4	21.7	20.2	20.2	22.7	22.1	24.0	23.6	24.8	29.3	31.4
Story	16.3	17.2	16.8	16.8	18.0	18.6	19.7	19.9	20.6	21.1	21.4
Tama	21.8	23.2	23.0	23.9	24.7	24.9	27.8	28.4	29.6	32.6	31.4
Taylor	22.5	24.7	25.7	25.4	27.9	26.8	29.2	31.2	37.4	38.3	34.2
Union	20.1	21.5	22.6	21.8	23.4	23.7	26.3	26.4	27.7	28.8	27.0
Van Buren	19.7	21.9	20.7	21.3	22.7	22.4	25.3	25.1	26.5	29.6	26.7
Wapello	15.6	16.6	16.9	16.7	16.9	18.0	19.0	18.4	18.2	18.3	17.6
Warren	11.9	13.0	13.0	13.0	13.2	13.9	14.8	14.5	15.1	15.6	16.1
Washington	21.3	22.4	22.7	23.4	24.1	25.6	27.3	26.9	26.4	29.9	29.0
Wayne	23.0	25.3	25.2	25.2	26.2	26.2	28.8	30.1	33.3	35.2	33.2
Webster	19.8	21.4	20.9	20.0	22.0	23.2	24.3	24.5	24.5	23.6	24.8
Winnebago	20.7	23.3	22.4	22.9	21.9	23.5	27.0	28.1	27.2	29.8	30.3
Winneshiek	19.0	20.7	20.6	21.6	23.3	23.4	25.1	25.8	25.4	30.9	27.5
Woodbury	15.1	16.5	16.2	16.2	17.5	18.0	19.7	19.7	19.6	20.0	20.2
Worth	21.9	23.7	22.4	22.2	22.5	23.3	26.4	26.9	26.1	29.1	30.1
Wright	23.8	26.3	25.5	25.2	25.1	28.3	28.1	30.3	29.1	29.5	29.1
State of Iowa	17.7	19.0	19.3	19.3	19.6	20.3	21.9	22.0	22.5	23.3	23.0

Table 12. Transfer Payments (in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	26067	23693	22117	20213	18615	17744	17729	17380	16422	15704	14799
Adams	15964	14793	13911	12920	12128	12279	12024	11084	10310	9628	8789
Allamakee	42425	38209	35592	32814	30112	29205	28611	27881	25116	24426	23763
Appanoose	56102	52096	48023	44951	41627	40023	39738	39409	37695	37557	35493
Audubon	24049	22051	20636	19081	17101	16186	15799	15380	14421	13847	12995
Benton	62845	58629	53167	48792	44674	43518	42830	41496	39364	39137	37568
Black Hawk	390185	360853	329284	306735	281880	271965	273013	266663	248434	253628	233644
Boone	116559	110814	101824	93960	90102	81264	71598	65195	56234	51304	48677
Bremer	59274	55281	50089	46902	43714	43300	42861	41067	37892	37704	34548
Buchanan	59170	55656	50090	47077	43410	43473	42029	40627	37051	36906	34195
Buena Vista	59611	54865	50566	47552	44662	42579	41894	39983	37438	36577	35152
Butler	53115	47910	43061	39643	36105	35427	34624	32683	31118	30562	28077
Calhoun	43843	40925	37602	33680	31179	29606	28809	28098	25993	25168	23660
Carroll	65963	60618	55805	51547	46442	43775	42541	40569	38178	36538	34776
Cass	54393	49984	45477	41803	37888	35856	35229	34543	32973	31566	29965
Cedar	46798	42090	38684	35703	32680	31703	30946	29965	27846	27027	25339
Cerro Gordo	157807	145702	132806	121582	111665	107573	104834	99620	91175	91001	85094
Cherokee	44635	41845	39335	36752	33590	33052	31740	29815	27335	26309	24628
Chickasaw	39070	36138	32669	30447	28232	27169	27146	26663	24613	24733	22793
Clarke	26882	24460	22016	20406	18836	17864	17460	17025	16073	15806	15339
Clay	52433	48128	44244	40591	37517	36438	35736	34182	31323	30398	28166
Clayton	59486	54887	50095	46330	42507	39988	38930	38444	35738	35205	33082
Clinton	170079	158741	144490	132855	121133	113741	112344	110160	104645	105307	98919
Crawford	53697	49348	45071	41098	37125	34056	33164	31631	31066	29827	27301
Dallas	88202	80350	73979	69984	63084	59744	59066	57040	54140	52900	48063
Davis	26764	24493	22785	21346	19642	19108	18741	17977	16845	16582	15442
Decatur	31406	27880	25888	23793	22157	20278	19699	19423	18598	18157	16873
Delaware	43396	39885	36269	33779	30822	29954	29495	28931	26789	26587	25414
Des Moines	138491	128287	118523	109582	101683	98106	96857	94716	86787	88811	83469
Dickinson	49123	45640	41247	38132	34965	33804	33054	31937	29647	28502	26539
Dubuque	249962	229257	210167	195466	179298	165987	163314	159044	154972	159099	150539
Emmet	41854	38277	34713	32397	29429	27848	27303	26510	25087	25483	23167
Fayette	72966	67577	61225	56700	51819	48788	48397	48288	45638	45042	42611
Floyd	59641	54323	49670	45652	42039	40254	39872	39259	36663	37396	34110
Franklin	36878	33634	30298	27740	25695	25383	24530	23358	21614	21195	20176
Fremont	31093	28549	26164	24633	22579	21100	20498	19488	18651	17881	16896
Greene	35576	32991	30720	28865	26509	24626	24498	24366	22878	22290	21298
Grundy	36077	33680	30724	28714	26399	25375	24970	24789	23173	22306	20711
Guthrie	40164	36652	33766	31591	28899	27554	26975	26111	24728	23453	22157
Hamilton	54275	49044	45404	41542	37799	35352	34667	34176	32299	31494	28895
Hancock	36651	33158	30635	27640	25139	24680	24299	23024	21068	20628	19635
Hardin	70075	64819	59085	54589	50411	48355	46562	43846	42140	40390	37112
Harrison	55995	51063	45420	42661	38205	35630	34537	34115	32439	31198	29035
Henry	54651	51258	46945	43350	40455	37845	37256	36444	33495	33419	31208
Howard	33898	30907	27889	25599	22937	21053	20888	20657	19816	19233	17698
Humboldt	36921	34292	31364	28610	25918	24370	23814	23310	22024	21082	19990
Ida	25702	23903	21623	20329	18606	18031	17300	16267	14821	14045	13334
Iowa	41139	37840	34682	31855	29668	28660	28118	27301	24411	23903	23012
Jackson	66078	59491	53908	50244	46537	42441	41655	41697	40379	40562	38228
Jasper	105635	96357	87763	80960	74324	71359	70076	67302	63270	61679	58777

Table 12. Transfer Payments (in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	42123	38771	36167	33489	30940	30362	29653	28054	26197	26813	26373
Johnson	164400	151043	137476	126559	115649	110734	105280	99858	88370	87254	80425
Jones	50638	46096	42726	40183	36575	35144	34522	33597	31577	31245	29681
Keokuk	42644	39072	35906	33463	31154	29876	29413	28119	26411	25562	24111
Kossuth	55372	51692	47334	43844	40072	38254	37729	36935	34495	33455	31708
Lee	129265	118829	107731	102435	93809	91036	90015	86916	81556	83406	78605
Linn	446477	409955	376802	344411	316462	307666	303028	288675	266725	270977	255787
Louisa	31888	30146	27113	24933	23297	22178	21881	21106	19638	19768	17775
Lucas	34836	32361	29735	27683	25892	23735	23560	24396	22803	21983	21175
Lyon	31035	28929	26857	24641	22482	21797	21448	20383	18914	17876	16779
Madison	39458	36299	33320	30958	28382	26128	25392	24728	23524	22562	21109
Mahaska	66935	61403	56339	52376	48483	46202	45610	44874	41435	41004	39074
Marion	94038	87561	80098	74064	68211	63580	61749	59532	56876	55451	51312
Marshall	116930	109327	101020	94093	87176	86528	84874	82115	75629	76701	71361
Mills	88823	82547	76736	68894	66589	58759	47350	39350	30292	23132	21950
Mitchell	33464	30799	28477	26609	24710	24559	23941	23280	21545	21379	19822
Monona	42008	38776	35224	32226	29272	27160	26287	26054	24989	24074	22767
Monroe	33029	30716	28240	26610	24827	22844	22844	22490	21431	21483	20546
Montgomery	46806	42571	39165	36190	32999	31754	31022	30322	28612	27691	25612
Muscatine	110068	101989	92635	86232	78281	74000	73946	72331	66663	67849	63322
O'Brien	48679	46516	42525	38884	35654	34870	33885	31547	30073	28653	26398
Osceola	21947	19775	18143	17166	15753	14889	14956	14317	13523	12889	11844
Page	62390	57805	53182	49584	45603	43346	42366	41218	38521	37716	34938
Palo Alto	37818	35485	32122	29505	26927	25439	25154	24649	23273	22509	21093
Plymouth	62872	57725	52844	48869	44561	43011	41678	40577	37205	35725	33293
Pocahontas	32072	29404	27000	25035	23172	22825	22321	21353	20001	19483	19060
Polk	952864	868894	796752	735216	670987	632629	620994	606313	559496	561982	530584
Pottawattamie	270140	245864	229022	208538	191223	181958	179681	178560	164362	160369	154279
Poweshiek	53711	48824	45022	41942	38366	36579	35926	34129	32261	31840	29811
Ringgold	20263	18437	16846	15562	14229	13603	12949	12805	11761	11280	10855
Sac	42131	39551	36260	33733	31006	28784	28345	27425	26011	25322	24352
Scott	460350	421787	387860	356615	327720	305697	299075	289741	271840	276399	253847
Shelby	40588	37269	34122	31287	28680	28486	27432	25875	24552	22932	22265
Sioux	73350	67168	61103	56527	51387	49817	48268	45976	42841	40495	37101
Story	155654	146544	133581	123919	113748	109393	103763	99160	88283	86719	77224
Tama	56325	51571	46652	43159	39850	38940	38123	37212	33908	32634	31365
Taylor	25887	24125	22333	20697	19024	18535	18236	17764	16721	16191	15235
Union	46155	43193	40134	37445	34397	32264	31742	31430	29978	29296	26933
Van Buren	25316	23436	21698	20915	18839	17749	17580	17428	16082	16222	15644
Wapello	144639	133230	121096	114215	105267	100407	100370	97131	91776	91724	85264
Warren	83565	76698	70029	64213	59306	55089	53234	51901	47538	47141	44113
Washington	59131	55166	50417	45606	41509	39645	38797	36952	33843	33162	31319
Wayne	30540	27491	25806	24207	21759	19753	19562	19566	19884	18987	17633
Webster	144728	133642	122944	113277	103867	97614	95844	91692	87840	86836	80413
Winnebago	36052	33643	30994	28805	26296	25183	24797	24055	21984	21494	20969
Winneshiek	53069	48822	44748	41772	38492	36663	35806	34176	31945	31491	29164
Woodbury	336443	311873	285757	262221	242454	228873	223261	213529	200661	196425	185288
Worth	26631	24614	22317	20776	19160	18683	18502	18015	16586	15967	15129
Wright	50471	46420	42546	39661	37204	36163	35694	34722	32053	30836	28648
State of Iowa	8497083	7825177	7170466	6628431	6089644	5792652	5665955	5481272	5103309	5051566	4734506

Table 13. Adjusted Transfer Payments (1992 dollars in \$1,000) in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	26067	24406	23742	22870	22077	21914	22695	22662	22175	22121	21516
Adams	15964	15238	14933	14618	14383	15165	15392	14452	13922	13562	12778
Allamakee	42425	39359	38206	37127	35712	36069	36625	36354	33915	34407	34549
Appanoose	56102	53664	51550	50860	49368	49430	50869	51386	50901	52904	51603
Audubon	24049	22715	22152	21589	20281	19990	20224	20054	19473	19505	18893
Benton	62845	60394	57072	55206	52982	53746	54827	54107	53155	55130	54620
Black Hawk	390185	371716	353470	347056	334301	335886	349487	347703	335470	357269	339692
Boone	116559	114150	109303	106311	106858	100364	91653	85008	75935	72269	70771
Bremer	59274	56945	53768	53067	51843	53477	54867	53547	51167	53111	50229
Buchanan	59170	57331	53769	53265	51483	53691	53802	52974	50031	51987	49716
Buena Vista	59611	56517	54280	53803	52968	52587	53629	52134	50554	51524	51107
Butler	53115	49352	46224	44854	42819	43754	44323	42615	42020	43051	40821
Calhoun	43843	42157	40364	38107	36977	36564	36879	36637	35099	35453	34399
Carroll	65963	62443	59904	58323	55079	54064	54457	52898	51553	51469	50560
Cass	54393	51489	48817	47298	44934	44283	45097	45041	44525	44465	43566
Cedar	46798	43357	41525	40396	38757	39154	39614	39071	37601	38071	36840
Cerro Gordo	157807	150088	142561	137564	132431	132856	134199	129895	123117	128187	123717
Cherokee	44635	43105	42224	41583	39837	40820	40631	38876	36911	37060	35806
Chickasaw	39070	37226	35069	34449	33482	33555	34750	34766	33236	34840	33138
Clarke	26882	25196	23633	23088	22339	22063	22351	22199	21704	22265	22301
Clay	52433	49577	47494	45927	44494	45002	45746	44570	42297	42820	40950
Clayton	59486	56539	53775	52420	50412	49387	49835	50127	48258	49591	48097
Clinton	170079	163520	155103	150319	143660	140474	143813	143638	141306	148339	143817
Crawford	53697	50834	48381	46500	44029	42060	42454	41244	41950	42015	39693
Dallas	88202	82769	79413	79184	74816	73786	75611	74375	73107	74517	69878
Davis	26764	25230	24459	24152	23295	23599	23991	23440	22746	23358	22451
Decatur	31406	28719	27789	26921	26277	25044	25217	25326	25114	25577	24531
Delaware	43396	41086	38933	38219	36554	36994	37757	37723	36174	37451	36949
Des Moines	138491	132149	127229	123987	120593	121164	123988	123501	117192	125102	121354
Dickinson	49123	47014	44277	43145	41467	41749	42313	41643	40033	40149	38585
Dubuque	249962	236158	225604	221160	212642	205000	209060	207378	209264	224112	218867
Emmet	41854	39429	37263	36656	34902	34393	34951	34566	33876	35896	33682
Fayette	72966	69611	65722	64153	61456	60255	61953	62963	61627	63448	61952
Floyd	59641	55958	53318	51653	49857	49715	51041	51190	49507	52677	49592
Franklin	36878	34646	32523	31386	30473	31349	31401	30457	29186	29856	29334
Fremont	31093	29408	28086	27871	26778	26059	26240	25410	25185	25188	24565
Greene	35576	33984	32976	32659	31439	30414	31360	31771	30893	31398	30965
Grundy	36077	34694	32981	32489	31308	31339	31964	32322	31291	31421	30111
Guthrie	40164	37755	36246	35744	34273	34030	34531	34046	33391	33037	32214
Hamilton	54275	50520	48739	47003	44828	43661	44378	44562	43615	44364	42010
Hancock	36651	34156	32885	31273	29814	30481	31105	30021	28449	29057	28547
Hardin	70075	66770	63425	61765	59786	59720	59604	57171	56903	56895	53957
Harrison	55995	52600	48756	48269	45310	44004	44211	44483	43804	43947	42214
Henry	54651	52801	50393	49048	47978	46740	47692	47519	45230	47075	45373
Howard	33898	31837	29937	28964	27203	26001	26739	26935	26758	27092	25731
Humboldt	36921	35324	33668	32371	30738	30098	30485	30394	29740	29697	29063
Ida	25702	24623	23211	23001	22066	22269	22146	21211	20013	19784	19386
Iowa	41139	38979	37229	36042	35185	35396	35994	35598	32963	33671	33457
Jackson	66078	61282	57868	56849	55191	52416	53323	54369	54525	57137	55579
Jasper	105635	99258	94209	91602	88146	88131	89705	87755	85436	86883	85455

Table 13. Adjusted Transfer Payments (1992 dollars in \$1,000) in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	42123	39938	38823	37891	36694	37498	37959	36580	35375	37770	38343
Johnson	164400	155590	147574	143195	137156	136760	134770	130205	119329	122909	116929
Jones	50638	47484	45864	45465	43377	43404	44192	43807	42640	44013	43153
Keokuk	42644	40248	38543	37862	36948	36898	37652	36664	35664	36008	35055
Kossuth	55372	53248	50811	49607	47524	47245	48297	48160	46580	47126	46100
Lee	129265	122406	115644	115900	111254	112433	115229	113330	110128	117489	114283
Linn	446477	422296	404478	389684	375314	379978	387909	376404	360169	381708	371885
Louisa	31888	31053	29104	28210	27629	27391	28010	27520	26518	27846	25843
Lucas	34836	33335	31919	31322	30707	29314	30159	31810	30792	30966	30786
Lyon	31035	29800	28830	27880	26663	26920	27456	26577	25540	25181	24395
Madison	39458	37392	35767	35027	33660	32269	32505	32243	31765	31782	30690
Mahaska	66935	63251	60477	59261	57499	57061	58386	58511	55951	57760	56809
Marion	94038	90197	85981	83800	80896	78524	79045	77624	76802	78110	74602
Marshall	116930	112618	108440	106462	103388	106865	108648	107070	102125	108044	103751
Mills	88823	85032	82372	77950	78972	72569	60613	51309	40904	32585	31913
Mitchell	33464	31726	30569	30107	29305	30331	30647	30355	29093	30115	28819
Monona	42008	39943	37811	36462	34716	33544	33650	33972	33744	33911	33101
Monroe	33029	31641	30314	30108	29444	28213	29243	29325	28939	30262	29872
Montgomery	46806	43853	42042	40947	39136	39217	39712	39537	38636	39006	37237
Muscatine	110068	105059	99439	97567	92839	91393	94659	94313	90018	95574	92063
O'Brien	48679	47916	45648	43995	42284	43066	43377	41134	40609	40362	38380
Osceola	21947	20370	19476	19422	18683	18388	19145	18668	18261	18156	17220
Page	62390	59545	57088	56102	54084	53534	54233	53744	52016	53128	50796
Palo Alto	37818	36553	34481	33383	31935	31418	32200	32140	31426	31707	30667
Plymouth	62872	59463	56725	55293	52848	53120	53352	52908	50239	50323	48404
Pocahontas	32072	30289	28983	28326	27481	28190	28573	27842	27008	27444	27711
Polk	952864	895050	855274	831861	795769	781319	794940	790574	755508	791627	771409
Pottawattamie	270140	253265	245844	235951	226784	224725	230011	232825	221944	225901	224304
Poweshiek	53711	50294	48329	47455	45501	45176	45989	44501	43563	44851	43342
Ringgold	20263	18992	18083	17608	16875	16800	16576	16696	15881	15889	15782
Sac	42131	40742	38923	38167	36772	35549	36285	35760	35124	35669	35405
Scott	460350	434484	416349	403493	388665	377547	382849	377794	367076	389345	369065
Shelby	40588	38391	36628	35400	34014	35181	35116	33738	33153	32303	32371
Sioux	73350	69190	65591	63958	60943	61526	61788	59948	57850	57043	53941
Story	155654	150955	143393	140208	134901	135104	132828	129295	119212	122155	112275
Tama	56325	53123	50079	48832	47261	48092	48802	48521	45787	45969	45601
Taylor	25887	24851	23973	23418	22562	22891	23344	23163	22579	22807	22150
Union	46155	44493	43082	42367	40794	39847	40633	40982	40480	41267	39158
Van Buren	25316	24141	23292	23664	22342	21921	22504	22724	21716	22851	22745
Wapello	144639	137241	129991	129229	124843	124006	128485	126649	123929	129206	123964
Warren	83565	79007	75173	72654	70335	68037	68145	67674	64192	66404	64135
Washington	59131	56827	54120	51601	49228	48963	49664	48182	45699	46713	45534
Wayne	30540	28319	27701	27389	25805	24396	25042	25512	26850	26746	25636
Webster	144728	137665	131974	128167	123183	120557	122691	119558	118614	122320	116911
Winnebago	36052	34656	33271	32591	31186	31102	31743	31365	29686	30277	30487
Winneshiek	53069	50292	48035	47263	45650	45280	45836	44562	43137	44359	42401
Woodbury	336443	321261	306746	296690	287543	282666	285799	278421	270960	276691	269388
Worth	26631	25355	23956	23507	22723	23074	23685	23490	22397	22492	21996
Wright	50471	47817	45671	44875	44123	44663	45692	45274	43282	43437	41651
State of Iowa	8497083	8060737	7697141	7499749	7222122	7154129	7253043	7147049	6891186	7115810	6883432

Table 14. Percentage of Total Personal Income from Transfer Payments in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	19.1	19.0	17.4	16.6	17.7	16.7	16.5	18.0	18.3	20.2	17.7
Adams	21.5	21.6	19.9	19.4	21.3	19.2	19.6	20.4	20.8	19.9	17.2
Allamakee	20.1	20.0	17.9	17.8	18.5	17.2	18.0	18.8	17.0	20.9	19.3
Appanoose	27.6	27.4	26.2	26.1	26.2	25.9	27.2	28.8	28.0	28.5	26.7
Audubon	18.9	18.4	17.9	17.0	17.8	15.9	17.3	17.0	17.5	21.0	17.8
Benton	16.7	16.9	15.4	14.8	15.5	14.7	14.8	15.7	14.9	16.6	15.9
Black Hawk	17.9	17.7	16.7	16.7	16.6	16.9	17.8	17.1	15.8	16.4	15.2
Boone	24.4	25.1	23.9	22.8	24.4	22.4	20.9	20.2	18.3	17.3	16.9
Bremer	15.2	15.4	14.2	14.4	14.8	15.0	15.4	14.7	13.7	15.0	13.9
Buchanan	17.4	17.5	16.1	16.5	17.2	16.8	18.2	17.7	16.2	19.1	16.8
Buena Vista	17.4	17.2	16.2	15.8	16.3	16.0	15.7	15.6	15.9	17.0	16.3
Butler	20.7	20.2	18.4	19.4	18.7	17.5	17.9	16.6	16.3	18.9	17.4
Calhoun	21.8	23.3	21.5	19.2	19.3	18.9	18.6	18.7	18.0	18.0	17.1
Carroll	16.6	16.5	15.8	15.4	14.7	14.0	14.5	14.3	13.7	14.4	13.6
Cass	20.9	20.7	19.2	18.0	18.5	17.3	17.4	17.4	16.9	17.6	16.9
Cedar	14.8	14.2	13.2	12.9	13.3	12.9	13.6	13.2	12.1	14.0	13.1
Cerro Gordo	18.8	18.2	17.0	17.1	16.4	16.2	16.5	16.2	15.3	16.3	16.0
Cherokee	18.5	17.9	17.2	17.3	16.6	17.0	17.1	16.7	15.9	17.2	15.8
Chickasaw	17.3	17.3	15.8	15.7	15.9	14.9	15.8	16.0	14.9	17.6	16.2
Clarke	22.5	22.0	19.4	19.0	19.6	18.6	19.3	20.1	20.8	21.0	19.7
Clay	16.9	16.8	15.2	14.7	14.7	15.0	15.2	15.3	15.0	15.5	14.3
Clayton	19.7	20.0	17.6	17.7	18.6	16.6	17.2	18.2	16.8	22.9	19.7
Clinton	19.1	19.2	17.9	17.5	17.4	16.8	17.4	17.2	16.4	18.0	16.8
Crawford	19.0	18.9	17.9	17.6	16.7	15.7	15.8	16.1	15.8	17.5	15.2
Dallas	14.7	14.5	14.0	14.1	14.1	13.9	14.6	14.9	14.4	14.8	14.0
Davis	22.4	22.0	20.2	21.7	22.0	21.1	21.3	21.5	20.4	22.0	19.9
Decatur	29.3	27.6	25.6	24.2	26.3	22.9	23.2	23.9	25.0	27.3	23.8
Delaware	14.5	14.3	12.5	13.2	13.6	12.4	13.5	14.4	13.4	17.9	16.3
Des Moines	18.1	17.7	16.7	16.7	16.5	16.4	16.7	16.8	15.7	17.4	16.7
Dickinson	16.4	16.5	15.1	15.0	15.4	15.7	16.2	16.7	15.2	16.6	15.9
Dubuque	15.8	15.6	14.7	14.8	14.5	13.9	14.7	14.7	14.8	16.8	16.3
Emmet	22.2	22.4	20.1	20.1	19.8	18.9	18.7	18.4	18.3	19.9	17.8
Fayette	21.7	21.4	19.4	19.4	20.2	18.1	19.2	19.4	18.0	21.0	20.0
Floyd	20.7	20.0	18.3	18.8	18.5	17.5	18.1	18.4	17.1	19.7	18.0
Franklin	18.6	19.5	16.8	16.5	16.6	15.7	15.1	15.7	15.1	17.2	16.6
Fremont	22.7	22.9	21.6	21.1	20.0	19.5	17.7	17.7	19.0	17.0	17.6
Greene	19.6	20.8	20.3	18.5	19.4	16.9	17.0	18.2	17.8	16.9	16.5
Grundy	15.7	16.0	14.9	15.5	15.1	14.0	14.4	14.6	13.7	14.0	12.9
Guthrie	20.8	20.5	19.3	19.0	20.1	18.7	19.6	19.6	19.7	21.7	19.4
Hamilton	17.7	17.2	16.8	15.0	16.7	14.8	14.7	15.2	15.2	15.1	14.1
Hancock	18.2	18.6	16.0	16.0	15.1	15.1	14.3	13.8	13.2	14.2	13.7
Hardin	20.9	21.0	19.2	19.4	19.5	17.5	16.9	16.5	16.5	17.1	16.1
Harrison	23.4	24.1	22.0	22.3	21.2	20.1	19.6	19.1	19.8	20.9	18.9
Henry	16.6	16.7	15.7	16.0	16.0	15.4	15.9	16.4	16.0	17.7	16.5
Howard	21.8	21.2	19.1	18.8	19.6	16.5	16.9	18.2	16.5	20.1	18.5
Humboldt	19.8	21.0	18.6	16.7	17.6	16.7	16.7	17.3	16.2	16.9	15.5
Ida	17.6	18.2	16.2	15.9	15.6	15.6	16.0	15.3	14.5	18.6	16.3
Iowa	14.6	14.9	14.3	14.1	14.7	13.6	14.7	14.2	12.7	15.7	15.4
Jackson	20.5	20.3	18.4	18.4	18.7	16.9	18.0	18.3	17.6	21.1	19.4
Jasper	16.6	16.2	14.9	14.6	14.5	14.0	14.5	14.5	13.9	14.8	14.7

Table 14. Percentage of Total Personal Income from Transfer Payments in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	15.9	15.7	14.5	14.5	14.8	14.5	14.9	15.4	15.0	18.6	18.7
Johnson	9.0	8.7	8.3	8.3	8.5	8.7	8.7	8.8	8.2	8.8	8.6
Jones	17.7	17.5	15.8	16.0	16.4	15.7	16.5	16.4	15.4	18.5	17.3
Keokuk	22.4	21.9	20.1	19.7	21.2	17.9	19.3	18.9	18.3	20.5	19.3
Kossuth	17.6	19.7	16.4	15.2	15.1	14.7	14.3	15.1	14.5	15.2	15.0
Lee	19.5	19.1	18.1	18.3	17.9	17.9	17.6	17.3	16.6	18.3	17.6
Linn	12.6	12.4	11.8	11.5	11.5	11.9	12.5	12.5	12.2	13.1	12.6
Louisa	16.1	16.8	15.0	15.1	15.6	14.8	15.3	15.6	14.6	17.4	14.2
Lucas	23.6	23.3	21.6	21.0	21.0	19.8	20.3	22.3	21.5	22.0	20.9
Lyon	16.8	16.6	15.8	14.9	15.9	14.7	14.9	14.3	13.7	15.1	13.4
Madison	18.1	18.2	16.8	16.7	17.1	16.2	16.6	17.1	17.3	18.3	16.7
Mahaska	18.9	18.6	17.2	17.2	17.6	16.3	16.7	17.3	16.9	18.7	17.3
Marion	17.4	17.2	16.1	15.9	15.7	14.9	15.6	15.9	15.7	16.1	15.6
Marshall	16.5	16.0	15.3	15.0	15.6	15.5	15.6	15.4	14.5	15.4	14.7
Mills	32.8	32.3	31.3	30.3	30.6	28.7	24.7	22.4	19.2	16.2	15.6
Mitchell	16.8	16.3	14.9	15.2	16.1	14.7	15.1	15.9	15.0	17.9	17.0
Monona	25.5	26.8	23.9	22.7	23.2	22.1	21.1	21.4	21.6	23.0	19.2
Monroe	24.2	23.7	22.8	23.6	23.4	22.4	24.6	24.4	24.1	26.4	24.9
Montgomery	22.5	21.7	20.6	19.6	19.9	19.7	19.4	19.8	19.2	19.8	18.0
Muscatine	14.0	14.0	13.1	13.2	12.8	12.6	13.0	13.0	12.3	13.6	12.9
O'Brien	18.1	18.0	16.8	16.2	15.5	15.8	15.8	15.4	15.3	16.0	14.8
Osceola	18.8	17.8	16.7	16.7	16.5	16.0	16.9	17.4	16.4	17.3	16.0
Page	20.8	20.9	19.7	19.3	20.0	18.9	18.5	19.5	19.8	20.0	19.0
Palo Alto	21.8	23.1	19.9	19.5	19.0	17.4	17.4	17.2	18.6	19.1	17.2
Plymouth	14.7	14.4	13.7	13.7	14.6	13.4	14.2	14.1	13.7	16.0	14.2
Pocahontas	19.7	20.4	18.7	17.0	17.6	17.5	15.8	15.3	17.3	18.3	16.2
Polk	12.6	12.4	11.9	11.9	11.8	12.2	12.6	12.9	12.5	13.3	13.2
Pottawattamie	19.4	18.8	18.3	17.9	17.1	16.8	16.9	17.2	16.4	17.2	17.1
Poweshiek	16.0	15.5	14.5	14.3	14.5	13.7	14.4	15.0	14.3	15.9	15.0
Ringgold	25.4	25.5	23.1	21.4	23.3	21.0	20.7	23.5	23.7	23.0	20.0
Sac	20.3	21.2	19.4	18.8	18.7	17.7	16.8	18.0	17.3	19.1	17.2
Scott	15.5	15.0	14.2	14.2	14.1	13.7	13.9	13.7	13.2	14.3	13.3
Shelby	18.1	17.6	16.5	16.0	16.2	16.0	16.5	15.0	14.9	16.8	15.4
Sioux	14.9	14.6	14.0	13.7	14.0	13.4	13.6	12.8	12.3	14.1	13.6
Story	12.2	12.1	11.7	11.4	11.5	11.5	11.4	11.4	10.8	11.5	10.8
Tama	19.7	19.2	17.2	17.1	16.7	16.0	16.3	16.5	15.5	17.1	15.6
Taylor	26.5	26.7	25.4	24.9	25.5	22.2	21.9	22.2	24.2	23.8	20.5
Union	23.1	23.2	21.7	21.5	21.3	20.5	20.8	21.2	21.2	21.4	19.5
Van Buren	23.2	23.7	22.1	23.1	23.2	21.0	21.9	22.6	22.0	24.5	22.7
Wapello	24.4	23.9	22.5	22.7	23.0	22.7	23.3	22.5	21.6	22.9	21.5
Warren	12.9	12.8	12.2	12.1	12.1	12.0	12.3	12.4	11.9	12.7	12.2
Washington	16.9	16.5	15.3	15.3	15.7	14.4	14.7	14.0	12.8	14.3	13.4
Wayne	29.5	28.8	26.8	26.2	26.0	22.3	22.7	24.4	26.2	26.8	24.5
Webster	20.6	20.4	19.9	19.0	19.3	18.5	18.2	18.4	17.9	17.8	16.5
Winnebago	16.5	17.4	15.3	14.8	13.7	13.8	14.1	14.4	13.2	15.5	16.3
Winneshiek	15.3	15.2	13.9	14.4	15.2	14.1	14.8	15.3	14.3	18.6	16.9
Woodbury	18.2	18.4	17.7	17.4	17.1	16.9	17.5	17.2	16.9	17.3	16.7
Worth	21.1	21.0	17.9	18.1	17.6	16.8	17.2	17.2	15.9	18.8	18.3
Wright	21.0	21.3	19.2	17.2	18.2	17.9	17.6	17.6	15.5	16.4	15.6
State of Iowa	16.6	16.4	15.5	15.3	15.3	15.0	15.4	15.4	14.8	16.0	15.2

earnings increased each year from 1982 to 1992; the gain was 68.7 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 \$5.5 billion is more than twice that of Linn's \$2.5 billion; Black Hawk, Johnson, Scott, and Woodbury also reported earnings in this category of at least \$1 billion in 1992 (Table 3). Adams, Ringgold, Taylor, and Wayne are the only counties with nonfarm earnings of less than \$50 million in 1992, although another 28 were under \$100 million that year.

Although the state had an inflation-adjusted increase in nonfarm earnings of \$4.3 billion (16.0%) from 1982 to 1992, 18 counties had lower nonfarm earnings in the later year after inflation is factored into the calculations (Table 4). Fourteen of the 18 experienced declines of at least \$1 million, although Black Hawk's decrease of \$94 million far surpassed Wright's \$18 million drop, which was the second greatest decline. In the remaining 81 counties, changes in nonfarm earnings exceeded the rate of inflation. Polk's increase of \$1.4 billion was followed by a \$500 million gain in Linn. Six others reported at least \$100 million more in adjusted nonfarm earnings in 1992 than in 1982. Inflation-adjusted changes in nonfarm earnings range from a decline of 14.4 percent in Wright to a gain of 43.8 percent in Jefferson when 1982 and 1992 are compared.

In 1982, nonfarm earnings accounted for 59.7 percent of total personal income in Iowa. This percentage changed little between that year and 1992, when the figure was 61.3 percent (Table 5). Substantial differences occurred in counties, however. In 1992, 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 40 percent of the total in Greene and Sac. Nonfarm earnings were less than half of total personal income in another 41 counties in 1992.

Farm Earnings

Iowa's farm earnings totaled nearly \$2.3 billion in 1992, the highest of the 11 years reported (Table 6). Farm earnings declined in 3 of the 10 year-to-year comparisons and were negative for the state in 1983. Although farm earnings dropped \$711 million between 1990 and 1991, they rebounded by \$741 million between 1991 and 1992.

Among counties, farm earnings in 1992 varied from \$2.4 million in Monroe to \$63.9 million in Sioux. Seven (including Sioux) exceeded \$40 million. Twelve (including Monroe) listed less than \$10 million in farm earnings; these 12 are in the southern section of Iowa.

Farm earnings can be negative because losses can exceed gains in a particular year. The farm crisis clearly is indicated in the earnings reported; at least one county from 1982 through 1986 reported negative farm earnings. One year--1983--was particularly noteworthy; two-thirds (66) of the counties had negative farm earnings that year and so did the state. From 1987 through 1992, however, all counties had positive farm earnings each year. Inflation-adjusted farm earnings (Table 7) still show significant year-to-year variations. The adjusted figure was highest in 1987 (\$2.7 billion); it was \$2.4 billion in 1989 and 1990.

Farm earnings constituted a relatively small percentage of Iowa's total personal income in the 1982-1992 period (Table 8). The 5.7 percent reported for 1987 was the highest, while negative farm earnings for the state in 1983 translated into a negative percentage (-0.6%) of that year's total income. In 1992, farm earnings accounted for at least 10.0 percent of total income in 37 counties; in 12 of these counties, which tended to be the most rural of this group, at least 15.0 percent of total income was generated through farm earnings. Less than 2 percent of total income was generated through farm earnings in 10 counties; these generally were Iowa's most urban counties.

Dividends, Interest, and Rent

Income from dividends, interest, and rent increased from 1982 to 1986, declined from 1986 to 1988, gained again from 1988 to 1991, and then decreased slightly from 1991 to 1992's figure of \$9 billion (Table 9). Over the period, income from this source increased by \$1.9 billion. In 1992, dividends, interest,

and rent provided income exceeding \$1.1 billion in Polk and more than \$450 million in Linn and Scott. It was at least \$100 million in another 15 counties.

After adjustments are made for inflation, income from dividends, interest, and rent was \$1.4 billion lower in 1992 than 10 years earlier (Table 10). The percentage that income from this source constituted of total personal income declined during this period. In 1983, 23.3 percent of total personal income came from dividends, interest, and rent (Table 11). Percentages decreased steadily from that point to 17.7 percent in 1992. Part of the decline in the percentage of total income accounted for by this source is related to reductions in interest rates; but land values also decreased during some of these years, resulting in lower rental rates.

Again, differences occur across counties. Dividends, interest, and rent account for at least 20.0 percent of total personal income in 52 counties, although Cass (25.1%) was the only one above 25.0 percent. Louisa, Mills, Polk, Pottawattamie, and Warren had less than 15.0 percent of total income coming from dividends, interest, and rent.

Transfer Payments

The final category of income includes transfer payments, which increased annually from \$4.7 billion in 1982 to \$8.5 billion 10 years later (Table 12). Nineteen counties listed at least \$100 million in transfer payments in 1992, although only Polk (\$953 million) reported a total greater than \$500 million. Adams (\$16 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 13). These payments increased 23.4 percent from 1982 to 1992, with annual gains occurring from 1987 to 1992. The percentage of total personal income that comes from transfer payments also increased (Table 14). The 1984 figure of 14.8 percent, the lowest reported for the 1982-1992 period, increased to 16.6 percent in 1992.

Only in Johnson (9.0%) did less than 12 percent of total personal income come from transfer payments in 1992. Mills (32.8%) was the only county with more than 30 percent of income generated by this source, although Decatur (29.3%) and Wayne (29.5%) were close to that level. 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 1992, 61.3 percent of total personal income came from nonfarm earnings; 4.5 percent from farm earnings; 17.7 percent from dividends, interest, and rent; and 16.6 percent from transfer payments (Figure 2). The percentages for 1982 were 59.7, 2.1, 23.0, and 15.2, respectively. While three of these categories had increases, the percentage of income derived from dividends, interest, and rent declined. This occurred even though the actual income from dividends, interest, and rent increased during the period under study; the share of total personal income from this source declined because gains were greater in other categories of income.

When 1982 and 1992 are examined across Iowa's 99 counties, nonfarm earnings constituted the highest percentages of total personal income in all counties in both years. Farm earnings almost always were the smallest percentages among the four categories included in this report. The exceptions to this were Delaware and Lyon in 1992 and Lyon and Pocahontas in 1982; transfer payments were a somewhat smaller share of total income than were farm earnings those years in these counties. Even in Iowa's most rural counties, then, dividends, interest, and rent or transfer payments usually contributed greater shares of total income than did farm earnings.

Figure 1. Total personal income, 1992.

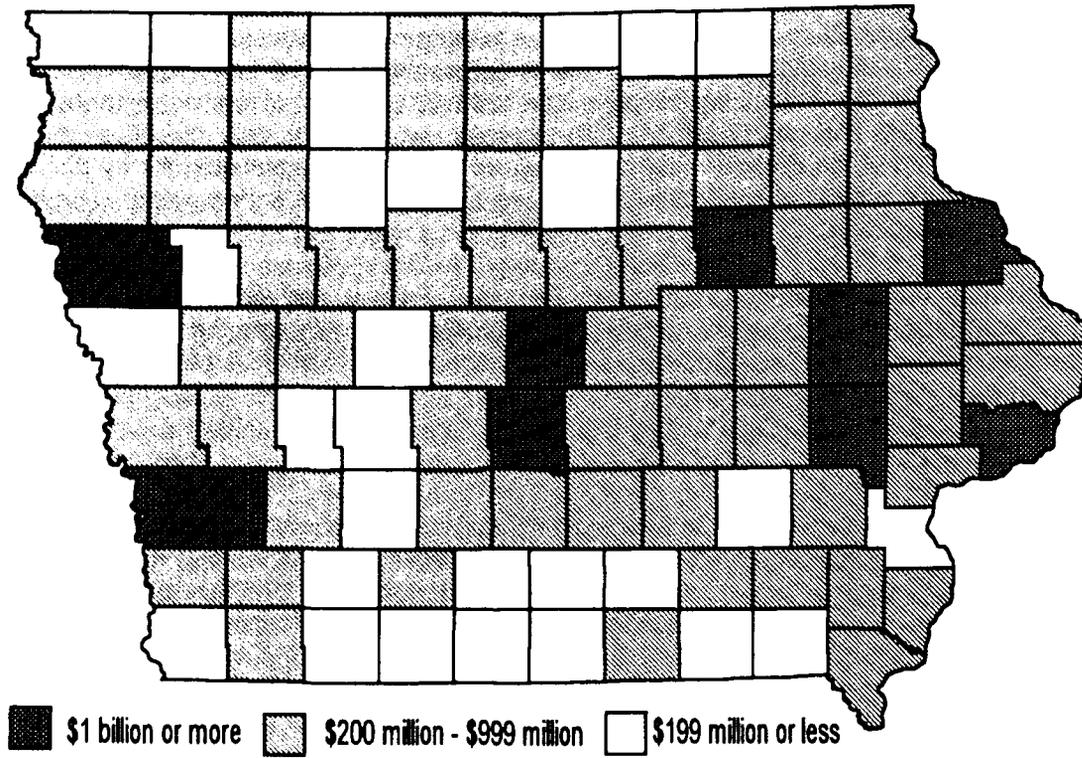
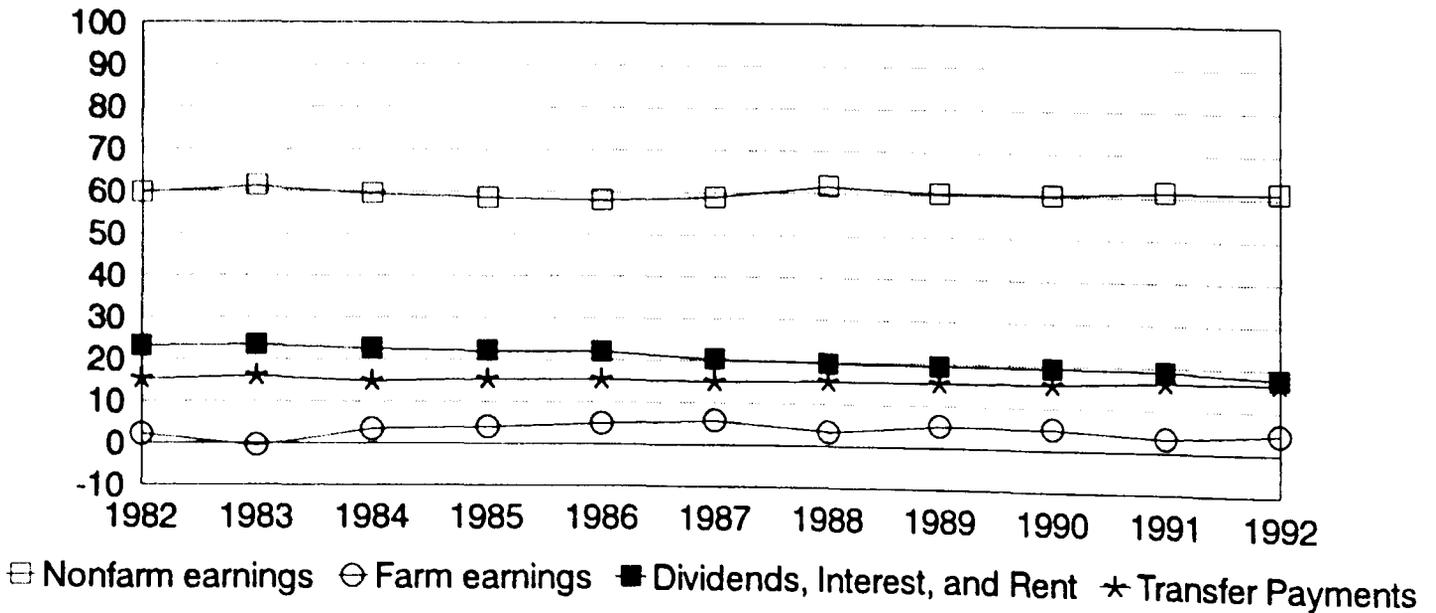


Figure 2. Percent of income from selected sources, 1982-1992.



Estimated Employment and Unemployment in Iowa's Counties: 1978-1993

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Iowa's labor force was estimated to include 1,550,000 people in 1993, which is the highest figure reported for the period included in Table 1 (1978-1993). Although the state's labor force grew steadily from 1978 to 1980, it then generally declined 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. Since then, increases occurred. The gain of 46,000 from 1992 to 1993 was exceeded only by the increase of 51,000 between 1987 and 1988. 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 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 1993, Polk county had 207,300 in the labor force, nearly double the next highest county (Linn, 104,200). Adams and Ringgold, in contrast, reported fewer than 3,000 in the labor force. Polk's labor force increased by 44,300 between 1983 and 1993. Dubuque, Johnson, Linn, Scott, Story, and Woodbury each had gains of more than 5,000. Although Iowa had 130,000 more people in the labor force in 1993 than in 1983, 54 counties had a smaller labor force at the end of the period. Of these 54 counties, eight had declines of more than 1,000, with the decreases of 2,050 in Fremont and 2,420 in Kossuth the only ones greater than 2,000.

Employment

Employment in Iowa in 1993 (1,488,000) was 40,000 above that for 1989 (Table 2), which was the previous high point in the period examined. The annual gains recorded from 1985 through 1989 and again from 1990 to 1993 show that the state rebounded from employment losses from 1979 through 1982 and from 1984 to 1985.

In Iowa's counties in 1993, the number employed ranged from under 3,000 in Adams and Ringgold to 200,000 in Polk. Seventeen counties were in the 3,000 to 4,999 range. Five urban counties (Black Hawk, Johnson, Linn, Scott, Woodbury), in addition to Polk, had more than 50,000 employed in 1993; another 28 had employment totals ranging from 10,000 to 49,000.

The state had 183,000 more employed persons in 1993 than in 1983, an increase of 14.0 percent. Polk increased the most (+49,100) and Linn was second (+22,900); Dubuque, Johnson, and Scott were the only other counties gaining at least 10,000 employees. Dubuque, Polk, Johnson, Linn, and Scott together accounted for more than three-fifths (62.2%) of the state's gain in employment from 1983 to 1993. Thirty-eight counties had lower numbers employed in 1993 than in 1983. Six (Cass, Crawford, Fremont, Hardin, Kossuth, Wright) had decreases of at least 1,000, with the drop of 2,030 in Kossuth the only decline exceeding 2,000.

Table 1. Labor Force Estimates in Iowa Counties, 1978-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	4100	4170	4020	4030	4550	4620	4410	4450	4430	4420	4560	4440	4450	4560	4600	4760
Adams	2350	2410	2420	2440	3100	3190	3050	2920	2870	3030	2780	2660	2590	2690	2640	2650
Allamakee	7430	7390	7270	7170	7680	7630	7470	7510	7390	7380	7150	6990	6920	7040	7160	7380
Appanoose	6720	6680	6620	6350	6530	6600	6320	6150	5850	5910	5780	6020	6020	6110	6150	5950
Audubon	3640	3810	3740	3600	3510	3490	3490	3660	3740	3880	4090	4050	4100	4060	4110	4200
Benton	11910	11380	11120	11540	10790	10800	10230	10730	10650	10660	10830	10940	10910	11200	11040	10860
Black Hawk	68800	65900	63800	61900	61400	60600	58060	59220	59880	61710	64950	67170	68690	69500	68920	67850
Boone	13440	12990	12760	12640	12800	12890	12040	12250	11940	12070	12310	12090	12290	12300	12570	12540
Bremer	12500	12200	11800	11300	10700	10500	10120	10120	10190	10590	11190	10720	10610	10920	10640	10700
Buchanan	10380	10020	9830	9540	9950	10080	9810	9970	9900	10130	11270	11110	10910	11250	10940	10800
Buena Vista	11030	10770	10540	10000	11350	11630	11090	10940	10990	10930	11110	10330	10560	10750	10570	10540
Butler	8010	7940	7620	7380	7450	7350	7470	7660	7730	7920	8140	7820	7880	8290	8190	8340
Calhoun	5370	5170	5060	4980	5510	5560	5450	5580	5660	5790	6150	6200	6200	6240	6120	6030
Carroll	11870	11510	10970	10670	11720	11440	11120	11160	11080	11200	12270	12050	12180	11700	11610	11460
Cass	7790	7690	7500	7540	8520	8400	8260	8340	8510	8780	9250	8970	8910	8890	8920	9070
Cedar	9580	9250	9240	9080	9670	9560	9030	8980	8880	9020	8440	8520	8290	8370	8550	8540
Cerro Gordo	25860	25320	25730	25160	26370	26490	25610	25570	25450	24710	24110	23920	24620	24090	24200	24430
Cherokee	6990	6910	6890	6730	7010	7120	7100	7510	7450	7550	7740	7610	7630	7710	7830	7910
Chickasaw	7450	7260	7120	7060	7320	7220	7170	7320	7470	7340	7330	7130	7170	7340	7100	7180
Clarke	3950	4180	4350	4220	4590	4440	4200	4140	4010	3920	4700	4550	4710	4820	4570	4400
Clay	9300	8990	8820	8970	9270	9240	8780	8750	8890	9150	9810	9900	10080	10240	10340	10190
Clayton	9520	9550	9210	9210	10200	10220	9770	10010	9930	10110	10540	10320	10250	10300	10460	10270
Clinton	27130	26910	26120	25480	23820	23790	23030	23230	23260	23940	25570	26570	26960	28050	27630	26900
Crawford	8860	8630	8430	8500	8980	9200	9120	9150	9060	9240	10470	10230	10130	9840	9810	9730
Dallas	17500	16900	16300	16100	17000	16300	15480	15200	15020	15820	15520	13560	13300	13450	13180	13600
Davis	4220	4070	4010	3870	3840	3870	3740	3860	3680	3760	3700	3720	3690	3600	3650	3650
Decatur	3960	3890	3850	3790	3930	3820	3940	4070	4230	4090	3980	4160	4070	4160	3960	4010
Delaware	8990	9060	8980	8850	8880	8720	8410	8420	8490	8760	9140	8960	8880	8950	8790	8600
Des Moines	23300	22900	22410	21990	23100	23020	22480	22120	21410	21520	19060	19240	19600	19720	19540	19620
Dickinson	9450	8790	8250	8030	9780	9340	8770	8650	8510	8670	7700	7480	7430	7380	7560	7710
Dubuque	49700	48000	47100	45800	44900	44700	43590	43360	42330	41900	42750	43100	44980	45670	45590	45740
Emmet	5800	5750	5750	5590	5050	5100	5070	5220	5410	5690	5920	6160	6340	6280	6260	6240
Fayette	10750	10640	10420	10310	10550	10610	10380	10870	11130	11470	11530	11420	11370	11560	11790	12020

Table 1. Labor Force Estimates in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Floyd	8700	8730	8610	8550	8730	8720	8410	8390	8470	8620	7680	7740	7750	7980	8130	8250
Franklin	5790	5800	5680	5730	5290	5340	5480	5710	5770	5670	6300	6350	6280	6540	6490	6490
Fremont	3980	3810	3720	3740	4300	4300	4290	4350	4590	4830	6030	5820	5800	5580	5620	5110
Greene	5260	5240	5010	4900	5230	5190	5190	5290	5320	5400	5350	5320	5300	5640	5660	5630
Grundy	6130	6020	5840	5780	6770	6670	6480	6660	6750	6980	6410	6290	6170	6200	6190	6340
Guthrie	5840	5620	5670	5480	5390	5260	5210	5370	5320	5280	5750	5670	5590	5750	5530	5520
Hamilton	8460	8670	8450	8330	10400	10200	9420	9420	9150	9270	9160	8990	8960	8650	8720	8580
Hancock	5810	5920	5980	6230	6430	6350	6070	6130	6180	6100	6680	6740	7070	7120	7280	6840
Hardin	9500	9460	9450	9430	9580	9760	9790	9950	9960	10120	10880	10860	10950	10890	10970	10890
Harrison	7610	7350	7170	7090	6960	7040	6800	6830	6930	7080	7460	7330	7130	7180	7220	7110
Henry	10690	10440	10160	10040	12280	11830	10910	10440	9970	9460	10000	9860	9940	9900	10120	10750
Howard	4840	4880	4710	4610	5030	5090	4970	4990	5060	5030	5520	5400	5390	5610	5470	5470
Humboldt	5220	5130	5010	4970	5330	5510	5260	5430	5510	5550	5510	5430	5520	5460	5550	5910
Ida	4030	3830	3760	3880	4740	4720	4370	4210	4160	4150	4480	4320	4170	4250	4450	4600
Iowa	9250	8890	8340	7970	8620	8370	8140	8100	8050	8270	8970	8650	8970	9250	8940	9130
Jackson	10890	10580	10250	9990	10880	10800	10270	9980	10100	10130	10480	10390	10300	10390	10380	10280
Jasper	18000	17860	17900	17880	17950	18120	17710	17220	17380	17370	16010	15870	16040	16420	16390	16590
Jefferson	9440	8960	8590	8520	9220	9180	8470	8530	8080	7980	7490	7570	7720	7840	7850	7570
Johnson	63700	60200	58600	57600	62000	60600	59520	58130	54750	53960	48280	45980	44620	43720	42860	42630
Jones	9340	9520	9300	9280	9430	9150	8850	8870	8750	8780	9780	9910	9690	10020	9920	9830
Keokuk	5100	5220	5250	5330	5820	5700	5540	5830	5940	5770	5320	5310	5220	5240	5410	5410
Kossuth	8750	8880	8860	8830	9250	9190	9080	9560	9780	9760	11170	11060	11090	11410	11490	11370
Lee	19380	19380	19420	18850	18450	18520	18450	18700	18630	18810	20210	20620	21390	21430	21760	21730
Linn	104200	99200	96300	96100	97700	96500	91790	89340	85720	83960	84650	85570	87890	89620	88490	84730
Louisa	6550	6400	6120	5940	7800	7790	6610	5860	5110	4960	4890	5600	6160	5370	4550	4590
Lucas	4360	4400	4280	4260	4940	4930	4810	4950	5000	4990	4670	4620	4630	4550	4570	4660
Lyon	5930	5870	5650	5650	6170	6040	5780	5890	5590	5720	6130	6080	6020	6360	6450	6620
Madison	7070	6470	6380	6380	6170	6290	5970	5800	5570	5640	5700	5720	5780	5860	5960	5970
Mahaska	11110	10750	10560	10560	10500	10540	10180	10150	10060	9940	9790	9660	9850	9940	10320	10390
Marion	17000	16260	15850	15710	16370	16190	15560	15010	14260	13930	16170	15940	16330	16270	16000	15670
Marshall	20460	20140	20150	19990	20280	19950	19350	19920	19720	20510	19570	19680	19320	19370	19110	19890
Mills	6760	6700	6610	6440	5610	5620	5460	5570	5850	6050	6450	6570	6410	6410	6420	6390
Mitchell	5460	5270	5160	5150	5830	5770	5640	5760	5760	5650	6120	6090	6070	6000	5930	5990

Table 1. Labor Force Estimates in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Monona	5220	4830	4460	4460	4780	4780	4670	4790	4890	5100	5470	5350	5300	5400	5430	5400
Monroe	4060	3920	3900	3740	4000	3700	3670	3710	3870	3810	4330	4400	4930	4850	4940	5030
Montgomery	6010	5960	5990	6120	6460	6130	5870	5900	6080	6320	6480	6370	6350	6570	6690	6370
Muscatine	21740	21330	20870	20820	21630	21400	20980	21070	20760	20480	21610	21640	21510	20360	19800	19750
O'Brien	7930	7640	7410	7320	8080	8070	7760	7750	7720	7900	8270	7970	7770	7880	7730	8070
Osceola	3630	3680	3580	3510	3540	3500	3420	3480	3510	3690	3510	3540	3520	3440	3590	3620
Page	8910	8500	8160	8120	8450	8410	8130	8400	8570	8750	9020	9080	8940	9020	9190	9750
Palo Alto	5340	5180	4910	4840	5240	5230	5190	5190	5380	5640	5630	5510	5400	5480	5380	5510
Plymouth	12870	12540	12370	11810	12510	12490	12140	11900	11720	11650	11490	11320	11320	11420	11440	11450
Pocahontas	4270	4300	4300	4340	4960	4920	4820	4820	4830	5000	4750	4780	4770	4720	4890	4960
Polk	207300	198900	193000	189200	199100	196100	186320	179650	171370	166850	163030	165450	165500	165770	164470	164100
Pottawattamie	46500	44900	44000	43800	48700	48300	47330	46800	44890	46070	41920	42170	41990	41170	43540	42110
Poweshiek	10240	10100	9780	9960	10920	10830	10300	9980	9710	9490	10260	10230	10090	10170	10320	10170
Ringgold	2700	2720	2620	2570	2580	2590	2520	2610	2580	2670	3340	3300	3300	3230	3270	3300
Sac	6040	6050	5910	5880	5690	5690	5560	5700	5710	6030	6200	6250	6220	6390	6400	6630
Scott	85000	82800	80400	78800	82800	83700	81570	80900	75880	72770	72410	74620	75760	75050	73780	68780
Shelby	6740	6690	6640	6540	6850	6910	6690	6890	7050	7060	6820	6730	6750	6570	6460	6490
Sioux	16700	15980	15390	15200	16390	15980	15150	14900	15160	14890	16560	15790	15790	16200	16070	15570
Story	44480	42960	41930	41780	42550	42080	40100	39610	38950	38500	39240	38170	37960	38470	38230	39020
Tama	9110	8130	8170	8240	8870	8920	8870	8860	8680	8440	9800	9740	9430	9680	9610	9850
Taylor	3210	3250	3330	3120	3360	3330	3390	3510	3540	3640	3570	3540	3480	3500	3490	3560
Union	6660	6410	6110	6100	6620	6540	6330	6370	6200	6320	7320	7350	7320	7160	7360	7160
Van Buren	4030	3820	3720	3620	3630	3650	3750	3780	3740	3700	3910	3850	3890	3820	3760	3820
Wapello	18350	17760	17370	16920	15840	15700	15440	16260	16420	16910	16400	16490	16900	17150	17280	16710
Warren	22300	21400	20700	20300	20600	20400	19290	18540	18580	18850	18290	18540	18680	18850	18480	18460
Washington	11060	10920	10700	10400	9520	9510	9470	9600	9580	9690	9740	9630	9810	9880	10040	10220
Wayne	3250	3310	3170	3230	3280	3250	3220	3260	3270	3370	3810	3760	3790	3710	3820	3860
Webster	20120	19750	19480	19450	20810	20800	20200	20570	20880	21180	21600	22000	22530	22920	22950	22970
Winnebago	6670	6340	5960	6380	7640	7790	7350	7120	7250	7330	6260	5820	5690	5860	6800	7640
Winneshiek	11840	11700	11420	11280	13120	12050	12350	12330	11940	11840	12120	11880	11640	11340	10990	11090
Woodbury	54700	52400	51200	50000	52300	51800	51200	49310	48250	48400	46790	45890	47000	46110	48890	50890
Worth	4000	3900	4010	4030	4980	4870	4650	4430	4450	4550	4010	3830	3810	3970	3890	3990
Wright	6940	7140	7180	7110	7970	7790	7500	7640	8000	8350	8240	7980	7660	7630	7870	7930
State of Iowa	1550000	1504000	1469000	1448000	1513000	1500000	1449000	1439000	1412000	1411000	1420000	1417000	1427000	1432000	1425000	1418000

Table 2. Estimates of the Number Employed in Iowa Counties, 1978-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	3960	4030	3890	3920	4380	4480	4260	4250	4220	4220	4310	4250	4270	4370	4450	4580
Adams	2270	2300	2300	2340	3000	3100	2940	2800	2710	2890	2630	2510	2480	2580	2530	2560
Allamakee	7090	6970	6890	6780	7220	7240	6980	6930	6620	6690	6520	6340	6310	6470	6720	7010
Appanoose	6380	6270	6190	5920	6120	6200	5860	5570	5190	5280	5020	5170	5410	5460	5710	5410
Audubon	3550	3700	3630	3470	3380	3370	3310	3380	3420	3600	3830	3840	3910	3910	4000	4080
Benton	11450	10830	10550	10970	10300	10330	9620	9910	9750	9950	9880	9580	10090	10630	10710	10550
Black Hawk	65100	61800	60000	58600	58100	57100	53190	51650	51260	54300	56350	59010	63170	64630	65690	64630
Boone	12950	12420	12140	12120	12300	12430	11410	11480	11160	11400	11390	11220	11670	11730	12140	12130
Bremer	12000	11600	11300	10900	10300	10100	9400	9140	9230	9780	10160	9680	9890	10280	10270	10330
Buchanan	9830	9400	9270	9050	9440	9590	9120	9040	8790	9090	9960	10030	10140	10540	10520	10400
Buena Vista	10710	10470	10270	9740	11100	11310	10720	10450	10450	10440	10560	9580	10090	10410	10320	10190
Butler	7590	7420	7160	7040	7090	6960	6930	6930	6980	7280	7270	7040	7290	7780	7950	8080
Calhoun	5160	4990	4890	4860	5360	5360	5190	5230	5220	5480	5800	5830	5920	6030	5960	5860
Carroll	11500	11160	10570	10240	11180	10940	10480	10370	10190	10540	11500	11160	11370	11070	11220	11030
Cass	7400	7280	7110	7130	8160	8050	7790	7820	7840	8080	8740	8490	8460	8520	8670	8770
Cedar	9270	8910	8960	8830	9370	9200	8630	8450	8280	8570	7890	7940	7950	8090	8360	8350
Cerro Gordo	24550	23820	24360	23860	25110	25160	24140	23750	23390	23010	22220	22020	22860	22610	22950	23270
Cherokee	6790	6680	6680	6530	6770	6860	6660	7000	7050	7190	7360	7210	7200	7420	7620	7660
Chickasaw	7020	6780	6640	6650	6930	6830	6630	6570	6560	6590	6360	6290	6400	6550	6760	6800
Clarke	3620	3900	4060	4000	4350	4160	3930	3790	3650	3600	4350	4150	4380	4520	4380	4180
Clay	9020	8710	8530	8760	9010	8950	8360	8210	8200	8440	9270	9340	9510	9760	9990	9680
Clayton	9000	8970	8660	8710	9630	9640	9110	9190	8860	9190	9570	9270	9410	9480	9960	9830
Clinton	25820	25340	24560	24050	22230	22170	21250	21120	20750	21570	22560	23260	24760	26470	26530	25900
Crawford	8490	8270	8070	8040	8310	8560	8670	8600	8450	8690	9900	9580	9640	9490	9410	9360
Dallas	17000	16300	15800	15500	16000	15700	14800	14230	14140	14980	14480	12580	12460	12670	12690	13040
Davis	4030	3860	3770	3730	3630	3610	3420	3440	3320	3450	3270	3330	3390	3400	3490	3450
Decatur	3670	3590	3600	3550	3800	3630	3700	3750	3930	3830	3650	3910	3850	3960	3800	3860
Delaware	8480	8570	8520	8450	8360	8320	7920	7750	7550	8020	8190	8030	8150	8270	8480	8250
Des Moines	22080	21510	21130	20880	21750	21610	20990	20210	19130	19470	16550	16770	17650	18150	18560	18620
Dickinson	9140	8490	7970	7770	9490	8970	8300	7970	7710	8060	7120	6920	6970	6980	7230	7380
Dubuque	47700	45500	44400	43300	42200	42300	40920	40000	38280	38320	37580	36960	40150	41760	43040	43330
Emmet	5550	5440	5430	5290	4760	4800	4630	4580	4610	5070	5120	5380	5910	5940	6040	6030
Fayette	10240	10030	9870	9840	10080	10120	9710	9880	10000	10470	10370	10220	10610	10780	11220	11470

Table 2. Estimates of the Number Employed in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Floyd	8110	8130	8060	8100	8290	8230	7770	7500	7170	7770	6370	6620	6800	6960	7650	7670
Franklin	5570	5550	5440	5500	5060	5070	5090	5310	5350	5290	5800	5910	6020	6280	6310	6320
Fremont	3780	3590	3530	3610	4140	4130	4090	4050	4200	4470	5740	5550	5620	5440	5490	4960
Greene	5040	5010	4760	4670	4880	4940	4900	4890	4820	4970	4920	4870	4920	5290	5490	5430
Grundy	5940	5790	5630	5630	6580	6410	6200	6260	6340	6600	5920	5910	5930	5920	6040	6120
Guthrie	5600	5370	5410	5260	5060	5060	4930	4960	4940	4960	5420	5320	5270	5480	5350	5320
Hamilton	8150	8240	8100	7940	10030	9900	9040	8860	8570	8710	8570	8450	8450	8250	8420	8240
Hancock	5580	5540	5640	5870	6130	6140	5760	5650	5590	5760	6250	6210	6710	6590	6940	6600
Hardin	9100	8970	8920	8990	9190	9250	9140	9340	9370	9510	10360	10340	10480	10520	10730	10640
Harrison	7250	6930	6800	6830	6560	6600	6360	6290	6290	6540	6820	6730	6750	6860	6900	6830
Henry	10300	9950	9710	9680	11810	11370	10360	9830	9230	8760	9190	9060	9180	9320	9750	10350
Howard	4650	4670	4520	4430	4760	4770	4700	4590	4590	4670	5090	4960	5050	5260	5250	5230
Humboldt	5040	4960	4810	4810	5160	5350	5020	5050	5080	5170	5110	5070	5220	5170	5330	5720
Ida	3920	3720	3630	3780	4610	4600	4230	4040	3950	3980	4340	4180	4040	4110	4340	4500
Iowa	9030	8660	8130	7760	8420	8150	7870	7650	7530	7930	8550	8070	8550	8980	8730	8950
Jackson	10350	9920	9600	9370	10100	10000	9490	9050	8920	9140	9070	8990	9260	9480	9770	9660
Jasper	17350	17150	17140	17250	17210	17370	16850	16110	16300	16230	14630	14180	14760	15160	15670	15950
Jefferson	9020	8470	8190	8150	8770	8740	7880	7850	7500	7470	6870	6790	7190	7370	7550	7320
Johnson	62000	58400	56900	55900	61000	59400	58310	56590	53040	52640	46570	44040	42510	42190	41720	41630
Jones	8900	8980	8840	8860	9040	8790	8350	8270	8010	8120	8950	9010	9080	9470	9610	9520
Keokuk	4830	4900	4970	5090	5530	5380	5200	5350	5450	5320	4810	4750	4670	4800	5130	5160
Kossuth	8430	8450	8370	8430	8820	8730	8500	8810	8940	9120	10460	10260	10390	10720	10940	10960
Lee	18040	17900	17990	17670	17060	16990	16660	16790	16680	16990	17960	18150	19460	19900	20730	20850
Linn	100600	95000	91700	91200	94100	93000	87030	83780	79570	77940	77650	77300	80800	83800	85250	81880
Louisia	6220	6030	5810	5680	7490	7500	6270	5450	4590	4540	4350	5270	5930	5160	4340	4330
Lucas	4090	4100	4050	4000	4700	4720	4540	4660	4620	4650	4350	4260	4340	4280	4350	4400
Lyon	5770	5720	5530	5540	6020	5870	5590	5620	5330	5460	5860	5880	5750	6100	6280	6450
Madison	6770	6130	6040	6110	5850	5960	5660	5340	5160	5240	5230	5250	5370	5530	5730	5740
Mahaska	10670	10290	10080	10120	10000	10160	9710	9460	9220	9320	9090	8860	9190	9390	9960	10050
Marion	16410	15700	15230	15140	15820	15670	15010	14370	13700	13350	15420	15100	15670	15640	15590	15260
Marshall	19630	19330	19410	19330	19510	19140	18170	18490	18170	18950	17490	17820	18130	18300	18400	19230
Mills	6540	6420	6380	6220	5380	5410	5200	5180	5420	5710	6150	6280	6150	6210	6220	6230
Mitchell	5260	5060	4950	4960	5630	5560	5360	5330	5210	5240	5530	5590	5570	5520	5610	5660

Table 2. Estimates of the Number Employed in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Monona	5010	4610	4260	4300	4550	4490	4330	4390	4450	4700	5090	4960	4980	5100	5160	5130
Monroe	3850	3710	3680	3530	3750	3440	3360	3230	3370	3320	3780	3780	4470	4510	4660	4750
Montgomery	5750	5670	5730	5840	6140	5890	5590	5520	5550	5860	6080	5970	6010	6240	6520	6190
Muscatine	20870	20150	19740	19820	20540	20290	19710	19540	19180	19060	19950	20130	20310	19380	18930	18850
O'Brien	7720	7390	7230	7150	7900	7840	7450	7360	7350	7510	7920	7640	7450	7610	7520	7810
Osceola	3520	3560	3470	3410	3400	3320	3250	3230	3240	3450	3270	3280	3300	3260	3440	3480
Page	8560	8020	7680	7740	8040	8070	7700	7830	7870	8150	8320	8410	8510	8660	8930	9450
Palo Alto	5160	5010	4720	4660	5050	5030	4990	4870	4920	5210	5170	5100	5050	5190	5170	5300
Plymouth	12530	12090	11950	11460	12090	12000	11580	11240	10900	10970	10870	10670	10720	10940	10950	10970
Pocahontas	4140	4140	4170	4240	4840	4780	4640	4580	4540	4750	4440	4420	4510	4540	4740	4820
Polk	200000	191400	186100	183200	192000	188800	177970	169300	160110	156950	150850	152150	153370	156450	157590	157530
Pottawattamie	44600	42600	41900	41900	46400	46000	44460	43530	41510	42580	39150	38780	38600	38630	41240	39990
Poweshiek	9750	9640	9350	9520	10540	10500	9910	9480	9090	8930	9600	9540	9590	9640	9980	9860
Ringgold	2600	2600	2510	2460	2460	2460	2340	2450	2400	2470	3050	3110	3180	3120	3160	3200
Sac	5830	5860	5670	5640	5390	5360	5210	5240	5180	5490	5550	5560	5810	6080	6180	6400
Scott	81000	78200	76600	75300	77900	78000	76200	74950	69640	66970	64630	66260	69750	71100	70770	65480
Shelby	6440	6320	6290	6270	6520	6570	6310	6410	6420	6470	6430	6360	6410	6310	6220	6230
Sioux	16300	15550	14990	14810	16060	15610	14560	14210	14430	14240	15910	15070	15040	15530	15560	15100
Story	43170	41400	40400	40380	41840	41360	39160	38350	37640	37280	37570	36540	36440	37160	37330	38230
Tama	8710	7680	7730	7870	8500	8510	8310	8190	8000	8020	9360	9270	9120	9410	9370	9580
Taylor	3070	3090	3170	3000	3220	3200	3180	3260	3250	3380	3270	3320	3340	3360	3370	3440
Union	6360	6130	5760	5810	6360	6230	5930	5950	5750	5800	6780	6890	6880	6800	7080	6880
Van Buren	3850	3620	3520	3500	3350	3380	3420	3420	3360	3410	3530	3440	3580	3530	3600	3660
Wapello	17300	16550	16100	15920	14780	14540	13870	14070	14460	15200	14310	14450	14930	15790	16100	15730
Warren	21600	20700	20000	19800	20000	19700	18490	17670	17620	18010	17350	17500	17640	18000	17910	17910
Washington	10700	10500	10350	10110	9130	9080	8910	8840	8790	9090	9020	8980	9240	9360	9660	9860
Wayne	3080	3130	3040	3140	3180	3100	3040	3060	3030	3150	3540	3530	3620	3560	3680	3700
Webster	19150	18620	18510	18480	19800	19800	18980	18980	19020	19520	19800	20220	21010	21590	21980	22170
Winnebago	6450	6100	5620	5920	7350	7600	7070	6740	6730	7080	5930	5420	5320	5300	6350	7400
Winneshiek	11200	11020	10840	10680	12550	11430	11610	11440	11030	11020	11240	11090	10810	10640	10420	10530
Woodbury	53000	50300	48800	47900	50100	49000	47780	45250	44090	44800	43280	42170	43340	43160	45240	47670
Worth	3820	3710	3790	3770	4740	4650	4410	4080	4040	4250	3690	3510	3500	3650	3650	3810
Wright	6650	6800	6880	6860	7700	7490	7140	7180	7370	7870	7740	7530	7280	7260	7630	7720
State of Iowa	1488000	1434000	1402000	1387000	1448000	1433000	1369000	1338000	1300000	1312000	1305000	1296000	1328000	1350000	1366000	1361000

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1978-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	140	150	130	110	170	140	150	200	200	200	250	200	180	190	160	180
Adams	90	100	110	100	100	90	110	130	160	140	150	150	110	110	110	100
Allamakee	340	420	380	390	450	390	480	580	770	690	630	650	610	580	440	370
Appanoose	350	410	430	420	410	400	460	580	660	620	760	850	610	640	440	540
Audubon	90	110	110	130	130	120	190	280	320	280	260	210	180	140	110	130
Benton	460	550	570	570	490	480	620	810	900	710	950	1370	820	570	340	310
Black Hawk	3700	4100	3800	3400	3300	3500	4870	7570	8620	7410	8590	8160	5520	4870	3230	3220
Boone	490	570	620	520	500	460	630	770	780	670	920	880	620	570	430	420
Bremer	500	600	500	400	400	400	710	980	960	810	1030	1040	720	640	370	370
Buchanan	550	620	560	490	520	490	680	930	1120	1040	1300	1080	770	710	420	400
Buena Vista	320	300	260	260	250	320	370	490	540	490	550	740	470	340	260	340
Butler	420	520	460	340	360	390	540	730	750	630	870	770	590	510	240	260
Calhoun	210	190	160	130	160	200	260	340	440	310	350	360	290	210	160	170
Carroll	370	350	400	430	540	500	640	790	880	660	760	890	820	630	390	430
Cass	390	410	400	410	370	360	470	520	680	700	510	470	450	370	250	300
Cedar	310	340	280	240	310	370	400	530	600	440	550	580	340	280	190	190
Cerro Gordo	1310	1490	1370	1300	1260	1330	1470	1820	2060	1700	1890	1900	1760	1490	1250	1160
Cherokee	200	230	210	190	240	260	440	510	400	360	380	390	430	290	220	250
Chickasaw	430	480	480	410	400	400	540	760	910	760	970	840	770	780	340	390
Clarke	330	280	290	220	240	270	280	350	360	330	350	390	330	290	190	220
Clay	280	290	290	210	260	290	420	540	690	710	550	560	560	480	350	510
Clayton	520	570	550	500	570	580	660	820	1070	920	970	1050	840	820	500	440
Clinton	1310	1570	1560	1430	1590	1620	1780	2110	2510	2370	3010	3310	2200	1590	1110	990
Crawford	380	350	360	470	670	640	460	550	620	560	570	650	490	350	400	360
Dallas	500	600	600	600	1000	600	690	970	880	840	1040	980	840	790	490	560
Davis	190	210	240	140	210	270	320	420	360	310	420	390	300	200	160	190
Decatur	290	310	250	250	130	200	240	310	300	260	330	250	220	200	160	160
Delaware	510	500	470	400	520	400	500	680	950	750	950	930	730	680	310	350
Des Moines	1220	1390	1280	1110	1350	1410	1490	1910	2290	2060	2500	2470	1950	1580	990	1000
Dickinson	310	310	290	260	280	370	470	680	800	610	580	560	470	400	330	320
Dubuque	2000	2500	2700	2500	2700	2400	2670	3370	4040	3580	5170	6140	4830	3910	2550	2410
Emmet	260	320	320	300	290	300	430	640	800	620	800	780	430	340	220	220
Fayette	510	610	560	470	470	490	670	990	1130	1000	1160	1200	770	780	570	550

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Floyd	590	610	560	450	440	490	630	890	1300	850	1310	1120	960	1020	480	580
Franklin	220	250	240	230	230	270	390	390	420	380	500	440	260	260	180	160
Fremont	200	210	180	130	160	170	200	300	390	360	290	270	180	130	140	150
Greene	210	230	240	240	350	250	290	400	500	430	430	440	380	350	170	200
Grundy	190	230	200	150	190	260	280	400	410	380	490	380	240	280	150	220
Guthrie	240	250	260	210	340	200	280	410	380	320	320	350	320	270	180	200
Hamilton	300	430	350	390	370	300	370	570	580	560	590	540	510	410	300	340
Hancock	230	380	340	360	300	220	300	480	600	340	430	520	370	530	340	240
Hardin	390	490	540	440	400	510	640	620	600	610	530	520	470	370	240	260
Harrison	360	420	370	270	400	440	440	530	630	530	640	600	390	320	320	280
Henry	380	480	450	360	470	450	550	610	740	700	810	800	760	590	370	390
Howard	180	210	190	190	270	310	270	390	470	360	430	440	350	350	220	240
Humboldt	180	170	200	160	170	160	240	380	420	380	400	370	300	290	220	190
Ida	100	110	130	100	130	130	140	170	210	170	150	140	130	140	110	110
Iowa	220	230	210	210	200	220	270	450	520	340	420	580	420	270	210	180
Jackson	540	660	650	620	780	810	770	930	1180	990	1410	1400	1040	910	620	620
Jasper	650	710	760	630	740	750	860	1110	1080	1140	1380	1680	1280	1260	720	650
Jefferson	420	500	400	360	440	440	590	680	580	510	620	780	540	470	300	260
Johnson	1700	1900	1700	1700	900	1100	1210	1540	1710	1320	1710	1930	2110	1530	1140	1010
Jones	440	550	460	420	400	370	500	600	750	660	830	900	610	550	310	310
Keokuk	270	330	280	250	290	320	340	480	500	450	520	560	550	450	280	260
Kossuth	320	420	490	400	430	460	580	750	840	630	710	800	700	690	550	410
Lee	1340	1470	1430	1180	1380	1530	1790	1920	1950	1820	2250	2470	1930	1540	1030	880
Linn	3600	4200	4500	4900	3600	3600	4760	5560	6150	6020	7000	8270	7100	5820	3240	2860
Louisa	330	370	310	260	310	280	340	420	520	420	540	340	230	210	210	260
Lucas	270	300	240	260	230	210	270	300	380	340	320	360	290	280	220	260
Lyon	160	150	130	110	150	170	190	270	260	260	270	200	260	270	160	170
Madison	300	340	340	260	320	330	310	460	410	400	470	460	420	340	240	240
Mahaska	440	460	490	440	500	380	470	680	850	630	700	800	660	560	360	340
Marion	590	570	620	570	550	520	540	640	560	580	750	840	660	630	410	400
Marshall	840	820	730	660	770	810	1190	1430	1550	1560	2080	1860	1190	1070	710	660
Mills	230	280	230	230	230	210	270	390	430	340	300	290	260	210	200	160
Mitchell	200	210	210	190	210	210	280	430	550	410	590	490	500	480	320	320

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Monona	210	220	200	160	230	290	340	400	440	400	380	390	320	290	270	270
Monroe	210	220	220	210	250	260	310	480	490	490	550	620	460	330	280	270
Montgomery	270	300	260	280	320	240	280	390	540	450	400	400	340	330	180	170
Muscatine	870	1180	1130	1000	1090	1110	1270	1530	1580	1420	1660	1510	1200	980	870	900
O'Brien	200	260	180	170	180	230	320	390	380	390	350	330	320	270	210	260
Osceola	110	130	110	100	140	190	170	260	270	240	240	260	220	170	140	140
Page	360	480	480	380	410	350	430	560	710	610	700	670	430	360	260	300
Palo Alto	190	170	200	180	190	200	200	320	460	430	470	410	350	290	210	220
Plymouth	340	440	410	350	420	490	560	660	830	680	620	650	600	480	490	480
Pocahontas	130	160	140	100	120	140	180	240	290	250	310	360	250	190	140	130
Polk	7300	7500	7000	6000	7100	7400	8350	10350	11250	9900	12180	13300	12130	9320	6870	6570
Pottawattamie	2000	2300	2100	1900	2300	2300	2860	3270	3380	3480	2770	3390	3400	2540	2300	2120
Poweshiek	490	460	430	440	380	340	390	500	620	560	660	690	500	530	340	320
Ringgold	100	120	100	110	120	130	180	160	180	200	290	190	130	120	110	110
Sac	210	190	230	240	300	330	350	460	530	540	650	690	410	310	220	230
Scott	4000	4600	3800	3500	5000	5700	5370	5950	6240	5810	7790	8360	6010	3950	3010	3300
Shelby	300	370	350	270	330	340	380	490	630	590	390	370	330	260	240	260
Sioux	390	430	400	380	330	370	580	690	740	650	660	710	750	670	510	470
Story	1310	1560	1530	1400	710	720	940	1260	1310	1220	1680	1630	1520	1310	900	790
Tama	400	450	430	370	370	410	560	670	680	420	440	470	310	280	240	270
Taylor	140	150	150	120	140	120	210	250	290	260	310	210	140	130	120	120
Union	300	280	350	290	270	310	400	420	450	520	540	460	430	370	280	280
Van Buren	180	210	200	130	280	280	340	360	380	290	380	410	310	290	160	170
Wapello	1050	1210	1270	1000	1070	1160	1570	2190	1960	1710	2090	2040	1970	1360	1180	990
Warren	700	700	600	500	600	700	810	870	970	840	940	1050	1040	850	560	560
Washington	370	410	360	300	390	430	560	760	790	590	720	650	580	520	380	360
Wayne	170	190	130	100	100	150	190	200	250	230	270	230	170	160	130	160
Webster	960	1120	970	970	1010	1000	1220	1590	1860	1660	1800	1780	1520	1330	970	800
Winnebago	220	240	350	460	290	190	280	380	520	260	330	400	370	560	450	240
Winneshiek	640	680	580	610	570	620	750	880	910	820	890	790	830	700	570	560
Woodbury	1700	2200	2400	2100	2200	2700	3410	4060	4160	3600	3500	3720	3660	2950	3650	3220
Worth	180	200	220	260	240	220	240	350	400	290	320	320	310	320	240	180
Wright	290	340	300	250	280	300	350	460	630	480	510	450	370	380	240	210
State of Iowa	62000	70000	67000	61000	65000	67000	80000	101000	112000	99000	115000	121000	99000	82000	59000	57000

Table 4. Estimated Unemployment Rates in Iowa Counties, 1978-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	3.4	3.6	3.2	2.7	3.7	3.0	3.4	4.5	4.5	4.5	5.5	4.5	4.0	4.2	3.5	3.8
Adams	3.8	4.1	4.5	4.1	3.2	2.8	3.6	4.5	5.6	4.6	5.4	5.6	4.2	4.1	4.2	3.8
Allamakee	4.6	5.7	5.2	5.4	5.9	5.1	6.4	7.7	10.4	9.3	8.8	9.3	8.8	8.2	6.1	5.0
Appanoose	5.2	6.1	6.5	6.6	6.3	6.1	7.3	9.4	11.3	10.5	13.1	14.1	10.1	10.5	7.2	9.1
Audubon	2.5	2.9	2.9	3.6	3.7	3.4	5.4	7.7	8.6	7.2	6.4	5.2	4.4	3.4	2.7	3.1
Benton	3.9	4.8	5.1	4.9	4.5	4.4	6.1	7.5	8.5	6.7	8.8	12.5	7.5	5.1	3.1	2.9
Black Hawk	5.4	6.2	6.0	5.5	5.4	5.8	8.4	12.8	14.4	12.0	13.2	12.1	8.0	7.0	4.7	4.7
Boone	3.6	4.4	4.9	4.1	3.9	3.6	5.2	6.3	6.5	5.6	7.5	7.3	5.0	4.6	3.4	3.3
Bremer	4.0	4.9	4.2	3.5	3.7	3.8	7.0	9.7	9.4	7.6	9.2	9.7	6.8	5.9	3.5	3.5
Buchanan	5.3	6.2	5.7	5.1	5.2	4.9	6.9	9.3	11.3	10.3	11.5	9.7	7.1	6.3	3.8	3.7
Buena Vista	2.9	2.8	2.5	2.6	2.2	2.8	3.3	4.5	4.9	4.5	5.0	7.2	4.5	3.2	2.5	3.2
Butler	5.2	6.5	6.0	4.6	4.8	5.3	7.2	9.5	9.7	8.0	10.7	9.8	7.5	6.2	2.9	3.1
Calhoun	3.9	3.7	3.2	2.6	2.9	3.6	4.8	6.1	7.8	5.4	5.7	5.8	4.7	3.4	2.6	2.8
Carroll	3.1	3.0	3.6	4.0	4.6	4.4	5.8	7.1	7.9	5.9	6.2	7.4	6.7	5.4	3.4	3.8
Cass	5.0	5.3	5.3	5.4	4.3	4.3	5.7	6.2	8.0	8.0	5.5	5.2	5.1	4.2	2.8	3.3
Cedar	3.2	3.7	3.0	2.6	3.2	3.9	4.4	5.9	6.8	4.9	6.5	6.8	4.1	3.3	2.2	2.2
Cerro Gordo	5.1	5.9	5.3	5.2	4.8	5.0	5.7	7.1	8.1	6.9	7.8	7.9	7.1	6.2	5.2	4.7
Cherokee	2.9	3.3	3.0	2.8	3.4	3.7	6.2	6.8	5.4	4.8	4.9	5.1	5.6	3.8	2.8	3.2
Chickasaw	5.8	6.6	6.7	5.8	5.5	5.5	7.5	10.4	12.2	10.4	13.2	11.8	10.7	10.6	4.8	5.4
Clarke	8.4	6.7	6.7	5.2	5.2	6.1	6.7	8.5	9.0	8.4	7.4	8.6	7.0	6.0	4.2	5.0
Clay	3.0	3.2	3.3	2.3	2.8	3.1	4.8	6.2	7.8	7.8	5.6	5.7	5.6	4.7	3.4	5.0
Clayton	5.5	6.0	6.0	5.4	5.6	5.7	6.8	8.2	10.8	9.1	9.2	10.2	8.2	8.0	4.8	4.3
Clinton	4.8	5.8	6.0	5.6	6.7	6.8	7.7	9.1	10.8	9.9	11.8	12.5	8.2	5.7	4.0	3.7
Crawford	4.3	4.1	4.3	5.5	7.5	7.0	5.0	6.0	6.8	6.1	5.4	6.4	4.8	3.6	4.1	3.7
Dallas	2.9	3.6	3.7	3.7	5.9	3.7	4.5	6.4	5.9	5.3	6.7	7.2	6.3	5.9	3.7	4.1
Davis	4.5	5.2	6.0	3.6	5.5	7.0	8.6	10.9	9.8	8.2	11.4	10.5	8.1	5.6	4.4	5.2
Decatur	7.3	8.0	6.5	6.6	3.3	5.2	6.1	7.6	7.1	6.4	8.3	6.0	5.4	4.8	4.0	4.0
Delaware	5.7	5.5	5.2	4.5	5.9	4.6	5.9	8.1	11.2	8.6	10.4	10.4	8.2	7.6	3.5	4.1
Des Moines	5.2	6.1	5.7	5.0	5.8	6.1	6.6	8.6	10.7	9.6	13.1	12.8	9.9	8.0	5.1	5.1
Dickinson	3.3	3.5	3.5	3.2	2.9	4.0	5.4	7.9	9.4	7.0	7.5	7.5	6.3	5.4	4.4	4.2
Dubuque	4.0	5.2	5.7	5.5	6.0	5.4	6.1	7.8	9.5	8.5	12.1	14.2	10.7	8.6	5.6	5.3
Emmet	4.5	5.6	5.6	5.4	5.7	5.9	8.5	12.3	14.8	10.9	13.5	12.7	6.8	5.4	3.5	3.5
Fayette	4.7	5.7	5.4	4.6	4.5	4.6	6.5	9.1	10.2	8.7	10.1	10.5	6.8	6.7	4.8	4.6

Table 4. Estimated Unemployment Rates in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Floyd	6.8	7.0	6.5	5.3	5.0	5.6	7.5	10.6	15.3	9.9	17.1	14.5	12.4	12.8	5.9	7.0
Franklin	3.8	4.3	4.2	4.0	4.3	5.1	7.1	6.8	7.3	6.7	7.9	6.9	4.1	4.0	2.8	2.5
Fremont	5.0	5.5	4.8	3.5	3.7	4.0	4.7	6.9	8.5	7.5	4.8	4.6	3.1	2.3	2.5	2.9
Greene	4.0	4.4	4.8	4.9	6.7	4.8	5.6	7.6	9.4	8.0	8.0	8.3	7.2	6.2	3.0	3.6
Grundy	3.1	3.8	3.4	2.6	2.8	3.9	4.3	6.0	6.1	5.4	7.6	6.0	3.9	4.5	2.4	3.5
Guthrie	4.1	4.4	4.6	3.8	6.3	3.8	5.4	7.6	7.1	6.1	5.6	6.2	5.7	4.7	3.3	3.6
Hamilton	3.5	5.0	4.1	4.7	3.6	2.9	3.9	6.1	6.3	6.0	6.4	6.0	5.7	4.7	3.4	4.0
Hancock	4.0	6.4	5.7	5.8	4.7	3.5	4.9	7.8	9.7	5.6	6.4	7.7	5.2	7.4	4.7	3.5
Hardin	4.1	5.2	5.7	4.7	4.2	5.2	6.5	6.2	6.0	6.0	4.9	4.8	4.3	3.4	2.2	2.4
Harrison	4.7	5.7	5.2	3.8	5.7	6.3	6.5	7.8	9.1	7.5	8.6	8.2	5.5	4.5	4.4	3.9
Henry	3.6	4.6	4.4	3.6	3.8	3.8	5.0	5.8	7.4	7.4	8.1	8.1	7.6	6.0	3.7	3.6
Howard	3.7	4.3	4.0	4.1	5.4	6.1	5.4	7.8	9.3	7.2	7.8	8.1	6.5	6.2	4.0	4.4
Humboldt	3.4	3.3	4.0	3.2	3.2	2.9	4.6	7.0	7.6	6.8	7.3	6.8	5.4	5.3	4.0	3.2
Ida	2.5	2.9	3.5	2.6	2.7	2.8	3.2	4.0	5.0	4.1	3.3	3.2	3.1	3.3	2.5	2.4
Iowa	2.4	2.6	2.5	2.6	2.3	2.6	3.3	5.6	6.5	4.1	4.7	6.7	4.7	2.9	2.3	2.0
Jackson	5.0	6.2	6.3	6.2	7.2	7.5	7.5	9.3	11.7	9.8	13.5	13.5	10.1	8.8	6.0	6.0
Jasper	3.6	4.0	4.2	3.5	4.1	4.1	4.9	6.4	6.2	6.6	8.6	10.6	8.0	7.7	4.4	3.9
Jefferson	4.4	5.6	4.7	4.2	4.8	4.8	7.0	8.0	7.2	6.4	8.3	10.3	7.0	6.0	3.8	3.4
Johnson	2.7	3.2	2.9	3.0	1.5	1.8	2.0	2.6	3.1	2.4	3.5	4.2	4.7	3.5	2.7	2.4
Jones	4.7	5.8	4.9	4.5	4.2	4.0	5.6	6.8	8.6	7.5	8.5	9.1	6.3	5.5	3.1	3.2
Keokuk	5.3	6.3	5.3	4.7	5.0	5.6	6.1	8.2	8.4	7.8	9.8	10.5	10.5	8.6	5.2	4.8
Kossuth	3.7	4.7	5.5	4.5	4.6	5.0	6.4	7.8	8.6	6.5	6.4	7.2	6.3	6.0	4.8	3.6
Lee	6.9	7.6	7.4	6.3	7.5	8.3	9.7	10.3	10.5	9.7	11.1	12.0	9.0	7.2	4.7	4.0
Linn	3.5	4.2	4.7	5.1	3.7	3.7	5.2	6.2	7.2	7.2	8.3	9.7	8.1	6.5	3.7	3.4
Louisa	5.0	5.8	5.1	4.4	4.0	3.6	5.1	7.2	10.2	8.5	11.0	6.1	3.7	3.9	4.6	5.7
Lucas	6.2	6.8	5.6	6.1	4.7	4.3	5.6	6.1	7.6	6.8	6.9	7.8	6.3	6.2	4.8	5.6
Lyon	2.7	2.6	2.3	1.9	2.4	2.8	3.3	4.6	4.7	4.5	4.4	3.3	4.3	4.2	2.5	2.6
Madison	4.2	5.3	5.3	4.1	5.2	5.2	5.2	7.9	7.4	7.1	8.2	8.0	7.3	5.8	4.0	4.0
Mahaska	4.0	4.3	4.6	4.2	4.8	3.6	4.6	6.7	8.4	6.3	7.2	8.3	6.7	5.6	3.5	3.3
Marion	3.5	3.5	3.9	3.6	3.4	3.2	3.5	4.3	3.9	4.2	4.6	5.3	4.0	3.9	2.6	2.6
Marshall	4.1	4.1	3.6	3.3	3.8	4.1	6.1	7.2	7.9	7.6	10.6	9.5	6.2	5.5	3.7	3.3
Mills	3.4	4.2	3.5	3.6	4.1	3.7	4.9	7.0	7.4	5.6	4.7	4.4	4.1	3.3	3.1	2.5
Mitchell	3.7	4.0	4.1	3.7	3.6	3.6	5.0	7.5	9.5	7.3	9.6	8.0	8.2	8.0	5.4	5.3

Table 4. Estimated Unemployment Rates in Iowa Counties, 1978-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Monona	4.0	4.6	4.5	3.6	4.8	6.1	7.3	8.4	9.0	7.8	6.9	7.3	6.0	5.4	5.0	5.0
Monroe	5.2	5.6	5.6	5.6	6.3	7.0	8.4	12.9	12.7	12.9	12.7	14.1	9.3	6.8	5.7	5.4
Montgomery	4.5	5.0	4.3	4.6	5.0	3.9	4.8	6.6	8.9	7.1	6.2	6.3	5.4	5.0	2.7	2.7
Muscatine	4.0	5.5	5.4	4.8	5.0	5.2	6.1	7.3	7.6	6.9	7.7	7.0	5.6	4.8	4.4	4.6
O'Brien	2.5	3.4	2.4	2.3	2.2	2.9	4.1	5.0	4.9	4.9	4.2	4.1	4.1	3.4	2.7	3.2
Osceola	3.0	3.5	3.1	2.8	4.0	5.4	5.0	7.5	7.7	6.5	6.8	7.3	6.3	4.9	3.9	3.9
Page	4.0	5.6	5.9	4.7	4.9	4.2	5.3	6.7	8.3	7.0	7.8	7.4	4.8	4.0	2.8	3.1
Palo Alto	3.6	3.3	4.1	3.7	3.6	3.8	3.9	6.2	8.6	7.6	8.3	7.4	6.5	5.3	3.9	4.0
Plymouth	2.6	3.5	3.3	3.0	3.4	3.9	4.6	5.5	7.1	5.8	5.4	5.7	5.3	4.2	4.3	4.2
Pocahontas	3.0	3.7	3.3	2.3	2.4	2.8	3.7	5.0	6.0	5.0	6.5	7.5	5.2	4.0	2.9	2.6
Polk	3.5	3.8	3.6	3.2	3.6	3.8	4.5	5.8	6.6	5.9	7.5	8.0	7.3	5.6	4.2	4.0
Pottawattamie	4.3	5.1	4.8	4.3	4.7	4.8	6.0	7.0	7.5	7.6	6.6	8.0	8.1	6.2	5.3	5.0
Poweshiek	4.8	4.6	4.4	4.4	3.5	3.1	3.8	5.0	6.4	5.9	6.4	6.7	5.0	5.2	3.3	3.1
Ringgold	3.7	4.4	3.8	4.3	4.7	5.0	7.1	6.1	7.0	7.5	8.7	5.8	3.9	3.7	3.4	3.3
Sac	3.5	3.1	3.9	4.1	5.3	5.8	6.3	8.1	9.3	9.0	10.5	11.0	6.6	4.9	3.4	3.5
Scott	4.7	5.6	4.7	4.4	6.0	6.8	6.6	7.4	8.2	8.0	10.8	11.2	7.9	5.3	4.1	4.8
Shelby	4.5	5.5	5.3	4.1	4.8	4.9	5.7	7.1	8.9	8.4	5.7	5.5	4.9	4.0	3.7	4.0
Sioux	2.3	2.7	2.6	2.5	2.0	2.3	3.8	4.6	4.9	4.4	4.0	4.5	4.7	4.1	3.2	3.0
Story	2.9	3.6	3.6	3.4	1.7	1.7	2.3	3.2	3.4	3.2	4.3	4.3	4.0	3.4	2.4	2.0
Tama	4.4	5.5	5.3	4.5	4.2	4.6	6.3	7.6	7.8	5.0	4.5	4.8	3.3	2.9	2.5	2.7
Taylor	4.4	4.6	4.5	3.8	4.2	3.6	6.2	7.1	8.2	7.1	8.7	5.9	4.0	3.7	3.4	3.4
Union	4.5	4.4	5.7	4.8	4.1	4.7	6.3	6.6	7.3	8.2	7.4	6.3	5.9	5.2	3.8	3.9
Van Buren	4.5	5.5	5.4	3.6	7.7	7.7	9.1	9.5	10.2	7.8	9.7	10.6	8.0	7.6	4.3	4.5
Wapello	5.7	6.8	7.3	5.9	6.8	7.4	10.2	13.5	11.9	10.1	12.7	12.4	11.7	7.9	6.8	5.9
Warren	3.1	3.3	2.9	2.5	2.9	3.4	4.2	4.7	5.2	4.5	5.1	5.7	5.6	4.5	3.0	3.0
Washington	3.3	3.8	3.4	2.9	4.1	4.5	5.9	7.9	8.2	6.1	7.4	6.7	5.9	5.3	3.8	3.5
Wayne	5.2	5.7	4.1	3.1	3.0	4.6	5.9	6.1	7.6	6.8	7.1	6.1	4.5	4.3	3.4	4.1
Webster	4.8	5.7	5.0	5.0	4.9	4.8	6.0	7.7	8.9	7.8	8.3	8.1	6.7	5.8	4.2	3.5
Winnebago	3.3	3.8	5.9	7.2	3.8	2.4	3.8	5.3	7.2	3.5	5.3	6.9	6.5	9.6	6.6	3.1
Winneshiek	5.4	5.8	5.1	5.4	4.3	5.1	6.1	7.1	7.6	6.9	7.3	6.6	7.1	6.2	5.2	5.0
Woodbury	3.1	4.2	4.7	4.2	4.2	5.2	6.7	8.2	8.6	7.4	7.5	8.1	7.8	6.4	7.5	6.3
Worth	4.5	5.1	5.5	6.5	4.8	4.5	5.2	7.9	9.0	6.4	8.0	8.4	8.1	8.1	6.2	4.5
Wright	4.2	4.8	4.2	3.5	3.5	3.9	4.7	6.0	7.9	5.7	6.2	5.6	4.8	5.0	3.0	2.6
State of Iowa	4.0	4.7	4.6	4.2	4.3	4.5	5.5	7.0	7.9	7.0	8.1	8.5	6.9	5.7	4.1	4.0

Between 1983 and 1993, employment increased more than 30 percent in five counties (Des Moines, Jefferson, Johnson, Louisa, Polk), with the greatest percentage increase occurring in Louisa (+43.0%). A percentage decline from 1983 to 1993 of at least 20 percent occurred only in Fremont; 11 others dropped by 10 percent to 19 percent.

Unemployment

Unemployment figures for Iowa during this period reflect the economic difficulties encountered by the state in the first half of the 1980s. Unemployment stayed between 57,000 and 59,000 in the late 1970s, but it was 121,000 in 1982 (Table 3). For four of the five years from 1982 through 1986, unemployment was over 100,000. Relatively rapid decreases, especially from 1986 through 1988, brought the figure down to 61,000 in 1990. That was a decline of 49.6 percent from the period high in 1982. But the number unemployed increased by 6,000 between 1990 and 1991 and by 3,000 between 1991 and 1992. In contrast, a decrease of 8,000 occurred between 1992 and 1993 on the number unemployed.

Just as Polk led in labor force and employment numbers, it also had the highest number unemployed (7,300) in 1993. Black Hawk, Linn, and Scott were the only others above 3,000. Ten counties had from 1,000 to 3,000 unemployed. Seventeen counties had fewer than 200 unemployed in 1993; the two lowest were Adams and Audubon, the only counties with fewer than 100 unemployed.

Unemployment in 1993 was much lower than the figures for the years 1982 through 1985 in most of Iowa's counties. Ninety-one counties recorded their highest unemployment for the period during one of those four years. All counties had lower numbers unemployed in 1993 than in 1983 except for Johnson, which had the same number both years.

Although unemployment in Iowa in 1993 was much lower than the high point in 1982, the state's figure was still higher than the levels of unemployment in the 1970s. That was the situation for a majority of the counties also.

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 highest in Iowa from 1981 through 1986 (Table 4). The highest annual rate (1982, 8.5%) was about double the rates in the late 1970s (4.0%–4.1%) and 1989 (4.3%) or 1990 (4.2%). The state's unemployment rate increased to 4.6 percent in 1991 and 4.7 percent in 1992 but decreased to 4.0 percent in 1993.

For the counties in 1993, unemployment rates varied from 2.5 percent or less (Audubon, Ida, Iowa, O'Brien, Sioux) to more than 7.0 percent in Clarke (8.4%) and Decatur (7.3%). Unemployment rates in 1993 were much lower than those in 1983. In 1983, 21 counties had unemployment rates 10.0 percent or greater, although only Floyd (17.1%) exceeded 14.0 percent. In 1993, all counties were below 8.5 percent. Ninety-seven counties had lower unemployment rates in 1993 than they did in 1983. Rates increased in Clarke and Fremont when the two years were compared.

Note: Caution must be exercised in interpreting these numbers. They are based on estimates generated annually by the Iowa Department of Employment Services 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.

Sales Subject to Sales Tax in Iowa's Counties:

1980-1993

Kenneth Stone, Iowa State University
Willis Goudy, Iowa State University

The Iowa Department of Revenue and Finance annually reports 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.

Sales Receipts Subject to Sales Tax

In 1980, more than \$15 billion in sales were reported on which sales taxes were collected (Table 1). By 1993, this figure had increased to more than \$23 billion. Increases of more than \$1 billion from 1988 to 1989, from 1989 to 1990, and from 1992 to 1993 were the largest reported between 1980 and 1993. A minor decrease occurred between 1980 and 1981.

Sales varied greatly among Iowa's counties. In 1993, for example, Polk had sales subject to tax of \$5.0 billion, which was more than a fifth (21.6%) of all dollars subject to sales tax in the state. Three other counties (Black Hawk, Linn, Scott) reported at least a billion dollars in sales. Dubuque, Johnson, Pottawattamie, Story, and Woodbury were in the \$500-\$999 million category. More than half (58.3%) of all sales in the state were generated in these nine counties in 1993.

Sales totaled \$100-\$499 million in 33 counties in 1993; sales were \$50-\$99 million in 32 counties and less than \$50 million in the remaining 25. Six counties (Adams, Ringgold, Taylor, Van Buren, Wayne, Worth) had receipts from sales of less than \$25 million in 1993.

When 1983 and 1993 are compared, 70 counties had sales that were greater at the end of the period than the beginning (Figure 1). The greatest increase was in Polk (+\$2.4 billion); Linn's \$862 million gain was the second highest. Another ten counties (Black Hawk, Cerro Gordo, Des Moines, Dubuque, Johnson, Pottawattamie, Scott, Story, Webster, Woodbury) reported at least \$100 million more in sales in 1993 than in 1983. Of the 29 counties that declined in sales, 25 dropped by less than \$10 million when 1983 and 1993 are compared. Calhoun, Franklin, Kossuth, and Pocahontas declined by \$11.3 million to \$14.3 million during this period.

Three counties in which sales subject to sales tax nearly doubled from 1983 to 1993 deserve special mention. Sales in Polk increased by \$2.4 billion over this period; they were \$2.6 billion in 1983. Two other counties much less urban than Polk also reported large increases. Dickinson gained \$82 million by 1993 from its base of \$86 million in 1983; this is related to its status as a recreational center. Iowa County also began the period at \$86 million; it gained \$74 million by 1993, with much of the increase due to a major shopping center constructed near an interstate highway.

Estimated Gains and Losses in Sales Receipts Subject to Sales Tax

The volume of sales expected in a county can be estimated by relating population figures to the sales reported for tax purposes. 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 greater than what the state average suggests, then that county has gained

Table 1. Sales (in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1993.

Counties	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	44794	44158	41630	40683	40798	41626	42847	43041	42748	44944	48603	47299	45732	46122
Adams	21142	20202	19390	19600	19780	20205	20149	18471	19139	20044	22426	21147	19710	20544
Allamakee	79335	76400	76268	68683	68593	70415	68834	65866	66158	66812	67298	67098	61841	61787
Appanoose	84566	79520	71767	66834	68339	66703	71046	64235	62429	63322	64160	62947	65866	65428
Audubon	33361	33898	32634	28740	28482	29768	28980	30633	33449	34900	37079	33906	33939	38407
Benton	95356	92304	90474	85157	83217	82078	80411	76461	83023	84497	87937	86707	87513	89725
Black Hawk	1159371	1099887	1063237	1005436	940556	854311	817100	791059	822513	811969	790325	807585	789589	772710
Boone	140752	136507	132792	127000	117378	112314	106344	106351	108035	108428	103032	95100	98033	101264
Bremer	126414	124219	120756	113444	109543	107662	103908	98188	104160	107199	108042	110078	108326	105713
Buchanan	103393	98632	93557	92402	86499	84045	79745	76597	81744	81323	86940	80862	77594	81309
Buena Vista	146352	142910	142795	133518	131636	131353	135676	121581	130724	135402	130199	123003	122209	127355
Butler	57101	54690	53557	51979	53334	54099	54114	55383	56147	59521	63417	62111	58905	61055
Calhoun	45074	42033	42986	46649	62068	72101	56649	47478	49059	53035	56397	55578	56799	59779
Carroll	182835	171669	165652	160253	155566	151356	146098	133510	138373	145997	145810	135468	131918	138155
Cass	99442	99613	97058	93991	92502	91466	91176	90453	99347	99477	100620	95004	97155	96427
Cedar	71584	66862	64865	62519	62293	61762	66642	61449	64041	65441	75801	71742	71293	72972
Cerro Gordo	474966	457949	450533	430451	410350	383790	374668	350064	346906	334994	324798	303631	292656	286525
Cherokee	84406	82744	81155	76089	78368	75565	75319	75924	78129	81172	84826	77383	77344	79824
Chickasaw	63453	61055	57772	55368	56659	57575	62371	55401	59103	61607	64650	65488	63330	67894
Clarke	49833	50298	48344	45941	44588	43367	41534	40363	38561	39612	38831	41525	42492	40470
Clay	152634	146960	146136	141888	138520	129794	128404	119482	130165	136207	136110	136788	137205	136717
Clayton	78309	78141	73662	70078	70007	73354	72332	67995	72654	78598	81423	80203	80647	87199
Clinton	351560	340329	333187	319160	316064	296565	282351	279952	275889	277727	274440	275239	269954	260690
Crawford	97598	95067	88688	84819	83143	83294	83713	79601	81903	82604	83005	77920	78913	80950
Dallas	133466	129483	127506	119478	115311	110024	111437	111967	123929	125069	120607	119091	117625	116938
Davis	34490	33915	33206	30791	31157	30452	30529	30395	28688	28422	29812	30876	29798	29333
Decatur	26239	26259	25956	24149	24668	24262	24037	24583	24871	25147	25550	26367	25971	24699
Delaware	90454	89378	85243	74415	72518	80114	73093	70176	73033	73519	76392	73610	72574	75055
Des Moines	394399	385059	361824	340744	335287	317488	298971	284125	276396	266705	267579	260038	254610	252944
Dickinson	168501	153482	148070	136452	120573	110234	101287	92539	94166	92911	86185	81572	79391	81664
Dubuque	788170	745005	703878	668050	635491	612932	575734	551085	538324	528239	507296	499035	497984	496155
Emmet	79685	76437	74725	73993	71815	67935	69253	61522	61893	67385	64646	67868	69271	67281
Fayette	125474	122307	120073	114107	111876	111273	116063	112668	113015	117588	120125	121387	119314	122679

Table 1. Sales (in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1993 (continued).

Counties	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	98589	95646	90844	89561	88823	84161	82582	79681	86301	88630	88137	88986	83998	85736
Franklin	54793	56306	53104	50283	54094	56102	62215	52931	57200	57593	67425	66187	67370	68697
Fremont	42349	36287	30904	30549	31573	31947	33648	32322	35844	34468	34197	32951	30393	28359
Greene	61487	56691	52327	52089	51318	50701	51754	50322	53954	57158	57829	54525	56523	59423
Grundy	48782	46818	44610	41951	43334	46217	49093	46656	52791	53636	58373	57640	55654	56226
Guthrie	47796	48638	46637	45106	44591	41138	40133	39004	41808	43702	44011	41238	40488	43751
Hamilton	92022	90087	93027	88007	86618	84391	81930	79727	83581	85720	87310	84114	83164	87868
Hancock	55084	53407	53380	52951	55864	55545	56306	54241	57127	60703	62488	59728	60842	65778
Hardin	127418	125287	121269	114617	113661	116399	114209	115277	120061	125928	126560	123838	124053	128964
Harrison	60525	57011	53677	51358	50229	50925	56228	53227	54147	57513	57228	53888	57502	58310
Henry	136446	132010	126527	117024	116959	112340	110256	98335	96785	93046	94097	87927	87928	89433
Howard	52079	49973	47472	43960	43774	46009	49438	45171	44870	48219	50810	50358	47783	49418
Humboldt	62787	60039	59530	60935	59778	59135	56735	54634	58218	60688	61498	62531	60815	62396
Ida	44822	45335	43658	45565	45270	46455	45619	43352	45025	47134	47047	41097	39781	42423
Iowa	160638	151840	112269	101882	97437	92812	91992	86416	88467	88903	86181	84776	85495	83459
Jackson	100184	96596	94149	85880	84868	83579	84608	83105	83106	84821	84828	82866	82175	82451
Jasper	219770	227739	224584	211708	189793	188372	182496	180102	184622	180871	170856	164412	162003	167233
Jefferson	106444	98528	95047	94566	100221	94971	89634	84911	82374	77579	74412	72195	71759	71203
Johnson	825557	774419	738389	705148	656467	597298	578282	528083	518157	497889	459339	415822	387711	366750
Jones	116655	112303	112409	105949	108813	102412	100147	91482	92454	89342	89620	88015	84458	91639
Keokuk	38334	37380	36145	35445	35652	37943	39859	39294	40714	40782	45875	45873	45019	48967
Kossuth	109526	105949	104626	103791	98556	99967	108226	106751	113328	121174	123847	127761	121319	128373
Lee	284046	274242	263718	251736	245632	239793	241840	229971	230595	222663	223988	218822	215502	209094
Linn	2031936	1907676	1834635	1737351	1631777	1516450	1439992	1361418	1334752	1246837	1169591	1132107	1106281	1109708
Louisa	31488	30483	29605	29806	30783	29888	31010	33557	33083	32968	36593	35565	36072	34548
Lucas	62960	62463	62313	55286	59295	56229	50918	38541	39960	39997	39632	41618	40424	39551
Lyon	47457	46263	44680	40657	40654	40907	41952	37061	39205	41662	44469	41085	42977	48149
Madison	56209	52047	49925	46773	42930	41419	39102	34230	34359	36101	38461	37487	38359	39185
Mahaska	160278	155131	145140	133378	130331	130564	128008	123531	123501	118403	119015	111827	111709	117659
Marion	172626	165384	161591	156081	153508	148284	141318	135236	131088	126509	122319	119283	114955	118698
Marshall	313405	301437	297446	280758	268442	251609	234886	234918	240047	232617	227858	218573	216640	210844
Mills	42245	42767	42203	40956	39596	39210	41294	39201	39816	40204	40748	38588	37664	37416
Mitchell	54365	52766	51710	47986	46859	49373	49318	44722	47349	49949	51808	50221	49078	52790

Table 1. Sales (in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1993 (continued).

Counties	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	48763	45525	45416	44440	45389	44972	47540	46697	45692	50602	50872	49872	51069	56761
Monroe	38608	34915	36810	35468	33854	32752	32884	32103	31983	32531	30907	31496	30683	31009
Montgomery	93309	87408	87705	86810	85279	79231	73427	68593	71589	72701	67219	67734	67604	67045
Muscatine	302688	283404	272409	261989	249746	233345	220120	220037	230943	225050	216307	212491	197822	186131
O'Brien	89599	86581	86453	86120	88484	90297	85916	75044	77701	81619	83799	80234	77940	83884
Osceola	32215	30862	30326	30639	28905	28885	28410	27739	29411	33807	34031	32469	33167	35583
Page	94002	91498	92622	91696	93088	90483	92594	89286	93216	94414	94741	92808	95825	100857
Palo Alto	43950	42558	42691	41576	41056	40860	43389	41834	43766	48570	51476	49188	49792	51980
Plymouth	131779	127175	119529	112889	109781	107755	105145	97563	99411	99433	97457	92418	91142	96470
Pocahontas	38671	39297	37076	36087	36309	37130	36999	40681	47066	48838	51013	48543	49264	51667
Polk	5007727	4720949	4502306	4358547	4111700	3765168	3513382	3254482	3070912	2906398	2608614	2466204	2376725	2370263
Pottawattamie	559849	539073	521820	516367	498007	471803	444704	407113	413236	404873	384239	355209	350131	331083
Poweshiek	171640	172050	165222	151782	149521	128647	124048	117415	116584	111770	109707	102023	91512	91625
Ringgold	21870	22082	21318	20106	20100	19984	20260	19745	19047	19758	21107	22428	21279	23230
Sac	53600	55204	53239	50086	49432	48747	49668	47783	52836	55206	61277	57532	59094	65781
Scott	1638392	1616729	1497100	1481015	1294922	1252558	1188962	1164155	1155406	1078089	1019768	1009623	975293	947266
Shelby	70762	67303	67623	64635	65548	64526	65588	64131	64640	67773	71355	66797	66608	69731
Sioux	182904	175896	167023	151036	139978	136838	133378	125073	132152	139892	140755	134004	131772	144055
Story	560705	527998	514331	478348	450646	428724	414177	396356	382423	370258	355057	335070	323558	311719
Tama	78979	78062	74844	73588	72919	71343	79626	76870	75440	80291	82725	82449	81227	86014
Taylor	19994	19263	18782	17669	17514	17964	19563	18824	19580	21649	23229	23800	23175	25781
Union	89581	86036	85367	75755	71149	71173	70111	68371	66582	67832	68050	65517	64792	67752
Van Buren	20842	21538	19147	18889	16667	16448	16265	17301	18128	17141	17923	19060	21068	22356
Wapello	288355	272987	263945	247915	215842	201028	197748	201279	202055	193091	188781	179792	185458	178592
Warren	125687	121462	117155	103684	98670	92747	88740	87098	86648	84468	81136	79895	76172	78876
Washington	116882	114654	112964	104245	101002	105772	103420	99414	103264	101910	107640	101395	99450	103438
Wayne	23318	22154	22066	21005	20549	20307	21015	21308	20856	21075	23491	25248	24556	27062
Webster	398339	386136	374260	377872	317645	298096	306071	295336	304707	301798	297795	288763	290808	298213
Winnebago	63060	61681	61605	60232	59411	56784	57722	55101	57501	59349	56281	54153	54685	56870
Winneshiek	130892	127748	123919	116184	110092	107402	102934	91806	91095	89734	91174	89851	85230	83811
Woodbury	963271	909134	868587	847458	810994	763298	725923	695572	697824	684745	660299	632564	611872	594253
Worth	22040	22137	21766	21090	21978	22302	27722	31579	24061	26370	29524	27631	30134	33565
Wright	83669	81799	78197	73896	71520	72469	72790	73763	79513	86141	89211	91243	85481	87188
State of Iowa	23209561	22197620	21290549	20411068	19382175	18381662	17706087	16815459	16788670	16460399	15927770	15393059	15055781	15090180

Table 2. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1993.

Counties	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	-17515	-16745	-15587	-11108	-7484	-3624	-2380	-1427	-1948	1519	7668	-1960	-1567	-6037
Adams	-12495	-12474	-10840	-9064	-7501	-5428	-5789	-7233	-5598	-5524	-2516	-3638	-5411	-6620
Allamakee	-15743	-13688	5708	1125	4105	8586	6848	4095	5822	9597	9716	-1154	-5635	-6566
Appanoose	-11242	-10084	-7803	-8946	-4788	-4077	3850	-3476	-5235	-4212	-2552	-8361	-1469	-5496
Audubon	-24761	-22082	-8609	-8556	-6813	-5497	-5899	-4352	39	1331	3587	-9797	-10093	-6005
Benton	-85074	-78073	-60459	-60822	-54093	-48480	-50532	-52040	-44155	-42292	-35989	-39397	-39561	-38038
Black Hawk	174222	144873	-81401	-63826	-85799	-82300	-82269	-70451	-64851	-74958	-87152	17688	16288	25000
Boone	-63562	-58223	-61215	-60169	-59974	-57959	-58700	-51690	-50459	-50503	-46567	-43353	-36717	-36017
Bremer	-56413	-50652	-72238	-68173	-66577	-60540	-50322	-51857	-42767	-38036	-31572	-22006	-21109	-25360
Buchanan	-56346	-54740	-42955	-37048	-37376	-35216	-40877	-37789	-32826	-34189	-24118	-32791	-35303	-28628
Buena Vista	3143	3386	12880	7912	14265	14878	21411	12605	25723	30087	28938	3524	6063	10814
Butler	-60840	-58918	-46992	-39318	-34122	-31401	-29626	-27349	-26791	-22507	-17582	-32149	-34105	-37113
Calhoun	-40150	-39488	-35192	-28817	-9466	4717	-5354	-14955	-13364	-11105	-6294	-14187	-11755	-11132
Carroll	15014	12259	30337	30173	30763	28482	26014	14357	20588	30483	36993	15768	16576	24330
Cass	-12136	-6294	-9603	-12018	-10397	-6263	690	-805	10118	13744	17145	-3284	-2326	-2518
Cedar	-69239	-70197	-43932	-50847	-44767	-43351	-36739	-39093	-35827	-33964	-23593	-36216	-37753	-30426
Cerro Gordo	77167	81371	82667	74953	74874	59267	56135	46355	44320	36668	35711	45948	27378	28155
Cherokee	-17846	-16832	-13782	-18210	-11297	-13468	-6874	-3148	-926	1305	5357	-7683	-6675	-299
Chickasaw	-35121	-32922	-21499	-23202	-17922	-17826	-7721	-12354	-8893	-5553	1210	-10434	-8158	-3544
Clarke	-7745	-6610	-1399	-3037	-282	882	2212	3491	1467	2676	2829	-3875	-2972	-6403
Clay	2946	4191	20557	21720	21789	18007	14382	4491	15111	24298	32865	7466	7502	12851
Clayton	-57299	-51757	-43456	-46103	-41705	-31858	-24350	-26929	-20110	-12182	-9380	-15030	-14073	-4642
Clinton	-48193	-44914	-64719	-60504	-46729	-57106	-55071	-47462	-42205	-40095	-45796	-35126	-31470	-43386
Crawford	-20697	-16012	-6411	-11848	-11485	-6679	-6462	-8713	-5605	-2330	-2889	-6854	-4274	-4496
Dallas	-121071	-111774	-81856	-100640	-87379	-73802	-71499	-61691	-48969	-51101	-54466	-53530	-47934	-51380
Davis	-23686	-23381	-15612	-17055	-15331	-13274	-9017	-8213	-9931	-8666	-5266	-6641	-7474	-10790
Decatur	-21443	-21370	-22507	-22186	-20284	-19372	-16386	-13430	-13362	-12471	-9905	-5141	-4840	-8091
Delaware	-46101	-42901	-30346	-37042	-33777	-21302	-23751	-21732	-16401	-14144	-7072	-20767	-22611	-23758
Des Moines	39752	44651	558	-8438	5687	6733	-5338	-914	-8527	-5402	8393	25426	20073	19666
Dickinson	22606	15249	21899	24416	15430	5845	-978	-10705	-9251	-5857	-7224	-3925	-756	2532
Dubuque	89596	69401	73430	66496	53650	60269	55210	50517	27242	42117	19746	-9044	-4669	16814
Emmet	-6329	-4293	5066	5890	5332	3877	3697	-5605	-4054	4376	-836	8090	10011	6828
Fayette	-22900	-19946	-19536	-24563	-19769	-18468	-6737	-6963	-5519	476	3952	9184	9775	10664

Table 2. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1993 (continued).

Counties	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	-30880	-29572	-20987	-22463	-16066	-16596	-12810	-14075	-7739	-254	-1846	-16970	-23113	-25843
Franklin	-29606	-26038	-25728	-28459	-11539	-21891	-11084	-19488	-15511	-14504	-4888	-3310	-1979	-9446
Fremont	-15031	-18208	-23331	-31115	-27293	-22457	-18617	-17653	-14199	-11330	-7502	-17102	-17640	-15696
Greene	-12117	-15490	-22302	-22424	-21052	-19778	-13697	-15790	-12422	-6409	-3206	-18472	-17049	-18741
Grundy	-51178	-52084	-53368	-57843	-51109	-45321	-45282	-42376	-35643	-34460	-24096	-23773	-24653	-26118
Guthrie	-39507	-33339	-22352	-20198	-17910	-17986	-15706	-14314	-11604	-9294	-6902	-15818	-15416	-20131
Hamilton	-37052	-34375	-27743	-25847	-21441	-18130	-20395	-15343	-13171	-7362	-1492	-4715	-2069	1250
Hancock	-41237	-40262	-36815	-39821	-30559	-30040	-21922	-21622	-17805	-13454	-7688	-12058	-11813	-9812
Hardin	-21956	-18175	-17989	-16015	-14864	-9345	-354	3670	12854	16830	20665	7303	9542	15762
Harrison	-38767	-38323	-28473	-33223	-29339	-23923	-16880	-18146	-17008	-14136	-9682	-24507	-21294	-21596
Henry	-13581	-14750	-22626	-16939	-12252	-5124	-1812	-6565	-8237	-8847	-2566	-10837	-12312	-10032
Howard	-16217	-14008	-12857	-15519	-12680	-7166	-5714	-6954	-6113	-1786	1718	-7933	-8314	-10325
Humboldt	-27309	-26800	-15372	-15472	-14376	-14297	-10773	-11784	-6786	-5670	-3906	-7544	-8442	-3046
Ida	-18996	-15442	-7465	-5704	-3802	-2530	-631	410	3364	5071	7665	-20799	-19568	-18982
Iowa	37357	33440	1941	-2325	-3171	-3112	2796	-221	2500	4002	7913	14946	19686	21315
Jackson	-50313	-48727	-33090	-38474	-35543	-35144	-32129	-26324	-26500	-22803	-21588	-23278	-19386	-23381
Jasper	-81036	-61051	-42244	-40184	-54196	-32917	-38518	-29558	-25290	-31751	-25976	-33756	-34129	-33556
Jefferson	-23049	-25283	-32784	-29354	-19769	-16159	-11427	-10758	-7267	-6032	-4448	-9158	-10312	-12984
Johnson	-126957	-133779	-91975	-1986	-8217	-30179	-34941	-51461	-58068	-81556	-85811	-1439	-8377	-8604
Jones	-37248	-28601	-7621	-11601	-3493	-6439	-8345	-14021	-11714	-7002	-1648	-9313	-9049	734
Keokuk	-44588	-43286	-39650	-35700	-34226	-27545	-26640	-21562	-20455	-20688	-13445	-17945	-18845	-18240
Kossuth	-17043	-22927	-14523	-12389	-12625	-7446	2120	1913	10140	19277	20964	1725	-924	-3365
Lee	-3763	-2573	-23041	-48691	-40294	-35667	-27173	-29284	-27162	-20582	-8123	8231	12366	3846
Linn	322940	283228	266102	261500	250586	206506	214210	191594	174326	90251	70938	145819	150123	185534
Louisa	-64162	-63407	-59302	-53519	-50194	-44099	-43856	-37137	-38155	-40592	-30713	-26367	-21836	-21054
Lucas	-1176	-1236	7700	-2260	3324	3568	-3670	-12414	-11342	-12038	-10215	-19068	-17653	-24318
Lyon	-31837	-29791	-14951	-15912	-13617	-11680	-9643	-14866	-11884	-10041	-7421	-21118	-17543	-10823
Madison	-49329	-47896	-27318	-22123	-21526	-20535	-22612	-23999	-25338	-24301	-17866	-20735	-20347	-27159
Mahaska	-4110	-4330	10962	707	3073	6251	4740	3037	4110	3315	7824	3756	8815	12960
Marion	-77536	-72477	-68509	-55318	-49139	-35555	-40122	-33102	-38524	-34744	-32786	-41278	-36278	-43528
Marshall	-29952	-27258	-30077	-35737	-38280	-46884	-48750	-33636	-30409	-40528	-32253	-3973	-3063	-7538
Mills	-56218	-54155	-43046	-39001	-37645	-37319	-36146	-35469	-35647	-28652	-25512	-39155	-35410	-40930
Mitchell	-32084	-29686	-20893	-22620	-20091	-15491	-10989	-14332	-10711	-9354	-2503	-6923	-8868	-2845

Table 2. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1993 (continued).

Counties	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	-24004	-23411	-11999	-13193	-9081	-6054	-5030	-2802	-3911	1492	2302	-16639	-13381	-12961
Monroe	-18708	-19548	-28405	-26945	-26262	-23580	-19162	-15782	-13495	-11715	-14635	-8762	-9207	-10768
Montgomery	3411	-159	6514	4004	5988	-1178	-7555	-12066	-3746	-1270	-1539	-12197	-11802	-13195
Muscatine	-44466	-46063	-77917	-79004	-75299	-69815	-61457	-50261	-38459	-38712	-39034	-8927	-16992	-32503
O'Brien	-26983	-24405	-12490	-6516	-845	4948	3955	-4776	-2058	2052	5171	-3609	-2902	-2413
Osceola	-26417	-25703	-14799	-13666	-14277	-12046	-11319	-9328	-7683	-4286	-3916	-5867	-3504	2470
Page	-36746	-34943	-28711	-30683	-23605	-24066	-14980	-14496	-8253	-5490	-2636	-3624	1575	-9081
Palo Alto	-32883	-33548	-25830	-24145	-22550	-21349	-19462	-19593	-16365	-12197	-8304	-20299	-15429	-14314
Plymouth	-56059	-51775	-27996	-37152	-20376	-22543	-20665	-21508	-19852	-22688	-19920	-30861	-24573	-17397
Pocahontas	-34246	-32042	-32486	-32004	-27903	-25592	-25275	-17974	-10225	-5718	-812	-8673	-7131	-9354
Polk	1482786	1409391	1452751	1462979	1382012	1217786	1111732	977285	837666	747005	538291	606013	561695	589259
Pottawattamie	-94095	-96565	-159867	-154371	-134091	-118807	-99258	-114734	-104770	-95434	-99869	-89447	-82204	-94868
Poweshiek	10192	16865	22607	21352	24176	11531	10153	9847	8766	7418	12185	-21735	-26711	-33344
Ringgold	-13751	-12453	-5487	-5798	-3981	-3705	-4804	-3522	-4366	-3452	-2013	-6424	-7685	-8684
Sac	-46610	-40415	-17687	-17169	-16305	-14298	-15330	-16842	-9419	-7435	-1332	-15567	-13466	-14396
Scott	338469	367482	181504	151174	30598	63728	21236	45689	46640	37172	-27347	50777	44764	55894
Shelby	-30574	-27559	-17503	-21917	-18495	-15957	-8672	-9222	-8873	-6690	2940	-4267	-4078	-1118
Sioux	-27960	-22215	-1488	-18588	-20539	-21724	-12943	-15507	-4480	4483	7575	-4991	-6090	6023
Story	-64983	-57659	-91753	-73015	-74510	-84122	-74740	-71228	-74982	-90651	-80768	-66389	-56535	-60690
Tama	-52612	-52540	-42892	-31503	-27613	-29535	-20428	-19967	-18656	-11606	-7910	-22921	-20953	-27051
Taylor	-24094	-24396	-21524	-22321	-21628	-18312	-14282	-14769	-13415	-11823	-9338	-12706	-12984	-11012
Union	-1407	-1787	-9299	-13214	-14655	-11812	-8445	-5486	-7504	-5449	-1898	856	2051	2188
Van Buren	-28229	-25266	-22020	-21852	-22033	-21543	-19187	-15920	-14422	-15227	-13032	-17414	-15506	-17999
Wapello	29680	15823	6015	3023	-24946	-22935	-28349	-18815	-18324	-14504	-24335	-17082	-14353	-22937
Warren	-193249	-175042	-154283	-171938	-162358	-150357	-149083	-133905	-131972	-131271	-136174	-89287	-86903	-81816
Washington	-32097	-27125	-20460	-24338	-21594	-10000	-14151	-13018	-7743	-2147	4738	-5300	-6838	-1619
Wayne	-22297	-22339	-15619	-13072	-12369	-10732	-11374	-9189	-9801	-9945	-6618	-9430	-9174	-16044
Webster	71602	76411	97200	109204	60587	52679	57349	53744	62365	64276	57389	44230	50626	65552
Winnebago	-23138	-22855	-38744	-36063	-32055	-35279	-30225	-27219	-23452	-15758	-12705	-4490	-3872	-12383
Winneshiek	-18375	-16024	-9046	-14215	-12785	-9823	-13243	-20246	-21200	-18309	-7269	-16601	-17999	-25675
Woodbury	125910	119796	156060	165558	173233	164729	131875	125340	129898	110003	95477	99230	91916	40506
Worth	-36132	-34249	-38350	-38672	-32149	-29505	-24631	-17258	-23742	-19297	-12571	-19633	-15270	-14474
Wright	-21247	-22843	-49628	-55168	-51780	-45708	-44471	-39257	-28408	-10228	-3246	-14151	-20051	-21821

sales from residents of other counties. If the county's actual sales are less than the figure resulting from multiplying the state's average times the local population, however, then sales have been lost from that county to others. Because these calculations are based on population estimates for the years 1981 through 1989 and for 1991-1993, caution must be exercised in interpreting them. The calculations for 1980 and 1990 use the population counts from the decennial censuses.

Sales above what would be expected from the state average occurred in 17 counties in 1993 (Table 2, Figure 2). These counties are serving residents substantially in excess of those living within their own boundaries. These additional sales ranged from less than \$50 million in nine counties to \$1.5 billion in Polk. Four other counties (Black Hawk, Linn, Scott, Woodbury) had figures at least \$100 million above those expected when population is factored into the calculations.

The remaining 82 counties had sales that were lower than their population bases would suggest. Six lost sales of less than \$10 million, 56 were \$10-\$49 million lower than expected, and 20 were down at least \$50 million in expected sales. Only Dallas, Johnson, and Warren counties had sales at least \$100 million less than expected. Counties with relatively high leakage of sales generally are near major metropolitan centers that most likely captured many of those dollars.

Figure 1. Change in sales subject to sales tax, 1983 to 1993.

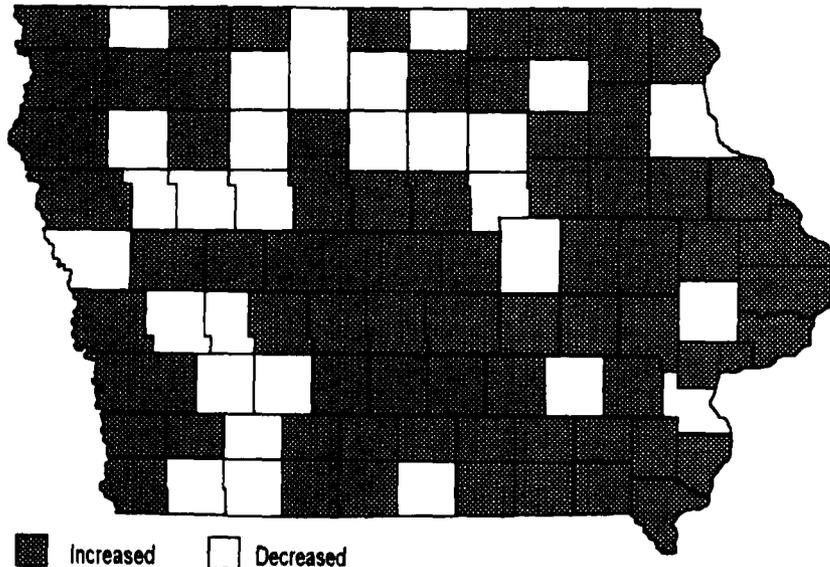
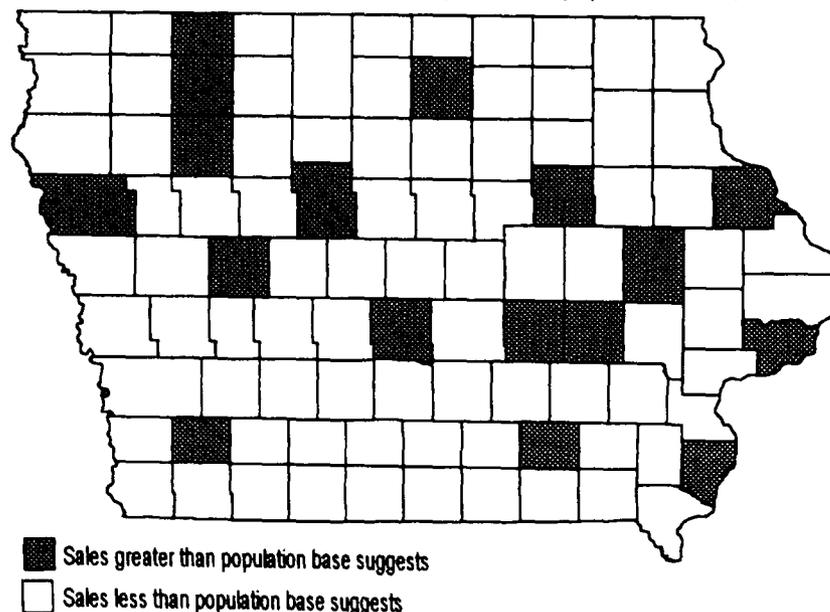


Figure 2. Sales subject to sales tax compared with population base, 1993.



Business Establishments, Employees, and Annual Payrolls in Iowa's Counties: 1965-1991

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

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

Number of Establishments

Iowa had 66,904 business establishments in 1980, which was 2,726 (or 4.2%) more than the number counted in 1975 (Table 1). This increase continued through the first half of the 1980s, when 6,304 businesses were added; but the trend reversed from 1985 to 1987 when the total was down 1,673 establishments for a loss of 2.3%. Gains occurred each year from 1987 to 1991. There were 2,785 more businesses counted in 1991 than in 1987; more than two-fifths of that increase took place between 1990 and 1991, the two most recent years for which data were available.

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

From 1980 to 1985, 78 counties had gains in the number of business establishments. Fourteen had at least 100 more businesses at the end of this period, while only one county (Sac) dropped by more than 20. The general trend of increasing businesses across counties slowed abruptly from 1985 to 1990, when only 24 counties reported gains. Declines of at least 20 businesses occurred in 38 counties, with 10 (Black Hawk, Cass, Cerro Gordo, Hamilton, Jones, Kossuth, Lee, Marshall, Pocahontas, Webster) having decreases of at least 50. Increases of 20 or more business establishments occurred in 14 counties

Table 1. Number of Business Establishments In Iowa Counties, 1965-1991.

County	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Adair	221	216	225	226	225	226	244	230	230	210	216
Adams	110	125	117	122	118	123	125	117	112	106	117
Allamakee	411	396	401	396	391	394	392	393	385	343	351
Appanoose	327	328	326	318	305	309	317	320	344	297	314
Audubon	203	199	204	197	195	205	221	227	239	229	246
Benton	537	544	531	530	539	532	559	501	491	421	452
Black Hawk	3006	3011	2976	2950	2956	2999	3094	2903	2665	2305	2283
Boone	511	506	504	521	531	543	554	502	520	472	529
Bremer	611	584	564	567	564	580	586	537	495	451	455
Buchanan	478	465	460	446	434	430	475	439	414	335	372
Buena Vista	610	604	609	624	623	619	632	601	563	487	544
Butler	374	368	362	372	362	366	403	396	364	333	339
Calhoun	323	316	329	331	339	327	346	341	372	319	374
Carroll	740	747	734	718	727	731	743	679	662	587	608
Cass	512	487	482	488	489	501	539	518	540	464	499
Cedar	437	444	435	438	437	455	454	410	426	376	403
Cerro Gordo	1421	1398	1415	1405	1434	1460	1469	1394	1316	1197	1235
Cherokee	386	381	374	380	389	399	400	382	370	358	388
Chickasaw	378	368	369	374	357	359	377	364	362	298	310
Clarke	213	196	208	210	208	199	211	188	184	165	160
Clay	589	593	605	595	605	595	623	610	535	480	502
Clayton	517	531	508	509	504	493	523	452	460	446	465
Clinton	1249	1215	1215	1190	1193	1211	1244	1125	1139	1060	1080
Crawford	482	481	476	477	456	477	493	467	430	386	416
Dallas	650	612	597	592	591	617	616	580	584	496	532
Davis	172	174	166	179	175	174	184	168	164	158	161
Decatur	166	169	173	175	163	164	178	185	189	173	178
Delaware	424	413	410	398	400	411	417	417	366	326	365
Des Moines	1213	1186	1167	1181	1189	1193	1208	1090	983	1018	1042
Dickinson	611	608	598	561	551	551	550	407	408	323	339
Dubuque	2441	2357	2273	2255	2217	2239	2279	2035	1851	1561	1630
Emmet	278	283	281	280	288	295	318	319	330	291	304
Fayette	640	622	634	626	608	616	659	619	622	534	606
Floyd	447	446	442	440	441	448	466	445	418	400	426
Franklin	321	304	313	317	328	330	348	353	373	301	341
Fremont	192	189	185	177	179	196	199	184	210	183	215
Greene	286	287	287	290	294	303	322	291	293	269	310
Grundy	318	314	307	313	323	321	349	306	325	291	299
Guthrie	262	251	236	234	257	262	272	266	263	247	253
Hamilton	423	422	428	445	441	449	472	439	450	419	449
Hancock	351	344	335	319	331	342	356	338	352	258	297
Hardin	644	652	651	656	630	647	670	641	652	592	579
Harrison	344	327	335	338	325	324	332	320	327	313	349
Henry	476	484	482	473	470	436	464	481	454	412	431
Howard	262	252	246	241	248	263	271	283	284	256	285
Humboldt	315	311	318	314	311	318	328	330	328	281	304
Ida	234	232	246	242	240	242	242	236	256	218	249
Iowa	445	416	407	407	405	422	445	389	374	354	380
Jackson	497	470	489	485	501	511	511	463	464	418	422
Jasper	768	758	752	747	754	781	777	718	696	637	620

Table 1. Number of Business Establishments In Iowa Counties, 1965-1991 (continued).

County	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Jefferson	575	547	525	515	535	525	482	343	335	310	336
Johnson	2120	2076	2004	1997	1984	1945	1953	1499	1312	1121	1034
Jones	441	429	431	443	441	472	497	440	450	396	411
Keokuk	285	278	280	277	284	289	297	299	299	275	314
Kossuth	532	513	531	526	526	542	582	566	539	478	520
Lee	1036	1014	1003	1022	1032	1052	1068	973	944	843	860
Linn	4545	4482	4437	4411	4348	4343	4318	3757	3258	2836	2827
Louisa	222	223	225	224	226	216	231	208	207	198	216
Lucas	187	188	203	192	189	189	202	213	217	226	237
Lyon	326	309	288	283	288	282	294	269	279	247	276
Madison	290	290	273	286	276	274	274	243	235	225	212
Mahaska	558	543	553	551	558	545	572	527	528	519	552
Marion	694	677	669	653	641	655	677	599	582	478	499
Marshall	924	912	931	946	951	960	988	930	907	801	823
Mills	225	230	225	223	218	223	238	256	235	204	234
Mitchell	336	322	320	326	314	312	308	298	310	286	301
Monona	277	287	289	285	291	291	296	292	323	265	278
Monroe	182	182	190	180	179	179	190	179	176	157	170
Montgomery	337	329	330	322	321	341	368	357	347	366	377
Muscatine	970	959	952	945	976	993	992	894	871	712	743
O'Brien	527	514	501	519	510	524	530	520	514	438	474
Osceola	204	204	197	199	199	196	207	208	199	189	220
Page	543	515	524	496	504	521	550	505	510	481	505
Palo Alto	316	309	308	315	308	316	317	290	304	294	332
Plymouth	604	622	607	617	633	617	595	568	567	481	504
Pocahontas	290	294	292	299	309	359	365	315	323	301	326
Polk	10302	10068	9841	9638	9583	9403	9343	7946	7263	5963	6045
Pottawattamie	1789	1782	1758	1758	1776	1753	1708	1513	1470	1247	1333
Poweshiek	526	523	518	528	524	542	506	483	455	419	429
Ringgold	135	140	132	128	124	127	133	139	139	116	136
Sac	376	378	362	362	382	382	400	423	421	389	433
Scott	4106	4025	3954	3943	3903	3793	3854	3332	2989	2480	2482
Shelby	397	401	384	388	381	389	387	362	370	346	330
Sioux	926	878	858	801	791	790	809	813	749	613	614
Story	1717	1669	1596	1602	1548	1575	1588	1456	1311	989	980
Tama	366	370	371	381	365	394	414	415	426	389	445
Taylor	172	178	182	181	179	165	183	167	182	182	188
Union	344	347	355	342	337	342	363	366	338	329	345
Van Buren	174	167	174	169	165	166	182	167	176	137	166
Wapello	830	825	819	804	797	802	851	772	776	816	852
Warren	623	625	591	582	574	570	562	454	460	337	337
Washington	581	578	567	581	557	563	593	542	532	461	470
Wayne	192	195	179	168	167	167	172	191	189	183	198
Webster	1162	1156	1137	1147	1149	1180	1223	1206	1154	1083	1132
Winnebago	324	325	339	327	319	328	337	356	343	321	330
Winneshiek	566	558	542	545	542	537	559	471	441	402	418
Woodbury	2721	2681	2655	2646	2655	2666	2706	2557	2545	2257	2431
Worth	177	170	170	180	176	175	190	175	182	147	186
Wright	431	426	427	436	433	442	465	444	460	411	449
County Unknown	11	31	46	24	26	23	32	307	402	1526	1132
State of Iowa	74320	73130	72232	71782	71535	71823	73208	66904	64178	57524	59466

Table 2. Number of Employees of Business Establishments in Iowa Counties, 1965-1991.

County	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Adair	1679	1816	1825	1862	1717	1593	1590	1531	1335	1090	851
Adams	781	771	1022	1016	1309	1241	1325	1421	1835	738	527
Allamakee	3632	3503	3632	3371	3393	3281	2980	3093	2465	2417	1578
Appanoose	3118	2998	2895	2908	2702	2599	2518	3048	3032	2831	1901
Audubon	1337	1294	1168	1087	1123	1106	1223	1431	1144	1227	1026
Benton	3495	3493	3351	3323	3059	3109	2984	3570	3073	2454	2192
Black Hawk	48613	47126	45088	42766	40117	39187	41371	55515	48390	42263	36337
Boone	6063	6430	5943	4680	4572	4529	4777	4934	4406	3928	3202
Bremer	7766	7538	7946	6767	5882	6031	5891	5821	5025	4283	3253
Buchanan	3729	3718	3693	3266	3028	2772	2978	3063	2562	1795	1645
Buena Vista	6915	6748	6513	6394	6392	6229	6267	6042	3917	3895	3141
Butler	2019	1995	1942	1903	1936	1704	1887	2331	1667	1395	1216
Calhoun	2398	2278	2122	2042	2026	1899	1938	2272	1962	1594	1401
Carroll	8058	7552	7132	7000	6564	6667	6074	7162	5170	3933	3530
Cass	4784	4850	4925	4782	4553	4161	4188	4506	3754	3049	2621
Cedar	3135	3209	3170	2940	2711	2575	2661	2718	2369	1891	1633
Cerro Gordo	19582	19165	18923	17725	16848	16519	16838	17290	14899	14247	12348
Cherokee	4392	4128	3878	3430	3689	3654	3675	3919	3492	3168	2303
Chickasaw	3699	3715	3369	3286	3066	2962	3149	3437	2937	1688	1520
Clarke	2677	2536	2757	2188	2197	1881	1918	1948	1250	1087	751
Clay	6291	6142	6134	5728	5207	5262	5467	6671	4980	4182	3078
Clayton	4193	4330	4275	4002	3829	3324	3357	3508	2991	2415	2204
Clinton	17304	16831	16596	15864	15003	14472	15301	17997	16209	15508	13014
Crawford	4626	4775	4589	4951	4909	4774	5033	5034	3106	3193	2633
Dallas	6149	5317	4902	5156	4887	4686	5017	4977	4964	3706	3138
Davis	1170	1189	1222	1147	1059	1012	1014	1142	914	805	633
Decatur	1968	2135	1995	1897	2122	2557	2263	2110	1538	1455	871
Delaware	3162	3144	2857	2797	2465	2659	2525	3385	2248	1972	1714
Des Moines	19051	19101	19095	18214	17327	16420	16035	18853	16845	20300	15562
Dickinson	5568	5164	5098	4340	4282	3970	3802	3697	3136	2292	1612
Dubuque	42821	42195	40917	40225	36620	37126	36159	42224	35270	30131	24180
Emmet	2842	2759	2620	2603	2675	2502	2765	3943	3259	2805	2400
Fayette	5503	5262	5246	4870	4365	4402	4532	5000	4275	3852	3370
Floyd	4959	4815	4878	4504	4213	4002	3811	5330	7145	4458	4792
Franklin	2400	2503	2317	2339	2278	2337	2646	3002	3050	1733	1762
Fremont	1386	1483	1184	1183	1239	1175	1178	1207	2001	887	763
Greene	1922	2034	2153	2137	2075	1889	2044	2345	1707	1792	1534
Grundy	2093	2153	2052	2076	1937	2003	2147	2196	2222	1733	1336
Guthrie	1718	1637	1671	1650	1609	1551	1464	1619	1217	1126	878
Hamilton	5966	5911	6308	5694	5352	4840	4771	4823	3743	3937	3089
Hancock	2921	2887	2864	2838	2609	2680	2721	2796	2059	1418	1106
Hardin	5467	5318	5148	5077	5332	5157	4992	5734	4604	3931	2972
Harrison	2437	2279	2318	2169	2124	1927	1995	2215	1816	1678	1524
Henry	9663	9045	8456	7160	6707	6065	5914	5216	3751	3262	2401
Howard	1827	1771	1751	1736	1842	1730	1652	2013	1516	1179	1222
Humboldt	2513	2430	2574	2407	2225	2321	2376	2435	2266	1680	1446
Ida	2350	2545	2490	2443	2120	1970	1948	1927	1608	1348	888
Iowa	6679	6252	6739	5972	6178	5441	5822	6219	5579	3880	2975
Jackson	4204	4143	3655	3554	3365	3277	3244	3843	3203	2864	3342
Jasper	10011	10064	9861	10645	9969	9521	9754	10672	9455	8861	7343

Table 2. Number of Employees of Business Establishments in Iowa Counties, 1965-1991 (continued).

County	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Jefferson	6694	6908	6236	5797	5162	5399	4647	4780	3744	3870	3854
Johnson	37155	37436	34883	25941	24398	23602	22439	19287	15022	12913	9605
Jones	3455	3446	3262	3245	3123	3281	3506	3646	3091	2635	2082
Keokuk	1715	1677	1776	1587	1766	1636	1458	1852	1551	1343	1155
Kossuth	4703	4755	4634	4581	4481	4268	4592	4911	3592	3013	2711
Lee	14734	14580	13398	12820	12482	12994	13302	15916	12041	12304	10475
Linn	86020	87000	84017	78591	76662	73309	71172	80670	64651	58226	48789
Louisa	2839	2643	2720	2654	1974	1245	1249	1749	1455	1207	1009
Lucas	2239	2566	2617	2433	2416	2215	2407	2287	1988	1950	1399
Lyon	2062	1854	1703	1650	1598	1492	1544	1796	1427	1174	1132
Madison	1961	1955	1827	1831	1746	1666	1643	1777	1477	1370	1010
Mahaska	5430	5677	5358	5274	4958	4746	4403	5347	4915	4427	3576
Marion	11871	12100	11634	9914	9429	9039	8886	8574	6228	4339	3544
Marshall	14146	13886	13466	12978	12731	13039	13198	14726	13585	13026	10203
Mills	3259	3225	3006	1719	1686	1618	1964	2110	1650	1393	1119
Mitchell	2399	2390	2290	2153	2162	2071	1920	1952	1561	1384	1015
Monona	2282	2312	2119	1905	1920	1854	1932	1970	1567	1268	974
Monroe	1412	1446	1247	1244	1333	1192	1231	1786	1441	977	855
Montgomery	3896	4037	3998	3656	3524	3385	3698	4010	3252	2690	2307
Muscatine	17276	17740	16869	16538	15925	16330	15633	15956	13413	10029	7652
O'Brien	5008	4728	4614	4529	4082	3816	3908	4112	3139	2712	2123
Osceola	1547	1512	1566	1385	1273	1221	1242	1480	1384	1170	1085
Page	5364	5890	5485	5079	5163	4954	5243	5222	3843	3704	3128
Palo Alto	2102	2010	2088	1923	1898	1803	1911	2264	1745	1696	1355
Plymouth	6927	6082	6006	5624	5716	5270	5127	5458	4012	3209	2601
Pocahontas	2298	2226	2206	2143	2013	2385	2256	2183	2370	1883	1494
Polk	199303	195268	191434	184627	171945	166886	162538	154178	130788	113449	92773
Pottawattamie	22266	22089	21277	21601	20629	18303	17783	18057	16053	14342	11267
Poweshiek	7865	7886	7857	6913	6339	5916	5772	5718	4665	3883	2811
Ringgold	801	808	718	759	719	735	771	959	747	545	495
Sac	2510	2326	2366	2104	2098	1979	2092	2831	3000	2259	1941
Scott	64323	62261	60918	58830	57854	56496	56350	61785	50486	42483	37240
Shelby	3442	3592	3507	3261	3216	3200	2992	3031	2729	2848	1819
Sioux	12145	11855	10736	9810	8762	8623	8662	8546	5922	4370	3584
Story	24208	22857	22186	18541	18386	18691	17617	18086	12754	9379	7895
Tama	3291	3357	3365	3054	2979	2965	3059	3280	2616	2079	1870
Taylor	1436	1783	1479	1475	1111	941	1001	1210	866	1150	747
Union	3737	3883	3728	3670	3406	3007	3030	3389	2569	2461	2028
Van Buren	1070	1056	969	1024	990	962	1027	1019	887	752	723
Wapello	11580	11493	11056	9866	9451	9570	10033	11518	9792	11897	11181
Warren	5514	5334	5138	4828	4737	4461	4481	4000	3093	2395	1501
Washington	4708	4467	4323	4212	4082	4068	4422	5247	4184	2752	2324
Wayne	1402	1368	1219	1189	1140	1224	1240	1442	1034	851	808
Webster	14895	14822	14212	13536	13093	12857	13882	16420	14059	14969	12362
Winnebago	5225	4753	6810	6267	5504	5583	6037	4758	5323	3835	2105
Winneshiek	7315	7450	6814	6571	5652	5799	5758	4292	3387	3074	2502
Woodbury	40722	42564	40259	36854	34692	36160	35543	38134	36808	32583	27888
Worth	1496	1395	1277	1222	1085	965	1024	1047	814	682	565
Wright	3923	3863	4114	3994	3895	3786	3398	3968	3392	2819	2480
County Unknown	238	812	538	526	494	489	482	258	1492	7764	6512
State of Iowa	1019245	1007900	978584	920042	874688	852247	847486	906179	762965	674889	558431

Table 3. Annual Payroll (in \$1,000s) for Business Establishments in Iowa Counties, 1965-1991.

County	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970*	1965*
Adair	25938	27162	26036	26686	23304	20866	18918	15174	9541	4612	2936
Adams	8861	8118	13744	13407	16692	16039	15616	13458	11936	3140	1528
Allamakee	49113	47579	46218	39848	39402	39272	34648	26760	17388	10800	5340
Appanoose	50572	47089	42965	41869	38271	36798	34504	31398	23652	12808	5792
Audubon	16236	15360	13824	12875	11815	10869	11281	11839	7687	5264	3372
Benton	53989	51418	47340	46551	42351	38742	36788	36323	22573	11284	7820
Black Hawk	1014286	994812	931286	867362	752675	668031	727039	863624	494660	275864	183904
Boone	100722	99498	99321	68421	62450	68239	62651	50665	32460	18636	11820
Bremer	142157	130897	139673	112161	97510	93285	91621	65188	41718	24388	13404
Buchanan	62487	59029	57275	44834	39315	35090	34082	32463	19551	7820	5520
Buena Vista	105588	100198	94194	93041	84419	78776	74412	64704	29573	21016	12960
Butler	26105	27250	25607	23465	21658	18279	19429	20993	12692	5604	3944
Calhoun	32012	30141	28370	25896	24724	23807	22373	21135	12768	6204	4912
Carroll	123639	116062	102792	99249	97095	93166	85146	74621	39759	17424	12436
Cass	65676	70463	69545	68146	60739	54224	52208	40911	26162	13884	9132
Cedar	44312	42948	40268	37644	34078	28322	29770	27517	16389	8052	5460
Cerro Gordo	336236	321552	301522	270657	250277	233740	231054	197003	123300	80576	53760
Cherokee	69197	65447	62451	51289	58288	49175	50292	47439	28956	17280	8600
Chickasaw	58623	57228	52645	49511	45439	43884	44095	37281	22831	7428	5324
Clarke	38348	39317	37227	33431	31265	27083	24015	20675	8061	4540	3008
Clay	99896	97674	89504	83257	73711	68394	68533	73446	41487	22652	12548
Clayton	62286	63163	58724	56107	49533	41957	38374	37311	22753	9600	6888
Clinton	315286	304221	289800	269095	233156	217812	235620	232129	148380	94044	60180
Crawford	71504	70015	74773	75211	76026	72868	72622	62404	23237	17064	11376
Dallas	100126	85518	71459	80048	73972	65791	65306	60744	41698	18452	11736
Davis	16711	16850	15800	15400	13261	12382	12289	10795	6211	3144	1884
Decatur	20956	20204	19646	18361	18983	23864	19083	13996	9728	5408	2740
Delaware	51818	51023	46346	44466	36869	35814	33058	33151	17276	10328	5912
Des Moines	383674	369599	350848	331216	314558	288081	271525	256139	153840	119716	72948
Dickinson	86879	82778	78960	62793	58748	49489	50902	36617	22915	10496	5476
Dubuque	833673	792484	742273	725479	672956	611739	625528	587737	360465	199452	125416
Emmet	40786	38943	36629	34058	32664	30734	30105	52111	29052	16100	10012
Fayette	81788	78504	74773	67784	57493	55509	56315	48576	29335	18036	11744
Floyd	75053	70384	72571	68176	59351	56137	50703	71805	71865	27284	24412
Franklin	36733	39041	37090	34868	33859	34962	35297	34971	22724	8308	6132
Fremont	18214	19256	16381	13962	13821	13655	13792	12143	13409	3552	2364
Greene	27949	28401	27553	27591	26249	23782	24001	23250	13085	8632	4996
Grundy	34927	32346	28308	28702	26514	26093	25993	22176	16187	8140	4764
Guthrie	23096	20562	19313	18921	17537	15208	14772	12167	7446	4364	2604
Hamilton	104227	97097	94489	87423	79960	77261	61611	47890	27277	20360	11452
Hancock	47276	43770	44950	43395	36525	35693	35299	28936	14918	5952	3560
Hardin	83045	77989	71781	69444	72328	72020	69187	62891	36293	18956	10936
Harrison	31488	28455	27241	27203	24947	23285	21993	20125	11549	6364	4448
Henry	157133	140467	129549	116217	107028	90537	78681	53455	30572	14872	8508
Howard	25900	24582	22715	23545	21662	21690	20576	18203	9793	4728	4004
Humboldt	39836	36958	37033	34576	31470	29303	28742	26829	17696	8484	5612
Ida	41617	41254	38662	38972	33458	30397	27992	19579	11557	6824	3276
Iowa	127555	110197	108689	104635	90786	81153	81919	71314	45313	18652	10632
Jackson	52011	49782	42285	40517	39504	35068	34184	33596	20276	12760	12776
Jasper	239843	202517	195889	202970	192935	169005	172220	142043	94808	57044	36988

*Only first-quarter payrolls were available in 1965 and 1970; they were multiplied by four to yield estimates of annual payrolls.

Table 3. Annual Payroll (in \$1,000s) for Business Establishments in Iowa Counties, 1965-1991 (continued).

County	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970*	1965*
Jefferson	116595	114175	103515	93185	77075	72653	63863	51082	27639	20960	16308
Johnson	614270	588235	564413	385299	360928	342595	309862	205248	112115	64124	37012
Jones	52480	50049	45380	43772	42071	40459	40094	35808	20966	12236	7412
Keokuk	26254	24367	23619	21866	22232	19959	17345	17208	9466	5840	3732
Kossuth	72222	72114	78329	66638	61939	57410	60527	51736	30520	14344	9632
Lee	285398	270771	255235	240114	219692	227999	226607	205857	114387	75676	48396
Linn	1955569	1942939	1835284	1669391	1511187	1410199	1325977	1148551	655800	401820	257536
Louisa	42899	40848	38241	38442	27393	17716	13688	19046	11158	6060	3600
Lucas	53086	47043	43906	42049	43305	40048	35041	27476	16166	9292	5400
Lyon	27892	24863	22336	21133	18645	17419	17148	17205	9408	5276	4088
Madison	24779	24411	22284	21675	20051	19183	17254	16468	9306	5668	2956
Mahaska	81046	78456	72868	70221	63374	61031	55093	49095	34134	20408	13140
Marion	239340	233695	212493	186520	172293	148628	144951	102243	53551	20264	13040
Marshall	322512	290645	268722	254205	239401	239424	234490	207737	135460	83872	48024
Mills	50540	47492	49576	19693	19123	17943	22981	22716	11657	7016	4372
Mitchell	33757	33289	29271	28411	25835	24161	22360	18684	10535	5572	3244
Monona	31514	28757	26416	23518	22435	20822	20833	16823	10522	4672	3024
Monroe	20555	16646	14819	15469	16040	14525	14846	19307	10868	3940	2484
Montgomery	63427	61579	58860	52529	50523	46845	47456	40180	23267	12560	8508
Muscatine	396481	394184	368785	352316	327587	317417	299711	240526	130557	62596	33940
O'Brien	67190	61576	56499	53840	47527	43527	41668	35886	20392	11724	7396
Osceola	23887	23478	20722	19313	17321	15088	14537	14124	9436	5544	3748
Page	84106	84964	81194	73325	74808	68149	65559	54078	24921	16340	11048
Palo Alto	26735	25275	24063	22473	21099	19527	19720	20124	10999	6944	4448
Plymouth	114597	107987	100102	89934	84510	76831	68593	56938	29906	14888	8808
Pocahontas	33351	32874	32896	28329	27585	25829	26136	21134	15798	9108	5276
Polk	4334406	4265583	3897767	3673450	3335786	3089390	2893922	2137263	1289343	729548	462480
Pottawattamie	359003	349807	325738	317765	305655	266205	249345	191875	119993	72124	43632
Poweshiek	143352	148965	134570	129865	112442	101764	93151	62559	37336	19756	10940
Ringgold	10354	9514	9120	8789	7603	7371	7080	7287	3781	1996	1588
Sac	31427	28167	25872	24488	22016	21022	21278	29218	23162	9904	6336
Scott	1367634	1298962	1214937	1175716	1113791	1060495	1032208	954959	512614	287576	189496
Shelby	49119	46297	42397	41738	38264	37170	34619	28425	17590	13992	6312
Sioux	160390	149378	137562	122377	108767	101789	101495	78015	43521	19008	12516
Story	340207	338109	328564	257841	232284	216567	213503	179020	92946	43712	29000
Tama	45314	51257	47775	48920	39732	38909	38143	32623	20633	9288	6456
Taylor	17876	20741	17196	16387	11142	9035	9798	9717	5066	4076	2084
Union	54028	52829	49583	48867	43494	40108	37677	31722	15860	11184	6784
Van Buren	14803	15078	14054	12293	12465	10960	11104	8501	5506	2944	2228
Wapello	221039	217403	207601	176583	161703	146865	169386	157977	84461	74252	55204
Warren	73207	67947	62183	59272	55677	50401	46540	40174	24596	11028	5284
Washington	70049	66089	61113	59505	55353	51878	53947	53396	29375	13752	8256
Wayne	18394	17941	17063	15797	12933	13662	14501	11520	6260	3196	2640
Webster	266266	250091	228351	211240	190798	178803	182838	198596	113450	87048	56256
Winnebago	95926	97568	102951	103548	86818	80841	76704	43896	42896	21164	7532
Winneshiek	103536	96568	87644	82468	76353	70367	66916	46830	27800	13720	8592
Woodbury	755076	732688	692475	624599	557121	564218	543905	471544	316259	182880	122408
Worth	19223	20997	17718	15537	13870	12220	11745	8929	5677	2724	1672
Wright	65039	66873	68411	64239	57865	54992	43765	42039	29109	14784	9396
County Unknown	4312	16684	11129	12714	10069	9523	9517	7015	8959	49204	34556
State of Iowa	19235845	18631850	17447939	16108393	14727611	13727312	13265591	11454080	6797939	3941996	2515516

(Figure 1). Polk's addition of 725 establishments was the only one greater than 200; Johnson, Linn, and Scott gained at least 100 from 1985 to 1990.

Most recently, increases in business establishments were reported in 67 counties between 1990 and 1991. Nineteen had gains exceeding 20 businesses; four (Dubuque, Linn, Polk, Scott) of these 19 reported increases greater than 50, although Polk's gain of 234 was the only one greater than 100. Twenty-nine counties had fewer businesses in 1991 than in 1990, although none declined by more than 20 establishments. Three counties (Madison, Monroe, Osceola) had the same number of business establishments in 1990 and 1991.

Number of Employees

In 1991, slightly more than one million people were employed by businesses in the state (Table 2). The increase between the two most recent years was greater than 11,000; gains between the previous four years surpassed 20,000 in each case. The gain in employees between 1985 and 1990 totaled 160,000 or 19%. Relatively great growth also occurred from 1975 to 1980, when the number of employees increased by about 143,000 (19%), although employees declined between 1980 and 1985 (-59,000; -6%).

Sixty-three counties reported higher numbers employed in businesses in 1991 than in 1990. Black Hawk, Polk, Scott, and Story each increased by more than 1,000, and another five counties (Carroll, Dallas, Dubuque, Henry, Plymouth) each gained at least 500. Of the 36 counties with fewer employees of business establishments in 1991 than in 1990, three (Linn, Page, Woodbury) reported declines of 500 or more employees.

Among Iowa's counties, 90 had increases from 1985 to 1990, with 30 gaining at least 1,000 employees, led by a jump of 32,700 in Polk. Johnson and Linn gained about 15,000. Declines occurred in nine counties; only Adams and Winnebago dropped by more than 500 employees. From 1980 through 1985, only 20 counties had increases in the number of employees; Polk led with a gain of 8,360 employees, just as it had the greatest increase from 1975 to 1980 and from 1985 to 1990. Fifteen counties declined by at least 1,000 employees from 1980 to 1985; Black Hawk's drop of more than 14,100 was the only one above 10,000.

The number of employees in 1980 was higher than that in 1975 in all but eight Iowa counties (Adams, Floyd, Franklin, Fremont, Grundy, Pocahontas, Sac, Winnebago). The decline was greatest in Floyd, which had about 1,800 fewer employees in 1980 than in 1975; this was the only county with a drop greater than 1,000. Increases in the remaining 91 counties ranged from less than 500 in 31 to more than 1,000 in 34 others. Gains were above 5,000 in six counties (Black Hawk, Dubuque, Linn, Polk, Scott, Story).

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

Annual Payroll

The annual payroll in Iowa's business establishments continued to climb throughout the period studied (Table 3). Indeed, it more than doubled (+\$12.4 billion, +183%) from 1975 (\$6.8 billion) to 1991 (\$19.2 billion), although the effects of inflation have not been included in these figures. While the number of employees increased by more than 113,000 (12.5%), the payroll jumped by nearly \$7.8 billion (67.9%) from 1980 to 1991.

These upward trends in Iowa's total annual payroll were reflected in most counties as well. When 1975 and 1980 are compared, all but two counties (Floyd, Fremont) had higher payrolls at the end of the

period than at the beginning. Increases were greater than \$100 million in eight counties (Black Hawk, Des Moines, Dubuque, Linn, Muscatine, Polk, Scott, Woodbury).

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

Although the total payroll increased in 97 counties, it declined in two from 1985 to 1990. Neither of the declines (Adams, Crawford) topped \$8 million. Increases from 1985 to 1990 were greater than \$25 million in 34 counties, with the gain in Polk (+\$1.4 billion) more than doubling the increase in Linn (+\$617 million), which had the second largest gain. Black Hawk, Johnson, and Scott reported increases ranging from \$260 to \$280 million between 1985 and 1990. Some short-term changes have been relatively dramatic; Black Hawk, for example, was down \$59 million in annual payroll between 1985 and 1986, but payrolls increased by nearly \$85 million between 1986 and 1987, \$115 million from 1987 to 1988, and \$64 million in the next two periods (1988-1989, 1989-1990).

In the most recent comparison between years, 82 counties had higher payrolls in 1991 than in 1990, topped by gains of nearly \$69 million in Polk and Scott. Increases ranging from \$10 million to \$41 million occurred in 17 counties. Of the 17 counties with declines in annual payroll from 1990 to 1991, only three (Cass, Poweshiek, Tama) were down at least \$3 million.

Long-Term Trends

When information from 1965 to 1991 is examined, great change is evident in the number of establishments (Figure 2), employees, and annual payroll. Business establishments increased by nearly 15,000, while employees in these businesses increased from 558,000 in 1965 to 1,019,000 in 1991. The percentage gain of employees (82.5%) was much greater than that of establishments (25.0%), indicating the growth in the number employed per business over the last 26 years. Payrolls also increased dramatically; in 1965, annual payrolls totaled about \$2.5 billion, while they were \$19.2 billion in 1991; growth is evident even when inflation is factored into the calculations.

Note: These data are published in annual reports entitled COUNTY BUSINESS PATTERNS: IOWA (Washington, D.C.: U.S. Bureau of the Census; the 1991 volume was published in October of 1993 under CBP-91-17). More detailed data are available for each county, incorporated places with at least 2,500 residents, and the state in these reports.

Figure 1. Change in number of business establishments, 1985 to 1990.

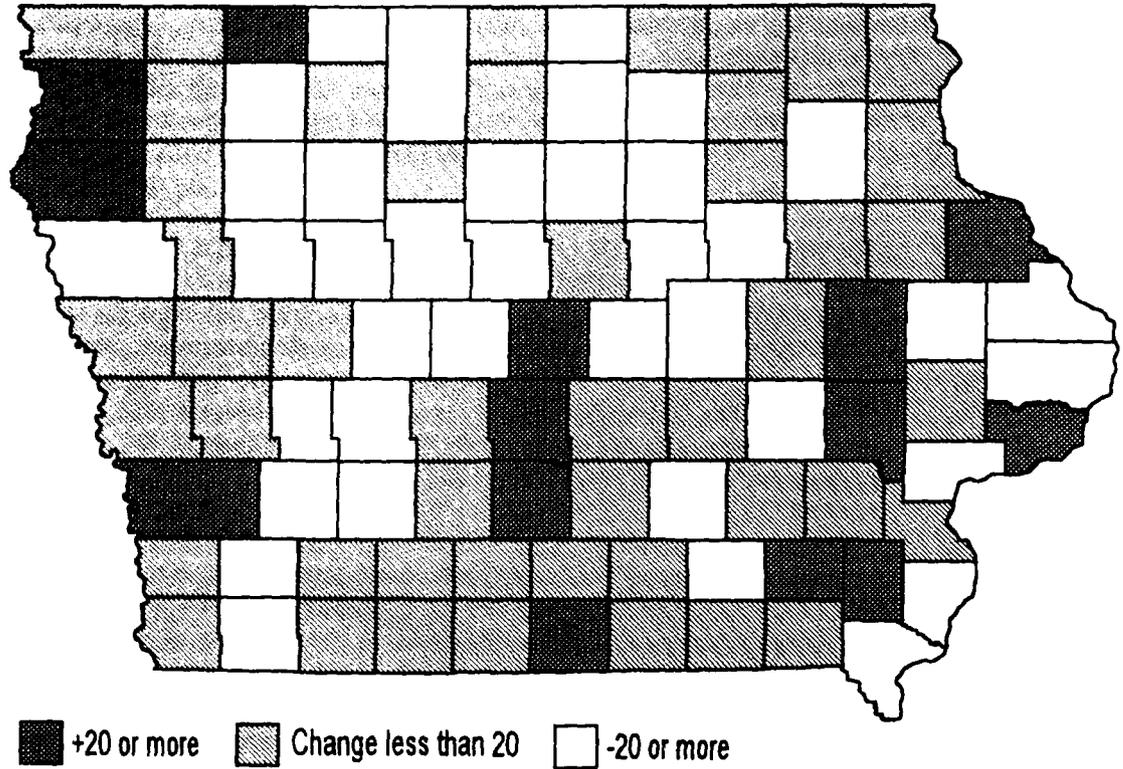
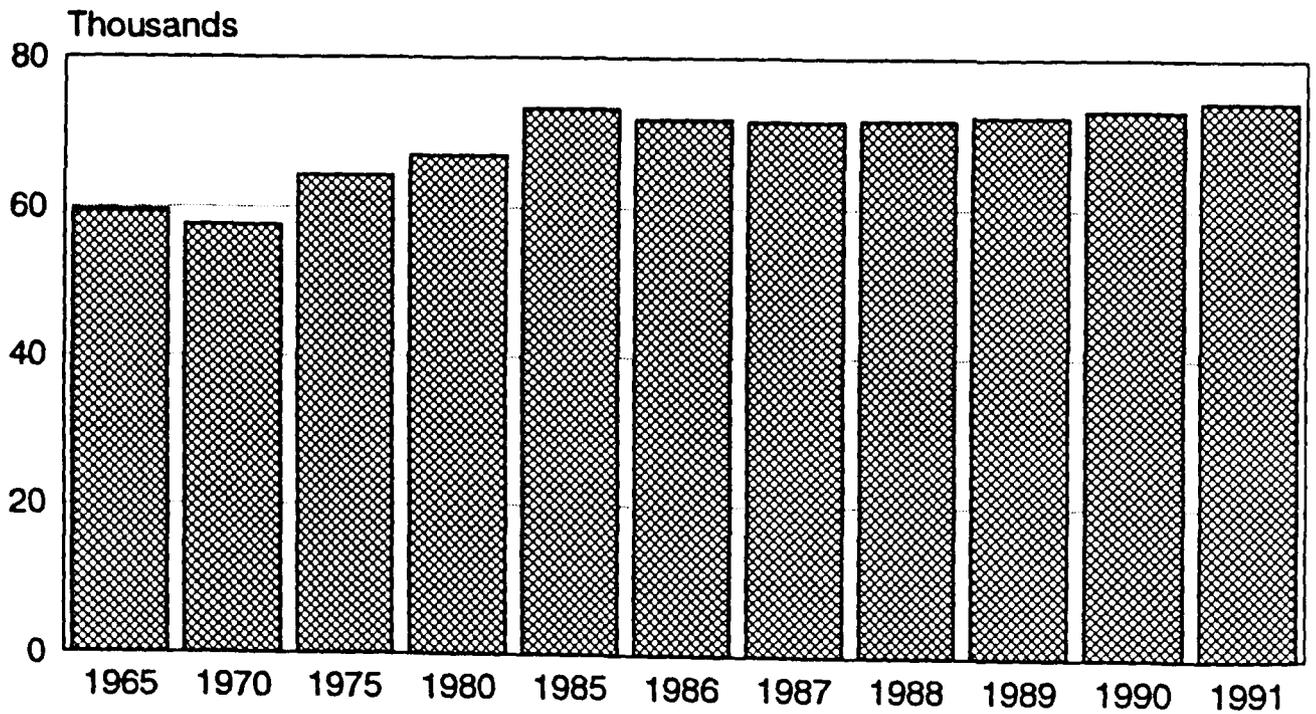


Figure 2. Number of business establishments in Iowa, 1965-1991.



Number and Size of Farms in Iowa's Counties:

1975-1993

Duane Skow, Iowa Department of Agriculture and Land Stewardship
Willis Goudy, Iowa State University
Howard Holden, Iowa Department of Agriculture and Land Stewardship

Each year, the Iowa Department of Agriculture and Land Stewardship estimates the number of farms in Iowa's counties. The 100,000 farms reported for 1993 represented a decrease of 4,000 from the total in 1990. Since 1975, when this series of estimates was initiated, farm numbers have declined by 30,000 (Table 1, Figure 1). Average size in acres has increased from 262 in 1975 to 333 in 1993, a gain of 71 acres over the 19 years (Table 2, 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 the historical settlement patterns. Nine counties (Clayton, Dubuque, Fayette, Kossuth, Linn, Plymouth, Pottawattamie, Sioux, Winneshiek) each have more than 1,400 farms. Their totals are more than double the number in the 13 counties with fewer than 700. Dickinson and Emmet are the only counties with fewer than 600 farms as of 1993.

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 (Decatur, Fremont, Monona, Ringgold, Taylor, Wayne) had averages greater than 450 acres.

Change in Number of Farms

The number of farms declined in all 99 counties from 1975 to 1993. Nearly half (46) of the counties reported decreases of 300 or more farms by the end of the period; 43 decreased from 200 to 299, and the remaining 10 lost fewer than 200 farms. Two counties (Adams, Dickinson) declined by fewer than 150 farms between 1975 and 1993; four others (Clayton, Fayette, Wapello, Woodbury) had at least 500 fewer farms in 1993 than in 1975.

Farms dropped by 11,000 from 1975 to 1980 and by 8,000 from 1980 to 1985. The decline was 7,000 during the 1985-1990 period. In 1975, six counties had at least 2,000 farms; none did in 1993, although Sioux was close at 1,920. The number of Iowa's farms decreased by 20.0 percent from 1975 to 1990 (Table 3). The drop was less than 10 percent in Sioux, although it exceeded 30 percent in Jefferson, Wapello, and Woodbury. At least 25 percent fewer farms were counted in another 13 counties. In the most recent comparison (1990-1993), farms were down 3.8 percent in the state; decreases were at least 4.5 percent in 12 counties.

Patterns for counties tended to be similar to that for the state, with 55 counties reporting greater percentage decreases in the late 1970s than the early 1980s. For 43 counties, percentage declines of farms were higher in the early 1980s than the late 1970s; many of these counties were in the northwestern section of the state, although another group was clustered in the east-central region. Franklin had the same percentage decline in the late 1970s and early 1980s. Although most counties had their largest percentage declines in the late 1970s (50) or early 1980s (25), 22 had their greatest decreases in the late 1980s while Plymouth declined most in the 1990s. Adair reported identical decreases in the late 1970s and late 1980s.

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1993.

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	920	940	940	960	960	980	980	1010	1030	1040	1050	1080	1080	1090	1110	1130	1140	1150	1170
Adams	650	670	670	680	680	700	700	720	720	730	730	750	750	750	760	780	790	790	790
Allamakee	1020	1040	1040	1060	1090	1090	1090	1110	1120	1120	1130	1150	1180	1180	1200	1210	1230	1280	1360
Appanoose	830	850	850	870	870	890	890	890	890	900	900	930	960	990	990	1000	1040	1080	1140
Audubon	810	830	830	850	860	870	870	880	890	900	910	920	940	960	980	1000	1010	1010	1060
Benton	1370	1400	1400	1430	1450	1470	1470	1490	1520	1570	1580	1590	1590	1600	1620	1650	1650	1650	1650
Black Hawk	1220	1240	1240	1260	1270	1300	1300	1320	1330	1330	1340	1370	1370	1380	1400	1410	1460	1520	1560
Boone	970	990	990	1010	1010	1040	1040	1050	1080	1110	1140	1170	1180	1190	1210	1250	1280	1310	1340
Bremer	1090	1120	1120	1140	1150	1170	1170	1190	1210	1240	1280	1300	1300	1300	1310	1390	1390	1410	1480
Buchanan	1270	1290	1290	1320	1330	1360	1360	1380	1390	1390	1400	1420	1460	1490	1510	1510	1570	1620	1670
Buena Vista	1050	1060	1060	1070	1070	1120	1120	1150	1170	1180	1190	1210	1240	1250	1250	1280	1280	1300	1300
Butler	1230	1260	1260	1290	1310	1320	1320	1340	1380	1420	1460	1490	1510	1510	1520	1520	1550	1590	1600
Calhoun	940	960	960	980	990	1010	1010	1040	1080	1110	1170	1180	1180	1180	1190	1220	1220	1220	1250
Carroll	1260	1280	1280	1290	1290	1350	1350	1370	1390	1390	1400	1420	1420	1420	1430	1430	1430	1430	1440
Cass	890	910	910	930	930	950	950	980	1000	1050	1080	1100	1100	1110	1140	1150	1160	1160	1160
Cedar	1120	1140	1140	1170	1170	1200	1200	1220	1240	1280	1320	1330	1330	1340	1360	1400	1400	1400	1420
Cerro Gordo	890	910	910	930	940	950	950	970	1000	1020	1040	1050	1050	1060	1080	1120	1120	1120	1130
Cherokee	1040	1060	1060	1090	1090	1110	1110	1140	1170	1210	1220	1220	1220	1230	1240	1260	1260	1260	1260
Chickasaw	1010	1030	1030	1050	1070	1080	1080	1100	1110	1130	1170	1200	1200	1200	1210	1220	1220	1260	1350
Clarke	670	680	680	690	700	710	710	730	740	750	770	780	780	790	810	820	850	850	850
Clay	830	850	850	870	880	890	890	910	950	1000	1050	1060	1060	1070	1080	1100	1100	1100	1100
Clayton	1590	1610	1610	1660	1690	1700	1700	1710	1710	1710	1720	1750	1810	1830	1850	1850	1930	1990	2110
Clinton	1370	1400	1400	1430	1450	1470	1470	1490	1520	1550	1560	1590	1620	1640	1640	1660	1660	1680	1760
Crawford	1280	1310	1310	1330	1350	1370	1370	1400	1450	1490	1510	1540	1560	1560	1570	1590	1680	1680	1690
Dallas	1030	1050	1050	1070	1080	1100	1100	1110	1140	1170	1200	1220	1220	1220	1230	1270	1270	1270	1290
Davis	880	900	900	910	920	940	940	940	940	940	950	970	990	1000	1040	1040	1090	1170	1250
Decatur	680	700	700	710	720	730	730	750	760	760	770	780	790	790	810	820	850	880	910
Delaware	1360	1390	1390	1420	1430	1460	1460	1460	1460	1460	1470	1500	1500	1500	1510	1530	1560	1610	1700
Des Moines	720	730	730	750	750	770	770	790	800	800	810	830	830	840	890	890	930	930	930
Dickinson	570	580	580	590	600	610	610	620	640	640	650	670	680	690	700	700	700	710	710
Dubuque	1570	1600	1600	1630	1660	1680	1680	1690	1690	1690	1700	1730	1730	1730	1740	1740	1780	1850	1880
Emmet	580	590	590	600	610	620	620	630	650	680	710	720	740	740	750	760	760	770	770
Fayette	1440	1470	1470	1500	1510	1540	1540	1570	1590	1620	1630	1660	1700	1730	1770	1780	1880	1970	2060

*Preliminary estimates

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	940	960	960	980	990	1010	1010	1030	1050	1070	1090	1110	1120	1120	1130	1140	1170	1200	1230
Franklin	960	980	980	1000	1020	1030	1030	1050	1080	1120	1160	1180	1180	1190	1210	1260	1260	1260	1310
Fremont	680	700	700	710	710	730	730	750	750	760	760	780	780	790	800	830	840	840	840
Greene	910	930	930	940	950	970	970	1000	1030	1050	1060	1070	1070	1090	1100	1130	1130	1130	1130
Grundy	980	1000	1000	1020	1020	1050	1050	1060	1090	1110	1120	1150	1160	1170	1180	1230	1260	1260	1270
Guthrie	920	930	930	960	980	980	980	1010	1050	1080	1110	1120	1120	1120	1130	1160	1180	1190	1280
Hamilton	970	990	990	1010	1020	1040	1040	1060	1080	1110	1150	1170	1190	1210	1240	1290	1290	1300	1330
Hancock	1000	1020	1020	1040	1050	1070	1070	1090	1120	1150	1170	1190	1210	1220	1230	1280	1280	1310	1360
Hardin	1010	1030	1030	1050	1060	1080	1080	1100	1120	1160	1200	1220	1220	1230	1250	1280	1290	1290	1290
Harrison	980	1000	1000	1020	1050	1050	1050	1080	1120	1160	1190	1210	1220	1240	1250	1280	1310	1320	1370
Henry	850	870	870	880	890	910	910	930	950	950	960	980	980	990	1050	1070	1120	1120	1120
Howard	900	920	920	930	950	960	960	980	990	1010	1050	1070	1070	1070	1080	1110	1110	1160	1220
Humboldt	710	720	720	730	730	770	770	780	800	820	840	860	860	870	870	900	900	900	920
Ida	750	760	760	780	790	800	800	820	840	860	870	890	890	900	900	920	930	930	960
Iowa	1010	1030	1030	1050	1070	1080	1080	1100	1120	1130	1140	1170	1180	1190	1200	1210	1210	1220	1280
Jackson	1290	1320	1320	1340	1360	1380	1380	1400	1400	1400	1410	1440	1460	1460	1470	1470	1470	1500	1570
Jasper	1390	1420	1420	1430	1440	1480	1480	1500	1530	1550	1580	1610	1610	1620	1630	1680	1690	1690	1690
Jefferson	740	750	750	770	780	790	790	810	830	860	890	910	920	930	1000	1010	1060	1110	1150
Johnson	1300	1330	1330	1350	1370	1390	1390	1410	1440	1480	1500	1520	1520	1530	1540	1560	1560	1560	1560
Jones	1110	1130	1130	1160	1170	1190	1190	1210	1230	1270	1300	1320	1360	1360	1360	1370	1370	1410	1470
Keokuk	980	1000	1000	1020	1030	1050	1050	1070	1100	1140	1190	1210	1210	1220	1300	1310	1380	1380	1380
Kossuth	1640	1670	1670	1700	1710	1750	1750	1780	1820	1860	1880	1910	1920	1940	1970	2030	2030	2060	2130
Lee	940	960	960	980	990	1010	1010	1030	1050	1050	1060	1080	1080	1080	1130	1140	1200	1250	1310
Linn	1600	1630	1630	1660	1670	1710	1710	1740	1760	1790	1800	1820	1820	1830	1840	1860	1860	1860	1870
Louisa	600	610	610	630	640	640	640	650	670	680	700	710	710	720	780	790	830	830	830
Lucas	670	670	670	680	680	700	700	720	730	740	770	790	800	840	850	850	880	920	950
Lyon	1180	1200	1200	1230	1240	1260	1260	1290	1320	1360	1390	1410	1420	1420	1430	1430	1430	1440	1440
Madison	1010	1030	1030	1050	1060	1080	1080	1110	1120	1130	1150	1180	1200	1250	1260	1270	1320	1360	1390
Mahaska	1120	1150	1150	1160	1170	1200	1200	1220	1240	1250	1260	1280	1290	1290	1360	1370	1440	1470	1520
Marion	1070	1090	1090	1120	1120	1150	1150	1180	1190	1210	1230	1250	1250	1260	1350	1370	1420	1420	1420
Marshall	1020	1040	1040	1060	1070	1090	1090	1110	1130	1160	1190	1220	1230	1230	1240	1240	1250	1280	1320
Mills	610	620	620	640	650	650	650	670	670	680	680	690	700	740	750	790	800	800	800
Mitchell	900	920	920	940	940	960	960	980	990	1000	1010	1020	1020	1030	1050	1060	1090	1100	1140

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	810	830	830	850	870	870	870	880	910	920	930	950	970	1000	1000	1050	1050	1050	1080
Monroe	700	720	720	730	730	750	750	750	750	750	760	770	780	810	830	830	860	900	930
Montgomery	660	680	680	690	690	710	710	730	740	760	760	780	780	790	790	790	800	820	840
Muscatine	860	880	880	890	910	920	920	930	940	970	1000	1010	1010	1030	1040	1050	1050	1050	1050
O'Brien	1170	1190	1190	1200	1200	1260	1260	1290	1320	1330	1340	1360	1360	1360	1370	1380	1380	1380	1380
Osceola	700	720	720	730	740	750	750	770	790	820	840	850	850	850	860	860	860	870	870
Page	960	970	970	980	980	1030	1030	1040	1040	1050	1050	1070	1070	1080	1090	1160	1170	1170	1170
Palo Alto	890	910	910	920	940	950	950	980	1000	1010	1020	1040	1050	1070	1070	1100	1100	1110	1110
Plymouth	1650	1690	1690	1740	1740	1770	1770	1810	1830	1870	1880	1900	1910	1920	1930	1950	1950	1970	1970
Pocahontas	940	970	970	990	1000	1010	1010	1040	1070	1100	1110	1130	1140	1160	1170	1180	1180	1190	1190
Polk	950	970	970	990	1010	1020	1020	1040	1060	1080	1100	1120	1140	1140	1150	1150	1170	1240	1340
Pottawattamie	1560	1580	1580	1620	1630	1670	1670	1700	1730	1780	1810	1850	1900	1900	1900	1900	1920	1960	2000
Poweshiek	990	1010	1010	1030	1050	1060	1060	1080	1100	1130	1140	1170	1180	1190	1200	1220	1250	1270	1300
Ringgold	660	680	680	690	700	710	710	730	740	750	770	800	810	820	860	870	900	910	930
Sac	990	1010	1010	1020	1020	1060	1060	1090	1120	1140	1150	1160	1160	1160	1160	1190	1190	1190	1240
Scott	930	940	940	960	980	990	990	1010	1030	1060	1090	1110	1110	1120	1130	1170	1170	1170	1170
Shelby	1120	1140	1140	1170	1180	1200	1200	1230	1270	1300	1320	1340	1340	1340	1350	1370	1370	1370	1370
Sioux	1920	1950	1950	1990	1990	2050	2050	2070	2090	2100	2100	2130	2130	2140	2150	2200	2200	2200	2200
Story	1090	1110	1110	1130	1130	1160	1160	1180	1210	1230	1240	1250	1250	1260	1280	1340	1360	1360	1360
Tama	1330	1360	1360	1390	1390	1430	1430	1450	1480	1480	1490	1530	1550	1560	1600	1630	1660	1700	1740
Taylor	730	750	750	760	770	780	780	800	820	850	880	900	940	950	960	970	980	1010	1030
Union	660	670	670	680	690	700	700	720	730	740	770	780	780	790	860	870	900	900	900
Van Buren	750	760	760	780	780	800	800	820	840	850	880	900	910	930	970	990	1040	1080	1110
Wapello	850	870	870	880	890	910	910	930	950	950	960	970	1020	1020	1040	1040	1090	1240	1380
Warren	1220	1240	1240	1270	1290	1320	1320	1340	1360	1370	1390	1410	1410	1420	1470	1480	1530	1530	1530
Washington	1100	1120	1120	1150	1160	1180	1180	1210	1230	1230	1240	1260	1260	1280	1340	1350	1420	1420	1420
Wayne	710	730	730	740	740	760	760	780	790	800	820	830	840	840	910	920	950	950	950
Webster	1170	1190	1190	1220	1220	1250	1250	1260	1280	1310	1350	1370	1370	1380	1390	1420	1430	1430	1430
Winnebago	720	730	730	740	740	760	760	770	790	810	840	860	870	880	910	930	930	930	960
Winneshiak	1550	1580	1580	1620	1650	1660	1660	1690	1700	1700	1710	1750	1780	1790	1820	1850	1870	1930	2010
Woodbury	1290	1320	1320	1350	1370	1370	1370	1400	1450	1500	1580	1600	1630	1630	1640	1660	1700	1780	1930
Worth	640	650	650	660	680	680	680	690	730	760	800	810	830	840	860	870	870	880	910
Wright	840	860	860	880	890	900	900	920	940	970	1010	1020	1030	1040	1070	1090	1100	1150	1210
State of Iowa	100000	102000	102000	104000	105000	107000	107000	109000	111000	113000	115000	117000	118000	119000	121000	123000	125000	127000	130000

Table 2. Estimated Average Size (in Acres) of Farms in Iowa Counties, 1975-1993.

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	385	378	378	370	370	363	363	353	346	343	340	331	331	329	323	317	314	313	309
Adams	405	394	394	389	389	378	378	368	368	363	364	354	354	355	350	341	337	338	340
Allamakee	362	357	359	352	343	343	343	337	334	334	332	326	318	319	313	311	306	295	279
Appanoose	345	337	337	330	330	322	322	325	325	322	323	312	302	294	294	291	280	270	258
Audubon	343	335	334	326	323	319	319	315	312	308	306	303	296	291	285	279	276	277	266
Benton	314	308	309	302	298	294	294	292	286	277	276	274	274	273	270	265	265	266	267
Black Hawk	250	247	247	243	241	236	236	234	232	232	231	226	226	225	222	220	213	205	201
Boone	343	337	335	328	328	319	319	321	312	304	297	289	287	285	280	272	265	260	256
Bremer	236	231	232	228	226	222	222	219	215	210	204	201	201	201	200	188	188	186	178
Buchanan	271	268	268	262	260	254	254	251	249	249	248	244	238	234	230	230	222	215	210
Buena Vista	333	331	331	328	328	314	314	306	301	298	297	292	285	283	283	276	276	273	275
Butler	286	279	280	273	269	267	267	263	256	249	243	238	235	235	234	234	229	224	224
Calhoun	372	365	365	358	354	347	347	338	326	317	302	299	299	300	297	290	290	291	286
Carroll	277	274	274	272	272	260	260	256	253	253	252	248	248	249	247	247	247	248	248
Cass	388	381	381	373	373	365	365	354	347	330	322	316	316	315	306	304	301	302	304
Cedar	312	308	308	300	300	293	293	289	284	275	268	265	265	264	260	253	253	254	252
Cerro Gordo	374	366	369	362	358	354	354	349	338	332	326	323	323	321	315	304	304	305	304
Cherokee	341	335	335	326	326	320	320	312	304	294	293	293	293	291	289	284	284	285	287
Chickasaw	304	298	296	291	285	283	283	277	275	270	262	255	255	256	254	252	252	244	229
Clarke	393	388	388	382	377	372	372	362	357	352	344	340	340	336	328	324	313	314	316
Clay	413	405	406	397	392	388	388	380	364	346	330	327	327	325	322	316	316	317	319
Clayton	291	289	289	280	275	274	274	272	272	272	271	267	258	256	253	253	243	236	224
Clinton	298	292	292	286	282	278	278	275	269	264	263	258	253	251	251	248	248	246	236
Crawford	345	338	338	333	328	323	323	317	306	298	295	289	286	287	285	281	266	267	267
Dallas	332	326	329	323	320	314	314	311	303	295	289	284	284	285	283	274	274	275	272
Davis	350	343	349	345	341	334	334	330	330	330	328	321	315	313	300	300	287	268	252
Decatur	477	465	464	458	452	445	445	433	428	428	423	418	413	414	404	399	385	373	363
Delaware	254	250	251	246	244	239	239	239	239	239	238	233	233	234	232	229	225	219	208
Des Moines	301	298	299	291	291	284	284	277	273	273	271	264	264	262	247	247	236	237	238
Dickinson	387	383	387	381	375	368	368	366	354	354	350	339	334	331	326	326	326	322	324
Dubuque	220	217	218	214	210	207	207	206	206	206	206	202	202	203	201	201	197	190	188
Emmet	412	406	407	401	394	388	388	382	370	354	340	336	326	327	323	319	319	316	317
Fayette	306	300	300	294	292	286	286	281	277	272	271	267	260	257	251	249	236	226	217

*Preliminary estimates

Table 2. Estimated Average Size (in Acres) of Farms in Iowa Counties, 1975-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	321	315	315	309	306	300	300	295	289	284	279	274	272	273	270	268	261	255	250
Franklin	371	364	365	357	350	347	347	341	332	320	310	304	304	303	298	286	286	287	277
Fremont	456	444	445	439	439	427	427	417	417	412	413	402	402	398	393	379	375	376	378
Greene	388	380	381	377	373	365	365	354	344	338	335	332	332	327	324	315	315	316	318
Grundy	318	313	313	307	307	298	298	295	287	282	280	273	270	269	267	256	250	250	250
Guthrie	394	390	391	379	371	371	371	361	347	337	329	326	326	327	324	316	311	309	289
Hamilton	361	354	354	347	344	337	337	331	325	316	306	301	296	291	284	273	273	272	268
Hancock	348	342	342	336	333	326	326	321	313	304	300	295	290	289	286	275	275	270	261
Hardin	342	336	338	330	327	321	321	316	310	299	290	285	285	284	279	273	271	272	273
Harrison	428	421	422	414	402	402	402	394	379	366	358	352	349	345	342	334	326	325	315
Henry	306	300	301	298	294	288	288	282	276	276	274	268	268	267	251	247	236	236	238
Howard	322	316	313	310	304	300	300	294	291	286	276	270	270	271	269	261	261	251	240
Humboldt	375	371	371	366	366	347	347	343	334	326	319	312	312	309	309	299	299	300	295
Ida	356	353	353	344	339	335	335	327	320	312	309	302	302	300	300	293	290	291	284
Iowa	354	348	350	343	337	334	334	328	322	320	318	309	307	305	303	300	300	299	286
Jackson	291	285	287	282	278	274	274	271	271	271	269	264	260	261	259	259	259	255	245
Jasper	310	304	309	307	305	296	296	293	287	283	279	274	274	273	271	263	262	262	264
Jefferson	349	347	350	341	336	332	332	325	317	306	297	290	287	285	265	262	250	239	233
Johnson	248	244	248	244	241	237	237	240	235	228	226	223	223	222	221	218	218	218	220
Jones	312	308	308	300	298	293	293	288	284	275	269	265	257	258	258	256	256	250	241
Keokuk	360	355	356	349	346	339	339	333	324	313	300	295	295	294	276	274	260	261	262
Kossuth	364	358	359	352	350	342	342	337	330	323	320	315	314	311	307	297	297	294	286
Lee	311	306	307	301	298	292	292	286	281	281	279	274	274	275	262	260	247	238	228
Linn	238	235	238	233	232	226	226	224	221	218	217	215	215	214	213	211	211	211	211
Louisa	384	379	380	368	363	363	363	359	348	343	334	330	330	326	301	297	283	284	285
Lucas	379	372	375	369	369	359	359	355	350	345	333	324	320	306	302	302	292	280	273
Lyon	307	302	302	295	293	288	288	282	275	267	262	258	257	257	256	256	256	255	256
Madison	344	338	337	331	328	322	322	313	310	307	303	295	290	280	277	275	265	258	254
Mahaska	308	301	302	299	297	289	289	288	283	281	279	275	273	274	259	258	245	241	234
Marion	281	277	279	271	271	264	264	262	259	255	252	248	248	247	230	227	219	219	221
Marshall	333	329	331	325	322	316	316	310	305	297	290	283	281	282	279	279	277	271	265
Mills	434	428	431	418	411	411	411	399	399	393	394	388	383	363	358	340	336	337	339
Mitchell	319	312	313	306	306	300	300	295	292	289	287	284	284	282	277	274	266	265	257

Table 2. Estimated Average Size (in Acres) of Farms in Iowa Counties, 1975-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	516	505	504	492	481	481	481	479	463	458	454	445	436	424	424	404	404	405	396
Monroe	376	366	367	362	362	352	352	352	352	352	349	344	340	328	320	320	309	296	288
Montgomery	392	381	383	377	377	367	367	357	352	343	344	335	335	332	332	332	328	321	315
Muscatine	289	283	284	281	275	272	272	269	266	258	251	249	249	245	242	240	240	241	242
O'Brien	301	296	296	294	294	280	280	273	267	265	264	260	260	261	259	257	257	258	259
Osceola	350	341	341	336	332	327	327	320	312	301	294	291	291	292	288	288	288	286	288
Page	340	337	337	334	334	318	318	316	316	313	314	308	308	306	303	285	283	283	285
Palo Alto	390	382	383	379	371	367	367	356	349	345	343	336	333	328	328	319	219	317	319
Plymouth	321	314	315	306	306	301	301	295	292	286	285	282	281	280	278	276	276	274	275
Pocahontas	376	365	365	358	354	351	351	342	332	323	321	315	313	308	306	303	303	301	303
Polk	256	254	261	255	250	248	248	250	245	241	237	233	229	229	227	227	224	212	197
Pottawattamie	356	353	354	346	343	335	335	331	325	316	311	305	297	298	298	298	294	289	285
Poweshiek	359	353	353	347	340	337	337	331	325	316	315	306	304	302	300	295	288	284	279
Ringgold	510	495	496	489	482	475	475	463	456	450	440	423	418	414	395	390	377	374	368
Sac	356	349	350	347	347	333	333	326	317	311	310	307	307	308	308	300	300	301	291
Scott	252	250	253	248	243	240	240	237	232	225	220	216	216	215	213	205	205	206	207
Shelby	325	320	320	312	309	304	304	297	288	281	278	274	274	274	272	268	268	269	271
Sioux	243	240	240	235	235	228	228	226	224	223	224	220	220	220	219	214	214	215	216
Story	302	297	299	294	294	286	286	283	276	271	270	268	268	266	262	251	247	248	249
Tama	322	321	322	315	315	306	306	302	296	296	295	287	283	282	275	270	265	260	255
Taylor	455	443	444	438	432	427	427	417	406	392	380	371	356	353	349	346	342	333	328
Union	390	386	388	382	376	371	371	361	356	351	338	334	334	331	304	300	290	291	293
Van Buren	389	386	389	379	379	370	370	362	353	349	338	330	327	321	308	301	287	277	271
Wapello	290	285	287	283	280	274	274	268	263	263	261	258	245	246	241	241	230	203	184
Warren	270	267	267	261	257	251	251	249	246	244	241	238	238	237	229	227	220	220	222
Washington	310	305	306	298	296	291	291	284	280	280	278	274	274	270	258	256	244	245	246
Wayne	454	442	442	436	436	425	425	415	410	405	396	391	387	388	358	354	343	334	346
Webster	359	354	355	347	347	338	338	336	331	324	315	310	310	309	307	300	298	299	301
Winnebago	334	330	331	326	326	318	318	316	308	300	291	284	280	278	269	263	263	264	257
Winneshiek	269	265	285	259	254	253	253	248	247	247	246	240	236	236	232	228	226	219	212
Woodbury	391	385	386	378	372	372	372	364	352	340	324	320	314	315	313	309	302	289	268
Worth	376	371	372	367	356	356	356	352	333	319	304	301	293	291	284	281	281	278	271
Wright	422	413	413	404	399	395	395	387	379	367	353	350	347	344	334	328	325	312	298
State of Iowa	333	327	328	322	319	313	313	308	303	297	293	288	286	284	279	275	270	267	262

Table 3. Percentage Change in Number and Size (in Acres) of Farms in Iowa Counties, 1975-1993.

County	Farms					Acres				
	1990-1993	1975-1990	1985-1990	1980-1985	1975-1980	1990-1993	1975-1990	1985-1990	1980-1985	1975-1980
Adair	-4.2	-17.9	-6.8	-5.5	-6.8	4.1	19.7	6.9	5.2	6.5
Adams	-4.4	-13.9	-5.6	-4.0	-5.1	4.1	14.4	5.7	3.7	4.4
Allamakee	-3.8	-22.1	-2.7	-5.1	-13.2	2.8	26.2	2.7	4.7	14.3
Appanoose	-4.6	-23.7	-2.2	-10.1	-13.2	4.5	27.9	1.5	10.5	14.0
Audubon	-4.7	-19.8	-3.4	-7.3	-9.4	5.2	22.6	3.5	7.2	9.4
Benton	-4.2	-13.3	-4.6	-5.0	-3.0	4.0	13.1	4.2	4.8	2.2
Black Hawk	-3.2	-19.2	-4.5	-3.6	-11.5	2.9	20.9	3.9	3.1	11.9
Boone	-4.0	-24.6	-6.5	-9.2	-11.2	4.6	28.1	5.1	9.5	11.3
Bremer	-4.4	-23.0	-5.0	-6.9	-12.2	3.5	28.1	5.1	7.0	12.9
Buchanan	-3.8	-21.0	-4.3	-6.7	-10.8	3.4	24.8	4.4	6.4	11.4
Buena Vista	-1.9	-17.7	-8.6	-6.4	-3.8	1.5	19.3	9.0	6.4	2.9
Butler	-4.7	-19.4	-5.1	-8.6	-5.6	4.8	21.9	5.1	8.9	4.9
Calhoun	-4.1	-21.6	-8.3	-8.5	-5.6	3.9	25.2	8.6	8.7	4.9
Carroll	-2.3	-10.4	-7.2	-2.1	-1.4	1.8	9.7	7.5	1.6	0.4
Cass	-4.3	-19.8	-7.0	-9.9	-4.3	4.0	22.7	7.5	10.2	3.6
Cedar	-4.3	-17.6	-5.6	-7.5	-5.6	4.0	19.0	5.6	7.6	4.8
Cerro Gordo	-4.3	-17.7	-6.0	-5.7	-6.2	3.3	19.1	5.9	5.3	5.6
Cherokee	-4.6	-13.5	-6.8	-4.9	-2.4	4.6	13.6	7.2	4.5	1.4
Chickasaw	-3.8	-22.2	-3.6	-7.5	-11.1	4.5	27.1	3.6	7.4	11.8
Clarke	-2.9	-18.8	-5.4	-6.3	-7.1	2.9	20.9	5.6	6.2	6.3
Clay	-4.6	-20.9	-7.4	-11.2	-2.7	4.0	24.5	7.7	12.0	1.9
Clayton	-4.2	-21.3	-1.2	-6.6	-13.3	3.9	25.0	1.1	6.2	14.3
Clinton	-4.2	-18.8	-4.6	-7.3	-6.8	4.2	21.2	4.8	7.2	6.4
Crawford	-3.8	-21.3	-6.9	-7.0	-7.7	3.6	24.7	7.2	6.6	7.5
Dallas	-3.7	-17.1	-5.3	-6.6	-5.4	2.8	18.8	5.6	6.3	4.8
Davis	-3.3	-27.2	-2.1	-6.0	-20.0	1.4	36.9	3.3	5.4	24.2
Decatur	-4.2	-22.0	-5.3	-3.8	-13.2	4.1	26.2	5.6	3.4	14.0
Delaware	-4.2	-16.5	-2.0	-2.7	-11.8	3.3	18.3	2.1	2.1	12.5
Des Moines	-4.0	-19.4	-6.2	-4.8	-9.7	3.4	22.3	6.6	4.2	10.1
Dickinson	-3.4	-16.9	-6.2	-7.2	-2.8	1.6	17.6	5.9	7.0	2.2
Dubuque	-3.7	-13.3	-1.8	-2.3	-8.0	2.8	13.8	1.9	1.5	8.0
Emmet	-3.3	-22.1	-6.2	-12.2	-3.9	2.7	26.5	6.5	13.2	3.2
Fayette	-4.0	-27.2	-5.0	-8.1	-16.0	4.1	35.5	5.4	7.8	18.4
Floyd	-4.1	-20.3	-5.7	-6.2	-8.9	3.9	23.6	5.9	5.9	9.2
Franklin	-4.0	-23.7	-5.6	-9.2	-9.2	3.9	28.9	5.4	9.6	9.4
Fremont	-4.2	-15.5	-5.3	-5.1	-6.0	3.9	16.1	5.3	4.8	5.3
Greene	-3.2	-16.8	-7.8	-5.5	-3.5	2.9	18.6	8.4	5.2	2.8
Grundy	-3.9	-19.7	-6.4	-6.8	-7.9	3.6	22.8	7.0	6.7	7.6
Guthrie	-4.2	-25.0	-6.7	-6.2	-12.5	4.0	31.1	6.9	6.1	13.2
Hamilton	-4.0	-24.1	-5.6	-10.7	-9.0	4.0	29.5	5.8	11.7	8.6
Hancock	-3.8	-23.5	-6.2	-8.2	-10.3	3.6	28.7	6.4	8.3	10.7
Hardin	-3.8	-18.6	-5.4	-8.9	-4.6	3.6	20.9	5.5	9.2	4.0
Harrison	-3.9	-25.5	-6.2	-9.7	-9.5	3.4	31.4	6.1	9.9	9.5
Henry	-3.4	-21.4	-6.3	-4.0	-11.6	2.7	25.2	6.5	3.4	12.2
Howard	-3.2	-23.8	-4.0	-7.5	-12.3	3.9	29.2	4.5	7.4	12.9
Humboldt	-2.7	-20.7	-8.8	-8.0	-5.4	2.5	24.1	9.6	8.1	4.8
Ida	-3.8	-18.8	-6.0	-6.7	-6.2	3.5	21.1	5.9	6.7	5.6
Iowa	-3.8	-18.0	-4.5	-5.9	-7.0	3.2	19.9	4.7	5.6	6.6
Jackson	-3.7	-14.6	-2.9	-4.1	-7.0	3.2	15.1	2.6	3.8	6.5
Jasper	-2.8	-15.4	-5.9	-5.6	-4.1	1.0	16.3	6.3	5.1	3.4

Table 3. Percentage Change in Number and Size (in Acres) of Farms in Iowa Counties, 1975-1993 (continued).

County	Farms					Acres				
	1990-	1975-	1985-	1980-	1975-	1990-	1975-	1985-	1980-	1975-
	1993	1990	1990	1985	1980	1993	1990	1990	1985	1980
Jefferson	-3.9	-33.0	-6.0	-10.8	-19.1	2.3	46.4	6.0	11.2	22.3
Johnson	-3.7	-13.5	-4.9	-5.9	-1.9	1.6	10.9	2.6	5.9	0.9
Jones	-4.3	-21.1	-4.9	-9.6	-7.5	4.0	24.5	4.9	10.1	7.0
Keokuk	-3.9	-26.1	-6.4	-9.8	-11.6	3.2	33.2	6.8	10.2	12.2
Kossuth	-3.5	-20.2	-6.0	-6.2	-8.9	3.4	23.1	6.1	6.1	8.7
Lee	-4.1	-25.2	-5.7	-2.8	-17.6	3.3	32.0	6.0	2.2	20.6
Linn	-3.6	-11.2	-5.1	-3.8	-2.1	2.1	10.4	5.0	3.3	1.4
Louisa	-4.8	-24.1	-4.5	-6.9	-13.2	4.3	29.1	4.3	6.8	14.4
Lucas	-1.5	-28.4	-6.8	-13.1	-11.6	2.7	35.2	5.4	14.4	12.1
Lyon	-4.1	-14.6	-6.1	-7.0	-1.4	4.1	15.2	6.6	7.0	0.4
Madison	-3.8	-24.5	-5.4	-10.4	-10.1	3.9	30.3	5.8	10.7	10.2
Mahaska	-3.4	-23.7	-5.6	-3.9	-15.1	3.0	27.8	5.0	3.3	17.1
Marion	-4.5	-21.1	-5.9	-5.6	-11.3	3.7	22.6	4.6	4.9	11.8
Marshall	-3.8	-19.7	-5.3	-8.1	-6.8	2.5	22.6	5.6	8.2	6.4
Mills	-4.7	-20.0	-3.0	-9.5	-7.5	3.8	23.3	3.0	9.9	7.1
Mitchell	-4.3	-17.5	-5.0	-3.9	-9.6	4.2	19.1	4.8	3.6	9.7
Monona	-4.7	-21.3	-4.4	-9.0	-7.4	4.9	24.2	3.9	9.2	7.1
Monroe	-4.1	-21.5	-2.7	-7.4	-12.9	3.9	25.7	2.8	7.3	13.9
Montgomery	-4.3	-17.9	-6.8	-6.3	-6.0	4.0	19.7	7.1	6.0	5.4
Muscatine	-3.4	-15.2	-3.2	-8.7	-1.9	2.8	16.1	3.4	8.6	1.2
O'Brien	-2.5	-13.0	-9.1	-2.9	-1.4	2.4	13.5	10.1	2.3	0.8
Osceola	-4.1	-16.1	-6.3	-7.1	-2.3	4.2	16.7	6.4	6.8	1.4
Page	-2.0	-16.2	-5.8	-3.7	-7.7	1.8	17.2	5.7	3.3	7.4
Palo Alto	-3.3	-17.1	-6.0	-6.5	-3.6	2.9	18.8	6.3	6.4	2.8
Plymouth	-5.2	-11.7	-4.9	-4.7	-2.5	4.9	11.3	4.8	4.3	1.8
Pocahontas	-5.1	-16.8	-6.5	-7.8	-2.5	5.0	18.2	6.6	7.8	1.6
Polk	-4.0	-26.1	-4.7	-7.0	-14.9	0.4	29.4	2.0	7.0	16.2
Pottawattamie	-3.7	-19.0	-5.9	-9.0	-5.0	2.9	21.4	5.5	9.1	4.6
Poweshiek	-3.9	-20.8	-4.6	-7.6	-8.5	3.5	24.4	4.6	7.6	8.2
Ringgold	-4.3	-25.8	-5.4	-9.8	-11.8	4.3	32.9	5.7	10.1	12.5
Sac	-2.9	-17.7	-8.9	-3.4	-6.4	2.6	19.2	9.5	2.9	5.8
Scott	-3.1	-17.9	-4.8	-8.0	-4.3	1.6	19.8	4.7	7.9	3.9
Shelby	-4.3	-14.6	-7.1	-5.2	-2.2	4.2	15.1	7.3	5.1	1.1
Sioux	-3.5	-9.5	-4.8	-2.3	-2.7	3.4	8.8	4.9	1.8	1.8
Story	-3.5	-16.9	-6.6	-4.0	-7.4	2.7	18.1	6.5	3.8	6.8
Tama	-4.3	-20.1	-6.1	-5.1	-10.3	2.2	23.5	6.4	5.0	10.6
Taylor	-3.9	-26.2	-6.1	-13.7	-7.8	3.9	33.5	6.4	15.0	7.6
Union	-2.9	-24.4	-5.5	-7.6	-12.2	2.1	30.4	5.6	7.6	13.0
Van Buren	-3.8	-29.7	-7.1	-9.7	-16.2	2.6	39.9	7.4	10.0	18.4
Wapello	-3.4	-36.2	-6.3	-6.9	-26.1	2.5	53.8	6.5	6.9	33.7
Warren	-3.9	-17.0	-5.2	-4.2	-7.2	3.4	17.6	4.5	3.8	6.8
Washington	-4.3	-19.0	-5.7	-3.9	-9.9	4.0	21.1	5.7	3.7	9.8
Wayne	-4.1	-22.1	-6.3	-6.0	-11.6	4.1	26.0	6.3	5.7	12.1
Webster	-4.1	-14.7	-4.7	-7.2	-3.5	3.5	15.3	4.8	7.1	2.7
Winnebago	-2.7	-22.9	-6.3	-10.2	-8.3	2.5	26.8	5.8	10.8	8.2
Winneshiek	-4.3	-19.4	-2.9	-5.0	-11.0	3.9	22.2	2.8	4.7	11.3
Woodbury	-4.4	-30.1	-5.5	-11.0	-15.5	3.4	41.0	5.7	11.8	17.5
Worth	-3.0	-27.5	-6.8	-13.1	-7.7	2.5	35.4	6.9	14.4	7.4
Wright	-4.5	-27.3	-5.3	-9.6	-14.0	4.5	35.6	5.3	10.2	15.4
State of Iowa	-3.8	-20.0	-5.3	-6.8	-8.5	3.4	22.9	5.3	6.7	8.4

Change in Size of Farms

As the number of farms has declined, the average size has increased (Table 2). This occurred in all counties from 1975 to 1993. Only five counties gained fewer than 40 acres, while 36 counties added at least 80 acres to the average size between 1975 and 1993. On a short-term basis, of course, changes tend to be small. From 1990 to 1993, for example, 41 counties gained 10 or fewer acres in average size.

Average farm size increased by 22.9 percent from 1975 to 1990 (Table 3). Only two counties (Carroll, Sioux) reported increases less than 10 percent. Three had increases of at least 40 percent (Jefferson, +46.4%; Wapello, +53.8%; Woodbury, +41.0%); 14 others had averages at least 30 percent higher in 1990 than in 1975. Much of the gain in Jefferson and Wapello occurred from 1975 to 1980; Davis and Lee counties also had substantial increases those years. Percentage gains for 47 counties were highest in the late 1970s.

Figure 1. Number of farms in Iowa, 1975-1993.

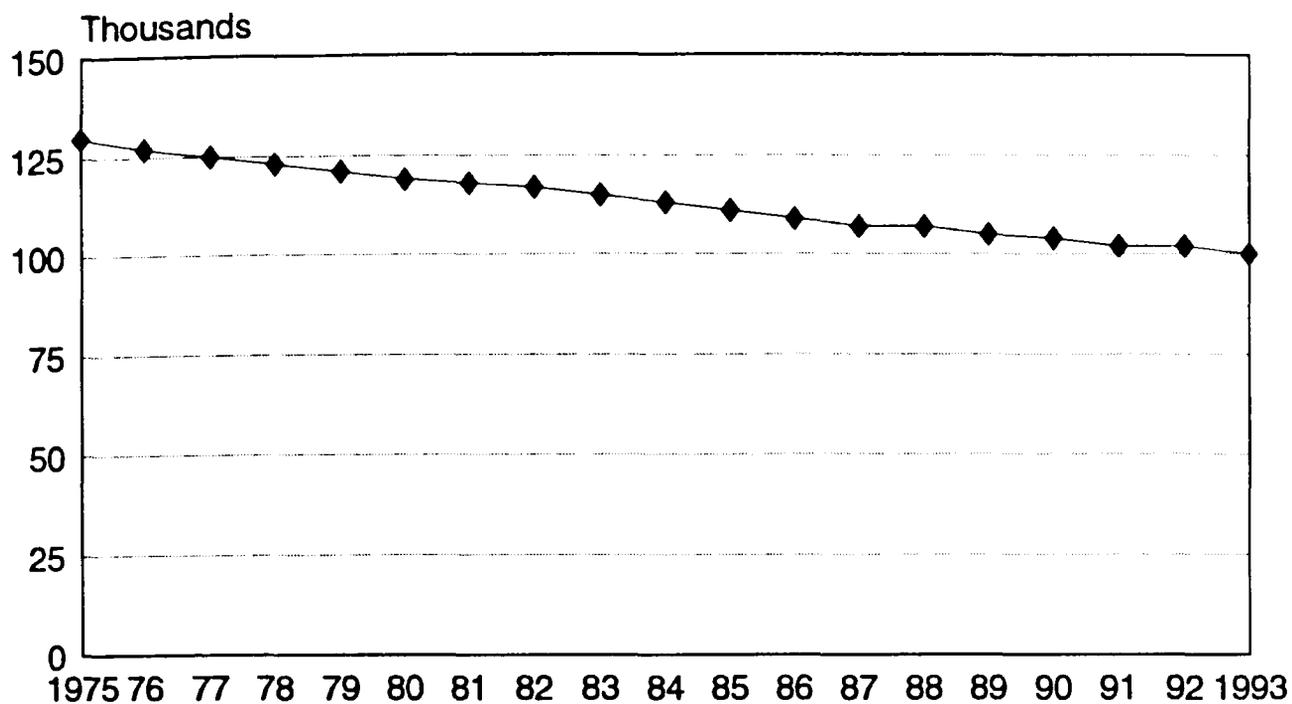
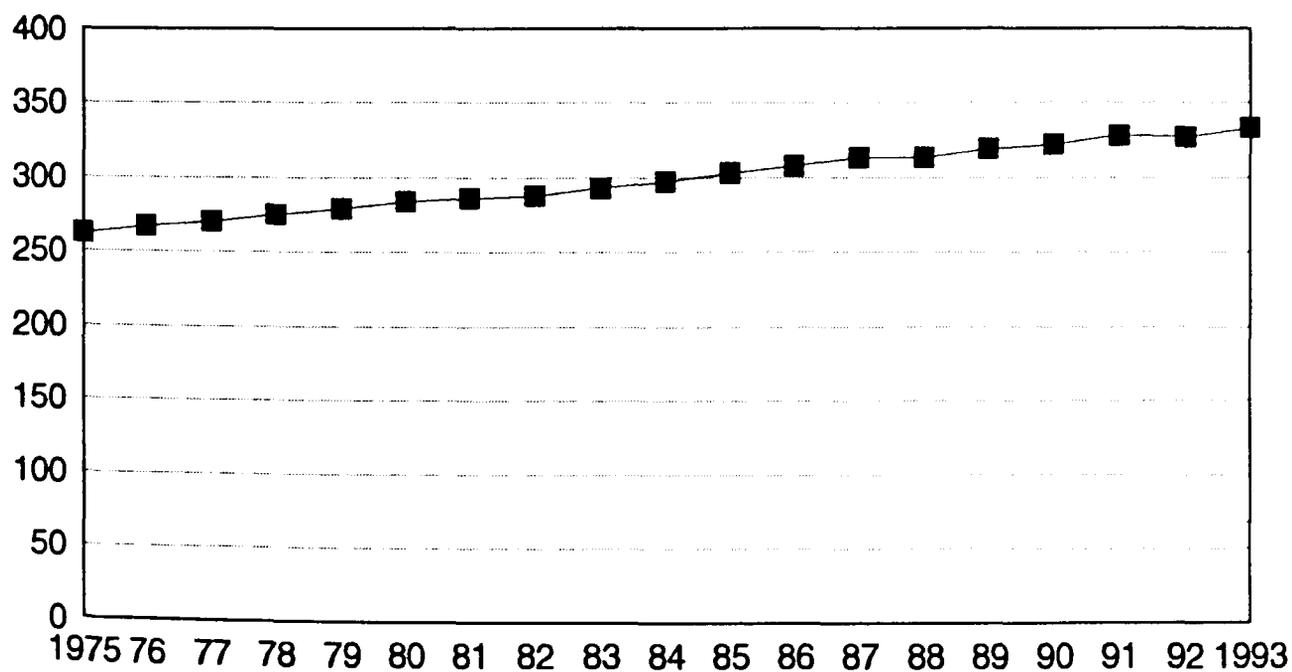


Figure 2. Average size (in acres) of farms in Iowa, 1975-1993.



Value of Farm Land in Iowa's Counties: 1950-1993

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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 the 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 has increased steadily again to an average value of \$1,295 in 1993 (Figure 1).

The value of an acre of farm land varies considerably across Iowa. In 1993, for example, the value was less than \$600 in Appanoose and Decatur. Twenty additional counties had values below \$1,000 per acre; they were clustered in southern Iowa (Figure 2). In contrast, 30 counties averaged \$1,500 or more; seven of these were above \$1,700, with Scott (\$2,017) the only one greater than \$1,900. 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 in the most recent decade (-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.

Data comparing 1980 with 1990 mask a reversal in the trend of farm land values, however. From 1981 to 1986, average values declined steadily; they increased from 1986 to 1993. In the first period, declines reached 63.3 percent for the state (Table 3). 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.

Farm land values escalated again from 1986 through 1993; the average acre in Iowa gained 64.5 percent in value. Although the losses from 1981 through 1986 had a relatively small range (-60.1%

Table 1. Value (in \$ per acre) of Farm Land in Iowa Counties, 1950-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Adair	807	775	753	734	674	619	557	507	606	833	1035	1176	1367	1335	308	168	152
Adams	832	800	781	769	715	667	578	519	612	835	1047	1156	1372	1312	291	170	159
Allamakee	732	749	735	770	697	611	532	483	592	856	1062	1143	1300	1227	233	145	115
Appanoose	560	556	526	502	455	423	373	351	421	581	747	891	1007	906	206	108	97
Audubon	1275	1255	1222	1217	1149	1072	850	751	851	1164	1525	1608	1965	1937	394	249	227
Benton	1464	1450	1416	1415	1316	1199	1004	915	1121	1649	1988	2101	2479	2404	506	323	268
Black Hawk	1586	1532	1501	1515	1420	1330	1095	1010	1258	1867	2280	2432	2918	2812	553	347	257
Boone	1590	1577	1540	1553	1435	1340	1094	987	1174	1762	2159	2272	2685	2592	545	341	283
Bremer	1358	1322	1298	1324	1235	1108	931	861	1082	1588	1934	2078	2463	2259	420	267	193
Buchanan	1382	1342	1317	1336	1248	1132	953	883	1112	1629	1949	2091	2479	2269	419	255	190
Buena Vista	1695	1675	1648	1649	1576	1470	1129	974	1099	1590	2202	2257	2773	2738	522	355	311
Butler	1447	1393	1371	1385	1309	1239	1013	921	1143	1696	2083	2217	2680	2566	478	304	231
Calhoun	1724	1707	1672	1682	1572	1414	1132	1006	1179	1752	2266	2366	2833	2805	568	365	309
Carroll	1571	1567	1529	1523	1439	1320	1014	891	994	1415	1962	2014	2450	2425	473	314	288
Cass	1081	1040	1017	1006	939	873	748	668	782	1066	1341	1463	1751	1731	379	221	206
Cedar	1645	1595	1560	1504	1418	1289	1184	1105	1443	2010	2273	2425	2792	2612	565	365	281
Cerro Gordo	1503	1438	1421	1437	1372	1307	1063	957	1192	1764	2203	2342	2857	2735	503	312	230
Cherokee	1451	1445	1409	1402	1329	1243	950	832	922	1290	1813	1862	2280	2309	452	295	260
Chickasaw	1106	1079	1060	1082	1008	920	774	715	898	1317	1605	1725	2042	1876	341	207	159
Clarke	656	644	614	591	538	482	429	399	478	659	831	977	1114	1059	257	143	123
Clay	1564	1546	1521	1521	1454	1348	1035	893	1007	1456	2002	2051	2519	2478	464	307	260
Clayton	928	949	932	976	884	765	666	604	741	1072	1355	1458	1659	1583	328	216	169
Clinton	1315	1292	1270	1246	1162	1073	985	918	1193	1673	1909	2050	2331	2163	428	265	204
Crawford	1309	1299	1265	1260	1194	1124	868	763	852	1176	1601	1663	2041	2027	396	259	242
Dallas	1296	1278	1248	1253	1161	1041	854	768	909	1332	1658	1757	2087	2061	429	266	236
Davis	694	680	648	627	579	544	475	440	536	746	917	1035	1202	1100	242	138	121
Decatur	540	536	507	485	439	392	347	326	391	540	684	817	922	837	197	113	99
Delaware	1417	1421	1395	1432	1314	1194	1043	957	1195	1722	2077	2234	2565	2347	445	265	195
Des Moines	1252	1219	1167	1137	1064	985	854	781	964	1349	1634	1763	2095	2007	445	257	197
Dickinson	1434	1434	1400	1392	1319	1202	908	793	869	1236	1795	1823	2225	2139	396	256	230
Dubuque	1251	1272	1250	1298	1180	1054	924	841	1040	1498	1867	2008	2285	2175	406	245	181
Emmet	1612	1593	1567	1568	1499	1387	1065	919	1037	1500	2026	2076	2551	2486	454	294	246
Fayette	1235	1232	1209	1250	1149	1046	895	820	1018	1483	1845	1984	2304	2133	391	231	168

Table 1. Value (in \$ per acre) of Farm Land in Iowa Counties, 1950-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Floyd	1311	1250	1227	1238	1169	1119	924	862	1096	1618	1949	2093	2527	2387	351	278	202
Franklin	1583	1522	1512	1532	1473	1389	1113	965	1167	1736	2198	2308	2837	2788	502	318	251
Fremont	1076	1019	1000	983	909	839	760	683	816	1118	1370	1522	1793	1835	407	233	216
Greene	1502	1492	1456	1462	1362	1244	995	890	1037	1526	1987	2077	2479	2444	514	324	279
Grundy	1660	1628	1592	1606	1493	1403	1149	1047	1272	1899	2339	2477	2947	2833	562	346	270
Guthrie	1130	1112	1084	1084	1017	939	754	671	775	1084	1373	1455	1763	1738	354	217	197
Hamilton	1758	1727	1699	1717	1614	1498	1211	1068	1272	1904	2388	2505	3013	2900	566	351	295
Hancock	1571	1508	1499	1519	1464	1375	1105	962	1173	1740	2209	2326	2865	2778	504	315	242
Hardin	1616	1587	1562	1578	1484	1395	1127	994	1184	1772	2199	2306	2775	2688	512	320	265
Harrison	1090	1060	1033	1026	964	882	728	647	748	1016	1298	1399	1694	1657	350	212	202
Henry	1208	1176	1126	1098	1027	932	808	738	911	1276	1518	1638	1947	1830	410	254	205
Howard	976	952	935	955	889	803	676	625	784	1150	1412	1517	1796	1645	305	191	149
Humboldt	1709	1662	1648	1669	1595	1510	1208	1042	1243	1855	2399	2509	3069	3048	582	364	297
Ida	1456	1443	1405	1401	1327	1247	965	848	949	1307	1770	1842	2262	2278	462	294	260
Iowa	1258	1230	1189	1179	1103	1013	855	773	947	1364	1609	1684	2018	1953	430	283	242
Jackson	1107	1107	1088	1099	1012	940	843	776	983	1398	1670	1795	2041	1912	369	222	168
Jasper	1319	1288	1242	1225	1146	1078	916	831	1021	1458	1720	1816	2171	2060	447	285	242
Jefferson	927	903	864	842	789	700	606	554	684	958	1107	1195	1420	1303	288	177	154
Johnson	1544	1496	1449	1409	1329	1228	1089	1000	1275	1783	2039	2148	2539	2365	510	324	260
Jones	1224	1206	1185	1170	1088	980	895	832	1076	1513	1732	1860	2116	1985	395	253	200
Keokuk	1168	1131	1087	1065	1005	885	763	691	861	1210	1380	1438	1740	1611	360	241	211
Kossuth	1650	1594	1590	1612	1563	1447	1143	966	1146	1700	2206	2296	2852	2804	499	322	262
Lee	1036	1016	968	936	865	814	711	657	802	1116	1396	1577	1831	1740	391	223	177
Linn	1579	1537	1506	1465	1375	1254	1135	1056	1367	1923	2203	2351	2710	2492	510	323	261
Louisa	1447	1402	1358	1320	1246	1108	984	904	1153	1612	1842	1942	2293	2108	445	270	218
Lucas	612	607	574	549	497	459	406	382	457	632	787	939	1061	980	229	126	110
Lyon	1437	1437	1403	1395	1322	1235	933	814	892	1270	1869	1897	2316	2325	447	296	265
Madison	983	946	921	905	834	718	637	577	689	960	1193	1333	1559	1482	327	181	167
Mahaska	1153	1122	1075	1047	979	859	745	681	841	1177	1401	1512	1797	1689	386	240	205
Marion	1058	1039	989	955	881	808	706	654	797	1108	1363	1545	1790	1695	390	224	186
Marshall	1410	1388	1349	1349	1254	1170	971	877	1059	1557	1865	1957	2329	2232	473	303	260
Mills	1091	1033	1014	997	922	862	781	702	838	1148	1438	1598	1881	1884	418	234	220
Mitchell	1250	1191	1169	1180	1114	1057	888	829	1054	1555	1889	2028	2449	2319	426	265	191

Table 1. Value (in \$ per acre) of Farm Land in Iowa Counties, 1950-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Monona	1065	1050	1020	1019	965	912	715	632	715	966	1233	1302	1605	1560	320	198	186
Monroe	715	701	668	647	599	530	462	427	522	727	879	982	1146	1062	240	146	130
Montgomery	993	940	922	907	838	789	716	643	768	1052	1318	1464	1724	1751	411	232	221
Muscatine	1498	1452	1417	1369	1290	1169	1065	990	1287	1793	2052	2183	2528	2311	493	307	244
O'Brien	1807	1808	1766	1755	1663	1555	1175	1026	1124	1599	2310	2345	2863	2810	523	346	302
Osceola	1578	1579	1542	1532	1452	1357	1025	895	981	1396	2011	2042	2493	2475	464	302	263
Page	887	840	824	811	749	706	640	575	687	941	1220	1355	1595	1626	392	226	216
Palo Alto	1540	1503	1490	1501	1446	1333	1040	887	1029	1510	1968	2033	2514	2511	465	303	249
Plymouth	1415	1404	1367	1362	1290	1224	947	833	932	1283	1736	1806	2218	2254	459	288	253
Pocahontas	1684	1641	1627	1644	1577	1464	1159	995	1173	1738	2272	2364	2905	2891	560	373	311
Polk	1427	1410	1369	1367	1265	1177	977	886	1063	1565	1967	2097	2473	2400	513	312	270
Pottawattamie	1138	1093	1069	1057	984	909	786	702	825	1126	1433	1568	1872	1848	410	238	224
Poweshiek	1258	1228	1187	1175	1101	1027	868	785	963	1385	1620	1695	2033	1959	425	268	240
Ringgold	626	610	586	566	517	471	420	388	465	640	806	937	1075	1001	240	137	127
Sac	1639	1635	1595	1589	1501	1377	1058	930	1037	1476	2052	2107	2564	2543	496	327	294
Scott	2017	1956	1923	1845	1739	1566	1463	1376	1820	2528	2856	3064	3484	3207	664	423	330
Shelby	1186	1156	1126	1120	1052	996	816	725	835	1133	1486	1595	1937	1980	430	261	236
Sioux	1562	1556	1517	1510	1431	1346	1028	900	996	1396	1966	2018	2470	2506	503	324	287
Story	1654	1638	1598	1608	1488	1379	1129	1019	1216	1818	2239	2355	2788	2691	552	339	282
Tama	1330	1306	1272	1275	1186	1105	913	828	1004	1483	1806	1903	2266	2192	456	290	245
Taylor	712	685	664	647	594	544	489	446	533	732	910	1037	1203	1161	279	159	147
Union	751	732	702	678	619	566	505	466	558	769	978	1138	1304	1255	309	172	149
Van Buren	773	758	723	699	647	598	522	483	589	821	993	1117	1300	1202	274	156	135
Wapello	833	811	777	757	708	632	548	500	618	865	1021	1101	1309	1218	268	167	147
Warren	1050	1035	992	966	882	793	688	636	761	1072	1384	1584	1820	1667	384	213	181
Washington	1501	1454	1397	1368	1291	1151	992	899	1120	1574	1785	1860	2251	2079	466	314	261
Wayne	607	602	570	544	493	454	401	377	452	624	800	955	1079	976	225	124	110
Webster	1721	1691	1664	1681	1580	1460	1180	1041	1240	1856	2354	2470	2969	2878	571	357	294
Winnebago	1446	1389	1380	1399	1347	1246	1001	872	1063	1578	2020	2126	2619	2574	454	282	221
Winneshiek	976	974	956	989	908	820	701	642	797	1161	1444	1553	1803	1670	318	199	156
Woodbury	1168	1153	1121	1119	1060	1002	783	691	781	1059	1390	1463	1802	1759	350	224	209
Worth	1402	1341	1325	1340	1279	1187	966	871	1084	1604	1998	2124	2590	2503	444	275	207
Wright	1763	1714	1700	1722	1646	1529	1224	1055	1259	1878	2401	2511	3072	2921	554	348	292
State of Iowa	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 Decade in Iowa Counties, 1950-1990.

County	1980- 1990	1970- 1980	1960- 1970	1950- 1960	County	1980- 1990	1970- 1980	1960- 1970	1950- 1960
Adair	-45.0	333.4	83.3	10.5	Jefferson	-35.4	352.4	62.7	14.9
Adams	-41.4	350.9	71.2	6.9	Johnson	-40.4	363.7	57.4	24.6
Allamakee	-37.5	426.6	60.7	26.1	Jones	-41.1	402.5	56.1	26.5
Appanoose	-44.6	339.8	90.7	11.3	Keokuk	-33.9	347.5	49.4	14.2
Audubon	-37.2	391.6	58.2	9.7	Kossuth	-42.5	461.9	55.0	22.9
Benton	-41.1	375.1	56.7	20.5	Lee	-46.2	345.0	75.3	26.0
Black Hawk	-46.1	408.5	59.4	35.0	Linn	-41.2	388.6	57.9	23.8
Boone	-40.1	375.6	59.8	20.5	Louisa	-37.4	373.7	64.8	23.8
Bremer	-41.4	437.9	57.3	38.3	Lucas	-44.0	328.0	81.8	14.6
Buchanan	-41.1	441.5	64.3	34.2	Lyon	-40.0	420.1	51.0	11.7
Buena Vista	-39.7	424.5	47.0	14.2	Madison	-38.9	353.2	80.7	8.4
Butler	-46.0	436.8	57.2	31.6	Mahaska	-38.0	337.6	60.8	17.1
Calhoun	-40.0	393.8	55.6	18.1	Marion	-43.7	334.6	74.1	20.4
Carroll	-37.2	412.7	50.6	9.0	Marshall	-39.6	371.9	56.1	16.5
Cass	-41.9	356.7	71.5	7.3	Mills	-47.1	350.7	78.6	6.4
Cedar	-42.4	362.3	54.8	29.9	Mitchell	-49.1	444.4	60.8	38.7
Cerro Gordo	-47.5	443.7	61.2	35.6	Monona	-34.7	387.5	61.6	6.4
Cherokee	-39.3	410.8	53.2	13.5	Monroe	-39.1	342.5	64.4	12.3
Chickasaw	-42.3	450.2	64.7	30.2	Montgomery	-48.2	326.0	77.2	5.0
Clarke	-44.2	312.1	79.7	16.3	Muscatine	-40.8	368.8	60.6	25.8
Clay	-38.6	434.0	51.1	18.1	O'Brien	-37.5	437.3	51.2	14.6
Clayton	-38.3	382.6	51.8	27.8	Osceola	-38.1	433.4	53.6	14.8
Clinton	-42.4	405.4	61.5	29.9	Page	-50.1	314.8	73.4	4.6
Crawford	-37.8	411.9	52.9	7.0	Palo Alto	-40.2	440.0	53.5	21.7
Dallas	-39.2	380.4	61.3	12.7	Plymouth	-39.6	391.1	59.4	13.8
Davis	-43.0	354.6	75.4	14.0	Pocahontas	-43.1	416.2	50.1	19.9
Decatur	-42.0	324.9	74.3	14.1	Polk	-43.0	367.8	64.4	15.6
Delaware	-39.0	427.4	67.9	35.9	Pottawattamie	-42.8	350.7	72.3	6.2
Des Moines	-43.4	351.0	73.2	30.5	Poweshiek	-40.0	360.9	58.6	11.7
Dickinson	-34.9	440.2	54.7	11.3	Ringgold	-43.5	317.1	75.2	7.9
Dubuque	-40.3	435.7	65.7	35.4	Sac	-37.5	412.7	51.7	11.2
Emmet	-36.9	447.6	54.4	19.5	Scott	-42.5	383.0	57.0	28.2
Fayette	-41.4	445.5	69.3	37.5	Shelby	-43.4	360.5	64.8	10.6
Floyd	-48.1	580.1	26.3	37.6	Sioux	-39.7	398.2	55.2	12.9
Franklin	-45.0	455.4	57.9	26.7	Story	-40.2	387.5	62.8	20.2
Fremont	-46.4	350.9	74.7	7.9	Tama	-41.8	380.7	57.2	18.4
Greene	-40.2	375.5	58.6	16.1	Taylor	-44.3	316.1	75.5	8.2
Grundy	-43.3	404.1	62.4	28.2	Union	-46.0	306.2	79.6	15.4
Guthrie	-37.6	391.0	63.1	10.2	Van Buren	-41.8	338.7	75.6	15.6
Hamilton	-40.8	412.4	61.2	19.0	Wapello	-37.8	354.5	60.5	13.6
Hancock	-45.3	451.2	60.0	30.2	Warren	-42.0	334.1	80.3	17.7
Hardin	-41.3	425.0	60.0	20.8	Washington	-34.2	346.1	48.4	20.3
Harrison	-38.1	373.4	65.1	5.0	Wayne	-44.3	333.8	81.4	12.7
Henry	-40.0	346.3	61.4	23.9	Webster	-41.6	404.0	59.9	21.4
Howard	-42.0	439.3	59.7	28.2	Winnebago	-45.6	467.0	61.0	27.6
Humboldt	-45.2	423.7	59.9	22.6	Winneshiek	-40.8	425.2	59.8	27.6
Ida	-38.5	393.1	57.1	13.1	Woodbury	-36.4	402.6	56.2	7.2
Iowa	-39.6	354.2	51.9	16.9	Worth	-46.5	463.7	61.4	32.8
Jackson	-42.5	418.2	66.2	32.1	Wright	-41.0	427.3	59.2	19.2
Jasper	-40.5	360.8	56.8	17.8					
					State of Iowa	-41.2	393.1	60.5	19.7

Table 3. Percentage Change in Per Acre Value of Farm Land by Selected Periods from 1981 to 1993 in Iowa Counties.

County	1990- 1993	1986- 1993	1981- 1986	County	1990- 1993	1986- 1993	1981- 1986
Adair	9.90	59.2	-62.9	Jefferson	10.10	67.3	-61.0
Adams	8.20	60.3	-62.2	Johnson	9.60	54.4	-60.6
Allamakee	-4.90	51.6	-62.8	Jones	4.60	47.1	-60.7
Appanoose	11.60	59.5	-65.1	Keokuk	9.70	69.0	-60.3
Audubon	4.80	69.8	-61.8	Kossuth	2.40	70.8	-66.1
Benton	3.50	60.0	-63.1	Lee	10.70	57.7	-64.1
Black Hawk	4.70	57.0	-65.4	Linn	7.80	49.5	-61.0
Boone	2.40	61.1	-63.2	Louisa	9.60	60.1	-60.6
Bremer	2.60	57.7	-65.0	Lucas	11.50	60.2	-64.0
Buchanan	3.40	56.5	-64.4	Lyon	3.00	76.5	-64.8
Buena Vista	2.80	74.0	-64.9	Madison	8.60	70.4	-63.0
Butler	4.50	57.1	-65.6	Mahaska	10.10	69.3	-62.1
Calhoun	2.50	71.4	-64.4	Marion	10.80	61.8	-63.5
Carroll	3.20	76.3	-63.6	Marshall	4.50	60.8	-62.3
Cass	7.50	61.8	-61.8	Mills	9.40	55.4	-62.7
Cedar	9.40	48.9	-60.4	Mitchell	5.90	50.8	-66.2
Cerro Gordo	4.60	57.1	-66.5	Monona	4.50	68.5	-60.6
Cherokee	3.50	74.4	-63.5	Monroe	10.50	67.4	-62.7
Chickasaw	2.20	54.7	-65.0	Montgomery	9.50	54.4	-62.7
Clarke	11.00	64.4	-64.2	Muscatine	9.40	51.3	-60.8
Clay	2.80	75.1	-64.6	O'Brien	3.00	76.1	-64.2
Clayton	-4.90	53.6	-63.6	Osceola	3.00	76.3	-64.1
Clinton	5.50	43.2	-60.6	Page	9.40	54.3	-64.0
Crawford	3.90	71.6	-62.6	Palo Alto	2.60	73.6	-64.7
Dallas	3.40	68.8	-63.2	Plymouth	3.90	69.9	-62.4
Davis	10.70	57.7	-63.4	Pocahontas	2.40	69.2	-65.8
Decatur	11.30	65.6	-64.6	Polk	4.40	61.1	-64.2
Delaware	-1.00	48.1	-62.7	Pottawattamie	7.70	62.1	-62.5
Des Moines	10.10	60.3	-62.7	Poweshiek	7.10	60.3	-61.4
Dickinson	3.00	80.8	-64.4	Ringgold	10.60	61.3	-63.9
Dubuque	-3.60	48.8	-63.2	Sac	3.10	76.2	-63.7
Emmet	2.80	75.4	-64.0	Scott	9.30	46.6	-60.5
Fayette	-1.20	50.6	-64.4	Shelby	5.90	63.6	-62.6
Floyd	5.90	52.1	-65.9	Sioux	3.40	73.6	-63.6
Franklin	3.30	64.0	-66.0	Story	2.90	62.3	-63.4
Fremont	9.50	57.5	-61.9	Tama	4.30	60.6	-63.5
Greene	2.70	68.8	-64.1	Taylor	10.00	59.6	-62.9
Grundy	3.40	58.5	-64.5	Union	10.80	61.2	-64.3
Guthrie	4.20	68.4	-61.9	Van Buren	10.60	60.0	-62.8
Hamilton	2.40	64.6	-64.6	Wapello	10.00	66.6	-61.8
Hancock	3.40	63.3	-66.4	Warren	8.70	65.1	-65.0
Hardin	2.40	62.6	-64.2	Washington	9.70	67.0	-60.1
Harrison	6.20	68.5	-61.8	Wayne	11.60	61.0	-65.1
Henry	10.00	63.7	-62.1	Webster	2.40	65.3	-64.9
Howard	2.20	56.2	-65.2	Winnebago	3.40	65.8	-66.7
Humboldt	2.40	64.0	-66.0	Winneshiek	-1.30	52.0	-64.4
Ida	3.90	71.7	-62.5	Woodbury	4.40	69.0	-61.6
Iowa	6.70	62.7	-61.7	Worth	4.60	61.0	-66.4
Jackson	0.70	42.7	-62.0	Wright	2.40	67.1	-65.7
Jasper	7.70	58.7	-61.7				
				State of Iowa	6.70	64.5	-63.3

through -66.7%) across counties, the gains in the following years varied to a somewhat greater degree. Seventeen counties had increases in farm land values of at least 70%, while the gains in 34 others were less than 60% (Figure 3). Increases from 1986 to 1993 were greatest (+75%) in eight counties in northwestern Iowa (Carroll, Clay, Dickinson, Emmet, Lyon, O'Brien, Osceola, Sac).

Note: Annual data from 1950 through 1993 are available from Michael Duffy, Department of Economics, 560 Heady Hall, Iowa State University, Ames, IA 50011.

Figure 1. Value (in \$ per acre) of farm land in Iowa, 1950-1993.

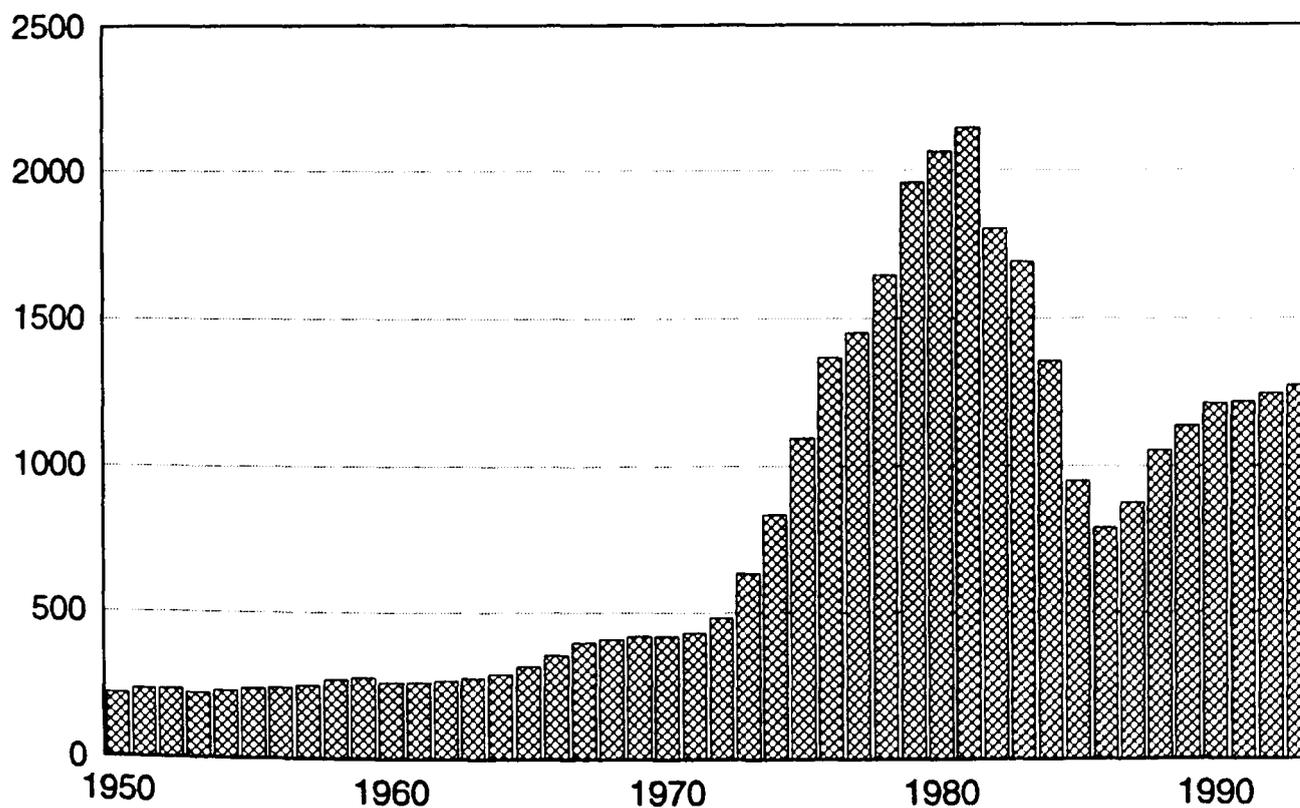


Figure 2. Average farm land value per acre, 1993.

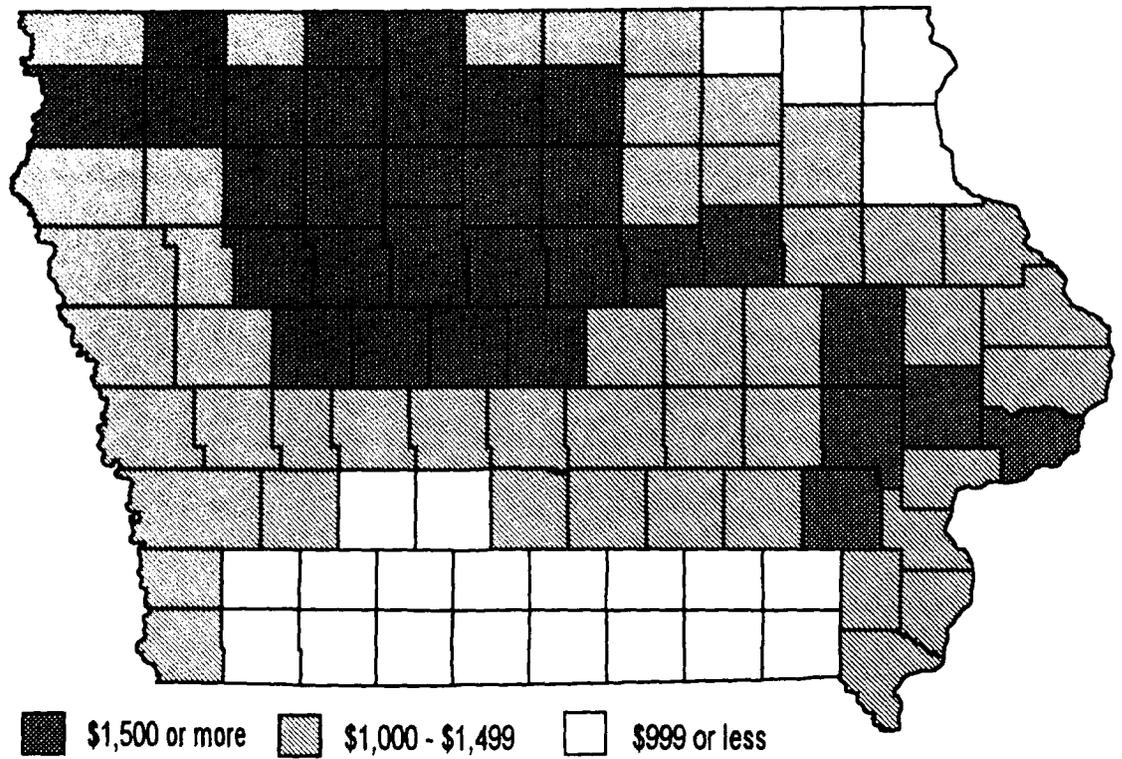
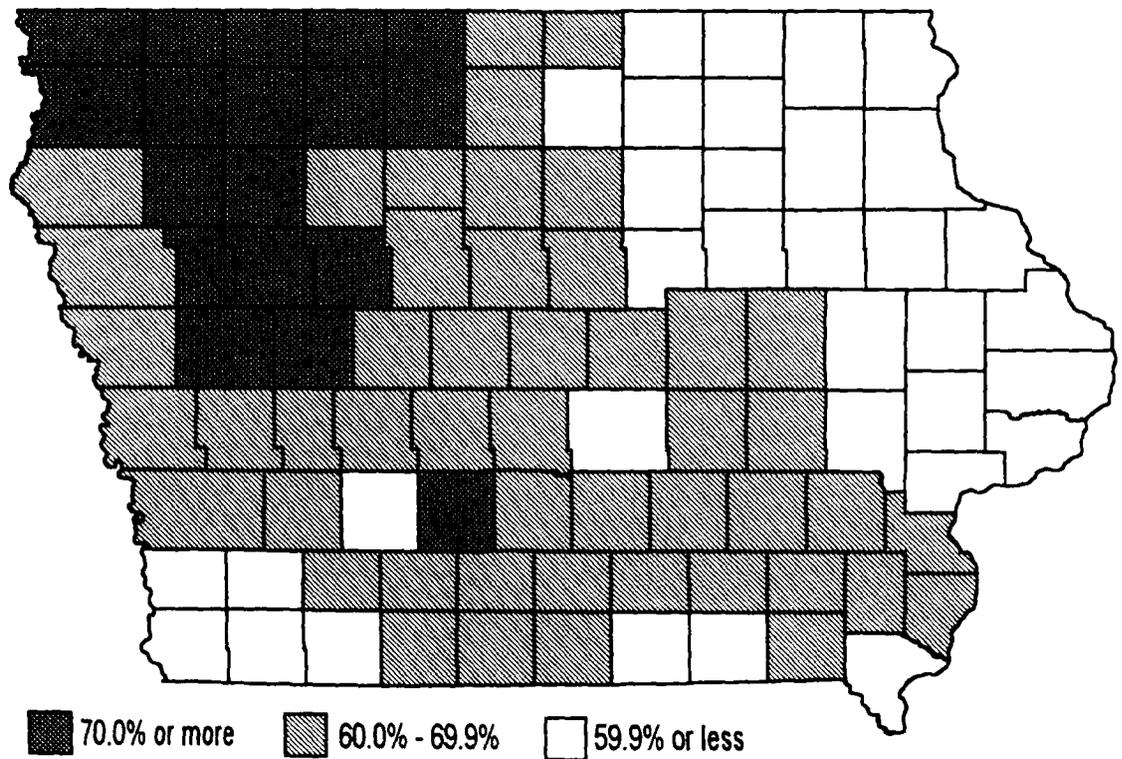


Figure 3. Percent increase in per acre value of farmland, 1986-1993.



Corn and Soybean Production in Iowa's Counties:

1975-1993

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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; the one-year declines were particularly dramatic because of the exceptionally high numbers recorded for corn and soybean production in 1992. Federal agricultural policy and other factors can affect planting and harvesting as well.

Corn Production

Eleven million acres of corn were harvested for grain in 1993 (Table 1), a decline of 2 million acres from 1992. These acres generally increased from 1987, when about 10 million acres were harvested, to 1992, when 13 million acres were reported (Figure 1). Production averaged about 13 million acres from 1975 through 1985 except for 1983, when less than 9 million acres of corn were harvested. Weather-related problems in 1993 resulted in a 15.1 percent decline from 1992 in harvested corn acreage.

In 1993, 880 million bushels of corn were produced, which was the second lowest figure of all years studied and more than a billion bushels less than that reported for 1992 (Table 2). Corn harvests ranged from 1.3 to 1.7 billion bushels from 1978 through 1991 except for 1983 and 1988, the only two years other than 1993 when fewer than 1 billion bushels were produced. The 1992 figure of 1.9 billion bushels was the highest of the period.

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 six of the 19 years examined was the average below 100 bushels per acre (Table 3, Figure 2); the years 1983, 1988, and 1993 were joined by the three at the beginning of the period (1975-1977). In 1993, 80 bushels of corn were harvested per acre, which is a tremendous drop from the 1992 average of 147 bushels. The 1992 figure was the highest of the years reported while that for 1993 was the lowest.

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. The figures for the average bushels produced per acre allows for county comparisons that take into account variations in the number of acres planted. In 1993, for example, average yield of corn was at least 85 bushels per acre in 21 counties (Figure 3); these counties tended to be in the central, northwestern, and southeastern sections of the state. Three of these counties reported yields of at least 100 bushels per acre (Clinton, Scott, Sioux). Yields were under 75 bushels per acre in 37 counties, although they were less than 50 bushels per acre in only four counties (Clarke, Decatur, Ringgold, Wayne).

Table 1. Estimated Acres (in 1,000s) of Corn Harvested for Grain in Iowa Counties, 1975-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	98	112	109	112	106	92	90	102	112	114	73	115	120	116	116	109	110	109	101
Adams	54	63	60	63	61	55	50	58	64	61	46	68	80	74	73	67	68	68	62
Allamakee	63	73	71	68	66	55	62	74	81	79	51	86	89	76	75	75	70	65	63
Appanoose	21	33	32	31	30	24	26	35	42	32	20	35	41	38	37	37	39	40	39
Audubon	97	110	108	109	108	99	94	111	126	117	86	124	127	128	124	122	111	116	108
Benton	166	181	179	175	175	156	153	177	198	190	122	181	181	175	173	185	172	177	174
Black Hawk	137	154	143	150	149	130	120	145	163	161	105	142	153	152	146	146	143	142	143
Boone	123	141	133	134	135	119	108	121	134	127	87	148	152	154	153	151	154	158	154
Bremer	110	123	113	115	114	93	89	108	120	116	70	116	128	117	110	109	108	114	107
Buchanan	163	181	181	177	172	150	143	164	189	180	129	171	178	166	165	156	165	169	153
Buena Vista	148	164	151	155	159	139	122	145	161	157	107	165	176	170	169	167	163	164	160
Butler	136	158	146	154	149	136	127	155	180	170	104	164	176	169	169	168	164	171	157
Calhoun	144	163	145	152	153	131	117	155	176	173	104	159	160	158	155	150	152	157	157
Carroll	147	161	159	161	162	137	127	142	157	152	104	159	164	160	160	154	139	156	154
Cass	115	133	125	127	124	109	102	114	122	118	84	136	141	129	144	135	135	131	120
Cedar	158	173	177	174	167	149	134	145	164	160	111	184	183	179	177	182	172	169	155
Cerro Gordo	143	172	153	166	162	140	122	147	173	164	115	168	170	159	151	151	159	178	156
Cherokee	132	145	141	144	142	124	107	123	146	137	87	147	156	143	146	148	142	140	143
Chickasaw	116	136	123	122	122	104	105	128	141	135	81	136	136	121	115	115	109	113	107
Clarke	22	38	37	36	37	32	37	45	48	41	31	49	56	43	44	44	40	37	29
Clay	105	144	133	135	135	116	102	119	133	132	87	157	159	152	147	142	140	143	138
Clayton	136	157	148	138	130	115	135	157	170	168	111	158	164	150	148	147	139	131	124
Clinton	174	197	196	189	192	166	167	190	224	227	152	215	214	209	210	204	201	202	188
Crawford	162	176	170	170	172	145	127	149	173	161	115	163	173	180	181	167	167	175	169
Dallas	123	139	138	137	134	120	108	126	146	147	93	146	150	160	154	149	155	160	153
Davis	32	44	44	43	41	39	42	54	60	50	32	53	64	55	60	58	62	62	57
Decatur	25	34	32	30	32	21	36	58	65	52	32	51	57	48	45	46	45	44	42
Delaware	166	185	184	177	172	141	146	161	183	175	123	178	179	171	168	162	158	153	147
Des Moines	66	75	76	73	72	70	68	92	102	102	66	93	97	93	93	93	92	94	97
Dickinson	46	88	78	86	85	76	68	82	96	89	56	95	103	94	96	95	88	91	94
Dubuque	104	121	116	113	112	88	104	114	121	121	93	129	132	127	124	115	113	107	103
Emmet	53	108	97	103	102	93	80	110	127	119	76	118	113	110	106	104	102	106	104
Fayette	174	201	194	194	186	154	146	170	187	182	117	182	192	188	179	174	171	170	158

Table 1. Estimated Acres (in 1,000s) of Corn Harvested for Grain in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	121	140	131	132	128	112	109	125	140	140	80	134	138	133	128	126	123	131	124
Franklin	160	183	145	170	170	147	132	148	173	166	107	180	183	179	171	167	160	170	169
Fremont	82	118	111	113	114	99	88	103	119	104	69	101	113	112	120	120	122	119	115
Greene	140	155	146	145	146	124	109	126	137	132	90	152	156	163	157	153	145	164	162
Grundy	144	164	151	161	160	140	129	142	155	154	101	159	160	152	150	155	152	163	152
Guthrie	98	112	109	106	106	97	87	118	133	121	73	120	119	111	106	105	104	102	102
Hamilton	148	168	149	160	159	136	122	134	146	139	99	160	170	170	165	167	169	178	169
Hancock	144	175	152	163	163	147	127	151	172	166	99	171	175	166	162	163	164	167	160
Hardin	155	172	156	167	161	138	136	157	174	170	120	171	174	169	162	166	175	177	170
Harrison	146	166	157	156	154	143	127	149	174	156	96	165	175	170	166	158	167	171	161
Henry	79	92	92	88	89	81	74	86	97	95	73	104	113	106	102	99	105	106	98
Howard	96	115	103	104	101	89	83	105	116	114	72	104	117	108	100	99	92	92	87
Humboldt	113	130	99	122	123	111	96	110	124	121	77	127	131	127	125	127	122	123	124
Ida	114	123	125	127	125	110	97	117	137	132	83	126	130	124	128	131	126	126	124
Iowa	110	129	128	121	124	99	117	138	149	146	95	154	163	146	142	139	144	139	129
Jackson	83	104	101	98	96	74	85	101	110	108	73	122	129	107	104	100	97	95	94
Jasper	147	169	162	164	166	147	139	155	180	174	118	169	180	174	170	170	171	175	159
Jefferson	59	73	74	72	72	60	67	82	96	87	49	77	83	76	73	74	83	80	73
Johnson	103	124	127	119	118	107	105	126	145	143	107	149	149	147	144	135	139	137	128
Jones	131	152	150	146	141	117	121	144	162	157	105	152	157	143	142	140	136	135	128
Keokuk	102	117	120	113	119	107	105	125	134	117	86	127	141	132	126	132	135	133	123
Kossuth	241	308	237	274	272	234	206	238	260	261	180	280	290	276	274	268	255	268	271
Lee	63	81	77	74	71	64	71	93	106	97	54	88	88	86	83	81	89	95	98
Linn	131	146	149	149	143	126	120	134	151	153	103	153	163	152	152	147	157	160	153
Louisa	80	88	89	88	84	83	76	90	102	97	67	98	106	97	86	83	85	83	84
Lucas	16	32	30	29	30	27	30	42	46	39	25	40	48	43	43	41	40	44	39
Lyon	132	153	147	143	138	123	120	140	155	155	111	153	156	164	169	154	149	139	148
Madison	51	73	71	74	71	63	62	95	104	92	56	76	87	88	89	83	82	85	78
Mahaska	104	124	124	119	120	104	104	111	126	121	91	128	135	136	135	131	136	143	128
Marion	60	79	74	74	76	71	69	85	93	74	48	77	90	88	82	79	67	90	85
Marshall	134	155	146	151	149	132	127	142	149	145	96	154	163	161	156	150	160	169	157
Mills	87	100	96	100	96	83	81	93	102	98	61	102	114	103	103	100	94	99	96
Mitchell	110	135	121	124	120	104	97	112	124	118	82	127	124	122	119	120	114	119	111

Table 1. Estimated Acres (in 1,000s) of Corn Harvested for Grain in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	141	167	161	163	165	144	128	159	178	155	121	175	184	164	162	172	163	168	165
Monroe	15	31	28	27	29	23	26	40	43	39	22	33	38	35	42	40	41	43	37
Montgomery	81	90	88	89	87	78	71	79	83	84	60	86	96	97	105	96	96	95	87
Muscatine	84	99	97	92	96	86	86	111	128	128	76	104	108	102	97	101	93	97	92
O'Brien	135	161	158	160	157	140	126	145	162	158	112	158	162	150	155	163	152	157	152
Osceola	72	111	108	107	105	94	80	95	110	102	63	107	112	109	110	106	103	104	101
Page	88	102	101	101	97	86	82	93	101	93	68	95	103	113	112	107	107	109	102
Palo Alto	125	158	122	151	149	132	125	156	182	164	100	162	171	160	155	154	151	160	153
Plymouth	203	227	213	217	211	187	189	210	239	231	155	233	236	234	244	235	225	223	231
Pocahontas	150	168	146	156	157	138	121	150	168	153	97	170	175	169	162	158	152	160	157
Polk	81	101	95	97	99	85	78	86	98	95	67	101	117	110	114	110	120	118	116
Pottawattamie	214	243	236	235	227	202	198	229	256	247	147	220	241	245	214	220	223	221	218
Poweshiek	109	123	124	122	115	93	101	112	125	123	88	146	141	131	125	130	130	128	122
Ringgold	36	49	48	46	48	37	40	63	70	62	33	55	64	62	65	62	62	65	58
Sac	146	157	145	150	150	133	115	137	153	148	112	159	163	169	169	155	160	155	159
Scott	118	128	126	123	123	109	107	115	136	142	113	148	144	136	134	135	127	130	117
Shelby	168	181	176	175	173	151	134	171	194	179	109	178	185	182	182	168	169	177	165
Sioux	210	237	233	228	223	203	186	207	233	218	143	226	250	236	241	234	218	194	220
Story	140	160	156	161	161	142	123	148	168	161	97	146	161	170	164	158	156	157	154
Tama	162	184	175	182	180	161	147	171	197	179	108	181	190	176	174	177	180	178	168
Taylor	59	70	66	67	67	59	57	76	90	75	55	71	84	81	78	71	74	67	67
Union	39	52	50	51	47	40	39	60	68	56	38	49	62	57	57	53	52	55	48
Van Buren	34	48	49	46	45	43	43	58	70	57	34	58	64	58	58	55	58	60	57
Wapello	40	59	57	56	53	45	48	50	57	51	33	59	67	65	63	62	66	64	62
Warren	53	80	77	78	82	64	68	97	105	92	55	79	95	87	85	86	77	86	82
Washington	116	132	139	134	130	120	119	141	165	148	109	153	160	151	151	150	153	141	138
Wayne	38	54	50	45	48	40	45	73	86	72	38	66	78	64	61	61	66	63	57
Webster	164	186	166	174	172	151	133	150	162	158	119	175	188	189	183	179	181	189	190
Winnebago	104	134	104	120	117	99	89	111	118	119	80	119	130	116	114	108	109	118	112
Winneshiek	109	131	131	123	117	88	109	129	140	136	84	137	146	141	130	128	119	117	112
Woodbury	181	207	207	208	205	185	162	199	216	199	132	239	271	251	260	242	238	236	232
Worth	93	112	99	104	103	91	80	103	117	113	71	111	115	116	110	110	114	118	113
Wright	155	174	136	161	157	140	120	139	163	164	102	163	172	179	177	174	164	168	167
State of Iowa	11000	12950	12200	12400	12250	10700	10150	12050	13550	12900	8550	13150	13850	13300	13100	12850	12700	12900	12420

Table 2. Estimated Bushels (in 1,000s) of Corn Produced in Iowa Counties, 1975-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	7558	16298	13802	12856	13892	7898	11496	13071	14294	11050	5660	11740	14537	10400	13300	11300	5509	10893	6543
Adams	4250	8850	8024	7461	6661	4035	6250	6923	8124	4254	2747	6511	9523	5800	8500	6400	4132	6938	3576
Allamakee	5241	9629	9471	9080	8001	3603	8455	10267	9295	8861	5621	9976	11286	8700	9300	8850	8249	5671	6195
Appanoose	1368	3792	2883	3152	2458	1184	2870	4397	5035	2858	372	2941	4444	3300	4300	3350	2388	3537	2875
Audubon	7852	16272	14242	13323	14203	9063	12478	13987	16432	11917	7659	13878	14682	11600	14900	13150	6924	9003	7626
Benton	14065	24422	16693	21111	18818	8962	21042	23779	22419	23024	11089	22677	22790	18500	23200	22300	14386	16307	15996
Black Hawk	10109	24475	15935	18712	13818	9616	17197	20935	21268	17186	11687	18253	20221	17900	20100	17300	15698	13054	13696
Boone	10345	23479	16352	15902	17670	10335	15463	17495	16832	15355	9737	19082	18466	18300	21700	18250	5174	16143	15922
Bremer	8723	19424	14792	15390	11268	6571	12298	15381	16458	13403	7920	14376	17229	14400	14400	13300	12572	10168	9649
Buchanan	12500	27755	22359	23631	19568	11251	20166	23915	22075	21353	12987	22238	23735	21000	23200	19050	17866	16856	15433
Buena Vista	11868	25520	18161	20162	20990	15662	16052	19036	21282	15426	8713	20562	22811	20700	21800	21300	19524	12135	15886
Butler	10066	23608	18277	19907	14032	12827	16684	20834	23788	19295	10870	20286	22321	21000	21500	18700	15163	15373	13917
Calhoun	11956	27821	16762	19012	20596	16202	16724	20796	22376	18005	10524	20292	21547	19500	21500	18500	12743	13469	14867
Carroll	10364	24494	19402	19370	21022	15931	17242	19666	20213	16595	9091	18165	20430	15700	19800	17050	7051	11351	12794
Cass	8299	20817	16387	15764	16224	9947	13592	14827	16042	12658	7661	15029	16407	11400	17700	14750	10308	13584	7932
Cedar	14404	24856	19236	23723	22056	9110	16117	20882	22097	21505	10099	25460	25861	22300	25500	23550	21235	19762	17040
Cerro Gordo	9254	24911	18339	22759	15671	13981	16157	21262	21714	18315	12550	21365	22808	20700	19900	18100	16566	16688	14513
Cherokee	11583	21513	19137	18813	18777	14914	13766	16564	18464	15915	7793	18186	19077	16000	18400	18150	15039	9712	13318
Chickasaw	8250	19239	15968	15808	12041	7166	13927	17418	16169	14002	7865	15065	16840	14800	14800	13250	12158	8375	8507
Clarke	942	4611	3753	3746	2542	1249	3710	4493	6260	2522	830	3926	6362	3600	4300	4300	1617	3533	2306
Clay	6894	21158	14925	18073	17555	11595	13924	16330	17786	13706	7347	17792	21401	19200	19000	16650	15671	12228	13215
Clayton	12262	21048	19750	19454	17407	7655	18801	23080	20538	19528	11803	19530	20615	17400	18600	17350	16298	12129	12309
Clinton	17560	28427	20755	25998	23426	8828	18206	25722	26002	25821	13364	28245	28758	25700	27400	23400	21922	19262	20227
Crawford	12447	25586	20885	21297	21042	15045	16096	18905	20206	17797	9155	17972	16427	12200	19300	18750	10758	9241	14040
Dallas	11681	21000	17097	17518	18735	10591	15132	16627	16558	16807	8254	18450	20266	15500	20900	15900	8082	16600	13119
Davis	2022	5630	4097	4590	2712	2044	3857	5798	7479	5115	691	5045	6766	5800	7100	5600	2968	5613	4317
Decatur	1195	4000	3382	2893	2731	837	3932	6786	7790	4410	896	4574	6496	4000	4600	4700	2254	4175	3039
Delaware	12840	26133	23057	24619	21021	9116	20348	24168	20861	20729	10962	23444	24075	21300	22600	19050	17206	15216	15147
Des Moines	6228	10445	6991	9390	6001	4542	7532	13475	14104	13700	4491	12437	13413	10800	12900	10100	8900	10561	10478
Dickinson	2528	12089	9431	11019	11635	8067	9011	11345	11859	10240	4732	11208	13509	11800	11700	11400	8503	6074	8191
Dubuque	8776	16433	15107	15423	12109	5675	13576	16835	14561	15048	8909	16710	16343	15500	16100	13100	11656	10178	10310
Emmet	2811	15877	11421	13798	14218	10386	11417	16206	16959	12099	6780	14775	16244	15300	13500	13050	11061	8492	10473
Fayette	13980	28671	26554	26410	22854	12128	20615	24371	22906	21083	12515	21180	25560	23600	23700	20900	19338	16576	14794

Table 2. Estimated Bushels (in 1,000s) of Corn Produced in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	8840	20337	16297	18334	10648	9386	14364	17597	18366	16158	7817	16059	17865	16800	16800	14700	13550	11632	9775
Franklin	10480	29136	16997	22220	21688	16218	18591	21936	24310	19463	11549	22986	24533	23600	22600	20100	13885	17596	17895
Fremont	6491	18606	14187	12961	13943	11099	10347	14759	14494	10037	5894	9532	13517	10500	14000	11450	6710	12290	8193
Greene	11813	26075	18200	17632	18600	12336	15976	17427	18057	16028	9369	19287	21231	18400	22200	18300	5472	15358	15396
Grundy	11149	25269	18412	18868	15309	12577	18144	17812	19864	16757	11941	20717	21006	18600	20600	18500	14824	17760	16551
Guthrie	7954	16872	13157	12777	14465	9072	11352	14814	16301	13194	6165	13519	14347	10700	13100	11250	5818	8747	7386
Hamilton	11044	27407	18347	19190	24542	10900	17462	19706	20430	15755	10306	20749	23960	21300	23200	19950	12988	17942	17047
Hancock	10818	26589	16758	22427	20469	16886	17463	22564	24026	18094	9823	21655	24697	21200	21200	20450	18488	16477	15196
Hardin	11975	27943	19034	20652	18803	11528	19456	22359	25450	21114	13980	22578	22537	20400	22500	19050	14960	18338	18095
Harrison	14366	25687	18340	17541	14940	13006	17360	19137	21838	16066	8362	18113	16211	13600	19700	18200	12251	12920	13520
Henry	6336	12589	9018	10852	6385	4942	7720	11328	12738	10868	3436	13185	15097	12600	14100	10900	9883	12410	10281
Howard	6026	14656	12400	13847	12647	5612	10730	13915	13038	12313	6927	11130	14543	13000	12200	11350	10395	6945	5527
Humboldt	8445	20717	10782	15375	18289	11861	13693	15413	15522	13594	7522	16807	18514	15200	15800	16200	12091	11768	12690
Ida	9853	19227	15243	16232	16300	13179	12096	15017	17063	15614	7630	15102	14108	8900	14200	15550	12913	7882	11899
Iowa	8716	17766	13684	15111	12965	3156	14483	18008	19135	18062	6585	18467	20628	16500	18400	15300	10649	14904	11041
Jackson	7352	12057	9117	12747	10955	3321	9838	13067	11587	11931	5593	15092	15585	12300	12200	10800	9636	7577	8939
Jasper	14183	24937	18456	20651	19166	11165	19192	19766	22299	22078	9726	21140	22335	17900	21400	19150	8802	18870	14929
Jefferson	4115	9840	7382	8879	6277	3442	6969	10967	11500	10288	1569	9093	10166	7700	9400	7800	6360	8641	6527
Johnson	8093	16107	12366	15130	12013	4921	11537	15995	16691	16885	8231	18649	19969	15700	19200	15800	14633	15728	11755
Jones	11164	20237	16522	18861	15402	5833	15062	20941	20233	20520	9341	20035	21101	17800	18800	16750	14042	11602	13408
Keokuk	8025	15636	11632	13572	12360	4197	13437	16568	16484	14409	3325	15612	17848	15300	17000	15000	9215	14535	11012
Kossuth	18020	48706	25808	38011	39247	28548	30099	36246	37065	30678	17738	37409	40075	36400	35700	33450	25897	25324	27764
Lee	4877	11990	7634	8178	3309	2454	6725	12207	14457	11905	2199	10976	10230	9300	11500	8000	5130	9137	8872
Linn	10696	20633	14178	18979	16463	6056	15077	18356	17314	19306	8000	19731	21473	17400	19800	17000	15140	15196	14151
Louisa	7205	12736	7983	11515	6221	4087	7551	12049	12305	12652	4225	12851	14398	11900	11800	9050	9027	9080	8629
Lucas	851	3908	3003	3018	1922	1256	3097	4995	5341	3254	820	3273	5513	3900	4400	3800	1683	4024	2615
Lyon	11335	20806	18122	16624	16467	8745	14472	18856	18629	16057	9514	16050	17272	16900	19400	17000	14184	7946	10982
Madison	3803	10708	8201	8275	9074	4406	7500	12151	12265	8122	4098	7622	10842	8700	9800	8650	2943	8240	5229
Mahaska	8708	17379	12891	14462	13478	5867	14079	14019	16506	14296	4530	15011	16426	14700	17300	13550	6641	14792	11112
Marion	4872	10685	8084	8865	8566	5820	8898	10995	12020	8088	2905	8143	11458	8100	9700	8300	1229	8839	7442
Marshall	11499	23405	18628	19221	18091	9299	18209	18992	19666	17819	10490	19931	19690	19200	20600	16650	6780	17700	16363
Mills	6486	15635	12716	11988	10538	8960	10259	12163	13063	9641	5526	10534	13351	10200	12600	10700	5311	9406	7553
Mitchell	7461	18526	15186	17870	15493	8601	12409	16098	15215	13606	7833	15401	14742	14700	14800	13400	12285	8675	8766

Table 2. Estimated Bushels (in 1,000s) of Corn Produced in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	12790	23589	16700	18055	17131	13770	15720	18862	19331	15666	9038	19513	17110	12100	16400	19650	13915	9003	13724
Monroe	892	3673	2970	3002	2777	1063	2769	4491	4947	3528	644	2579	4352	3300	4500	3600	1854	3967	2709
Montgomery	6061	13640	11269	10572	10565	7488	8740	10223	9888	7385	4913	8397	11283	8200	13300	9850	7077	9735	6146
Muscatine	6720	14096	9035	11618	10165	4578	8514	14837	15372	16214	6917	13614	14199	12200	12600	11400	10680	11259	9735
O'Brien	10214	23525	19252	21439	22247	17293	16819	21079	21396	17795	10754	18421	20847	19400	19800	19650	17021	14472	14809
Osceola	5107	15348	14536	14151	13750	10321	11156	13394	13797	11483	5563	12832	14214	13600	12900	12800	11268	7920	9248
Page	6744	15847	12409	11508	10720	6567	9381	12370	11932	6811	4990	8906	12123	8300	12700	10400	7089	10838	7196
Palo Alto	9005	24749	12834	20622	18675	14084	17199	21846	24084	16452	8751	20474	23310	21500	19400	18350	15532	13863	14495
Plymouth	19611	32144	26530	24972	24489	13291	21983	25466	29053	26063	12454	25471	24096	19600	28500	27150	20042	11826	15335
Pocahontas	11195	27681	17308	19186	22104	14875	16632	20205	24621	15557	8112	22342	24412	20800	21600	20750	16257	13489	15556
Polk	7697	15575	10541	12105	12690	7340	11326	10859	11450	11501	6248	12610	15580	11000	14600	12350	7338	12748	10053
Pottawattamie	17310	37715	32110	28433	22780	19990	27130	31280	34675	28887	12571	25390	27039	24100	27200	26150	19275	20948	15114
Poweshiek	8570	17172	13128	15163	12434	4822	13154	13698	14949	14259	6651	17771	17006	14500	15800	14350	10101	13007	10708
Ringgold	1516	6351	5162	4417	4795	1670	4344	7026	8581	3753	1485	4533	7493	3400	6900	6200	2854	5825	3802
Sac	11812	25309	17089	19239	18946	16507	15210	18132	19863	16028	9490	18666	19584	14500	20900	17600	14178	8582	14085
Scott	12540	18779	14315	16623	16292	6963	13263	16554	17504	18058	10978	20087	20198	18000	18000	16600	15245	15100	13454
Shelby	14290	26416	22963	21752	20709	14306	16938	21898	25929	21117	8856	20972	19332	15900	23100	20000	11180	14112	12743
Sioux	21609	34190	28648	28088	29950	18190	21769	27044	30219	25139	12902	24656	28951	26000	29400	26000	19647	11973	16184
Story	10893	25901	19166	18664	20437	12125	17818	20016	21405	19203	11053	19187	20818	21500	22900	18400	5047	16759	15594
Tama	13192	24959	19787	22278	18201	14510	20198	22452	24294	21677	11708	22682	23671	20100	23100	20650	15575	17665	16755
Taylor	3621	9392	7797	6502	6353	3558	6288	8708	10969	4550	2460	5876	9616	5300	8500	6300	4885	5577	3701
Union	2052	6717	6277	5685	4810	2692	4556	6530	8488	4595	2421	4464	7246	4600	6200	4900	2086	5238	3024
Van Buren	1946	6489	4673	5048	2893	1732	4316	6360	8152	6114	1030	6066	6630	5400	6700	5200	2659	5398	4792
Wapello	2995	8291	5546	6515	5631	2833	5291	6575	6478	5654	1072	6918	8762	6800	8300	6400	5426	7123	5770
Warren	3801	11762	8636	8773	8819	5321	8500	13262	13697	9278	3332	8114	12204	8700	10300	9050	2084	8560	6474
Washington	9333	17955	14161	17568	12081	5026	13826	19808	20341	18229	6651	19920	20848	18800	20900	16900	14796	16039	12722
Wayne	1568	5973	4918	4285	3646	1809	4990	8521	10212	5278	857	5303	8710	6100	6800	6150	3525	5953	4266
Webster	13612	30333	20221	21706	25731	14198	19255	21510	21859	17007	13204	22875	26691	24000	25700	23000	15242	18392	18295
Winnebago	7053	19732	11326	16720	15066	11728	12363	15795	15409	13990	7799	14676	16840	13400	14300	13100	11697	10454	10256
Winneshiek	9273	16807	17152	16817	14179	6078	14612	17974	15707	15327	8982	14917	17795	16600	15400	14750	13161	9392	9155
Woodbury	16433	29822	21947	23568	22945	14791	19623	22709	23868	21548	9913	26671	25247	17000	27100	27850	23570	14457	19220
Worth	5851	15093	11636	14801	13393	8973	10856	14540	15656	13281	7315	14085	13600	14000	14300	13300	11936	9972	10541
Wright	11422	27535	15166	21496	23307	15556	17181	20927	21656	19139	10393	21203	24925	21200	24100	22000	17224	17076	17349
State of Iowa	880000	1903650	1427400	1562400	1445500	898800	1319500	1626750	1707300	1444800	743850	1578000	1731250	1463000	1663700	1477750	1092200	1173900	1117800

Table 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	76.8	145.0	126.4	115.1	131.4	86.1	128.4	128.3	127.9	97.4	77.3	102.2	121.0	89.7	114.7	103.7	50.1	100.1	64.6
Adams	79.0	140.7	133.7	119.4	110.1	73.5	125.8	119.6	126.1	70.0	60.1	95.3	119.6	78.4	116.4	95.5	60.8	101.6	57.6
Allamakee	83.2	132.4	132.6	132.7	122.2	66.1	136.2	138.7	114.6	112.7	109.6	116.3	127.2	114.5	124.0	118.0	118.5	87.4	97.7
Appanoose	64.5	115.3	90.4	103.3	83.0	50.4	110.0	124.2	119.9	89.3	19.1	85.0	107.6	86.8	116.2	90.5	60.6	88.2	73.3
Audubon	80.6	148.5	132.0	122.0	132.0	91.7	133.5	126.1	130.6	101.6	89.6	112.0	115.4	90.6	120.2	107.8	62.5	77.7	70.5
Benton	84.8	135.0	93.2	120.5	107.3	57.4	138.0	134.3	113.1	121.2	90.8	125.1	126.1	105.7	134.1	120.5	83.6	92.3	92.2
Black Hawk	73.6	159.1	111.2	125.0	92.9	74.1	143.0	144.9	130.3	106.5	111.0	128.2	132.5	117.8	137.7	118.5	109.8	92.1	95.7
Boone	84.0	166.9	123.4	118.8	130.5	86.8	142.9	144.9	125.2	120.8	111.4	128.7	121.9	118.8	141.8	120.9	33.6	102.1	103.4
Bremer	79.7	157.8	130.9	133.6	99.3	70.5	137.6	142.5	137.7	115.2	113.6	124.5	135.0	123.1	130.9	122.0	116.0	88.9	90.0
Buchanan	76.6	153.8	123.5	133.3	113.6	75.3	141.4	145.6	117.0	118.4	100.4	130.0	133.3	126.5	140.6	122.1	108.4	99.7	100.6
Buena Vista	80.3	155.4	120.5	130.4	132.4	113.0	131.4	131.6	132.4	98.3	81.4	124.9	129.9	121.8	129.0	127.5	119.9	74.2	99.6
Butler	73.9	149.2	125.6	129.5	94.3	94.2	131.6	134.2	132.5	113.7	104.5	123.9	127.0	124.3	127.2	111.3	92.4	90.1	88.5
Calhoun	83.3	170.3	116.0	125.4	134.6	123.4	143.2	134.6	127.1	104.4	101.2	127.8	135.1	123.4	138.7	123.3	83.8	85.6	94.9
Carroll	70.5	152.6	122.1	120.7	129.4	115.9	135.8	138.5	129.0	109.3	87.8	114.2	124.6	98.1	123.8	110.7	50.6	72.9	83.1
Cass	72.1	156.4	131.4	123.9	131.4	91.5	132.9	129.8	131.9	107.0	91.3	110.4	116.3	88.4	122.9	109.3	76.3	103.9	66.0
Cedar	91.3	143.9	108.6	136.5	131.8	61.3	120.6	144.0	134.7	134.7	90.9	138.1	141.5	124.6	144.1	129.4	123.7	117.1	110.3
Cerro Gordo	64.8	145.0	120.0	136.8	97.0	100.2	133.0	144.7	125.8	111.9	109.3	126.9	134.2	130.2	131.8	119.9	104.3	93.9	93.3
Cherokee	87.5	148.3	135.8	130.7	132.7	120.0	129.3	134.8	126.4	116.4	89.8	123.5	122.6	111.9	126.0	122.6	106.3	69.6	93.0
Chickasaw	71.0	141.2	130.1	130.0	98.8	69.0	133.0	136.3	115.0	103.4	97.2	111.2	124.3	122.3	128.7	115.2	111.7	74.1	79.2
Clarke	43.0	121.3	102.3	104.3	68.2	39.3	100.0	100.5	130.4	61.2	27.1	79.6	114.4	83.7	97.7	97.7	40.9	95.2	78.4
Clay	66.0	147.0	112.2	133.7	130.5	100.3	136.5	136.9	134.0	104.2	84.4	113.5	134.8	126.3	129.3	117.3	112.1	85.6	95.9
Clayton	89.9	134.4	133.7	141.4	134.0	66.9	139.0	146.6	120.8	116.4	106.6	123.8	126.1	116.0	125.7	118.0	117.6	92.6	99.5
Clinton	100.7	144.5	105.8	137.3	122.2	53.3	109.3	135.1	116.1	113.6	87.9	131.2	134.5	123.0	130.5	114.7	109.1	95.6	107.6
Crawford	76.7	145.4	122.8	125.5	122.6	103.7	127.1	126.9	116.9	110.6	80.0	110.4	94.8	67.8	106.6	112.3	64.3	52.8	83.0
Dallas	95.4	151.4	124.3	127.5	139.5	88.2	140.0	132.1	113.6	114.7	89.0	126.5	134.8	96.9	135.7	106.7	52.3	104.0	85.7
Davis	63.6	128.2	93.3	108.0	66.0	52.5	92.9	108.4	125.3	101.5	21.4	95.7	106.6	105.5	118.3	96.6	47.8	90.4	75.2
Decatur	48.8	119.0	105.7	97.4	84.8	39.3	108.0	117.4	120.4	84.2	28.1	89.5	113.8	83.3	102.2	102.2	50.1	94.5	72.5
Delaware	77.3	141.0	125.4	138.9	122.5	64.9	139.0	150.4	114.0	118.2	89.0	131.9	134.6	124.6	134.5	117.6	108.8	99.6	103.1
Des Moines	94.1	140.0	92.5	128.5	83.0	64.8	110.4	147.1	138.0	134.4	67.6	134.2	139.0	116.1	138.7	108.6	96.8	112.8	108.0
Dickinson	55.6	138.0	120.3	128.3	136.2	106.4	133.3	138.5	123.9	114.7	84.5	118.1	131.2	125.5	121.9	120.0	97.0	67.1	87.6
Dubuque	84.8	135.4	130.0	136.5	108.6	64.2	131.2	147.5	120.1	124.4	95.6	129.5	123.8	122.0	129.8	113.9	103.6	95.5	99.7
Emmet	53.4	147.1	118.0	134.5	139.8	111.6	142.9	147.9	133.1	101.9	89.0	125.2	143.8	139.1	127.4	125.5	108.2	80.0	100.6
Fayette	80.4	142.7	136.6	135.9	123.1	79.0	141.6	143.6	122.5	115.8	106.8	116.5	132.8	125.5	132.4	120.1	113.0	97.3	93.8

Table 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	73.0	145.3	124.6	138.7	83.3	83.8	131.7	140.9	131.2	115.7	97.3	119.7	129.5	126.3	131.3	116.7	110.2	89.0	78.8
Franklin	65.7	158.9	117.3	130.8	128.0	110.5	141.4	148.1	140.3	117.3	108.1	127.6	133.9	131.8	132.2	120.4	86.8	103.6	105.6
Fremont	79.4	157.1	128.3	115.2	122.1	112.0	118.3	143.2	122.1	96.5	85.2	94.7	120.2	93.8	116.7	95.4	55.0	103.5	71.5
Greene	84.1	168.7	124.6	121.3	127.7	99.6	147.1	138.4	132.0	121.2	104.4	127.3	136.3	112.9	141.4	119.6	37.8	93.6	95.3
Grundy	77.4	154.6	121.6	117.6	95.5	89.9	140.2	125.2	127.9	108.7	118.0	130.4	131.7	122.4	137.3	119.4	97.7	109.0	108.9
Guthrie	81.6	150.6	121.2	121.0	135.9	93.5	130.6	126.0	122.4	109.0	84.5	112.3	120.4	96.4	123.6	107.1	55.9	85.5	72.5
Hamilton	74.6	162.9	123.5	120.3	154.4	80.4	143.4	146.8	140.1	113.6	104.4	130.0	141.1	125.3	140.6	119.5	77.1	101.0	100.7
Hancock	74.9	151.9	110.4	138.0	126.0	115.0	137.1	149.4	139.4	108.8	99.6	126.3	141.0	127.7	130.9	125.5	112.9	98.8	95.0
Hardin	77.1	162.6	122.1	123.6	116.9	83.7	143.4	142.1	146.0	124.0	116.4	132.0	129.2	120.7	138.9	114.8	85.3	103.8	106.2
Harrison	98.6	154.6	117.1	112.5	97.3	91.1	136.3	128.6	125.2	103.1	87.1	109.7	92.5	80.0	118.7	115.2	73.4	75.7	84.1
Henry	80.1	136.8	98.2	122.9	72.1	60.9	103.9	131.4	131.2	114.3	47.1	126.9	134.0	118.9	138.2	110.1	94.2	117.6	105.1
Howard	63.1	128.0	121.0	133.3	125.1	62.9	128.8	132.9	112.6	108.4	95.7	106.9	124.7	120.4	122.0	114.6	113.0	75.2	63.3
Humboldt	75.0	158.9	108.5	126.4	149.1	107.0	143.4	140.2	125.0	112.7	98.2	132.7	141.0	119.7	126.4	127.6	98.9	96.0	102.3
Ida	86.4	156.8	121.8	128.2	130.4	119.7	125.2	127.9	124.7	117.9	92.5	120.1	108.6	71.8	110.9	118.7	102.6	62.7	96.3
Iowa	79.3	137.3	106.9	124.9	104.8	32.0	123.9	130.6	128.3	123.4	69.2	119.8	126.6	113.0	129.6	110.1	74.0	107.2	85.4
Jackson	88.4	115.6	90.0	130.5	113.6	45.1	115.5	129.8	105.0	110.5	77.1	123.6	120.7	115.0	117.3	108.0	99.3	80.0	95.3
Jasper	96.4	147.2	114.1	126.0	115.8	76.0	138.4	127.4	123.9	127.2	82.6	124.8	123.8	102.9	125.9	112.6	51.4	107.8	93.9
Jefferson	70.0	135.0	99.9	123.1	86.7	57.2	103.4	133.3	120.2	118.8	32.2	118.2	121.9	101.3	128.8	105.4	76.7	108.3	88.9
Johnson	78.6	130.0	97.3	127.2	101.5	46.2	110.3	127.5	114.9	117.7	76.7	125.1	133.9	106.8	133.3	117.0	105.7	114.8	91.7
Jones	85.2	133.0	110.1	129.0	109.0	49.9	124.2	145.3	125.3	131.1	89.0	132.0	134.5	124.5	132.4	119.6	102.9	85.8	105.0
Keokuk	78.9	133.6	96.9	120.0	103.9	39.4	128.2	132.8	123.4	123.3	38.9	122.6	127.0	115.9	134.9	113.6	68.3	109.4	89.8
Kossuth	74.8	158.1	108.7	138.8	144.4	122.0	146.3	152.6	142.4	117.4	98.4	133.5	138.0	131.9	130.3	124.8	101.6	94.5	102.5
Lee	76.9	148.9	99.5	110.8	46.6	38.5	94.2	131.8	136.5	122.9	40.7	125.2	115.9	108.1	138.6	98.8	57.6	96.0	90.6
Linn	81.9	141.4	95.0	127.5	114.9	48.1	126.0	136.8	114.7	126.6	77.4	129.2	131.8	114.5	130.3	115.6	96.2	95.1	92.8
Louisa	90.6	144.2	90.0	131.0	73.7	49.5	99.9	133.9	120.6	130.3	63.5	131.5	135.7	122.7	137.2	109.0	106.5	109.5	103.2
Lucas	52.9	121.4	100.1	104.4	64.7	46.7	102.9	117.8	115.4	83.9	33.3	81.6	114.9	90.7	102.3	92.7	42.3	92.5	67.9
Lyon	85.9	136.2	123.2	116.4	119.3	71.3	121.0	134.3	119.9	103.5	85.6	104.6	110.9	103.0	114.8	110.4	95.1	57.3	74.0
Madison	74.3	146.7	116.3	112.4	127.1	70.5	121.8	128.3	117.9	88.6	73.4	100.4	124.2	98.9	110.1	104.2	36.0	96.7	67.0
Mahaska	84.1	140.6	103.8	121.7	112.6	56.2	136.0	126.6	130.9	118.4	50.0	117.6	121.6	108.1	128.1	103.4	48.9	103.4	87.0
Marion	81.2	134.6	109.2	119.3	113.0	82.2	129.3	129.8	129.9	109.0	61.0	105.8	127.6	92.0	118.3	105.1	18.3	98.6	87.1
Marshall	85.7	151.5	127.4	127.1	121.5	70.5	143.2	133.7	131.7	122.7	109.8	129.4	120.9	119.3	132.1	111.0	42.5	104.8	104.1
Mills	75.0	156.2	131.9	120.5	109.4	107.7	126.7	130.2	128.6	98.2	90.0	103.1	117.0	99.0	122.3	107.0	56.3	95.4	79.1
Mitchell	68.0	137.6	125.4	144.3	129.0	82.4	127.4	144.2	123.0	115.5	96.0	121.4	118.7	120.5	124.4	111.7	107.5	73.1	79.3

Table 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	90.5	141.0	104.0	110.5	104.1	95.6	123.2	118.9	108.7	101.3	75.0	111.7	93.1	73.8	101.2	114.2	85.2	53.7	83.2
Monroe	61.5	120.0	107.2	112.9	94.5	46.6	107.3	112.8	114.5	91.6	29.8	78.6	114.5	94.3	107.1	90.0	45.0	91.8	72.4
Montgomery	74.6	152.1	128.5	118.8	121.0	95.6	123.3	129.1	119.0	87.7	82.2	98.0	117.2	84.5	126.7	102.6	74.1	102.6	70.9
Muscatine	80.0	142.8	93.3	125.9	106.0	53.0	99.1	134.0	120.4	127.1	91.1	130.9	131.8	119.6	129.9	112.9	115.1	116.2	106.4
O'Brien	75.6	146.3	121.9	134.2	141.8	123.5	134.0	145.7	131.7	113.0	95.7	116.7	128.4	129.3	127.7	120.6	112.1	92.1	97.3
Osceola	71.2	137.8	134.6	131.8	131.1	109.8	139.1	140.8	125.4	112.1	88.7	120.3	126.8	124.8	117.3	120.8	109.9	76.2	91.2
Page	76.7	155.5	123.3	113.8	110.2	76.8	113.8	132.6	118.3	73.2	73.0	93.5	117.5	73.5	113.4	97.2	66.6	99.6	70.7
Palo Alto	71.9	156.4	105.6	136.2	125.0	106.9	137.9	140.2	132.3	100.1	87.5	126.5	136.6	134.4	125.2	119.2	102.9	86.9	94.8
Plymouth	96.7	141.7	124.6	115.1	115.8	71.0	116.5	121.4	121.8	112.6	80.1	109.3	102.1	83.8	116.8	115.5	89.0	53.0	66.5
Pocahontas	74.6	164.4	118.5	123.3	140.6	107.6	137.3	134.9	146.4	101.4	83.3	131.5	139.7	123.1	133.3	131.3	106.7	84.5	99.4
Polk	94.7	155.0	111.2	124.3	128.2	86.4	144.5	126.0	116.6	121.1	93.5	124.6	133.5	100.0	128.1	112.3	61.3	108.0	86.9
Pottawattamie	81.1	155.1	136.2	120.9	100.5	98.8	136.8	136.8	135.5	117.0	85.4	115.7	112.1	98.4	127.1	118.9	86.3	94.7	69.5
Poweshiek	79.0	140.0	105.6	124.2	108.6	51.6	129.9	121.9	120.1	115.8	76.0	122.1	121.0	110.7	126.4	110.4	77.6	101.9	88.0
Ringgold	42.0	128.8	108.4	96.9	100.5	45.1	109.1	111.3	122.6	60.1	45.7	82.9	117.8	54.8	106.2	100.0	46.0	89.5	65.4
Sac	80.8	161.0	118.3	127.9	126.7	123.9	132.6	132.1	129.7	108.2	85.0	117.4	119.9	85.8	123.7	113.5	88.6	55.4	88.5
Scott	106.0	146.4	113.5	135.4	133.0	64.0	124.3	144.6	129.1	127.4	97.4	135.7	140.6	132.4	134.3	123.0	119.8	116.6	115.0
Shelby	85.0	145.8	130.5	124.7	119.9	94.5	126.8	128.1	133.7	117.8	81.2	117.9	104.6	87.4	126.9	119.0	66.2	80.0	77.3
Sioux	103.1	144.4	123.1	123.2	134.5	89.7	117.0	130.6	130.0	115.1	90.4	109.2	115.8	110.2	122.0	111.1	90.2	61.7	73.6
Story	78.0	161.7	122.9	116.3	126.9	85.3	145.1	135.6	127.1	119.5	114.3	131.9	129.5	126.5	139.6	116.5	32.4	106.6	101.6
Tama	81.4	135.9	113.4	122.4	100.9	89.9	137.0	131.7	123.6	121.1	108.7	125.0	124.4	114.2	132.8	116.7	86.7	99.1	99.8
Taylor	61.6	133.6	118.1	96.6	95.5	60.0	109.5	115.3	122.1	60.6	44.6	82.3	115.0	65.4	109.0	88.7	65.8	83.2	55.0
Union	53.3	129.7	124.8	111.0	103.0	67.3	115.9	108.5	125.4	81.5	64.0	90.4	116.7	80.7	108.8	92.5	40.3	94.5	63.5
Van Buren	56.7	135.8	96.0	109.3	65.0	40.4	99.9	109.8	116.8	107.1	30.0	105.5	103.3	93.1	115.5	94.5	45.8	90.3	84.5
Wapello	75.1	141.0	96.6	116.5	105.6	62.7	110.2	130.5	114.7	112.0	32.6	116.7	130.0	104.6	131.7	103.2	82.6	111.0	92.9
Warren	71.6	147.2	112.3	113.1	107.3	83.0	125.7	136.9	130.1	100.6	60.3	103.1	128.6	100.0	121.2	105.2	27.2	99.1	79.1
Washington	80.6	136.4	101.9	130.8	93.1	41.8	116.1	140.2	123.4	123.3	61.1	130.5	130.4	124.5	138.4	112.7	96.9	113.8	92.3
Wayne	41.4	110.0	97.6	95.0	76.0	44.9	109.9	117.5	119.4	73.8	22.7	79.9	111.7	95.3	111.5	100.8	53.7	94.2	75.2
Webster	83.0	163.1	122.0	125.0	149.9	94.1	144.8	143.3	135.2	107.9	111.0	130.6	141.7	127.0	140.4	128.5	84.3	97.3	96.2
Winnebago	67.7	147.6	108.9	139.6	129.2	118.6	139.4	142.6	130.5	117.6	98.0	123.2	130.0	115.5	125.4	121.3	107.2	88.8	91.7
Winneshiek	84.8	128.4	131.1	137.1	120.9	69.1	134.3	139.3	112.3	112.8	107.3	108.6	122.1	117.7	118.5	115.2	110.6	80.3	82.1
Woodbury	91.0	143.8	105.9	113.2	111.9	79.9	121.4	114.2	110.8	108.1	75.0	111.5	93.3	67.7	104.2	115.1	99.2	61.4	82.9
Worth	63.1	135.0	117.8	142.7	130.0	98.9	135.0	141.6	133.9	117.1	102.9	126.9	118.7	120.7	130.0	120.9	105.0	84.7	93.0
Wright	73.9	158.2	111.9	133.9	148.7	111.3	143.2	150.4	133.2	117.0	101.6	129.9	145.0	118.4	136.2	126.4	104.9	101.4	104.1
State of Iowa	80.0	147.0	117.0	126.0	118.0	84.0	130.0	135.0	126.0	112.0	87.0	120.0	125.0	110.0	127.0	115.0	86.0	91.0	90.0

Table 4. Estimated Acres (in 1,000s) of Soybeans Harvested for Grain in Iowa Counties, 1975-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	76	71	69	66	67	68	63	69	64	63	65	62	61	57	58	55	55	52	55
Adams	44	44	44	42	44	42	44	53	50	49	45	48	44	39	37	36	35	31	34
Allamakee	6	5	5	4	5	6	4	4	4	4	4	4	4	3	3	3	2	3	4
Appanoose	27	27	27	25	26	26	26	29	28	31	31	29	34	41	40	37	34	29	32
Audubon	74	72	73	68	72	70	68	71	68	73	64	62	56	54	54	49	42	36	41
Benton	137	134	134	126	132	130	122	129	126	126	127	129	117	114	115	110	100	93	97
Black Hawk	96	93	99	84	89	85	91	90	90	90	86	95	89	95	95	85	80	68	82
Boone	115	121	121	112	117	116	117	115	117	122	120	120	121	120	119	110	109	104	111
Bremer	64	62	62	53	55	54	55	61	56	56	57	60	64	75	74	64	64	51	57
Buchanan	80	78	75	68	75	70	68	66	61	67	66	76	82	93	94	78	73	62	76
Buena Vista	135	138	145	135	131	131	123	127	124	127	122	131	126	133	132	126	120	111	117
Butler	91	90	101	81	86	88	82	93	84	88	87	96	103	114	110	95	91	81	83
Calhoun	151	149	170	148	152	149	144	145	138	149	141	143	140	149	151	143	142	134	142
Carroll	120	118	114	111	115	117	110	104	97	103	102	108	103	103	101	92	91	81	86
Cass	89	86	87	85	87	84	80	78	76	75	78	81	72	70	68	63	63	61	61
Cedar	81	79	74	74	78	75	70	79	73	73	70	72	71	75	72	69	59	55	66
Cerro Gordo	107	99	112	99	103	100	101	120	112	118	109	115	110	112	114	110	103	94	97
Cherokee	112	113	109	103	106	106	96	103	97	96	93	96	95	96	95	88	84	71	77
Chickasaw	72	70	71	61	63	63	58	63	60	67	68	71	76	75	74	65	62	53	59
Clarke	21	26	27	25	26	25	27	32	32	34	34	33	28	32	31	29	24	22	24
Clay	114	128	129	123	128	130	120	131	125	128	116	125	120	128	127	119	114	106	112
Clayton	8	6	5	4	5	7	7	5	5	5	5	5	6	7	7	6	5	3	4
Clinton	76	78	75	73	77	65	66	76	71	72	65	66	67	69	70	64	57	46	54
Crawford	111	108	114	104	109	106	92	94	88	89	89	97	88	82	82	69	69	55	60
Dallas	107	108	108	101	108	104	102	108	109	109	108	118	112	106	108	98	92	88	95
Davis	27	29	30	28	31	33	36	44	42	43	44	41	41	51	50	44	40	34	34
Decatur	27	25	27	26	31	32	33	41	39	43	39	41	38	40	38	37	25	21	24
Delaware	34	32	28	28	29	28	25	27	25	25	24	25	28	33	30	26	25	22	27
Des Moines	60	61	58	53	58	51	48	48	46	47	49	55	48	57	55	50	45	43	50
Dickinson	71	75	81	71	73	74	73	73	72	73	73	80	78	84	81	76	73	70	71
Dubuque	7	6	5	5	5	5	4	3	3	3	3	3	3	2	2	2	1	2	3
Emmet	81	90	97	89	90	90	89	93	92	93	92	96	91	97	97	94	91	81	87
Fayette	78	77	75	68	68	70	71	77	74	77	72	76	80	88	86	76	70	56	65

Table 4. Estimated Acres (in 1,000s) of Soybeans Harvested for Grain in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	95	92	95	93	96	96	93	108	103	111	106	110	106	105	105	97	91	86	90
Franklin	121	116	144	116	124	122	117	139	128	129	121	124	116	124	127	116	113	98	104
Fremont	66	106	106	104	105	108	108	107	104	97	98	115	108	113	109	100	91	78	83
Greene	140	142	145	134	143	142	139	140	134	144	133	139	130	135	137	128	129	120	123
Grundy	121	117	123	110	107	104	108	120	117	120	107	105	101	105	107	100	89	84	88
Guthrie	76	79	80	75	79	77	73	72	69	76	73	74	70	66	66	64	64	57	61
Hamilton	131	134	145	128	131	131	127	127	126	131	129	144	141	147	144	134	129	126	129
Hancock	112	112	130	117	122	117	116	135	132	136	127	131	122	125	126	126	124	118	121
Hardin	113	113	124	106	112	111	110	119	115	122	107	115	109	111	113	101	94	87	99
Harrison	120	117	120	118	123	119	108	106	108	112	108	122	113	109	110	93	83	75	81
Henry	56	59	56	55	56	51	52	64	61	60	55	54	55	58	57	55	48	45	52
Howard	71	68	73	66	69	71	67	78	72	75	73	76	74	73	75	64	58	47	56
Humboldt	111	108	136	106	112	107	106	106	107	112	109	121	108	110	111	110	107	100	105
Ida	79	79	77	72	75	75	73	74	74	75	66	65	62	62	59	54	52	44	50
Iowa	52	51	46	45	52	49	46	56	51	50	42	47	43	46	45	40	37	33	39
Jackson	9	9	9	9	10	10	9	9	9	9	9	9	9	10	9	9	7	6	7
Jasper	96	101	103	94	104	102	105	113	104	106	97	101	90	88	85	80	72	70	75
Jefferson	55	54	56	54	60	54	57	70	66	65	57	60	58	57	57	54	52	48	51
Johnson	60	62	58	57	59	55	57	60	55	58	51	54	55	62	62	57	53	47	52
Jones	47	46	45	43	45	43	42	43	42	44	41	41	43	44	41	37	32	28	34
Keokuk	65	66	61	56	64	65	61	64	61	63	61	67	68	64	63	55	48	43	51
Kossuth	220	218	267	229	236	234	235	271	270	265	255	255	241	247	248	247	238	217	235
Lee	51	60	60	53	59	58	60	63	58	57	58	65	64	64	62	58	45	39	44
Linn	87	88	85	82	90	86	85	92	88	88	89	99	96	95	95	85	75	65	74
Louisa	58	61	57	54	59	54	53	58	53	55	51	56	52	50	49	47	47	43	52
Lucas	19	19	21	19	21	22	21	27	26	28	25	25	22	26	25	24	19	20	21
Lyon	113	117	115	113	120	113	109	112	114	119	105	108	105	102	99	82	77	71	74
Madison	57	54	56	52	54	54	49	57	56	60	52	59	57	57	55	51	48	44	43
Mahaska	73	80	78	71	80	81	75	83	76	72	74	77	79	77	77	72	65	61	67
Marion	58	59	59	55	60	57	55	58	53	56	54	55	54	56	53	52	42	39	43
Marshall	87	85	87	79	88	85	85	94	93	91	90	90	87	84	86	75	70	61	69
Mills	66	84	84	80	84	85	84	98	93	91	80	87	77	79	77	74	73	64	67
Mitchell	84	79	83	74	75	75	75	80	81	89	84	86	86	94	95	79	73	68	76

Table 4. Estimated Acres (in 1,000s) of Soybeans Harvested for Grain in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	105	112	116	109	110	112	101	109	106	109	102	104	100	100	97	90	85	74	78
Monroe	20	17	18	18	20	19	20	23	21	23	22	23	23	26	26	25	22	19	21
Montgomery	70	74	75	71	74	72	76	78	72	70	66	76	70	67	70	65	63	58	61
Muscatine	52	60	58	53	57	54	51	58	55	53	53	53	51	50	51	50	44	44	49
O'Brien	138	140	140	135	137	134	127	136	133	138	130	135	126	137	131	125	118	109	118
Osceola	97	102	103	99	106	101	94	94	93	101	94	99	98	103	99	89	84	77	80
Page	84	88	92	90	92	90	90	88	84	91	86	94	86	83	88	81	81	72	80
Palo Alto	115	126	156	126	135	133	132	134	131	139	129	136	135	146	145	136	132	125	132
Plymouth	151	148	152	143	147	136	130	131	126	132	117	126	127	119	112	97	91	78	83
Pocahontas	155	152	168	145	152	148	144	148	147	154	146	152	147	154	154	147	151	143	147
Polk	71	82	80	75	79	77	76	81	81	84	75	88	89	94	91	84	84	79	83
Pottawattamie	164	166	171	162	167	163	158	160	162	155	146	160	143	140	129	125	119	115	124
Poweshiek	80	79	78	72	80	79	80	89	81	79	78	78	71	70	70	64	57	54	61
Ringgold	33	36	40	40	42	43	44	55	52	57	55	59	51	52	50	49	38	34	38
Sac	128	126	131	119	125	123	122	124	117	124	109	120	110	109	109	100	97	85	92
Scott	51	49	46	48	49	41	40	47	42	42	40	38	38	42	42	39	38	33	39
Shelby	100	96	96	92	98	95	88	89	88	96	84	85	80	78	77	64	62	55	60
Sioux	137	143	138	129	137	127	121	121	117	125	111	111	101	104	100	86	77	66	71
Story	125	125	127	121	124	120	121	126	122	131	123	136	133	131	130	117	112	109	114
Tama	105	102	105	96	107	104	105	113	109	109	98	111	105	105	105	95	88	77	84
Taylor	57	54	57	53	56	58	63	74	69	67	65	67	63	57	59	56	47	40	46
Union	36	37	36	32	33	34	31	36	33	36	32	34	29	31	30	28	25	23	24
Van Buren	38	38	39	37	40	38	39	48	47	50	50	47	45	47	46	45	37	34	37
Wapello	42	48	48	45	46	45	46	46	45	47	48	52	52	54	53	46	46	42	46
Warren	53	54	57	49	53	52	50	51	49	53	54	61	53	56	56	54	38	38	43
Washington	76	78	72	69	74	73	70	70	69	70	63	72	68	72	71	64	57	55	66
Wayne	42	38	39	38	40	41	41	50	48	52	52	50	54	54	51	49	36	36	40
Webster	171	171	182	166	176	170	166	173	169	181	172	178	173	179	181	172	165	159	163
Winnebago	84	77	103	84	84	84	84	98	96	94	91	97	93	106	105	97	100	88	90
Winneshiek	23	20	19	16	18	20	18	18	17	17	18	19	18	18	19	16	15	12	15
Woodbury	107	102	106	94	96	93	91	93	90	96	86	101	92	88	82	74	71	60	68
Worth	79	74	80	71	72	72	73	85	82	85	83	91	85	92	92	82	78	73	78
Wright	148	141	171	141	147	142	142	160	161	160	156	162	153	165	160	151	144	139	140
State of Iowa	8200	8270	8630	7900	8280	8100	7900	8450	8150	8400	7960	8400	8050	8270	8170	7550	7080	6450	6970

Table 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	2298	2974	2920	2415	2573	1936	2771	2906	2529	1597	2290	2026	2639	2120	2010	1850	1713	1571	1536
Adams	1400	1925	1797	1606	1549	949	1794	2098	1923	954	1196	1390	1769	1370	1340	1120	1086	975	1009
Allamakee	204	158	212	185	199	175	158	161	123	127	154	132	146	130	120	110	80	81	106
Appanoose	708	973	834	825	726	610	972	1099	999	730	612	754	1051	1130	1350	1000	1048	805	916
Audubon	2478	3099	3255	2742	2955	2276	3049	2882	2703	2242	2367	2274	2434	1910	2020	1940	1382	1022	1298
Benton	4751	5893	5954	5718	5316	3159	5848	5680	4822	4292	4897	5100	4956	4730	4790	4430	3493	2973	3471
Black Hawk	3179	4434	4124	3812	3144	2332	4410	4068	3554	2787	3395	3588	3692	3950	3660	3230	2832	2092	2780
Boone	3612	5797	5044	4529	4851	2771	5426	4858	4647	4256	5014	4727	5091	5180	4800	4670	2602	3297	3977
Bremer	2045	2842	2634	2461	1867	1409	2492	2633	2178	1744	2181	2113	2182	2730	2590	2370	2383	1574	1810
Buchanan	2831	3387	3567	3087	2751	1914	3237	2882	2126	2060	2395	2733	3138	3710	3590	2970	2716	1982	2503
Buena Vista	3976	6400	5786	5588	5777	5074	5280	5331	4855	4005	3953	4901	5388	5410	4880	5180	5157	3048	4395
Butler	2617	4034	4021	3388	2906	2786	3680	3959	3183	2743	3220	3403	3843	4580	3850	3390	3157	2548	2652
Calhoun	4227	6961	6290	5948	6359	5521	6776	6031	5263	4625	5155	5497	5622	6440	5950	5760	4756	3889	4897
Carroll	3678	5497	4679	4545	4468	4352	4943	4647	3952	3447	3675	4047	4550	4210	4010	3840	2782	2408	3050
Cass	2658	3695	3671	3361	3443	2417	3381	3318	2867	1987	2738	2747	3009	2490	2580	2280	2249	1816	1879
Cedar	3035	3534	3674	3636	3675	2573	3267	3392	3290	2967	2835	3072	3306	3330	3170	2800	2524	2040	2545
Cerro Gordo	2508	4180	4213	4374	3258	3395	4376	4927	3837	3580	4021	4120	3759	4240	4140	3930	3832	3010	3235
Cherokee	4039	5264	5300	4702	4664	4540	4300	4673	3787	3435	3524	3735	4010	4070	3770	3690	3467	2185	2958
Chickasaw	1910	2945	2968	2626	2189	1583	2547	2406	1740	1895	2351	2207	2376	2490	2450	2280	2311	1358	1661
Clarke	449	987	948	843	742	646	937	934	1223	750	713	930	996	1050	930	920	714	666	650
Clay	2176	5491	5079	5471	5310	4624	5133	5052	4421	4127	4071	4366	4559	4790	4750	4390	4505	3142	3899
Clayton	275	252	240	192	215	167	321	197	178	183	171	177	216	260	240	210	213	104	133
Clinton	2884	3748	3514	3637	3554	1836	3098	3150	2963	2655	2444	2787	3104	3110	3130	2390	2468	1495	2011
Crawford	3957	4797	4766	4488	4050	4006	3711	4108	3251	2877	3183	3690	3426	2760	3010	2870	2329	1417	2149
Dallas	3695	4777	4460	4211	4536	2553	4686	4452	3898	3513	3886	4665	5056	4450	4230	3430	2791	2653	2871
Davis	808	1206	1055	1004	737	811	1243	1584	1526	1121	796	1121	1375	1590	1790	1360	1217	984	988
Decatur	561	950	1020	813	833	599	1244	1579	1388	863	627	1191	1410	1240	1190	1130	761	652	668
Delaware	1250	1404	1317	1246	1210	718	1221	1232	878	741	768	932	1131	1360	1180	990	1004	685	887
Des Moines	2252	2683	2424	2406	2204	1726	1870	2066	1918	1676	1743	2188	2021	2230	2290	1880	1796	1541	1869
Dickinson	1131	3016	3181	2948	2988	2485	3014	2885	2405	2324	2501	2756	2880	3340	2880	2850	2460	1835	2236
Dubuque	242	249	217	212	216	140	196	134	106	124	91	105	122	110	90	65	55	61	90
Emmet	1139	3912	3433	3981	3766	3161	3993	4000	3337	2793	3439	3527	3549	4000	3100	3670	3531	2432	3054
Fayette	2517	3319	3418	3018	2852	2118	3339	3259	2829	2551	2628	2613	2946	3580	3050	2800	2624	1802	2070

Table 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	2796	3980	3816	4175	2669	2867	3997	4238	3462	3527	3812	3668	3423	3630	3470	3500	3443	2551	2652
Franklin	3068	5140	5279	4686	4995	4117	5279	6014	4952	4414	4635	4671	4137	4960	4850	4280	3979	3412	3934
Fremont	2187	4730	4414	3727	3406	3544	4257	4791	4191	2291	3482	3719	4620	4190	4100	3220	3107	2562	2603
Greene	4360	6790	5796	5360	5740	3964	6549	5975	5513	4985	5266	5473	5753	5680	5600	5510	3278	3581	4442
Grundy	4188	5550	5319	4847	4301	3653	5467	5509	4857	4091	4601	4326	4270	4570	4430	4220	3383	3036	3509
Guthrie	2358	3471	3290	2977	3049	2230	3155	2876	2567	2212	2552	2720	2938	2390	2360	2360	2022	1528	1799
Hamilton	3409	6195	5836	5024	6005	3184	5508	5279	5065	4480	4840	5351	6204	5880	5840	5240	3759	4132	4469
Hancock	2723	4739	4459	4757	4492	4166	5012	5558	4662	4303	4639	4861	4483	4890	4370	4590	4644	3998	4200
Hardin	3264	5296	4858	4801	4459	2955	5208	5332	4780	4477	4357	4361	4369	4510	4580	4130	3188	2770	3583
Harrison	4049	4970	4480	4332	3898	3436	4393	4246	4489	2843	3498	4402	4434	3600	3940	3600	3143	2021	2850
Henry	2148	2664	2482	2288	2069	1622	2042	2692	2509	2108	1754	2107	2336	2270	2400	2080	1964	1624	1977
Howard	1532	2323	2818	2653	2554	1689	2803	2770	1950	2198	2367	2239	2513	2490	2390	2160	2137	1141	1172
Humboldt	2902	4959	4927	4815	5182	3709	4915	4245	4008	3859	3949	4721	4481	4290	4020	4160	3875	3293	3994
Ida	3026	3550	3302	3106	3089	2951	2975	3371	2958	2543	2339	2497	2543	2130	2270	2260	2094	1255	1860
Iowa	1678	2116	1965	1814	1927	1089	2092	2212	2061	1727	1429	1697	1809	1760	1760	1320	1279	1068	1292
Jackson	325	374	414	398	413	237	394	362	309	280	319	346	375	430	360	290	255	164	218
Jasper	3350	4589	4469	4187	4151	3197	4923	4539	4147	3511	3863	3882	3966	3750	3380	3070	2511	2391	2577
Jefferson	1848	2263	2269	2055	2032	1295	2185	2611	2494	2110	1490	2010	2235	2160	2150	1860	1849	1598	1629
Johnson	1889	2564	2384	2519	2404	1466	2296	2323	2106	1873	1714	2053	2432	2480	2530	2040	2041	1659	1789
Jones	1677	1972	2182	2054	1712	1022	1956	1847	1602	1556	1456	1682	1903	1890	1740	1440	1296	856	1236
Keokuk	2362	2786	3009	2343	2372	1698	2706	2604	2459	2040	1814	2569	2863	2740	2490	1980	1824	1429	1661
Kossuth	4655	9180	8436	9667	9671	8762	10656	11440	10244	8669	9603	9655	8689	10130	8440	8700	8601	7348	8591
Lee	1804	2696	2210	1848	1654	1616	2054	2421	2308	1886	1626	2477	2355	2380	2480	1910	1681	1207	1467
Linn	2798	3752	3693	3558	3502	1939	3845	3763	3206	2871	2853	3830	4165	3900	3860	3220	2838	2064	2498
Louisa	2026	2729	2387	2394	2165	1444	1908	2296	2018	2065	1619	2183	2197	2120	1960	1680	1720	1409	1731
Lucas	452	706	734	617	608	612	808	945	979	549	622	688	793	780	790	670	538	551	575
Lyon	2890	4760	5002	4139	4817	3725	4638	4465	4071	4163	3754	3946	4232	3890	3840	3370	3152	1981	2724
Madison	1536	2356	2227	1953	2092	1325	2125	2360	1887	1378	1627	1889	2372	2200	1880	1730	1286	1378	1220
Mahaska	2712	3474	3590	3088	3127	2346	3287	3477	3155	2200	2572	2972	3247	3220	2980	2580	2550	2071	2242
Marion	1921	2607	2451	2253	2127	1930	2421	2336	2117	1520	1772	1877	2309	2200	1980	1810	1310	1244	1442
Marshall	3030	4010	3897	3609	3855	2343	4318	4247	3889	3233	3861	3520	3832	3700	3490	3110	2003	2070	2523
Mills	2065	3644	3544	3140	2740	2332	3268	4093	3525	2150	2740	2967	3009	2970	2880	2720	2686	1972	2623
Mitchell	1797	3148	3514	3233	2824	2164	3277	3232	2568	2741	3052	2921	2690	2710	3010	2910	2760	1734	2153

Table 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	3424	4968	3590	4004	4183	3563	3968	4360	3900	2733	2657	3790	3719	2660	3290	3200	3229	1655	2600
Monroe	538	691	692	604	556	446	787	838	697	543	520	606	819	890	890	700	690	578	593
Montgomery	2145	3286	3121	2709	2716	2028	2874	3277	2630	1541	1859	2426	2736	2400	2620	2300	2175	1680	1937
Muscatine	1837	2535	2142	2336	2296	1504	1989	2331	2120	1876	1879	2018	2185	2110	1960	1770	1637	1506	1756
O'Brien	3097	6181	6546	5737	6069	5754	5597	5649	4894	4986	4789	4682	5139	5400	5230	4850	4778	3711	4370
Osceola	1761	4105	4608	4084	4236	3774	4109	3526	3081	3630	3332	3609	3462	4040	3550	3560	3368	2220	2855
Page	2545	3817	3624	3310	3001	2028	3353	3771	3257	1859	2722	2835	3418	2600	3150	2320	2665	2290	2269
Palo Alto	2094	5596	4997	5699	5392	4761	5810	5609	4709	4174	4396	5102	5138	5600	4660	5220	4806	3929	4446
Plymouth	6025	6528	6900	6460	5725	4368	5610	5653	5030	4706	3997	4833	5087	4330	4710	4070	3333	2100	2945
Pocahontas	3788	6889	5998	5453	6554	5423	5586	5949	5819	4853	4772	5823	5960	5890	5070	6230	5744	4237	5404
Polk	2345	3679	3240	3031	3229	1981	3536	3276	2859	2617	2809	3388	3864	3810	3430	3100	2528	2445	2489
Pottawattamie	5805	7400	7251	6624	5320	4477	6492	7047	6449	4727	5177	5938	5961	5025	4785	4910	4589	3487	4008
Poweshiek	2615	3367	3481	3091	3073	1940	3685	3471	3171	2697	2944	2951	3097	2870	2720	2340	2038	1824	2060
Ringgold	781	1427	1408	1151	1344	988	1604	1951	1969	1277	1193	1534	1973	1760	1530	1450	1173	1064	1051
Sac	4735	5906	5082	4954	5300	4852	5366	5542	4581	3888	3746	4475	4564	3870	4130	3740	3603	2202	3141
Scott	2101	2322	2350	2308	2303	1475	1930	2181	1903	1775	1655	1638	1764	1870	1790	1560	1568	1258	1575
Shelby	3532	4197	4288	3871	3809	2918	3796	3955	3576	3001	3046	3269	3425	2840	3070	2690	2269	1628	2109
Sioux	4799	6418	6715	5722	6210	5180	5495	5430	4770	4787	4109	4276	4373	4230	4280	3600	3074	2051	2598
Story	3873	5861	5114	4968	5151	2898	5734	5046	4525	4309	4891	5248	5879	5530	5090	4860	2473	3545	3946
Tama	3596	4474	4582	4214	4114	3597	5056	4991	4120	3628	4030	4138	4539	4520	4200	3890	3216	2566	3080
Taylor	1612	2134	1981	1532	1638	1149	2192	2663	2745	1384	1480	1794	2340	1710	1960	1530	1376	1143	1154
Union	933	1438	1464	1224	1120	773	1253	1236	1227	722	879	943	1172	1070	940	820	730	732	687
Van Buren	1177	1541	1461	1237	1127	918	1398	1719	1681	1552	1231	1506	1488	1470	1550	1350	1069	1039	1160
Wapello	1445	2080	2041	1623	1620	1293	1866	1815	1687	1250	1260	1722	2093	2140	2040	1520	1680	1447	1464
Warren	1323	2463	2144	1941	1807	1562	2092	2055	1749	1437	1690	1846	2186	2090	1960	1800	1118	1123	1237
Washington	2883	3343	3509	3075	2941	2121	3064	2981	2903	2615	2389	2945	3085	3240	2980	2370	2180	1978	2316
Wayne	998	1332	1338	1110	1118	952	1542	1908	1661	1046	936	1311	1775	1710	1660	1490	1138	988	1130
Webster	4453	7805	7330	6350	7925	4751	7443	7343	6569	6202	6547	7012	7766	7660	7220	7340	5750	5026	5811
Winnebago	1788	2988	3392	3398	3035	2900	3274	3685	3079	2962	3013	3351	2597	3530	3260	2900	3710	2809	2956
Winneshiek	675	687	797	698	678	510	767	724	524	520	625	588	639	700	640	550	535	328	401
Woodbury	3581	4474	3570	3684	3914	2823	3666	3610	3405	2516	2365	3731	3330	2700	2960	2690	2621	1479	2317
Worth	1762	2841	2889	3038	2847	2384	3092	3351	2676	2734	3039	3152	2386	2870	3400	3100	2755	2044	2357
Wright	3619	6241	6402	6175	6585	5018	6194	6680	5927	5429	5712	6226	6312	6280	6100	5790	5488	4597	5270
State of Iowa	246000	363880	349515	327850	322920	251100	343650	350675	309700	264600	278600	306600	322000	318395	306375	283125	251340	199950	236980

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	30.4	42.0	42.4	36.7	38.4	28.6	43.9	42.0	39.5	25.4	35.1	32.7	43.0	37.5	34.5	33.6	31.4	30.3	27.7
Adams	32.0	43.9	40.8	38.5	35.5	22.6	40.8	40.0	38.5	19.6	26.9	29.3	40.1	35.2	35.8	31.1	31.0	31.8	29.9
Allamakee	34.6	32.9	43.3	42.0	42.3	29.7	43.9	38.3	32.4	30.2	37.6	33.0	38.4	38.2	36.4	36.7	38.1	27.0	28.6
Appanoose	26.5	36.0	31.0	33.0	28.0	23.4	38.0	37.6	35.8	23.5	20.0	26.0	31.4	27.6	33.7	27.0	30.7	27.4	28.4
Audubon	33.6	43.1	44.9	40.1	40.9	32.3	44.8	40.8	39.8	30.7	36.9	36.7	43.8	35.4	37.5	39.6	33.3	28.2	31.5
Benton	34.7	44.1	44.6	45.4	40.3	24.2	47.8	43.9	38.2	34.2	38.6	39.7	42.4	41.3	41.5	40.3	35.1	31.9	35.7
Black Hawk	33.1	47.7	41.7	45.3	35.4	27.4	48.5	45.3	39.3	31.1	39.7	37.8	41.7	41.8	38.5	38.0	35.5	30.7	33.9
Boone	31.5	48.0	41.7	40.3	41.5	24.0	46.5	42.3	39.9	35.0	41.8	39.5	42.0	43.1	40.3	42.5	24.0	31.6	35.9
Bremer	31.9	45.9	42.6	46.9	34.2	26.0	45.3	43.2	39.2	31.0	38.2	35.3	34.2	36.3	35.1	37.0	37.4	30.9	31.8
Buchanan	35.2	43.5	47.3	45.4	36.8	27.4	47.7	43.9	34.6	31.0	36.2	36.2	38.1	39.8	38.1	38.1	37.2	32.1	32.8
Buena Vista	29.4	46.5	39.8	41.4	44.2	38.9	43.0	42.0	39.3	31.5	32.5	37.3	42.6	40.7	36.9	41.1	43.2	27.6	37.7
Butler	28.9	44.9	40.0	41.6	33.9	31.5	45.0	42.5	37.8	31.3	37.1	35.5	37.4	40.1	35.0	35.7	34.7	31.5	32.1
Calhoun	27.9	46.8	37.0	40.2	41.8	37.0	46.9	41.7	38.0	31.1	36.5	38.3	40.1	43.3	39.5	40.3	33.4	29.0	34.5
Carroll	30.8	46.7	41.0	40.8	38.9	37.4	45.1	44.5	40.7	33.4	36.1	37.5	44.2	40.8	39.6	41.7	30.7	29.6	35.6
Cass	30.0	43.2	42.1	39.4	39.8	28.7	42.5	42.5	37.8	26.7	35.2	33.8	42.0	35.4	38.2	36.2	35.9	29.8	30.8
Cedar	37.5	44.5	50.0	49.0	46.9	34.5	46.7	42.9	45.0	40.6	40.4	42.8	46.9	44.4	43.8	40.6	42.5	37.0	38.4
Cerro Gordo	23.4	42.4	37.5	44.0	31.5	34.1	43.5	41.2	34.2	30.2	37.0	35.9	34.2	37.8	36.4	35.7	37.1	32.1	33.2
Cherokee	36.2	46.7	48.6	45.5	44.0	43.0	44.7	45.4	39.2	35.9	37.9	38.9	42.4	42.2	39.8	41.9	41.3	30.8	38.6
Chickasaw	26.4	42.3	42.1	42.8	34.9	25.0	43.7	38.3	29.0	28.5	34.7	31.1	31.1	33.1	33.2	35.1	37.2	25.6	28.1
Clarke	21.0	38.3	34.9	34.3	28.4	25.8	35.1	29.3	38.3	21.8	21.2	27.8	35.2	32.5	30.2	31.7	30.1	29.9	26.7
Clay	19.1	43.0	39.4	44.3	41.5	35.7	43.0	38.6	35.5	32.2	35.1	35.0	37.9	37.4	37.4	36.9	39.5	29.8	34.8
Clayton	34.8	42.0	45.3	43.6	43.9	24.2	45.9	38.6	37.1	35.2	33.5	34.0	37.2	36.6	34.3	35.0	42.6	30.6	31.7
Clinton	38.0	48.1	47.2	49.8	46.2	28.1	46.8	41.3	41.6	36.7	37.4	42.0	46.7	45.1	44.5	37.3	43.7	32.9	37.6
Crawford	35.6	44.5	42.0	43.2	37.2	38.0	40.3	43.8	36.9	32.5	35.7	38.1	39.0	33.7	36.6	41.6	33.7	25.8	35.6
Dallas	34.5	44.1	41.2	41.7	42.0	24.6	46.1	41.2	35.6	32.1	36.0	39.7	45.3	42.1	39.2	35.0	30.3	30.0	30.3
Davis	29.5	41.7	35.8	35.4	24.0	24.6	34.4	35.7	36.2	26.1	17.9	27.4	33.7	31.3	35.5	30.9	30.2	28.6	28.8
Decatur	21.0	38.0	37.2	31.4	27.2	19.0	38.2	39.0	35.7	20.2	16.1	28.8	37.1	31.1	31.5	30.5	30.9	30.5	27.9
Delaware	36.5	44.0	46.9	45.3	41.4	26.0	49.0	45.1	35.1	30.0	32.0	37.6	40.4	41.5	38.9	38.1	40.2	31.9	33.0
Des Moines	37.7	44.1	41.9	45.1	38.0	34.2	39.2	43.2	41.7	35.8	35.9	40.0	41.9	39.4	41.3	37.6	39.9	35.9	37.2
Dickinson	16.0	40.3	39.5	41.5	40.7	33.6	41.3	39.3	33.5	31.7	34.1	34.5	37.1	40.0	35.7	37.5	33.9	26.3	31.3
Dubuque	35.1	41.5	45.2	47.1	40.0	26.9	49.0	44.7	36.6	40.0	33.7	37.5	43.6	45.8	39.1	32.5	39.3	26.5	33.3
Emmet	14.1	43.6	35.2	44.6	41.7	35.0	45.0	42.8	36.1	30.0	37.4	36.9	38.8	41.1	32.0	39.0	38.7	30.0	34.9
Fayette	32.3	43.2	45.5	44.7	41.8	30.1	47.1	42.4	38.3	33.0	36.6	34.4	37.0	40.7	35.4	36.8	37.8	32.1	31.7

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	29.4	43.4	40.0	44.8	27.7	29.9	43.1	39.3	33.6	31.9	36.0	33.4	32.4	34.5	33.2	36.1	37.8	29.6	29.6
Franklin	25.3	44.4	36.7	40.5	40.3	33.7	45.2	43.4	38.6	34.2	38.4	37.6	35.7	39.9	38.3	36.9	35.4	35.0	37.7
Fremont	33.1	44.7	41.6	35.8	32.3	32.7	39.6	44.9	40.5	23.6	35.6	32.5	42.8	37.0	37.8	32.2	34.3	33.1	31.2
Greene	31.3	47.9	40.1	40.0	40.2	27.8	47.0	42.7	41.1	34.7	39.7	39.5	44.4	41.9	41.0	43.0	25.5	29.8	36.1
Grundy	34.5	47.5	43.4	44.2	40.2	35.3	50.8	46.0	41.7	34.2	43.0	41.4	42.4	43.6	41.5	42.2	38.0	36.3	39.7
Guthrie	31.2	44.0	41.3	39.9	38.7	28.9	43.5	40.0	37.0	29.1	35.2	36.7	41.9	36.4	35.6	36.9	31.4	26.6	29.3
Hamilton	26.0	46.3	40.1	39.1	45.9	24.4	43.5	41.5	40.2	34.1	37.5	37.1	44.0	40.1	40.7	39.1	29.1	32.7	34.8
Hancock	24.3	42.4	34.2	40.5	36.8	35.5	43.1	41.2	35.2	31.7	36.7	37.0	36.9	39.3	34.8	36.4	37.5	34.0	34.7
Hardin	28.9	47.0	39.2	45.4	39.9	26.7	47.5	44.9	41.7	36.6	40.7	38.1	40.2	40.5	40.6	40.9	33.8	31.9	36.3
Harrison	33.7	42.6	37.3	36.6	31.8	29.0	40.9	40.0	41.7	25.4	32.3	36.2	39.2	32.9	35.8	38.7	37.9	27.0	35.2
Henry	38.5	45.2	44.2	41.8	36.7	32.0	39.0	42.1	41.1	35.4	31.7	39.2	42.3	39.3	42.2	37.8	41.0	36.4	37.7
Howard	21.6	34.0	38.6	40.5	37.2	23.9	42.0	35.4	27.2	29.2	32.5	29.6	34.2	34.1	32.1	33.8	36.8	24.2	20.8
Humboldt	26.1	46.0	36.3	45.3	46.3	34.8	46.5	40.2	37.3	34.4	36.1	39.2	41.5	38.9	36.2	37.8	36.1	32.8	38.2
Ida	38.1	45.0	43.1	43.1	41.1	39.4	40.8	45.6	39.9	34.0	35.5	38.7	41.3	34.1	38.5	41.9	40.5	28.3	37.3
Iowa	32.1	41.7	43.0	40.5	37.3	22.3	45.4	39.7	40.3	34.3	34.3	36.3	41.9	38.3	39.2	33.0	34.5	32.7	33.0
Jackson	37.8	42.0	47.0	45.2	40.1	23.5	43.8	38.5	36.4	32.6	37.5	37.6	42.1	43.4	38.7	32.2	37.0	29.3	32.5
Jasper	34.8	45.5	43.5	44.6	40.0	31.5	46.8	40.3	40.1	33.2	39.7	38.5	43.9	42.6	39.7	38.4	34.9	34.2	34.5
Jefferson	33.8	42.0	40.4	38.0	34.0	24.0	38.3	37.6	38.1	32.6	26.1	33.5	38.3	37.8	38.0	34.4	35.7	33.2	32.0
Johnson	31.3	41.5	41.4	44.6	40.5	26.6	40.6	38.9	38.6	32.5	33.5	37.9	44.0	40.2	41.1	35.8	38.9	35.1	34.7
Jones	35.4	43.2	48.5	48.1	38.2	23.5	46.6	43.0	38.5	35.4	35.7	41.0	44.6	43.2	42.2	38.9	40.9	30.6	36.8
Keokuk	36.2	42.5	49.2	42.0	37.1	26.0	44.3	41.0	40.4	32.5	29.6	38.2	42.4	42.7	39.3	36.0	38.4	33.3	32.3
Kossuth	21.2	42.2	31.5	42.3	41.0	37.4	45.3	42.2	38.0	32.8	37.6	37.8	36.0	41.0	34.0	35.2	36.2	33.9	36.6
Lee	35.3	45.0	37.0	34.6	27.9	28.1	34.0	38.4	39.9	33.2	28.2	37.9	37.1	37.5	39.9	32.9	37.6	31.1	33.1
Linn	32.1	42.9	43.4	43.4	38.9	22.4	45.1	41.1	36.3	32.5	32.1	38.6	43.5	41.0	40.7	37.9	37.8	31.8	33.8
Louisa	35.1	44.8	41.7	44.4	37.0	26.6	36.1	39.3	38.1	37.6	31.6	39.0	42.4	42.4	39.9	35.7	36.9	32.9	33.6
Lucas	23.3	37.6	34.8	32.3	28.4	28.3	37.8	35.7	37.8	19.8	25.3	27.3	35.6	30.4	32.2	27.9	28.8	28.3	27.6
Lyon	25.7	40.8	43.6	36.5	40.2	33.1	42.4	39.9	35.8	35.0	35.9	36.7	40.4	38.2	38.8	41.1	40.8	28.0	36.7
Madison	27.0	44.0	39.6	37.8	38.6	24.6	43.3	41.3	34.0	23.2	31.4	32.1	41.5	38.8	34.2	33.9	26.9	31.1	28.6
Mahaska	37.0	43.7	45.8	43.3	39.2	28.9	43.8	41.7	41.3	30.6	34.6	38.4	41.2	41.9	38.8	35.8	39.0	34.0	33.7
Marion	33.1	44.6	41.8	41.1	35.7	33.7	43.8	40.6	40.2	27.3	32.9	34.1	42.6	39.3	37.5	34.8	31.5	32.0	33.2
Marshall	34.8	47.2	44.9	45.7	43.9	27.5	50.8	45.0	41.6	35.4	43.0	39.1	44.1	43.9	40.7	41.5	28.8	34.2	36.7
Mills	31.2	43.5	42.2	39.1	32.6	27.4	38.8	41.8	38.0	23.7	34.2	34.1	38.9	37.4	37.6	36.8	36.7	31.0	39.2
Mitchell	21.4	39.9	42.2	43.6	37.8	29.0	43.7	40.3	31.9	30.9	36.4	34.0	31.5	29.0	31.8	36.8	37.7	25.7	28.3

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	32.6	44.4	31.0	36.6	38.2	32.0	39.5	40.1	37.0	25.0	26.2	36.4	37.3	26.5	34.0	35.6	38.2	22.5	33.4
Monroe	27.4	41.1	38.0	33.4	28.5	23.2	39.5	36.9	34.0	23.9	23.7	26.0	36.2	33.8	34.1	28.0	31.7	29.8	28.4
Montgomery	30.5	44.5	41.9	38.2	36.5	28.4	38.0	41.9	36.7	21.9	28.3	31.9	39.4	35.6	37.5	35.4	34.4	29.2	31.5
Muscatine	35.5	42.4	37.0	44.1	40.0	28.0	39.0	40.5	38.6	35.3	35.5	38.1	43.0	42.2	38.8	35.4	36.9	34.5	35.8
O'Brien	22.5	44.2	46.7	42.4	44.4	43.1	44.2	41.6	36.9	36.1	36.8	34.6	40.7	39.6	39.9	38.8	40.4	34.0	37.2
Osceola	18.2	40.3	44.7	41.2	40.0	37.5	43.6	37.6	33.3	35.9	35.4	36.6	35.4	39.4	36.0	40.0	40.2	29.0	35.6
Page	30.3	43.5	39.3	36.9	32.8	22.5	37.2	43.1	39.0	20.5	31.7	30.3	40.0	31.2	35.9	28.6	32.7	31.8	28.3
Palo Alto	18.3	44.5	32.0	45.2	40.0	35.9	44.2	42.0	36.1	30.1	34.0	37.6	38.0	38.4	32.1	38.4	36.4	31.4	33.7
Plymouth	39.9	44.2	45.3	45.3	39.0	32.0	43.1	43.3	39.8	35.8	34.2	38.5	40.2	36.5	42.2	42.0	36.8	26.9	35.7
Pocahontas	24.4	45.3	35.7	37.5	43.1	36.5	38.7	40.2	39.5	31.5	32.8	38.4	40.4	38.3	32.9	42.4	38.1	29.7	36.8
Polk	33.3	44.9	40.4	40.3	40.8	25.7	46.3	40.4	35.4	31.0	37.3	38.3	43.3	40.5	37.9	36.9	30.3	31.1	30.0
Pottawattamie	35.3	44.5	42.4	40.9	32.0	27.4	41.1	44.1	39.8	30.5	35.4	37.2	41.7	35.9	37.2	39.3	38.7	30.3	32.5
Poweshiek	32.9	42.7	44.8	43.1	38.5	24.5	46.2	39.1	39.1	34.0	37.7	37.8	43.7	41.0	39.1	36.6	35.6	33.7	33.6
Ringgold	23.7	39.9	35.0	28.9	32.3	22.9	36.5	35.2	37.6	22.3	21.5	26.0	39.0	33.6	30.7	29.6	31.0	31.7	28.0
Sac	36.9	47.0	38.8	41.5	42.5	39.3	43.9	44.9	39.3	31.4	34.5	37.4	41.7	35.4	38.1	37.4	37.1	25.8	34.3
Scott	41.5	47.6	50.6	48.1	47.4	35.9	47.8	46.9	45.1	42.3	41.9	43.0	45.9	44.2	42.9	40.0	41.4	38.4	40.7
Shelby	35.3	43.8	44.9	41.9	39.1	30.9	42.9	44.7	40.9	31.3	36.3	38.5	43.0	36.5	39.9	42.0	36.9	29.8	35.3
Sioux	35.0	45.0	48.8	44.4	45.4	40.7	45.6	44.9	40.9	38.2	37.1	38.5	43.5	40.5	42.9	41.9	40.0	30.9	36.9
Story	31.0	47.0	40.3	41.1	41.6	24.1	47.5	40.1	37.2	32.8	39.8	38.6	44.2	42.2	39.1	41.5	22.2	32.6	34.6
Tama	34.2	44.0	43.8	44.0	38.4	34.8	48.3	44.4	37.7	33.4	41.3	37.4	43.4	42.9	39.8	40.9	36.5	33.4	36.7
Taylor	28.1	39.2	34.8	29.1	29.2	19.9	35.0	35.9	40.0	20.5	22.8	26.9	37.4	30.0	33.4	27.3	29.5	28.4	25.3
Union	25.7	39.2	40.9	38.6	33.6	23.1	40.7	34.2	37.3	20.0	27.7	27.9	41.0	35.0	31.4	29.3	28.9	32.0	28.2
Van Buren	31.0	40.8	37.2	33.8	28.5	24.4	36.0	36.0	36.0	30.8	24.8	31.8	32.8	31.3	33.8	30.0	29.2	31.0	31.1
Wapello	34.5	43.4	42.7	36.3	34.9	28.7	40.5	39.9	37.7	26.4	26.5	33.2	40.2	39.4	38.6	33.0	36.2	34.1	32.1
Warren	25.2	45.4	37.5	39.7	34.4	30.1	41.8	40.6	35.8	27.3	31.6	30.5	41.0	37.4	35.3	33.3	29.1	29.9	29.0
Washington	37.8	42.9	48.9	44.8	39.9	29.0	44.1	42.6	42.0	37.4	37.9	41.1	45.2	44.9	42.1	37.0	38.4	36.2	35.3
Wayne	24.0	35.2	34.1	28.9	27.8	23.2	38.0	37.9	34.9	20.0	18.0	26.0	32.6	31.5	32.7	30.4	31.4	27.7	28.3
Webster	26.1	45.7	40.3	38.3	45.1	27.9	44.9	42.5	38.9	34.2	38.2	39.4	44.9	42.7	40.0	42.7	34.8	31.6	35.8
Winnebago	21.2	38.9	32.8	40.6	36.0	34.5	39.2	37.7	32.2	31.4	33.2	34.6	28.1	33.2	31.1	29.9	37.2	32.0	33.0
Winneshiek	30.0	34.5	41.5	43.4	37.7	25.6	43.6	39.8	31.4	29.9	35.1	31.6	36.5	38.7	34.6	34.4	35.2	26.7	26.4
Woodbury	33.6	43.9	33.8	39.4	40.9	30.3	40.5	38.7	38.0	26.2	27.5	37.1	36.3	30.9	36.1	36.4	37.0	24.8	34.0
Worth	22.4	38.5	36.3	42.8	39.5	33.0	42.5	39.2	32.5	32.3	36.6	34.8	28.0	31.3	36.9	37.8	35.5	28.0	30.1
Wright	24.5	44.4	37.4	43.7	44.8	35.3	43.7	41.8	36.8	34.0	36.6	38.5	41.3	38.2	38.2	38.3	38.0	33.2	37.8
State of Iowa	30.0	44.0	40.5	41.5	39.0	31.0	43.5	41.5	38.0	31.5	35.0	36.5	40.0	38.5	37.5	37.5	35.5	31.0	34.0

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). The low point occurred in 1976, when 6.5 million acres of soybeans were harvested; 8.6 million acres were harvested in 1991, which was at least 180,000 acres more than any other year. In 1993, about 8.2 million acres of soybeans were harvested.

The greatest number of bushels of soybeans was harvested in 1992 when nearly 364 million bushels were produced (Table 5). That exceeded the previous record of nearly 351 million reported in 1986. The 1993 yield of 246 million bushels was smaller than all but the harvests in 1975 and 1976. Of the 19 years noted in Table 5, only in 1976 were fewer than 200 million bushels produced; harvests topped 300 million bushels during 1979-1993 all years except four (1983, 1984, 1988, 1993).

The record number of bushels produced in 1992 provided a record yield per acre as well (Table 6, Figure 2). The average number of bushels of soybeans harvested per acre was 44 that year, which was a half bushel higher than the previous record of 43.5 in 1987. Yields in 1993 averaged 30 bushels per acre, which was the lowest reported during these 19 years. Three other years (1976, 1984, 1988) also had yields of less than 32 bushels per acre. As with corn, the 1992-1993 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 1993 was at least 35.0 bushels per acre in 24 counties (Figure 4), with Scott the only one reporting at least 40 bushels per acre. Twenty counties harvested fewer than 25.0 bushels of soybeans per acre in 1993, although only five (Clay, Dickinson, Emmet, Osceola, Palo Alto) had yields below 20 bushels per acre.

Concluding Comment

The number of acres of corn harvested for grain surpasses that of soybeans in each year reported (Tables 1, 4; Figure 1). The margin ranges from 590,000 acres in 1983 to more than six million in 1976. Differences vary from 4.5 to 5.8 million acres in 11 of the 19 years examined. In six of the eight most recent years, however, corn acreage harvested for grain has exceeded that for soybeans by fewer than four million acres.

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 1990-1993 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. Acres of corn and soybeans harvested for grain in Iowa, 1975-1993.

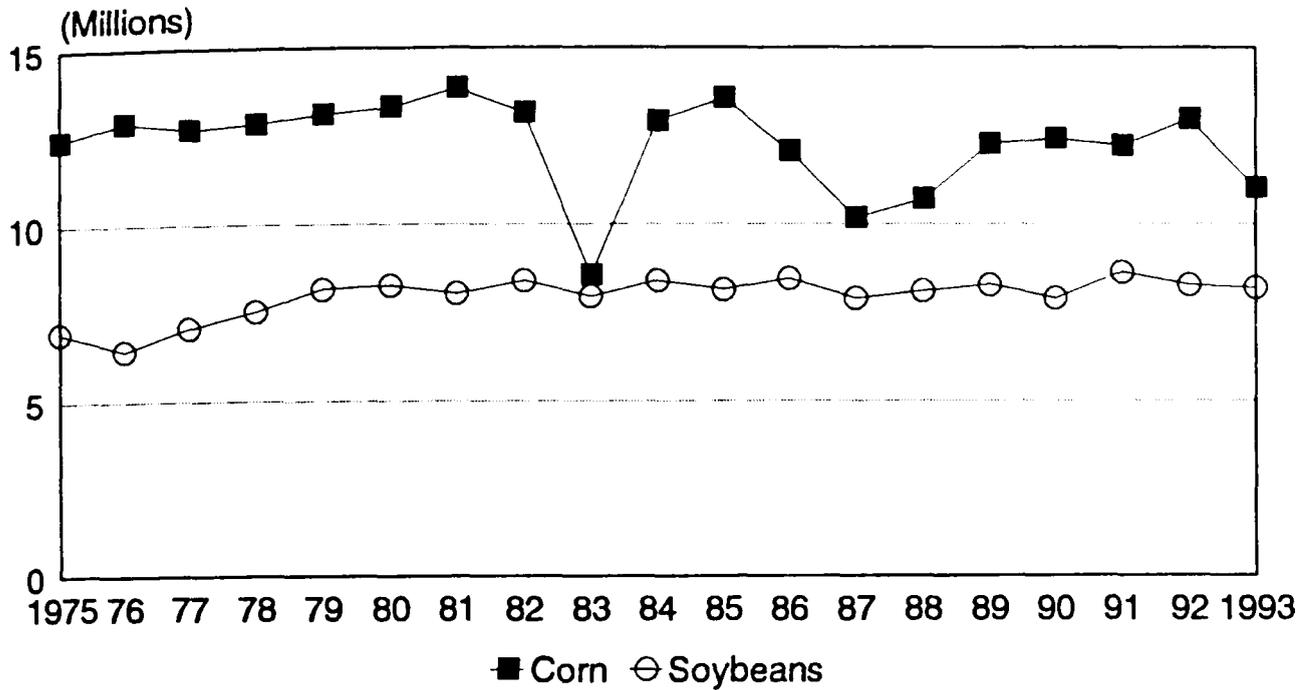


Figure 2. Bushels of corn and soybeans per acre in Iowa, 1975-1993.

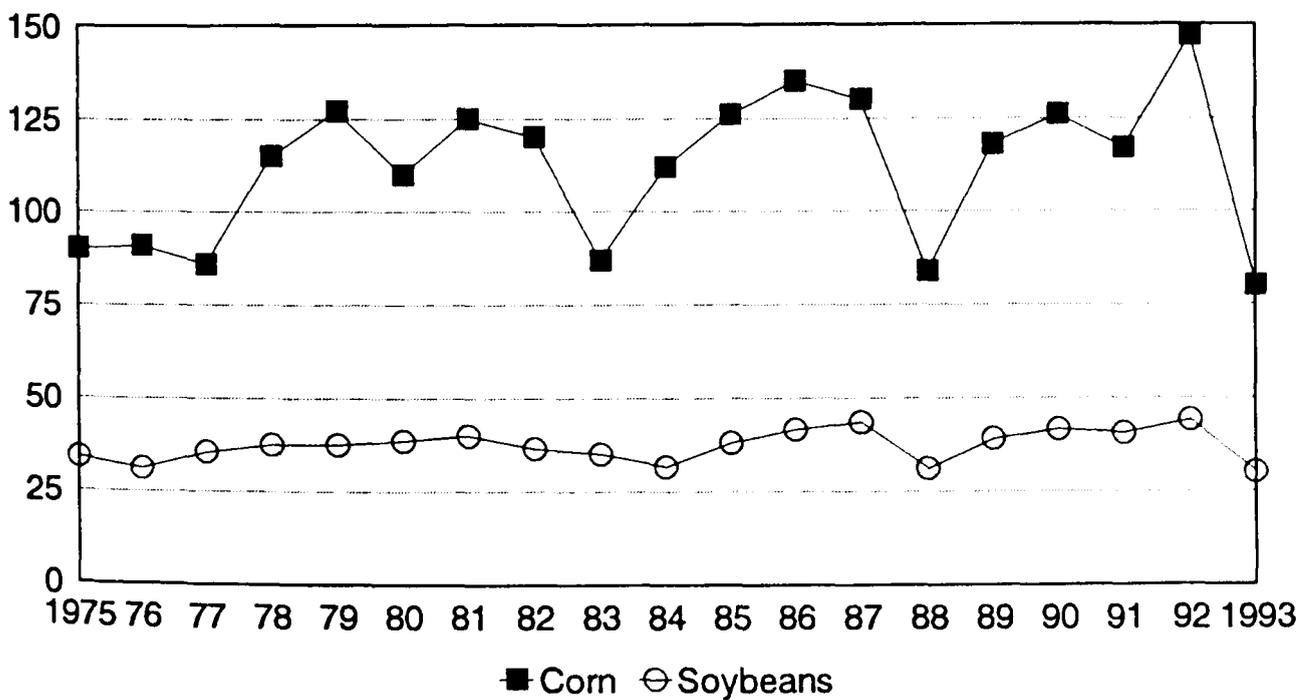


Figure 3. Bushels of corn harvested for grain per acre, 1993.

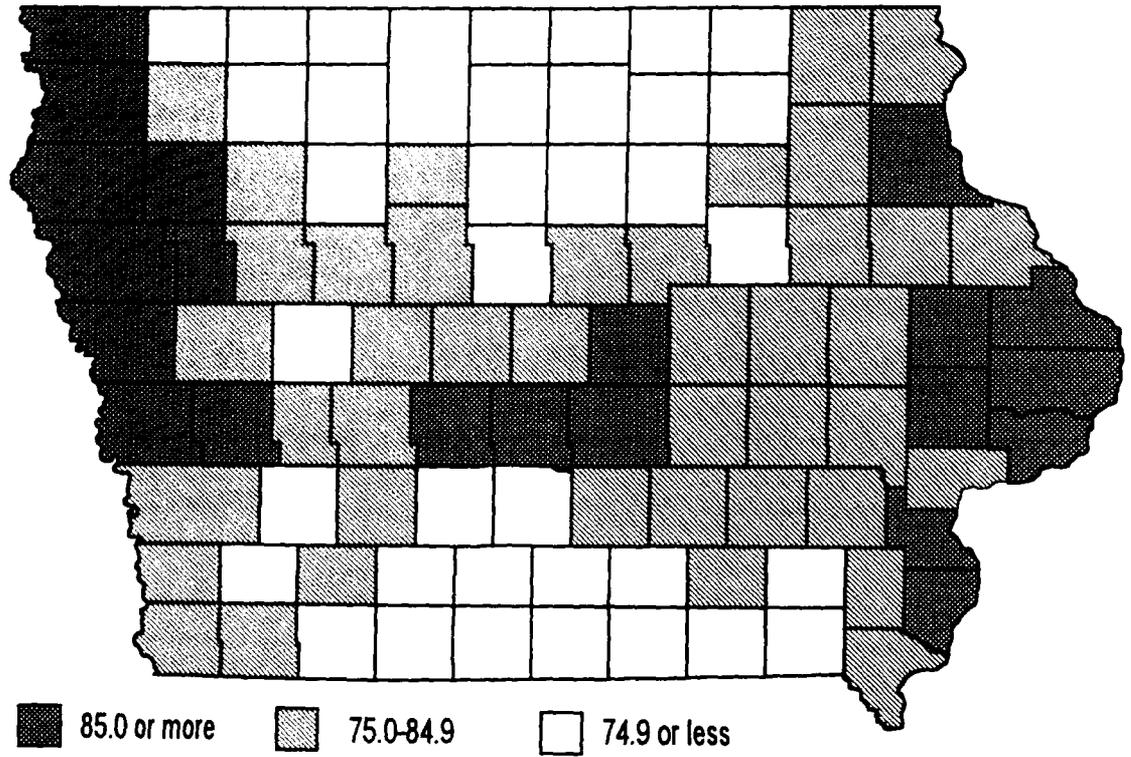
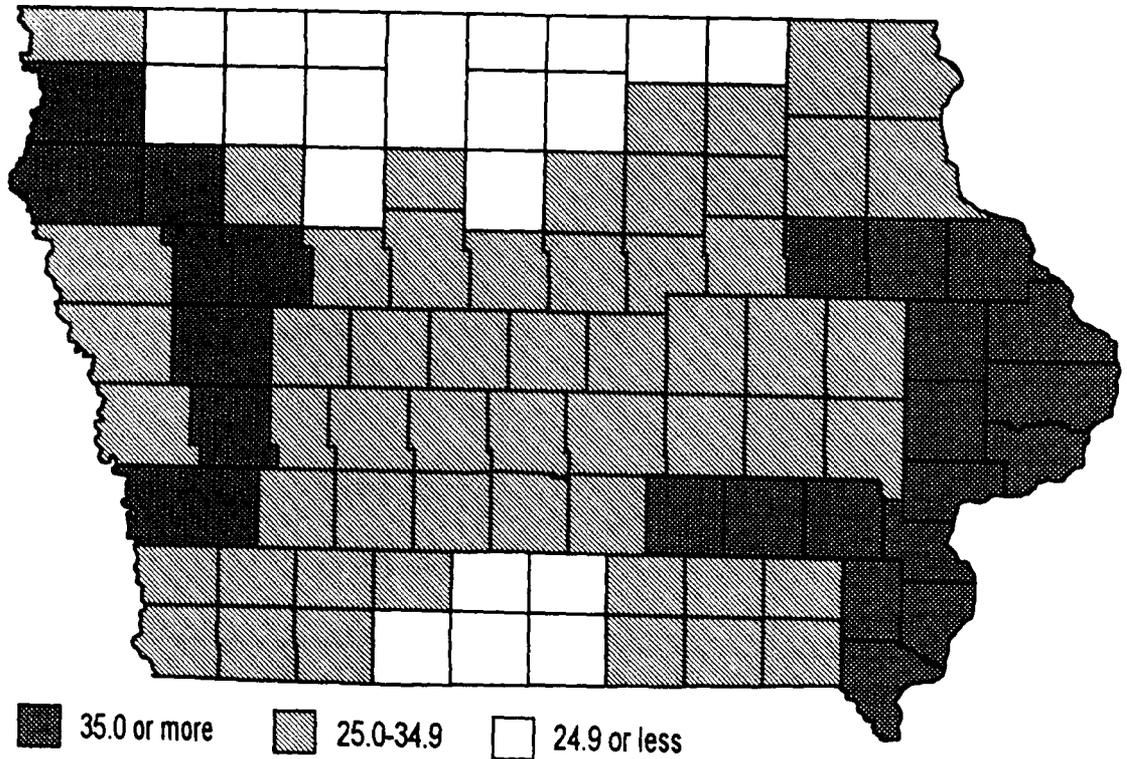


Figure 4. Bushels of soybeans per acre, 1993.



Federal Funds in Iowa's Counties: 1983-1993

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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 \$12.2 billion in Iowa for 1993 (Table 1). The second area includes other federal assistance, which amounted to more than \$3.8 billion. Both of these general areas include subcategories that provide more detailed breakdowns of these expenditures.

Direct Federal Expenditures or Obligations

In 1993, direct federal expenditures or obligations exceeded \$100 million in 19 counties. Polk was the leader with \$1.9 billion; no other county topped \$1 billion. In six counties, the amount of federal funds received through direct federal expenditures or obligations was less than \$35 million in 1993, although they were under \$30 million only in Adams and Ringgold. In 1983, nearly \$6.6 billion came to Iowa through direct federal expenditures or obligations (Table 7); this increased to approximately \$9.7 billion in 1988 (Table 6) and has increased each year since. From 1983 to 1993, these expenditures increased by 86.4 percent.

The \$1.9 billion for grants awarded within counties in 1993 accounted for 15.6 percent of the total direct federal expenditures or obligations in Iowa. These funds increased each year from 1988 to 1993 (Tables 1-6), with the subtotal nearly \$848 million higher in 1993 than in 1983. This subcategory includes a large number of federal programs in several areas (see notes at the end of this section). In 1993, 28 counties received at least \$10 million in grant awards from federal sources. Polk (\$593 million) and Johnson (\$130 million) had the largest shares in this subcategory. Adams and Osceola received less than \$2 million in grant awards; seven others (Audubon, Grundy, Hancock, Ida, Lyon, Pocahontas, Worth) obtained less than \$3 million. Six counties (Black Hawk, Johnson, Linn, Polk, Scott, Story) had more than half (52.4%) of all grant awards for the state. Polk county (31.0%) alone received nearly a third of the total.

Salaries and wages totaled nearly \$864 million in 1993. These were generated by the Department of Defense, the Postal Service, and other federal agencies for employees in Iowa. They increased every year during the 1988-1993 period; the percentage increase in salaries and wages from 1983 to 1993 was 79.5. Salaries and wages paid by federal funds in 1993 exceeded \$10 million in 11 counties, topped by Polk with \$260 million, which accounted for 30.1 percent of all salaries and wages paid by the federal government in Iowa. Polk and four others (Johnson, Linn, Story, Woodbury) received more than half (51.9%) of all federal funds in this category. On the other hand, 17 counties 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, 1993.

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	35891	4498	1260	14336	6818	196	8783	5799	13994
Adams	23076	1750	1437	8920	4828	339	5802	4952	6851
Allamakee	52822	6422	2581	23814	11402	526	8077	3786	3667
Appanoose	65571	11052	3858	31384	13993	1509	3775	4276	4098
Audubon	34877	2007	1587	13501	7594	250	9938	8860	14487
Benton	77015	5710	3120	35159	15365	639	17022	16056	34087
Black Hawk	453124	77296	30223	211923	107932	10739	15011	17633	52787
Boone	94743	7044	5415	46256	22687	802	12539	8928	25258
Bremer	78765	11795	2738	36184	14084	3525	10439	13333	15876
Buchanan	72194	6518	3231	32651	13548	556	15690	15521	11031
Buena Vista	84633	5282	5007	35988	15739	8345	14272	11481	27932
Butler	65105	5439	2379	29002	13148	436	14701	14207	12546
Calhoun	59585	8034	2088	24840	10832	391	13400	8246	22054
Carroll	81491	8943	4634	38197	17467	778	11472	11417	21727
Cass	66454	6537	3268	30940	14563	620	10526	9330	17967
Cedar	63735	3941	4037	26368	11366	697	17326	14856	28712
Cerro Gordo	180752	21629	8702	89646	37927	6321	16527	21558	29272
Cherokee	57714	4167	2572	26560	11684	469	12262	14600	28739
Chickasaw	54839	3608	2322	22373	10598	3498	12440	13226	7059
Clarke	31598	3420	1420	14062	7365	311	5020	2909	4364
Clay	78385	15419	3818	30751	12858	556	14983	11949	23912
Clayton	74261	8068	4075	32444	14978	863	13833	9900	6353
Clinton	182628	15642	7230	92877	45811	1372	19696	16483	36459
Crawford	74921	7536	4082	27239	14841	7572	13651	17236	31534
Dallas	97989	7681	4370	49646	24159	931	11202	13093	31177
Davis	32198	3859	1611	13613	7363	260	5492	2927	7716
Decatur	41853	8994	2043	14785	10468	421	5142	2699	4771
Delaware	58621	5930	2644	23390	10018	1349	15290	11839	10552
Des Moines	192220	17099	9089	82447	38743	37410	7432	9737	17049
Dickinson	63350	3572	2344	32216	11784	4928	8506	9548	9691
Dubuque	278487	30951	16549	140708	73987	6984	9308	5924	16942
Emmet	54781	4870	2253	22342	11930	2415	10971	14340	14175
Fayette	92742	7983	4494	39494	22315	676	17780	15584	8029
Floyd	76940	8623	2641	35407	14014	3226	13029	18438	12572
Franklin	58437	6339	2110	20847	7972	4148	17021	24282	17820
Fremont	43314	6236	1715	16734	8880	853	8896	9260	20923
Greene	51195	4832	2141	21825	8637	416	13344	9597	24794
Grundy	50615	2243	1874	22175	8848	352	15123	12924	19721
Guthrie	49919	4488	2424	22271	10615	407	9714	7484	14920
Hamilton	68798	5658	2534	29349	15436	473	15348	16521	26959
Hancock	50957	2484	2388	21625	7726	1041	15693	17259	22105
Hardin	87338	5925	3652	39552	19097	747	18365	21019	24079
Harrison	73516	12411	3598	28356	16181	1188	11782	10176	24552
Henry	64101	6139	3159	31356	13452	544	9451	9117	17073
Howard	48477	8055	1527	17291	9557	720	11327	10480	9861
Humboldt	48528	3463	2320	21927	9118	400	11300	9392	21743
Ida	35226	2677	1647	14910	5768	260	9964	9402	22682
Iowa	53945	3315	2862	24870	9336	491	13071	9152	18138
Jackson	76451	8471	3360	34892	18292	528	10908	6385	11678
Jasper	123192	15935	4812	59901	26656	897	14991	13622	31141

Table 1. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1993 (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	50305	5427	3895	22534	10114	909	7426	7310	16620
Johnson	384668	130175	54007	89483	42824	55292	12887	10263	52428
Jones	64900	5107	2752	29286	12983	522	14250	10730	20850
Keokuk	58246	4802	3056	23875	11595	603	14315	9982	20975
Kossuth	86391	10336	3470	32800	13880	624	25281	34577	52376
Lee	131089	15814	6474	69041	30285	2391	7084	6473	13066
Linn	731195	62997	51348	258482	103974	239426	14968	11849	72066
Louisa	42810	4627	2503	17963	6829	1053	9835	8722	24905
Lucas	41403	5633	2156	18460	10595	298	4261	3114	4339
Lyon	42402	2884	1833	18614	7352	364	11355	10321	24673
Madison	46661	5135	2196	20665	12010	361	6294	4972	9899
Mahaska	81314	10379	3424	37107	17265	872	12267	8208	19822
Marion	142081	11437	36351	55562	24562	7309	6860	6031	10990
Marshall	154278	22484	5901	73585	26375	11500	14433	12628	25207
Mills	51309	6521	2074	23323	10819	343	8229	7729	19870
Mitchell	46749	3356	1885	21320	8423	352	11413	11890	18956
Monona	55495	6165	2622	22495	11705	838	11670	7443	13694
Monroe	37201	5663	1336	17119	9524	213	3346	1851	5039
Montgomery	55249	4379	2382	24737	15530	394	7827	7994	16176
Muscatine	141034	13484	5826	61921	26487	22988	10328	10317	28752
O'Brien	67854	7444	3165	30210	12631	525	13879	15508	17899
Osceola	37129	1915	1301	12868	5319	6202	9524	9559	14810
Page	73148	8466	3458	35177	17666	663	7718	5927	12876
Palo Alto	59601	10952	2146	21516	9755	414	14818	16925	16039
Plymouth	80849	6647	4115	36736	15716	572	17063	12758	41684
Pocahontas	47269	2885	2234	19629	7096	343	15082	10638	25735
Polk	1933600	592609	259944	493139	276499	76898	234511	36305	177544
Pottawattamie	410396	57545	12429	148372	72919	2014	117117	12309	96192
Poweshiek	71631	7327	2586	31556	14552	482	15128	11412	17706
Ringgold	27505	3111	1497	10736	5099	329	6733	3200	8605
Sac	55317	5539	2421	24552	10300	387	12118	12332	28223
Scott	519577	70597	26028	262076	112640	31143	17093	12667	111431
Shelby	59042	7997	2568	23859	10909	417	13292	11044	24708
Sioux	99849	11241	4414	41301	19281	4767	18845	16428	30516
Story	296297	66531	41596	86168	46241	39783	15978	15119	42764
Tama	74763	7210	3893	32046	13016	1313	17285	17396	25650
Taylor	36219	3752	2000	14136	7248	1540	7543	4114	7845
Union	65997	11821	4101	25795	18428	601	5251	4727	7589
Van Buren	32794	3584	1904	14621	6748	335	5602	3828	8637
Wapello	159372	25941	6725	78347	41321	1156	5882	8026	16835
Warren	85038	7221	5072	44112	20678	916	7039	14239	14829
Washington	72038	5499	3533	35509	12583	844	14070	13269	23858
Wayne	40910	4949	1935	15603	10693	363	7367	2665	8362
Webster	177337	22402	15971	79855	40173	2308	16628	13843	37887
Winnebago	50035	4282	2262	21369	9407	426	12289	17438	17662
Winneshiek	69868	6027	4064	28880	17309	696	12892	4998	4144
Woodbury	392290	48545	41115	172151	99859	12109	18511	14304	73157
Worth	36633	2287	1498	15237	5949	287	11375	14162	17462
Wright	67921	4312	3223	31866	12016	519	15985	17062	25370
Undistributed	487058	104722	0	1113	314250	0	66973	0	334293
State of Iowa	12249490	1910156	863937	4684252	2557211	658384	1575550	1121349	2702645

Table 2. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1992.

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	32585	4618	1268	13940	7615	207	4937	4747	16014
Adams	20992	2315	1460	8532	4634	234	3817	3188	7273
Allamakee	47388	4919	2336	22880	11232	775	5246	2552	2400
Appanoose	64061	12034	3681	30090	13211	2279	2766	2622	6498
Audubon	29790	1973	1589	12859	7526	252	5591	4994	15276
Benton	70023	9825	2594	34004	14790	501	8309	10385	34527
Black Hawk	471125	83783	27393	202855	95304	55255	6535	7671	26574
Boone	84449	7695	5522	43818	21278	563	5573	4624	26509
Bremer	68602	12059	2635	34649	13832	683	4744	7967	7743
Buchanan	61661	6233	2958	31917	13014	522	7017	8915	7456
Buena Vista	73882	5311	4803	34702	14762	8094	6210	6534	29832
Butler	56473	5087	2415	27941	12633	441	7956	6103	12568
Calhoun	46876	3981	1968	23910	10333	512	6172	4866	22114
Carroll	72962	10247	4471	36541	15758	768	5177	6600	21144
Cass	56962	4887	3045	29470	13816	466	5278	4998	17956
Cedar	53868	4501	3912	25053	10875	1036	8491	8301	30394
Cerro Gordo	159926	18118	8172	86004	36056	2824	8752	9852	30516
Cherokee	48810	4136	2349	25480	11002	450	5393	8939	28326
Chickasaw	45306	3818	2165	21281	10260	1474	6308	8072	6107
Clarke	31093	5238	1485	13518	6835	218	3799	2440	8749
Clay	61775	6770	3722	29605	12146	721	8811	6953	20272
Clayton	67734	7663	3996	31235	14463	2046	8331	6617	4644
Clinton	167123	16697	6758	88905	43257	1196	10310	11399	32618
Crawford	64874	6212	4033	26328	14239	7077	6985	11496	33307
Dallas	89858	9553	4338	46567	23216	729	5455	9734	28863
Davis	30996	4368	1524	13587	6997	358	4162	1103	7351
Decatur	36639	6439	1833	14073	9973	315	4006	4712	6182
Delaware	49713	5477	2590	22893	9589	1990	7174	7376	8608
Des Moines	185653	17791	8415	76925	32486	46359	3677	3550	15902
Dickinson	55663	6896	2095	30608	11140	429	4495	4532	12563
Dubuque	270402	38223	15633	132527	68830	10030	5159	4312	12928
Emmet	52756	4837	2031	22132	11070	7004	5682	7765	14773
Fayette	82653	9665	4254	38003	20856	1039	8836	10671	7411
Floyd	65154	8525	2464	34075	13103	414	6573	10825	12014
Franklin	44911	3615	2129	20154	7521	2995	8497	11484	18947
Fremont	34465	3633	1433	16212	8302	252	4633	6549	21700
Greene	41728	4060	2069	20723	8342	423	6111	6065	27016
Grundy	39903	2013	1713	21342	8279	324	6232	5554	21868
Guthrie	44399	4329	2267	21717	10040	427	5619	4082	17360
Hamilton	63616	10167	2625	28278	14809	540	7197	5951	29163
Hancock	40870	3104	2116	20292	7347	396	7615	8694	21712
Hardin	74180	6085	3376	38370	18504	585	7260	11253	25315
Harrison	57654	5864	3527	26913	15264	536	5550	5630	20399
Henry	57024	5482	3067	29929	12810	623	5113	4653	19349
Howard	39080	4434	1509	16695	9036	914	6492	7143	5528
Humboldt	41622	3056	2657	20947	8807	419	5736	3957	25426
Ida	28964	2456	1575	14509	5517	252	4655	6097	20812
Iowa	50279	6607	2728	23801	8811	468	7864	3958	17915
Jackson	70947	9531	3118	33523	17458	500	6817	4552	11832
Jasper	111464	15135	4364	57070	25538	1617	7740	10194	32233

Table 2. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1992 (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	53439	13167	3668	21977	9411	680	4536	4324	15170
Johnson	344775	120040	48791	84137	35870	49190	6747	5155	26377
Jones	55593	5268	2834	27812	12358	442	6879	7350	19150
Keokuk	53593	7282	3009	22485	11117	579	9121	5191	22261
Kossuth	67974	6702	3288	31574	13128	690	12592	16382	52638
Lee	132711	25000	6021	67472	28821	1744	3653	2461	12812
Linn	749466	65980	50211	242624	97574	285544	7533	5243	59615
Louisa	36581	4031	2454	17242	6483	310	6061	3811	18174
Lucas	42157	5332	4928	17855	9952	839	3251	2619	4899
Lyon	35933	3850	1772	17767	6975	324	5245	7946	23166
Madison	42751	5620	2094	19496	11415	342	3784	3134	11027
Mahaska	72837	9458	3489	35490	16489	792	7119	4229	21401
Marion	140244	20238	33514	52862	23112	6205	4313	3355	10615
Marshall	136969	23400	5540	71000	24328	5070	7631	7862	26691
Mills	47562	8966	2106	21797	10476	360	3857	5225	17626
Mitchell	38951	2767	1770	20660	7938	333	5483	7465	19707
Monona	48094	5787	2430	21654	11111	406	6706	4939	15639
Monroe	34274	4435	1327	16553	9264	227	2468	1752	4791
Montgomery	49370	4669	2333	23592	14251	352	4173	5050	14385
Muscatine	123157	12689	5405	59677	24859	14957	5570	5063	20423
O'Brien	56921	6442	2910	28866	12207	497	5999	9905	16813
Osceola	25311	2079	1293	12285	5101	216	4337	6141	16555
Page	71987	13153	3258	33214	17160	836	4366	2968	13210
Palo Alto	46954	6034	2008	20864	9488	483	8077	9117	20185
Plymouth	69279	5901	3961	35241	15260	593	8323	8667	45295
Pocahontas	38261	2821	1996	18849	6844	569	7182	5475	26588
Polk	1903153	458439	249953	469189	257159	91305	377108	6870	112782
Pottawattamie	533236	48405	11515	140070	67667	1586	263993	8347	50975
Poweshiek	70221	11529	2393	30271	14155	451	11422	6414	20096
Ringgold	25452	2941	1592	10367	4895	289	5368	2543	6811
Sac	44947	3285	2189	23866	9860	372	5375	7442	31598
Scott	456125	55400	23353	246653	103856	21337	5526	6495	44631
Shelby	48306	6420	2446	22562	10406	425	6047	6462	24806
Sioux	82779	11116	4262	39701	18601	693	8406	8127	31204
Story	288649	81955	37633	82237	39857	40462	6505	7433	44271
Tama	64126	6244	3731	30136	12464	2590	8961	10934	25387
Taylor	33554	4130	1932	13973	6940	974	5605	2261	8463
Union	59638	11557	3954	24621	15013	956	3537	6963	7398
Van Buren	29783	2920	1872	13939	6714	350	3988	1949	7931
Wapello	148802	24012	6186	75083	38568	1380	3573	4158	13634
Warren	86032	11579	4531	41902	20024	3815	4181	5381	16776
Washington	62986	5119	3171	33764	12073	1007	7852	6393	25052
Wayne	38358	5095	1887	15297	10148	359	5572	2200	8750
Webster	162812	24670	14666	76783	37361	2038	7294	5824	36662
Winnebago	42706	3980	2041	20787	8971	387	6540	10059	18809
Winneshiek	62888	6888	3712	27721	16324	574	7669	3496	2912
Woodbury	362985	49535	38808	165748	90352	7828	10714	8633	47350
Worth	30410	2231	1509	14767	5658	370	5875	8467	19194
Wright	58372	5436	2925	30321	11397	521	7772	7107	28837
Undistributed	490700	136070	0	1077	298429	0	55124	0	547732
State of Iowa	11521082	1819533	818849	4471259	2390401	721175	1299865	626021	2649267

Table 3. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1991.

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	30549	4100	1264	13228	6545	202	5210	5118	14638
Adams	18892	1450	1453	8163	3776	217	3833	2886	7566
Allamakee	48422	4519	2296	21285	8735	6147	5440	2644	2346
Appanoose	58634	10313	3251	28588	10816	2793	2873	6258	4702
Audubon	33202	6387	1619	12633	6380	252	5931	5677	14520
Benton	61780	5970	2737	32225	11982	530	8336	13283	42568
Black Hawk	467832	113170	25712	193574	82438	46493	6445	9479	44246
Boone	77737	5436	5744	43050	16929	521	6057	5600	26084
Bremer	61396	6480	2531	32975	11377	2972	5061	8145	11096
Buchanan	58663	7400	2886	30332	10590	513	6942	10940	11066
Buena Vista	71136	4908	4431	33261	12383	9296	6857	6624	29934
Butler	53518	6102	2227	26441	10259	421	8068	8182	12576
Calhoun	43140	2977	2013	23078	8197	387	6488	5989	20197
Carroll	64694	6632	3933	34841	12766	693	5829	8083	19852
Cass	53115	4751	2770	28141	11336	433	5684	6807	17128
Cedar	73616	25187	3544	23549	8969	4229	8138	9969	25763
Cerro Gordo	153758	15067	8271	81338	29617	6769	12696	11985	31337
Cherokee	45875	3739	2300	24395	8897	402	6142	8462	28593
Chickasaw	43238	4217	2040	20086	8243	2158	6494	8348	6130
Clarke	26540	2731	1587	12782	5728	237	3475	2524	5048
Clay	61344	11289	3566	27084	10173	714	8518	8380	21739
Clayton	64795	7777	3834	30264	11865	2492	8563	7359	5293
Clinton	150892	13345	6905	84329	35096	1590	9627	13793	30324
Crawford	58244	7511	3888	25345	11643	2180	7677	13065	26639
Dallas	81361	8283	3986	43278	18827	973	6014	10050	28293
Davis	27706	3434	1398	13097	5726	236	3815	1621	7306
Decatur	36001	8212	1690	13729	8107	304	3959	1855	4787
Delaware	44250	4387	2430	21045	8057	838	7493	7931	8376
Des Moines	159027	18044	8339	73138	27394	28671	3441	4373	15841
Dickinson	52963	7773	1962	28819	9120	443	4846	5152	12757
Dubuque	277657	57391	15662	126034	57315	15744	5511	3928	13389
Emmet	47550	4340	1969	21354	9667	4147	6073	11488	15652
Fayette	75149	7137	4040	36405	17236	797	9534	12496	6598
Floyd	60994	7307	2502	32764	10909	533	6979	13444	13661
Franklin	41186	3073	2107	19010	6036	2361	8599	14207	18900
Fremont	32254	3118	1579	15573	6571	318	5095	6754	21392
Greene	39028	3430	2039	19924	6646	384	6605	7918	23562
Grundy	37616	1792	1622	20510	6604	320	6768	7121	22687
Guthrie	40702	3372	2271	20640	8017	406	5996	6481	14147
Hamilton	59539	10534	2405	26977	11815	493	7315	7980	28547
Hancock	37592	1935	2059	19151	5916	444	8087	11444	22357
Hardin	68430	5856	3200	36505	14783	574	7512	13686	24784
Harrison	56066	8395	3060	25564	12313	513	6221	7567	23551
Henry	53280	5024	2931	28878	10875	628	4944	7400	22315
Howard	39258	3655	1411	16038	7347	3992	6815	8525	5159
Humboldt	38098	2849	2305	20013	7127	473	5331	6455	22168
Ida	27389	2133	1417	13928	4426	330	5155	6841	20679
Iowa	43319	3126	2628	22733	6899	557	7376	4402	16806
Jackson	64161	8049	3295	31643	14199	513	6462	4950	11051
Jasper	97316	10432	4261	53680	20261	690	7992	7835	28729

Table 3. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1991 (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	41793	4210	3586	21194	8028	436	4339	4614	15425
Johnson	315355	107347	45496	77024	33583	45617	6288	6822	43172
Jones	51802	4695	3850	27393	9864	439	5561	8441	15371
Keokuk	46614	3910	2902	21602	8939	530	8731	6222	21366
Kossuth	62519	5125	3310	30217	10667	525	12675	21534	53105
Lee	121429	14339	5858	64590	23162	10394	3086	2292	14924
Linn	649584	51201	44724	225748	83626	237082	7203	8927	132404
Louisa	34051	4013	2378	16223	5284	1134	5019	5966	17445
Lucas	37610	6866	1907	17406	7996	252	3183	3224	4876
Lyon	32645	2408	1669	16980	5617	320	5651	7177	23724
Madison	38652	4661	1940	18444	9297	336	3974	3904	10639
Mahaska	66486	7611	3234	33926	13633	808	7274	4994	19568
Marion	117847	8560	30926	50644	19184	4393	4140	3841	11995
Marshall	117941	15394	5462	68003	20440	915	7727	6893	25380
Mills	41165	5527	2088	20633	8285	368	4264	5120	21491
Mitchell	36823	2955	1695	19506	6466	320	5881	8313	19331
Monona	44498	5431	2428	20617	8817	387	6818	6335	15119
Monroe	31240	4061	1198	15818	7483	231	2449	1379	4977
Montgomery	44861	3645	2226	22818	11406	360	4406	5276	15339
Muscatine	115438	11811	4983	56019	20575	17216	4834	5986	21322
O'Brien	52945	5254	3064	27459	9872	505	6791	10770	18638
Osceola	26845	1975	1216	11829	4108	1268	6449	7452	16361
Page	68759	13655	3251	32701	13938	600	4614	3485	12510
Palo Alto	43232	5212	1993	19703	7648	353	8323	11538	19585
Plymouth	65286	5362	4182	33609	12346	792	8995	8189	43328
Pocahontas	37540	3184	1832	18327	5449	1439	7309	6486	25891
Polk	1739420	372536	238219	443863	215446	138530	330826	6177	168418
Pottawattamie	335927	34124	11181	131116	54404	12166	92936	11475	76551
Poweshiek	61842	4793	2257	28637	11437	4618	10100	9581	16928
Ringgold	23452	2760	1651	9639	3875	296	5231	2371	5968
Sac	42934	3276	2243	23086	7988	397	5944	8089	27893
Scott	429483	55111	22632	235030	87510	17321	11879	6889	91809
Shelby	46835	6982	2357	21683	8677	395	6741	10564	23755
Sioux	81861	11346	4059	37470	15419	4352	9215	12256	31833
Story	274511	80038	34001	77796	37777	37989	6910	8724	40254
Tama	58463	5867	3547	28961	10133	679	9276	10092	23023
Taylor	31354	4312	1777	13510	5637	416	5702	3525	8699
Union	55116	11286	3708	23581	12715	538	3288	7422	7041
Van Buren	27569	2994	1757	13300	5414	343	3761	2337	7797
Wapello	134269	20151	6187	71610	31906	998	3417	4659	13923
Warren	70978	7184	4237	38892	15929	743	3993	5629	18196
Washington	56872	4460	2882	31747	9677	677	7429	7342	23991
Wayne	34721	4298	1754	14683	8075	340	5571	2706	7357
Webster	143224	15862	14338	73657	30178	1584	7605	6549	38219
Winnebago	40789	4082	2009	19847	7539	439	6873	15541	19030
Winneshiek	58485	6691	3534	26087	13782	539	7852	4264	2787
Woodbury	335118	43611	37461	158057	74182	10910	10897	10684	58997
Worth	28462	1924	1335	14062	4555	305	6281	10410	17650
Wright	53502	3892	2948	28862	9456	488	7856	11325	30105
Undistributed	376304	119439	0	941	209010	0	46914	0	221330
State of Iowa	10403357	1619973	776838	4245963	1943372	720405	1096806	745295	2537717

Table 4. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1990.

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	29815	3139	1267	12473	6482	164	6290	4127	16787
Adams	19460	1991	1371	7776	3599	161	4562	1958	8101
Allamakee	51374	4042	2065	20308	8187	11050	5722	2386	7492
Appanoose	53349	8579	3331	27077	10013	624	3725	3161	6518
Audubon	29338	3270	1593	11978	5764	165	6568	5545	16480
Benton	58796	4052	2634	30338	11552	347	9873	11565	45950
Black Hawk	455041	79559	23520	180541	75884	83738	11799	6907	61864
Boone	75616	5744	5574	40235	16023	316	7724	5290	35377
Bremer	63416	3372	2400	30822	10645	9514	6663	5671	18494
Buchanan	58038	5983	2658	28340	9969	336	10752	8418	19061
Buena Vista	65586	3985	4090	31202	11555	6892	7862	6902	36487
Butler	56427	4008	2114	24576	9555	280	15894	6079	19631
Calhoun	44608	5342	1959	21628	7758	253	7668	6577	25787
Carroll	60708	5201	3747	32667	11641	446	7006	7646	24184
Cass	58139	11069	2783	26745	10286	292	6964	6756	19628
Cedar	50127	5949	3403	22115	8336	415	9909	9825	36241
Cerro Gordo	150785	14406	8155	75778	28428	11467	12551	9314	37786
Cherokee	43731	3138	2186	22853	8359	266	6929	7857	29552
Chickasaw	48687	3372	1915	18804	7770	8577	8249	6823	11309
Clarke	26953	3180	1440	11984	5167	137	5045	1905	5971
Clay	57020	8753	3393	25238	9320	576	9740	8730	28320
Clayton	62811	7504	3541	28491	10903	2827	9545	5360	13380
Clinton	143398	11687	6629	79108	32671	1301	12002	12731	37977
Crawford	57404	4923	3898	23895	10852	5121	8715	11092	28470
Dallas	80288	10584	3944	40717	17467	429	7147	7613	31005
Davis	27510	2922	1313	12057	5447	154	5617	969	9104
Decatur	37474	10128	1527	13086	7648	185	4900	1305	7311
Delaware	45571	5694	2271	19945	7549	471	9641	6184	19983
Des Moines	162562	14194	7983	69404	24828	40747	5406	3627	19052
Dickinson	45619	2694	1995	26411	8634	259	5626	6911	14759
Dubuque	245370	31976	15845	117807	52591	19879	7272	2647	23801
Emmet	49052	4504	1875	19583	9183	6958	6949	11289	20190
Fayette	71630	5854	4055	33893	15763	608	11457	11116	14123
Floyd	60559	6349	2469	30659	10510	288	10284	8329	22658
Franklin	47877	2625	1997	17853	5683	8242	11477	12144	33139
Fremont	33076	2734	1530	14745	6337	193	7537	6166	17892
Greene	38390	3039	1895	19022	6254	250	7930	6814	29956
Grundy	38741	2368	1706	19273	6151	220	9023	5427	33119
Guthrie	40004	3752	2139	19235	7720	254	6904	5256	17236
Hamilton	51935	4019	2367	25227	11106	297	8919	9271	32814
Hancock	37875	2030	2113	17892	5551	237	10052	9850	26304
Hardin	66344	4601	3131	34123	13949	385	10155	12197	37036
Harrison	53591	6730	3165	24040	11616	350	7690	4582	26992
Henry	51589	4091	2955	26878	9667	468	7530	4052	22537
Howard	39133	2906	1368	15248	6931	5081	7599	7401	8058
Humboldt	36717	2506	2176	18598	6689	248	6500	6738	42453
Ida	28504	3738	1370	13159	4140	242	5855	5677	22193
Iowa	41396	1945	2430	21181	6653	449	8738	3819	20618
Jackson	61111	6808	3120	29614	13520	336	7713	4548	17412
Jasper	91740	8106	4083	50040	19816	467	9228	8292	34328

Table 4. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1990 (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	40958	3443	3689	20334	7599	315	5578	3987	19600
Johnson	291446	103878	42916	71526	29894	34327	8905	6255	45887
Jones	51808	3811	2871	25116	9642	413	9955	7606	28733
Keokuk	44091	2839	2638	20595	8451	400	9168	4635	24610
Kossuth	63795	5792	3137	28205	9979	461	16221	19643	59765
Lee	106406	11652	5545	60680	21756	629	6144	1185	17499
Linn	635753	39366	42470	207414	72796	264506	9201	8114	84470
Louisa	32910	2695	2234	15127	4975	195	7684	3554	18327
Lucas	35076	5160	1747	16001	7734	165	4269	952	6755
Lyon	33123	2449	1793	16032	5431	219	7199	8742	25543
Madison	37847	4707	1964	17634	8662	235	4645	2745	11950
Mahaska	63811	7161	3267	32337	12690	399	7957	4745	24861
Marion	111872	7169	30269	46622	18096	4831	4885	3508	12296
Marshall	113424	14969	5314	63916	19021	655	9549	6083	33270
Mills	40110	5306	2035	19496	7863	269	5141	4238	19153
Mitchell	35698	1995	1719	18367	6020	226	7371	8676	20880
Monona	42551	4202	2476	19368	8298	376	7831	5727	14960
Monroe	30781	3967	1137	15059	7299	178	3141	786	6228
Montgomery	43194	3071	2227	21363	10873	305	5355	4463	17481
Muscatine	99253	11218	4749	52265	19126	6140	5755	5586	27529
O'Brien	50827	4846	2875	25530	9172	325	8079	11943	22964
Osceola	29277	1464	1132	11135	3857	5245	6444	8216	19289
Page	59277	6336	3181	30841	12957	368	5594	2957	16403
Palo Alto	42152	4407	1931	18640	7198	237	9739	10252	26842
Plymouth	63794	5294	4316	31311	11812	384	10677	8101	44861
Pocahontas	36195	2392	1796	16998	5105	1156	8748	8201	32521
Polk	1711322	390131	218692	412582	183282	69097	437538	12723	148449
Pottawattamie	381505	31242	10621	124706	50910	3693	160333	8881	79316
Poweshiek	72517	13522	2165	26733	10770	386	18941	6729	23967
Ringgold	22935	2578	1583	8949	3681	187	5957	2193	9802
Sac	40989	2331	2208	21477	7507	259	7207	8916	29299
Scott	406835	54303	21458	217294	80276	21636	11868	14543	82010
Shelby	44342	5452	2268	20031	7971	259	8361	7578	29087
Sioux	75186	9034	3949	35018	14342	1339	11504	10576	34566
Story	239956	64045	33016	71558	34791	27475	9071	8967	48817
Tama	58093	5287	3361	26917	9562	629	12337	9281	34723
Taylor	30919	4079	1813	12875	5286	209	6657	2461	8820
Union	49593	7977	3594	22390	10883	351	4398	5322	8537
Van Buren	27265	2373	1670	12551	5108	313	5250	932	9897
Wapello	128726	19053	6132	67976	30452	926	4187	6894	14512
Warren	72070	12313	4150	35689	14617	502	4799	6140	18956
Washington	57279	5323	3192	29563	9368	395	9438	6070	29689
Wayne	34033	3610	1804	13904	7661	245	6809	2137	8054
Webster	141269	20381	12456	69213	28110	873	10236	6509	40487
Winnebago	40640	3941	1849	18618	6899	293	9040	13693	24279
Winneshiek	55439	4868	3520	24360	12989	366	9336	3683	6876
Woodbury	313972	34247	33707	148016	69460	14495	14047	10686	68088
Worth	28938	1905	1301	13203	4395	176	7958	9517	19268
Wright	52901	4081	2836	26983	8888	317	9796	9515	30917
Undistributed	390979	153257	50	830	191020	39	45783	0	178577
State of Iowa	10117415	1494068	733318	3968012	1786654	700372	1434991	669698	2864590

Table 5. 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 5. 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 6. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1988.

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	37278	5142	1081	11444	4115	131	15365	15827	2367
Adams	21520	1403	1355	7235	2743	122	8662	7491	1314
Allamakee	40739	2671	1851	18289	6041	569	11318	7444	1923
Appanoose	47543	5695	2810	25258	7527	736	5517	5403	3775
Audubon	33104	1331	1529	10618	3767	116	15743	18509	1838
Benton	66788	3253	2396	27633	8761	243	24502	36009	3435
Black Hawk	376395	72395	21295	161571	57987	40822	22325	26916	35413
Boone	77353	3771	5238	36638	12162	465	19079	23067	7334
Bremer	76944	3302	2165	27990	8875	19205	15407	20147	4808
Buchanan	66229	3629	2605	25251	8829	247	25668	25866	5770
Buena Vista	67919	2950	3999	27998	9644	1950	21378	23168	2533
Butler	51766	3251	1864	22271	7696	187	16497	24758	3541
Calhoun	52055	2498	1922	19817	6027	274	21517	28329	1049
Carroll	65922	4423	3533	28602	9265	317	19782	24015	2019
Cass	61392	9253	2561	23808	7843	249	17678	15152	2248
Cedar	59938	4472	2981	19810	6127	241	26307	24674	2251
Cerro Gordo	141196	10559	7528	67273	20323	3417	32096	31786	6197
Cherokee	53785	4173	1953	20662	6431	494	20072	21720	2721
Chickasaw	112050	1973	1835	17542	6290	5452	78958	20942	2074
Clarke	58494	2369	1280	10697	4085	86	39977	5179	1495
Clay	57256	3124	2958	22439	7008	282	21445	26489	3166
Clayton	63319	4381	3186	25671	8874	334	20873	18582	4984
Clinton	143624	11522	6154	71236	24054	658	30000	26756	6127
Crawford	59707	4395	3596	21095	8015	1822	20784	26359	2640
Dallas	100377	27489	3677	36911	13480	307	18513	25031	4586
Davis	27332	2353	1227	11480	4329	112	7831	4089	899
Decatur	32068	5388	1381	11853	6262	271	6913	5495	1240
Delaware	52575	3044	2113	18132	5985	191	23110	23184	4962
Des Moines	168966	26101	7558	61407	17506	44247	12147	10234	3671
Dickinson	47406	2407	1783	23326	6328	325	13237	16645	1500
Dubuque	209900	22968	14057	107121	39738	10007	16009	9825	9554
Emmet	46623	2779	1780	17264	6833	1404	16563	21682	1537
Fayette	90420	5837	3473	30757	12727	671	36955	32562	3570
Floyd	62385	4906	2072	27785	7407	206	20009	25603	2539
Franklin	59330	4528	1890	16063	4463	4875	27511	33975	3594
Fremont	36983	2454	1301	13488	4828	127	14785	16369	1957
Greene	47314	2795	1700	17319	4777	153	20570	27336	1290
Grundy	68248	1158	1638	17439	5084	165	42764	28608	1953
Guthrie	42360	2109	1839	17647	5983	194	14588	16956	2701
Hamilton	62168	4214	2323	22714	8600	249	24068	30288	2153
Hancock	46903	1201	1890	15552	4438	363	23459	29089	1982
Hardin	73936	4335	2838	30860	10838	277	24788	32988	5061
Harrison	58802	6748	2831	21903	8744	226	18350	26064	5586
Henry	52779	2995	2753	24654	7494	362	14521	11313	2279
Howard	40530	2927	1162	13494	5546	526	16875	18178	1064
Humboldt	43599	2518	1871	16669	5110	168	17263	21065	1380
Ida	35159	2008	1302	12103	3309	100	16337	15320	851
Iowa	51892	5824	2254	19164	5091	220	19339	18447	2279
Jackson	61790	4710	2856	26967	10105	1072	16080	11824	3441
Jasper	93436	8599	3525	44287	14178	299	22548	30660	7086

Table 6. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1988 (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	40565	2928	3172	18232	5773	168	10292	9584	4334
Johnson	257594	86068	37134	62566	22959	31191	17676	11790	20278
Jones	56311	3071	2145	22325	7293	218	21259	19644	3200
Keokuk	53497	3958	2337	19297	6476	228	21201	17722	4573
Kossuth	90054	4735	2935	25682	8109	251	48342	55885	3254
Lee	95530	8249	5160	54964	16563	488	10106	7083	4665
Linn	682564	35643	40240	184421	57262	308353	56645	9696	58895
Louisa	38823	3539	1963	13916	3796	135	15474	15583	1028
Lucas	31976	3131	1580	15046	5661	678	5880	3844	2033
Lyon	69103	2251	1552	14425	4054	180	46641	20028	1247
Madison	38067	3025	1612	16164	6656	175	10435	9881	1637
Mahaska	63402	5368	2949	28851	9124	255	16855	15794	5722
Marion	106534	6079	27201	42359	14131	5561	11203	11553	4636
Marshall	109957	11214	4589	56343	13916	529	23366	22036	4618
Mills	42844	4453	1785	17224	5873	159	13350	14546	4565
Mitchell	42790	1548	1579	16702	4994	236	17731	20501	473
Monona	50967	4210	2070	17703	6545	298	20141	25846	791
Monroe	28789	3098	973	14177	5293	86	5162	3265	2637
Montgomery	45393	2880	1981	19613	8165	156	12598	12868	1700
Muscatine	96360	7951	4527	46835	13364	9150	14533	11747	7690
O'Brien	60587	4923	2736	23231	7305	254	22138	30393	2683
Osceola	46784	1042	968	10146	3132	86	31410	25185	914
Page	57110	4230	3047	27823	9717	399	11894	11537	1946
Palo Alto	78252	3453	1636	16797	5636	162	50568	28614	2850
Plymouth	69938	3450	3886	27782	9251	268	25301	23659	4192
Pocahontas	47155	2286	1782	15449	4114	228	23296	25436	951
Polk	1176240	301434	199983	367376	144833	60279	102335	23324	109885
Pottawattamie	289201	30037	9484	110103	36766	52518	50293	34981	42462
Poweshiek	56623	3244	1870	23884	7813	187	19625	19106	2600
Ringgold	23988	2186	1467	8059	2836	134	9306	6772	1512
Sac	49458	2381	2088	19506	5795	195	19493	25624	2392
Scott	362997	37068	20599	182041	60688	42379	20222	20482	53355
Shelby	56368	8773	2096	17848	6206	180	21265	17885	3031
Sioux	83225	6658	3327	31013	11569	1502	29156	30417	3731
Story	222762	53742	29808	62550	28783	25340	22539	28799	12608
Tama	65815	4709	3053	24584	7473	1386	24610	27811	2427
Taylor	32138	2595	1605	11800	4103	162	11873	9783	774
Union	43799	3926	3147	20300	8100	328	7998	7426	1475
Van Buren	28813	3550	1466	11576	3781	169	8271	5361	1451
Wapello	116244	14048	6056	61610	23825	1970	8735	9295	3383
Warren	96782	7731	3703	32189	11442	329	41388	12603	7238
Washington	61989	3752	2977	26529	7269	245	21217	18186	2018
Wayne	35165	3568	1674	12620	5910	157	11236	7858	931
Webster	131204	10620	10855	61463	20922	1649	25695	28858	3546
Winnebago	48911	3502	1620	16691	5350	202	21546	24578	2242
Winneshiek	57861	4109	3136	21726	10618	236	18036	9199	2447
Woodbury	277702	28701	30127	132885	51838	3863	30288	57214	37535
Worth	37240	1362	1069	12278	3421	112	18998	19362	1953
Wright	60687	2441	2636	24611	6833	425	23741	34421	1755
Undistributed	250816	161972	0	670	54814	0	33360	0	988419
State of Iowa	9672570	1259225	666149	3549192	1277822	699373	2220809	1990481	1630417

Table 7. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1983.

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	19016	325	671	9884	3095	2	5039	12653	23337
Adams	11971	153	742	6278	2220	1	2577	5591	15942
Allamakee	27708	2828	1029	15147	5143	1269	2292	3584	3989
Appanoose	33516	689	2013	21847	6083	1192	1692	2376	5805
Audubon	17973	279	926	8904	3246	24	4594	12588	37864
Benton	38180	416	1451	22712	6512	6	7083	27128	20831
Black Hawk	230061	7254	17252	119273	31539	48649	6094	28272	55906
Boone	50350	491	3622	31060	8591	118	6468	22965	36287
Bremer	45939	526	1416	21807	6786	11349	4055	15797	7106
Buchanan	43034	983	1562	20026	5467	58	14938	22096	15801
Buena Vista	44780	6679	2159	23081	8060	309	4492	15096	52695
Butler	30987	269	999	18002	5324	5	6388	24087	11556
Calhoun	28659	209	1098	16609	5194	133	5416	21512	22875
Carroll	38576	725	2463	22938	7049	30	5371	13787	46635
Cass	33942	507	1590	20029	6278	346	5192	13997	29542
Cedar	29926	275	2140	17126	5028	182	5175	18559	7985
Cerro Gordo	91075	1344	6535	54279	15493	3020	10404	38414	33646
Cherokee	28902	723	1588	16878	5008	106	4599	16041	39099
Chickasaw	29121	324	1178	13952	4471	2	9194	19381	5103
Clarke	15510	206	841	9088	2875	51	2449	5249	13119
Clay	32374	566	2642	18425	5487	51	5203	19294	22056
Clayton	36600	2034	1854	21162	6888	1079	3583	7152	6929
Clinton	82998	1341	4374	58653	13860	376	4394	13732	18451
Crawford	35753	354	2382	17356	5655	3400	6606	22045	69318
Dallas	46362	1397	2151	30421	8228	16	4149	16268	45297
Davis	15604	219	775	9714	2808	3	2085	5570	7144
Decatur	19827	1663	935	10536	4756	43	1894	4352	6560
Delaware	25836	371	1127	14769	4615	50	4904	12811	6544
Des Moines	132185	903	6532	49871	13326	57933	3620	13132	13026
Dickinson	27017	-9	976	18212	4564	146	3128	11800	13157
Dubuque	138830	9582	10256	80765	22526	11504	4197	5289	13731
Emmet	27375	708	1154	14272	4866	2000	4375	16289	11737
Fayette	48341	1585	2486	26507	8859	577	8327	22782	5068
Floyd	35138	500	1434	21660	5912	86	5546	21358	14114
Franklin	29231	273	1031	13399	4219	1048	9261	31301	15391
Fremont	21583	1051	874	11187	3444	4	5023	14618	26479
Greene	27168	203	1128	14623	4613	28	6573	23541	19987
Grundy	25920	230	870	14303	4037	5	6475	19995	10163
Guthrie	25976	291	1011	14932	5039	10	4693	13820	24537
Hamilton	33940	614	1481	18885	5461	8	7491	25680	16261
Hancock	25417	324	1140	12859	4659	103	6332	22019	22620
Hardin	45915	1850	1812	25362	8452	8	8431	29070	26427
Harrison	33819	980	1807	18572	5773	320	6367	18428	28607
Henry	32599	538	1793	20341	6148	95	3684	10025	11091
Howard	25452	644	655	11642	3982	2493	6036	16804	633
Humboldt	23782	246	1273	13708	3690	3	4862	13786	1777
Ida	17765	620	755	9385	3317	4	3684	13472	5905
Iowa	34299	304	1187	15661	4530	5852	6765	18948	1672
Jackson	33635	882	1769	22009	5883	4	3088	7494	943
Jasper	71022	18661	2646	35194	8689	38	5794	23505	4312

Table 7. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1983 (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	29560	2368	2230	15708	5818	33	3403	10311	11569
Johnson	166706	52972	27469	47532	19530	14761	4442	10247	24734
Jones	30977	301	1312	17846	5182	2234	4102	10412	13348
Keokuk	29846	273	1173	16390	5649	2	6359	20664	16204
Kossuth	43319	513	1639	21595	6365	7	13200	47516	54327
Lee	66224	2751	2960	45664	11812	806	2231	4843	16534
Linn	393057	9104	29517	141467	37587	171005	4377	16132	39755
Louisa	21606	242	1021	11071	3370	2	5900	21463	4925
Lucas	20045	347	1071	12949	4062	-41	1657	3893	11260
Lyon	20409	262	822	11784	3547	238	3756	11446	36582
Madison	22008	512	842	12957	4145	25	3527	8106	26530
Mahaska	39815	553	1701	24697	8559	836	3469	11255	11612
Marion	76601	264	23279	34101	8816	6590	3551	8852	16547
Marshall	71181	2959	3120	45950	11623	193	7336	29863	23000
Mills	23549	568	1302	13580	3247	418	4434	12257	32067
Mitchell	24699	232	841	13939	4748	2	4937	18293	32184
Monona	28113	299	1675	14801	4255	8	7075	24178	29216
Monroe	19378	327	696	12461	3532	296	2066	2980	14378
Montgomery	28316	324	1442	16478	5018	1346	3708	9412	18621
Muscatine	66816	812	3126	36955	10886	11950	3087	9892	16254
O'Brien	32419	442	1781	18741	6373	41	5041	14947	14825
Osceola	16974	192	683	8463	2732	529	4375	19219	24294
Page	37465	1474	2270	22929	7453	117	3222	8956	24166
Palo Alto	27253	1074	944	14076	4375	20	6764	27924	19996
Plymouth	37420	1059	2419	22230	7021	82	4609	13103	76478
Pocahontas	24785	305	1070	13103	4316	4	5987	20913	33142
Polk	1483817	811100	145466	289138	184703	24658	28752	21162	96863
Pottawattamie	186242	4121	7610	90420	20188	54382	9521	30044	115409
Poweshiek	31748	379	1181	19114	6044	430	4600	24558	18052
Ringgold	12714	180	687	6969	2504	8	2366	5925	12170
Sac	28166	305	1183	16045	5480	37	5116	19156	56150
Scott	236666	8392	14173	136064	29528	46291	2218	5306	50937
Shelby	27264	784	1231	14169	4604	8	6468	17605	50560
Sioux	45069	881	2264	24845	9213	1516	6350	22892	26929
Story	148168	24414	25445	48567	20011	21929	7802	30385	42465
Tama	39169	1483	1697	20520	6856	1207	7406	25264	13118
Taylor	18556	320	837	10045	3998	2	3354	9678	17037
Union	29553	963	2404	17430	6041	67	2648	7059	14063
Van Buren	17041	224	724	10031	3721	2	2339	8799	8522
Wapello	75954	1323	5569	52278	14132	148	2504	8350	12900
Warren	37003	455	2417	24747	6055	55	3274	7309	25071
Washington	35822	363	2000	21161	6478	23	5797	17325	11573
Wayne	18967	210	762	11366	4000	40	2589	5431	6036
Webster	80370	1028	8079	50382	13647	236	6998	23101	42238
Winnebago	35077	7190	1061	14108	4156	4	8558	34459	17363
Winneshiek	33224	1210	2264	18463	7714	15	3558	6776	5115
Woodbury	187297	7017	23988	105578	32333	4199	14182	36403	105217
Worth	20426	255	629	10320	3028	2	6192	25795	14727
Wright	35205	336	1574	20141	5978	5	7171	22762	7508
Undistributed	208041	34861	0	572	166443	0	6165	0	103355
State of Iowa	6571085	1062451	481233	2853244	1104625	520906	548626	1646175	1608200

Table 8. Percentage of Total Federal Funds Received as Retirement and Disability Payments in Iowa's Counties, 1983, 1988, and 1993.

County	1993	1988	1983	County	1993	1988	1983
Adair	39.9	30.7	52.0	Jefferson	44.8	44.9	53.1
Adams	38.7	33.6	52.4	Johnson	23.3	24.3	28.5
Allamakee	45.1	44.9	54.7	Jones	45.1	39.6	57.6
Appanoose	47.9	53.1	65.2	Keokuk	41.0	36.1	54.9
Audubon	38.7	32.1	49.5	Kossuth	38.0	28.5	49.9
Benton	45.7	41.4	59.5	Lee	52.7	57.5	69.0
Black Hawk	46.8	42.9	51.8	Linn	35.4	27.0	36.0
Boone	48.8	47.4	61.7	Louisa	42.0	35.8	51.2
Bremer	45.9	36.4	47.5	Lucas	44.6	47.1	64.6
Buchanan	45.2	38.1	46.5	Lyon	43.9	20.9	57.7
Buena Vista	42.5	41.2	51.5	Madison	44.3	42.5	58.9
Butler	44.5	43.0	58.1	Mahaska	45.6	45.5	62.0
Calhoun	41.7	38.1	58.0	Marion	39.1	39.8	44.5
Carroll	46.9	43.4	59.5	Marshall	47.7	51.2	64.6
Cass	46.6	38.8	59.0	Mills	45.5	40.2	57.7
Cedar	41.4	33.1	57.2	Mitchell	45.6	39.0	56.4
Cerro Gordo	49.6	47.6	59.6	Monona	40.5	34.7	52.6
Cherokee	46.0	38.4	58.4	Monroe	46.0	49.2	64.3
Chickasaw	40.8	15.7	47.9	Montgomery	44.8	43.2	58.2
Clarke	44.5	18.3	58.6	Muscatine	43.9	48.6	55.3
Clay	39.2	39.2	56.9	O'Brien	44.5	38.3	57.8
Clayton	43.7	40.5	57.8	Osceola	34.7	21.7	49.9
Clinton	50.9	49.6	70.7	Page	48.1	48.7	61.2
Crawford	36.4	35.3	48.5	Palo Alto	36.1	21.5	51.6
Dallas	50.7	36.8	65.6	Plymouth	45.4	39.7	59.4
Davis	42.3	42.0	62.3	Pocahontas	41.5	32.8	52.9
Decatur	35.3	37.0	53.1	Polk	25.5	31.2	19.5
Delaware	39.9	34.5	57.2	Pottawattamie	36.2	38.1	48.5
Des Moines	42.9	36.3	37.7	Poweshiek	44.1	42.2	60.2
Dickinson	50.9	49.2	67.4	Ringgold	39.0	33.6	54.8
Dubuque	50.5	51.0	58.2	Sac	44.4	39.4	57.0
Emmet	40.8	37.0	52.1	Scott	50.4	50.1	57.5
Fayette	42.6	34.0	54.8	Shelby	40.4	31.7	52.0
Floyd	46.0	44.5	61.6	Sioux	41.4	37.3	55.1
Franklin	35.7	27.1	45.8	Story	29.1	28.1	32.8
Fremont	38.6	36.5	51.8	Tama	42.9	37.4	52.4
Greene	42.6	36.6	53.8	Taylor	39.0	36.7	54.1
Grundy	43.8	25.6	55.2	Union	39.1	46.3	59.0
Guthrie	44.6	41.7	57.5	Van Buren	44.6	40.2	58.9
Hamilton	42.7	36.5	55.6	Wapello	49.2	53.0	68.8
Hancock	42.4	33.2	50.6	Warren	51.9	33.3	66.9
Hardin	45.3	41.7	55.2	Washington	49.3	42.8	59.1
Harrison	38.6	37.2	54.9	Wayne	38.1	35.9	59.9
Henry	48.9	46.7	62.4	Webster	45.0	46.8	62.7
Howard	35.7	33.3	45.7	Winnebago	42.7	34.1	40.2
Humboldt	45.2	38.2	57.6	Winneshiek	41.3	37.5	55.6
Ida	42.3	34.4	52.8	Woodbury	43.9	47.9	56.4
Iowa	46.1	36.9	45.7	Worth	41.6	33.0	50.5
Jackson	45.6	43.6	65.4	Wright	46.9	40.6	57.6
Jasper	48.6	47.4	49.6	Undistributed	0.2	0.3	0.3
				State of Iowa	38.2	36.7	43.2

Nearly two-fifths (38.2%) of the total direct federal expenditures or obligations went for retirement and disability payments; almost \$4.7 billion was received by individuals in Iowa in 1993. 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 \$1.8 billion from 1983 to 1993; again, it increased each year. Retirement or disability payments constituted the largest part of direct federal expenditures and obligations in all but two Iowa counties. Johnson and Polk, which were the two exceptions, received more federal funds in grant awards than in any other category. Nineteen counties received at least \$50 million in the retirement/disability category in 1993, with seven (Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, Woodbury) above \$100 million. Adams (\$8.9 million) was the only county with less than \$10 million in this subcategory of payments to individuals.

Another 20.9 percent (\$2.6 billion) of the total direct federal expenditures or obligations was 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. These payments increased from 1983 to 1988 and each succeeding year, with relatively large jumps between 1988 and 1993. In 1993, other payments received by individuals ranged from \$4.8 million in Adams to \$276 million in Polk. Black Hawk, Linn, and Scott were the only other counties with more than \$100 million in other payments to individuals from federal sources, although three others (Dubuque, Pottawattamie, Woodbury) received at least \$50 million.

Procurement contract awards totaled \$658 million in 1993. These are contracts with the Department of Defense, Postal Service, and other federal agencies. These numbers changed rather radically from one year to the next, with both increases and decreases greater than \$90 million between selected years. In addition, this subcategory was the most unevenly distributed across counties among the data reported in Tables 1 through 6. In 1993, two counties (Linn, Polk) received nearly half (48.0%) of all dollars for procurement contract awards in the state, with Linn alone (\$239.4 million) accounting for 36.4 percent of the total.

The "other" subcategory among direct federal expenditures or obligations amounted to \$1.6 billion in 1993. Expenditures in this area also changed greatly between years, with the highest figure in 1988 (Table 6). 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 1993, 26 counties received at least \$15 million each in this subcategory. Polk (\$235 million) and Pottawattamie (\$117 million) were the only ones to exceed \$100 million. Three counties (Appanoose, Lucas, Monroe) received less than \$5 million each in 1993.

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 \$1.1 billion of the \$3.8 billion total for other federal assistance. These figures varied by huge amounts in the years examined; expenditures were nearly \$2 billion in 1988 while they were only \$473 million in 1989, primarily because of direct loans related to agriculture were much greater some years than others. In Iowa, \$950 million of the \$1.1 billion in this subcategory was related to commodity loans in 1993. Direct loans were at least \$15 million in 21 counties. Five (Cerro Gordo, Franklin, Hardin, Kossuth, Polk) topped \$20 million. Only Monroe received less than \$2 million in direct loans.

Guaranteed loans and insurance totaled \$2.7 billion in 1993. 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 varied substantially from one year to the next; the lowest total was \$1.6 billion in 1983 while the highest was nearly \$3.3 billion in 1989. Nearly \$1.5 billion of the \$2.7 billion for guaranteed

loans and insurance was related to crop insurance in 1993. Totals from all the guaranteed loan and insurance programs exceeded \$50 million in eight counties (Black Hawk, Johnson, Kossuth, Linn, Polk, Pottawattamie, Scott, Woodbury), led by Polk with \$178 million. Twenty 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 1993, retirement and disability payments accounted for nearly two-fifths of total federal funds sent to Iowa (Table 8). The 1993 figure (38.2%) was somewhat lower than it was in 1983 (43.4%), the first year for which these data were made available. In 1993, retirement or disability payments accounted for at least 50 percent of all the funds from direct federal expenditures or obligations in seven counties (Clinton, Dallas, Dickinson, Dubuque, Lee, Scott, Warren). In 1983, 80 counties had percentages of at least 50 when retirement or disability payments were compared with total federal funds disbursed; at least two-thirds of all funds were attributed to the retirement/disability payment category in five counties (Clinton, Dickinson, Lee, Wapello, Warren).

Because payments related to retirement and disability accounted for a greater percentage of total federal funds statewide in 1983 than in 1993, more counties would be expected to have lower percentages in the latter rather than the former year. Indeed, the percentage that retirement and disability payments constituted of all federal funds increased in only four counties (Des Moines, Iowa, Polk, Winnebago), and only Polk (+6.0) increased by at least six percentage points. Decreases ranged from less than 10 points in 20 counties to at least 20 points in three (Davis, Lucas, Wayne); 72 counties reported declines of 10 through 19.9 points when 1983 and 1993 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 the years 1984 through 1987 was published in the 1991 edition of our county 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.

Outstanding Obligations of Iowa's Counties: 1987-1994

Willis Goudy, Iowa State University

The office of the treasurer of the State of Iowa initiated a series of reports on outstanding obligations by governmental units in 1988. These reports list outstanding debt as of a selected date (30 September for 1988 and earlier; 30 June for 1990 and later) for the state, cities, counties, school districts, state agencies, and other units of government. Obligations for the 92 counties reporting in 1994 were \$156 million, an amount significantly higher than the \$115 million listed in 1987 (Table 1, Figure 1). The proportion of total state debt attributed solely to county government is relatively small; it amounted to 3.7% of the total in 1994. Far greater shares are held by cities (42.6%), schools (including area education agencies and community colleges) (22.0%), state agencies (17.7%), and state authorities (13.6%).

The total obligations outstanding at a specified date are noted for counties in Table 1. In 1994, Polk's obligations of \$63,895,000 alone accounted for 40.9 percent of the total county obligations in the state; the addition of \$19,925,000 in Black Hawk raised this to 53.6%. These were the only counties with debts greater than \$10 million. The number of counties with no outstanding debt has been decreasing; from 1987 through 1991, the number without debt ranged from 56 to 58. In 1992, it dropped to 33, and it was 28 in 1993. Most recently, 26 of the 92 counties reporting had no outstanding obligations of the types reported by the state treasurer as of 30 June 1994.

When the number of counties reporting debt increased between 1991 and 1992, so did the total value of those obligations (Figure 1). They ranged from \$107 million to \$126 million in 1991 and earlier. In 1992, however, the total was nearly \$153 million, while it was \$164 million in 1993. The total declined slightly to \$156 million in 1994. Among the 87 counties reporting information in both 1990 and 1994, 44 had greater outstanding obligations at the end of the period than at the beginning. Another 22 reported lower obligations in 1994 than in 1990, while 21 had no outstanding debts of this type either year.

The total county obligations reported in Table 1 include several subtypes. Those for public buildings, health care, public safety, and parks and recreation are labeled 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. These general obligations accounted for 84.2 percent of the total county obligations outstanding as of 1994. The only other classification that accounted for at least 5 percent of the total included those called revenue obligations (8.7% of the total); other classes of obligations were leases, general fund obligations, 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.

Note: More detailed data from 1987 through 1993 are available in publications entitled "Outstanding Obligations Report;" they can be obtained from the office of the Treasurer 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 (\$) of Iowa Counties, 1987-1994.

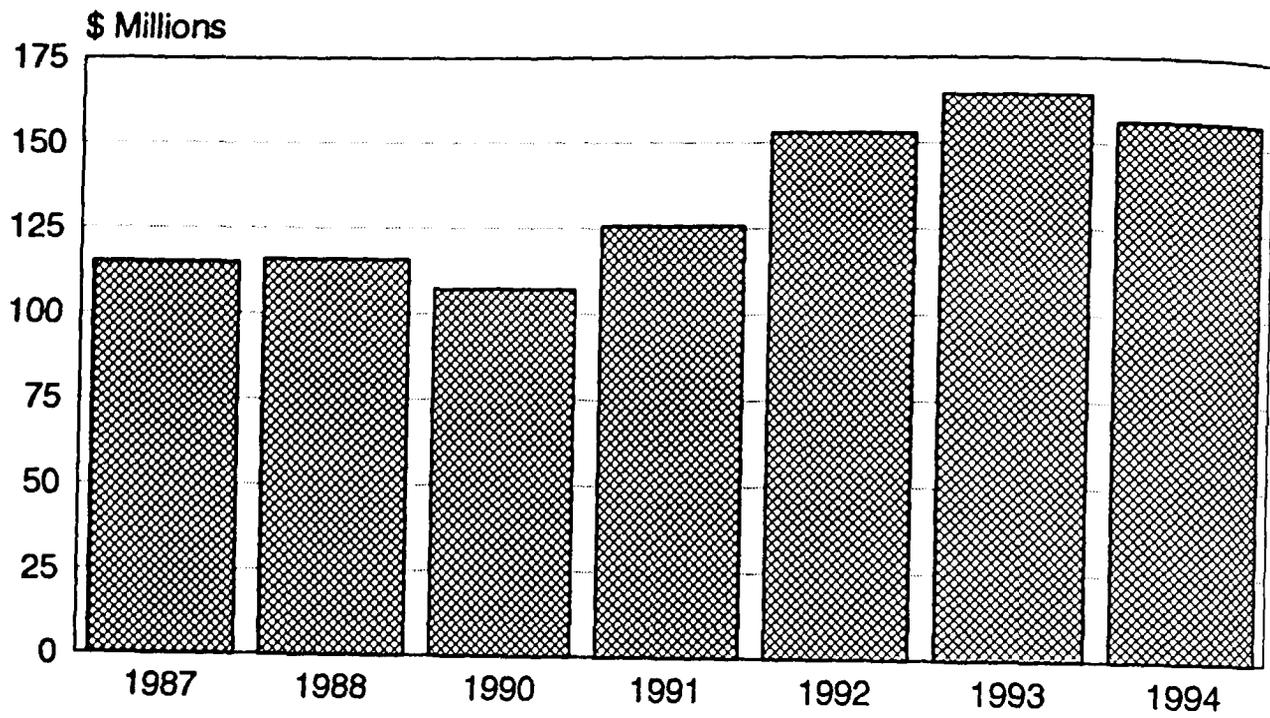
County	30 June 1994	30 June 1993	30 June 1992	30 June 1991	30 June 1990	30 September 1988	30 September 1987
Adair	251270	303776	402144	0	0	0	0
Adams	*	139965	169893	0	0	281496	0
Allamakee	193290	212619	231028	0	0	0	0
Appanoose	0	0	0	0	0	0	0
Audubon	0	0	0	0	0	0	0
Benton	190000	190000	380000	700000	675000	945000	1065000
Black Hawk	19925000	24220000	24500000	25215000	11395000	8185000	4500000
Boone	0	0	0	0	0	9031	0
Bremer	0	83919	123599	0	0	0	0
Buchanan	0	1373	1373	112373	3235	5000	5000
Buena Vista	1880669	2135120	2375732	2611465	2828416	1200961	378315
Butler	0	0	0	0	0	0	0
Calhoun	255624	307128	365762	0	434683	0	0
Carroll	1095346	1259293	1370765	600000	0	4000	8000
Cass	223942	280959	348287	0	0	240000	380891
Cedar	1458649	1581932	1681932	0	0	0	0
Cerro Gordo	1390016	3604275	930805	334343	0	0	0
Cherokee	*	0	0	0	0	0	0
Chickasaw	0	0	0	0	0	*	*
Clarke	2069321	2150596	278980	0	0	0	0
Clay	0	0	0	0	0	0	0
Clayton	370000	410000	450000	450000	0	0	0
Clinton	3100	2008100	12800	17200	21300	313700	452000
Crawford	139024	158254	158254	0	0	0	40000
Dallas	*	2010000	2109000	2190000	4725000	2905000	3150000
Davis	231288	318550	434305	170000	549270	335000	405000
Decatur	0	0	0	0	0	0	0
Delaware	0	0	0	0	0	86955	177778
Des Moines	0	0	0	0	0	0	0
Dickinson	315459	389669	397068	0	0	0	0
Dubuque	0	0	0	0	0	0	250000
Emmet	0	0	0	0	0	0	0
Fayette	0	0	0	0	*	0	0
Floyd	0	0	0	0	0	0	0
Franklin	100000	120000	140000	0	0	0	97042
Fremont	102132	128500	31521	159400	222137	29183	34000
Greene	2650000	2917964	2938617	0	110000	420000	420000
Grundy	844098	835725	251027	0	45000	0	0
Guthrie	240000	260000	270000	280000	290000	0	0
Hamilton	135000	155000	170000	185000	200000	0	0
Hancock	0	0	0	0	0	0	0
Hardin	*	0	0	0	0	0	0
Harrison	400000	0	0	0	0	0	0
Henry	590000	765000	865000	955000	1160000	2065000	2275000
Howard	113075	135151	135151	0	0	145000	210000
Humboldt	0	0	0	0	0	80000	80000
Ida	187157	228624	278048	0	0	15000	30000
Iowa	105000	306028	261028	50000	55000	0	0
Jackson	1125263	1368014	1606720	1415000	1575000	1875000	2005000
Jasper	181383	349098	504175	647566	0	0	0

*No data listed in the annual reports or data not reported by the deadline.

Table 1. Outstanding obligations (\$) of Iowa Counties, 1987-1994 (continued).

County	30 June 1994	30 June 1993	30 June 1992	30 June 1991	30 June 1990	30 September 1988	30 September 1987
Jefferson	367500	0	0	0	0	0	0
Johnson	183625	201988	219476	0	0	0	200000
Jones	*	242579	210000	0	0	0	0
Keokuk	115000	60000	60000	135000	150000	0	0
Kossuth	600000	675000	750000	800000	850000	0	0
Lee	8630000	1805000	7975000	2270000	2085000	655000	685000
Linn	4978951	4978951	5922442	5182112	5908338	13800000	14100000
Louisa	0	10260	12540	14820	17100	85520	147800
Lucas	*	0	0	0	0	1545000	1545000
Lyon	0	0	0	0	0	0	0
Madison	745000	885000	1000000	315000	430000	630000	725000
Mahaska	956670	1067971	895000	975000	0	0	0
Marion	580171	722307	779429	0	0	0	0
Marshall	0	0	0	0	0	570000	860000
Mills	575710	809648	815904	0	0	0	0
Mitchell	361952	475855	532326	413606	673134	205000	265000
Monona	362809	442804	488802	519392	631915	581733	0
Monroe	1105000	1235000	1355000	1455000	515000	580000	610000
Montgomery	0	0	0	0	0	0	0
Muscatine	375000	750000	1050000	1645000	1649803	2177100	2410000
O'Brien	0	0	0	0	0	0	0
Osceola	410262	449254	0	0	0	0	0
Page	805000	875000	0	0	0	0	0
Palo Alto	0	0	0	0	0	0	0
Plymouth	360393	454307	492885	0	0	0	0
Pocahontas	202955	152237	242579	0	0	0	0
Polk	63895000	67350000	58135000	51470000	50525000	8570130	9900000
Pottawattamie	0	0	0	105900	*	825000	825000
Poweshiek	455455	265682	315682	95000	135000	205000	235000
Ringgold	227861	283425	332663	0	0	0	30000
Sac	554498	613316	358780	0	447014	0	0
Scott	5885000	6255000	2735000	3160000	*	3795000	3795000
Shelby	206499	235511	0	0	0	0	0
Sioux	0	0	0	0	0	0	0
Story	1670000	1930000	2183333	2213494	*	0	0
Tama	580000	650000	720000	785000	850000	370000	210000
Taylor	*	20000	40000	60000	80000	110000	125000
Union	515000	480000	555000	680000	680000	830000	0
Van Buren	0	0	0	0	*	0	0
Wapello	1864721	934899	1198532	456570	0	0	0
Warren	1695357	422992	488669	0	0	0	0
Washington	1265562	1429000	962510	1046936	614866	0	0
Wayne	254000	200000	225000	245000	0	0	0
Webster	1765000	2315000	2315000	2740000	5472000	6525000	7020000
Winnebago	6424743	5481753	5189681	2162685	0	*	*
Winneshiek	177525	194720	0	0	0	0	0
Woodbury	9307965	9100000	9730000	10010000	10675000	53939300	54650000
Worth	102566	116976	0	0	0	0	0
Wright	1055471	250000	465000	475000	475000	600000	655000
State of Iowa	156383327	164156067	152924247	125522862	107153211	115739109	114955826

Figure 1. Outstanding obligations of Iowa's counties, 1987-1994.



Vehicles Registered in Iowa's Counties: 1984-1993

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Sandra Charvat Burke, Iowa State University

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) (61.3% of all registered) and trucks (Table 2) (22.6% of all registered) in 1993. The total number of vehicles listed for the state was 3,176,817 in 1993, an increase of 243,803 from the 2,933,014 reported in 1984 (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.

In 1990, the count of vehicles was greater than the number of people indicated in the census that year. Autos and trucks totaled 2,562,285 in 1990; potential drivers (residents 14 and older) numbered 2,208,500 according to the census. When auto and truck registrations are summed, their totals exceed the number of residents of all ages in 30 counties in 1990. At least 500 more automobiles and trucks than people were counted in four counties (Fremont, Greene, Harrison, Monona), while residents were outnumbered by cars and trucks by at least 100 in another 21 counties.

The number of autos registered in 1993 was nearly 204,000 higher than the number reported in 1984. In 1993, an all-time high was reached when nearly 1,950,000 autos were registered. The previous peak was in 1987, when more than 1,936,000 were listed (Figure 1). The number of truck registrations also reached a new high in 1993 (717,200). When 1984 and 1993 are compared, trucks increased by more than 86,000 (Figure 2).

Fewer than 10,000 automobiles were registered in 43 counties in 1993; more than 50,000 were recorded in eight others. Linn, Polk, and Scott were the only counties with more than 100,000; six (Adams, Audubon, Decatur, Ringgold, Taylor, Wayne) were under 5,000. Seven counties (Adams, Audubon, Cass, Greene, Kossuth, Palo Alto, Pocahontas) had fewer automobile registrations in 1993 than in 1984. Gains of 1,000 or more occurred in 47 counties; five of these increased by at least 10,000 (Johnson, Linn, Polk, Scott, Woodbury).

Truck registrations also varied by county in 1993, with 50 reporting fewer than 5,000 and 13 with more than 10,000. Increases between 1984 and 1993 ranged from less than 100 in five counties to more than 1,000 in 19 others. Gains of at least 3,000 occurred in Linn, Polk, Pottawattamie, Scott, Woodbury, and the category of trucks used for official purposes. Only three counties (Calhoun, Humboldt, Wright) had fewer trucks in 1993 than in 1984.

Total vehicle registrations in 1993 ranged widely across the state. Polk's 345,987 was more than twice the number in every county except Linn (184,363). Black Hawk, Scott, and Woodbury also had at least 100,000 registered vehicles. Eight counties reported fewer than 10,000 vehicles, although only two (Adams, Ringgold) were under 8,000. Between 1984 and 1993, 10 counties had declines in the total number of vehicles registered. Gains exceeded 10,000 in six counties (Johnson, Linn, Polk, Scott, Story, Woodbury) plus those used for official purposes.

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 Counties, 1984-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	5480	5503	5504	5451	5382	5309	5540	5490	5516	5323
Adams	3285	3250	3271	3293	3308	3338	3601	3496	2896	3287
Allamakee	9210	9192	9049	8963	8796	8598	9274	9060	9003	8182
Appanoose	9534	9394	9229	9085	8867	8732	9425	9129	8879	8304
Audubon	4591	4638	4670	4694	4695	4637	4984	4964	4974	4839
Benton	15792	15494	15326	15087	14782	14359	14853	14407	11413	13197
Black Hawk	85562	84951	84421	82961	81398	79951	84389	83443	84727	81044
Boone	17686	17571	17393	17081	16938	16661	17293	16836	13907	14964
Bremer	15581	15477	15436	15269	15025	14625	15240	15094	15078	14408
Buchanan	13144	13095	12995	12872	12646	12402	13204	12901	12730	12121
Buena Vista	13397	13388	13249	13059	12812	12570	13263	13289	13369	12708
Butler	11126	11112	11051	10983	10812	10648	10910	10719	10716	10307
Calhoun	7901	7825	7802	7851	7808	7763	8027	7873	7975	7841
Carroll	14364	14245	13950	13871	13686	13560	14212	14041	13993	13352
Cass	10455	10440	10440	10502	10434	10389	11269	11319	11409	10769
Cedar	12278	12259	12070	11901	11699	11401	11605	11229	9257	10698
Cerro Gordo	32870	32717	32675	32535	32338	31705	33118	32648	32825	31248
Cherokee	10072	9906	9887	9726	9594	9476	10159	9975	10043	9633
Chickasaw	9491	9530	9504	9345	9225	9089	9611	9469	9545	9028
Clarke	5532	5494	5425	5363	5317	5292	5567	5383	5283	4887
Clay	12502	12531	12406	12314	12086	11901	12391	12235	10138	11804
Clayton	12209	12235	12049	11876	11590	11460	12300	12056	12011	11247
Clinton	34321	34276	33943	33369	32714	32297	36608	36913	36599	33495
Crawford	11171	11101	11040	10940	10881	10879	11990	11775	11648	10905
Dallas	22048	21603	21032	20756	20272	19907	20412	19450	16163	18080
Davis	5285	5227	5295	5266	5248	5141	6211	5876	5710	5179
Decatur	4992	4993	5033	5060	4947	4832	5016	4945	4891	4559
Delaware	11793	11671	11644	11554	11473	11279	11533	11192	11040	10430
Des Moines	29514	29760	29594	29344	28853	28472	31200	30894	30351	27856
Dickinson	11475	11311	11062	10512	10310	10161	10468	10093	9989	9391
Dubuque	57570	57192	56199	54753	53979	53065	59065	58656	57520	52209
Emmet	7981	7997	7911	7799	7646	7530	8126	7991	8067	7619
Fayette	14890	14846	14776	14701	14463	14106	14820	14560	14579	13854
Floyd	12115	11984	11928	11869	11824	11630	12487	12305	12370	11688
Franklin	7996	8001	7916	7952	7845	7767	8038	7936	6547	7259
Fremont	5870	5870	5775	5686	5541	5472	5849	5663	5615	5298
Greene	7141	7130	7111	7065	7072	7017	7409	7294	7330	7191
Grundy	8640	8642	8565	8507	8398	8327	8577	8479	8520	8363
Guthrie	7839	7747	7554	7474	7363	7262	7336	7070	7051	6793
Hamilton	11636	11531	11485	11433	11340	11245	11649	11324	11283	10780
Hancock	8417	8465	8477	8560	8526	8398	8564	8396	8423	8057
Hardin	13161	13116	13110	13075	12890	12789	13787	13652	13658	13069
Harrison	10715	10543	10414	10261	9911	9881	11400	10829	8441	9379
Henry	12287	12083	12081	11806	11479	11265	12122	11830	11561	10709
Howard	6926	6871	6898	6710	6539	6452	6897	6624	6694	6283
Humboldt	7736	7664	7660	7673	7601	7478	7820	7776	7738	7395
Ida	5760	5783	5691	5755	5628	5557	5749	5559	5534	5263
Iowa	10440	10392	10160	9977	9878	9651	9975	9849	9854	9392
Jackson	13443	13401	13335	13195	12807	12667	13935	13453	13195	12105
Jasper	24673	24568	24348	24278	23919	23521	24134	23421	23179	21949

Table 1. Automobile Registrations in Iowa Counties, 1984-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	11565	11511	11462	11380	10957	10796	11989	11703	11442	10325
Johnson	58305	57125	55877	54317	52539	50609	51472	49942	48663	44503
Jones	12766	12632	12494	12340	12151	11815	12269	11970	11739	11104
Keokuk	7733	7711	7778	7732	7704	7606	7920	7821	7790	7417
Kossuth	12930	12965	13042	13205	13137	13050	13571	13437	13615	13165
Lee	26316	26282	26158	25860	25439	25100	27928	26883	22370	24563
Linn	125930	123789	122551	119665	117698	115005	119389	116859	113211	103466
Louisa	7993	7940	7834	7612	7504	7301	7418	7162	7000	6600
Lucas	6004	5950	5967	5943	5847	5781	6081	6036	5997	5708
Lyon	8279	8205	8050	7850	7696	7590	8355	8118	8126	7578
Madison	8450	8344	8286	8163	7999	7859	7863	7589	7546	7041
Mahaska	14361	14169	14102	13905	13672	13442	14192	13829	13701	12868
Marion	19823	19465	19065	18872	18495	18077	18722	18198	17917	16880
Marshall	27176	27112	27095	26867	26584	26154	26982	26723	26734	25453
Mills	9407	9269	8916	8728	8513	8343	8826	8538	8328	7468
Mitchell	7685	7668	7624	7569	7435	7215	7866	7690	7705	7185
Monona	7108	7039	6857	6796	6681	6561	6837	6669	6662	6278
Monroe	5569	5457	5336	5359	5318	5339	5556	5378	5382	5119
Montgomery	8370	8234	8188	8244	8169	7996	8476	8220	6858	7782
Muscatine	28049	27874	27414	26746	26135	25507	27298	26899	26792	24652
O'Brien	10636	10558	10463	10376	10146	10056	10876	10677	10699	10262
Osceola	5058	5098	5007	4859	4823	4800	5015	4921	5016	4743
Page	11169	11136	11000	11098	11013	10694	11452	11284	11286	10645
Palo Alto	6911	6936	6914	6904	6848	6851	7203	7082	7226	7038
Plymouth	16189	15937	15547	15117	14777	14491	16698	16578	16103	14665
Pocahontas	6580	6535	6593	6702	6705	6717	6963	6915	6952	6752
Polk	248409	243786	239108	234947	228496	222361	240456	235431	237309	217427
Pottawattamie	62575	62209	61339	60328	59648	59082	72252	69462	64682	55852
Poweshiek	12027	12056	12045	12017	11867	11626	12287	12091	11904	10971
Ringgold	3546	3557	3551	3562	3450	3367	3576	3563	3559	3345
Sac	8199	8190	8166	8237	8180	8040	8379	8361	8378	8168
Scott	109503	110807	107668	106397	103022	107838	114677	111386	109691	96996
Shelby	9018	9048	8999	9027	9008	8976	9323	9085	9091	8716
Sioux	18606	18191	17700	17346	16916	16675	18075	17586	17737	16624
Story	43977	43414	42777	41938	41213	40186	41202	39264	32440	36172
Tama	12161	11917	11837	11808	11717	11385	11830	11726	11659	11126
Taylor	4684	4690	4710	4697	4723	4651	4856	4788	4773	4513
Union	8631	8636	8622	8658	8498	8309	8667	8536	8332	7794
Van Buren	5067	5019	5006	5000	4930	4811	5224	5134	5101	4699
Wapello	25023	24656	24247	23878	23674	23098	24198	24030	24125	22502
Warren	25053	24568	24309	23992	23474	23011	23398	22468	22103	20504
Washington	13183	13130	12949	12871	12562	12301	12748	12479	12414	11718
Wayne	4717	4651	4703	4658	4594	4574	4844	4820	4800	4458
Webster	27613	27454	27295	27252	27019	26499	27790	27637	27958	26669
Winnebago	8684	8630	8620	8658	8579	8757	8942	8640	8557	8063
Winneshiek	12958	12851	12814	12583	12414	12148	12938	12657	12628	11683
Woodbury	69254	67924	66535	64862	63111	61681	66746	64640	63420	58054
Worth	5683	5750	5705	5696	5694	5631	5843	5751	5834	5471
Wright	9834	9756	9758	9780	9730	9657	9910	9564	8051	9537
Official	10172	9925	9698	9516	9189	9112	9115	8579	8084	7791
Unknown	323	353	356	386	412	349	451	507	2090	1445
State of Iowa	1947159	1930124	1905976	1879715	1844690	1816794	1936356	1894167	1848817	1743299

Table 2. Truck Registrations in Iowa Counties, 1984-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	3411	3407	3335	3314	3280	3261	3315	3168	3197	3117
Adams	2032	2003	1988	2032	2038	2023	2127	1994	1695	1921
Allamakee	4488	4439	4329	4296	4172	4094	4263	4094	3993	3780
Appanoose	4700	4568	4508	4417	4329	4225	4425	4249	4159	3986
Audubon	2598	2615	2625	2645	2596	2566	2654	2574	2590	2534
Benton	7259	7089	6967	6784	6600	6494	6639	6384	5289	6206
Black Hawk	23117	22705	22288	21816	21233	20823	21862	21965	22347	21789
Boone	7148	6982	6815	6624	6523	6375	6391	6201	5277	5532
Bremer	6023	5947	5855	5767	5649	5554	5655	5478	5464	5297
Buchanan	5887	5824	5747	5622	5515	5402	5596	5392	5396	5252
Buena Vista	5283	5212	5158	5049	4980	4938	5135	4965	5015	4858
Butler	5016	4965	4908	4805	4745	4736	4845	4722	4843	4764
Calhoun	3530	3519	3553	3553	3509	3459	3518	3482	3558	3578
Carroll	6173	6028	5927	5862	5773	5666	5935	5774	5802	5614
Cass	5135	5091	5034	5022	4929	4786	5208	5167	5146	4963
Cedar	5672	5534	5478	5328	5274	5210	5276	5141	4208	5018
Cerro Gordo	9807	9700	9638	9542	9383	9157	9676	9590	9514	9141
Cherokee	4380	4312	4300	4226	4161	4117	4218	4206	4222	4202
Chickasaw	3902	3852	3827	3816	3732	3636	3942	3835	3803	3685
Clarke	2902	2864	2837	2812	2772	2743	2818	2730	2634	2499
Clay	4698	4677	4595	4606	4486	4357	4504	4391	3738	4358
Clayton	6293	6201	6126	5987	5950	5820	6105	5962	5930	5723
Clinton	11748	11643	11496	11225	10899	10694	11643	11405	11410	10680
Crawford	5638	5559	5510	5441	5398	5306	5540	5413	5417	5187
Dallas	8725	8501	8397	8271	8074	7878	7919	7634	6441	7329
Davis	3000	2911	2868	2833	2783	2699	2861	2781	2773	2601
Decatur	2918	2873	2868	2896	2830	2702	2795	2728	2674	2529
Delaware	5269	5127	5092	4952	4866	4777	4821	4697	4705	4617
Des Moines	10344	10197	10106	9855	9595	9402	10032	9712	9484	8980
Dickinson	4357	4185	4070	3969	3830	3764	3851	3822	3828	3698
Dubuque	15143	14748	14418	14155	13810	13488	15001	14606	14455	13405
Emmet	3433	3377	3314	3236	3201	3178	3335	3311	3387	3274
Fayette	6197	6106	6039	5977	5850	5688	5911	5713	5720	5572
Floyd	4921	4869	4794	4693	4607	4550	4861	4781	4759	4620
Franklin	3676	3629	3579	3561	3564	3567	3573	3526	2954	3315
Fremont	3536	3492	3433	3310	3286	3240	3345	3298	3340	3240
Greene	3828	3707	3650	3550	3520	3479	3607	3594	3687	3715
Grundy	3803	3742	3730	3613	3566	3532	3645	3596	3663	3595
Guthrie	3921	3812	3788	3680	3624	3566	3625	3539	3565	3476
Hamilton	4788	4693	4658	4667	4644	4592	4688	4595	4627	4603
Hancock	3735	3674	3703	3696	3622	3593	3839	3773	3766	3625
Hardin	5602	5504	5393	5353	5288	5225	5381	5357	5415	5329
Harrison	5707	5584	5443	5328	5177	5148	5567	5343	4418	4959
Henry	5833	5709	5638	5532	5384	5297	5527	5277	5160	4850
Howard	3185	3086	3081	3029	3004	2972	3163	3055	3088	2965
Humboldt	3283	3273	3307	3351	3308	3234	3277	3286	3329	3320
Ida	2969	2939	2919	2934	2843	2804	2846	2829	2808	2762
Iowa	5150	5046	5006	4909	4813	4690	4761	4655	4639	4437
Jackson	5925	5849	5780	5671	5480	5411	5826	5625	5579	5335
Jasper	9744	9643	9540	9512	9344	9156	9317	8986	8913	8551

Table 2. Truck Registrations in Iowa Counties, 1984-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	4406	4330	4232	4152	4080	4023	4389	4332	4298	4128
Johnson	14364	13879	13494	13223	12913	12522	12741	12388	12217	11554
Jones	5758	5607	5521	5439	5362	5270	5440	5323	5304	5173
Keokuk	4277	4243	4181	4165	4146	4094	4296	4097	4147	3998
Kossuth	5675	5628	5616	5684	5573	5464	5652	5580	5664	5617
Lee	10564	10399	10155	9962	9736	9659	10366	10039	8401	9243
Linn	33564	32610	31757	31069	30316	29545	29985	29148	28449	26580
Louisa	4152	4109	4013	3945	3865	3862	3925	3842	3799	3607
Lucas	3223	3197	3140	3076	3011	2890	3038	2966	2949	2881
Lyon	3780	3713	3700	3634	3507	3409	3710	3590	3621	3495
Madison	4650	4563	4549	4480	4371	4244	4281	4080	4013	3860
Mahaska	6522	6396	6309	6224	6042	5908	6157	6020	5918	5605
Marion	8515	8376	8157	7933	7775	7584	7779	7520	7375	6946
Marshall	9616	9485	9388	9243	8988	8855	9140	9020	8970	8746
Mills	4531	4433	4314	4188	4127	4052	4192	4060	3960	3661
Mitchell	3509	3420	3378	3338	3243	3185	3331	3245	3290	3200
Monona	4128	4062	3993	4000	3921	3867	4000	3901	3986	3854
Monroe	2787	2791	2731	2695	2617	2610	2720	2686	2687	2571
Montgomery	4124	4087	3991	3955	3892	3788	3876	3707	3192	3649
Muscatine	10547	10377	10077	9937	9627	9308	9697	9548	9495	8918
O'Brien	4286	4240	4183	4179	4100	4083	4258	4123	4118	4016
Osceola	2529	2575	2529	2469	2466	2403	2381	2295	2357	2334
Page	5166	5025	4972	4885	4790	4754	4982	4818	4800	4609
Palo Alto	3219	3186	3164	3117	3104	3117	3193	3098	3163	3185
Plymouth	6800	6746	6588	6435	6207	6166	6788	6569	6445	6154
Pocahontas	2987	2992	3010	3023	3012	2944	2981	2935	2954	2937
Polk	58475	56562	55441	54131	52148	50747	54567	53145	52852	48729
Pottawattamie	22075	21848	21615	21515	21345	21104	23316	22378	21258	18771
Poweshiek	5962	5893	5778	5708	5655	5594	5910	5674	5497	5211
Ringgold	2244	2234	2237	2221	2199	2163	2236	2166	2204	2118
Sac	4120	4098	4055	4015	3915	3843	3927	3868	3870	3854
Scott	27325	27429	26601	25978	24869	25615	26778	26050	25588	22916
Shelby	4574	4543	4478	4426	4324	4278	4383	4227	4217	4096
Sioux	7752	7625	7431	7242	6993	6866	7259	6971	7025	6783
Story	11822	11510	11281	11072	10837	10558	10837	10425	8459	9752
Tama	6090	5949	5847	5782	5673	5599	5741	5653	5617	5471
Taylor	2620	2580	2556	2580	2579	2587	2657	2690	2655	2562
Union	4142	4054	3990	3955	3806	3734	3808	3721	3658	3548
Van Buren	3035	2966	2848	2806	2781	2734	2895	2814	2793	2621
Wapello	9399	9190	9028	8717	8551	8413	8797	8752	8923	8490
Warren	9547	9331	9170	8970	8795	8558	8719	8418	8313	7942
Washington	5932	5789	5768	5647	5547	5494	5545	5469	5469	5202
Wayne	2770	2728	2691	2665	2568	2540	2640	2595	2607	2512
Webster	9697	9578	9421	9351	9216	9051	9608	9486	9632	9342
Winneshiek	3686	3639	3560	3589	3555	3560	3531	3426	3452	3323
Winneshiek	5904	5838	5718	5710	5564	5574	5888	5684	5633	5283
Woodbury	20916	20381	20063	19790	19577	18919	20184	19428	19098	17788
Worth	2740	2724	2694	2676	2657	2606	2721	2621	2615	2545
Wright	4085	4129	4120	4067	4043	3983	4179	3981	3450	4102
Official	22278	22280	22077	21842	21439	21197	20358	18879	18258	18728
Unknown	502	534	529	541	617	672	175	1446	1586	446
State of Iowa	717203	704913	693597	682570	667883	656669	684621	667298	652125	631042

Table 3. Total Vehicle Registrations in Iowa Counties, 1984-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	10870	10851	10755	10680	10619	10562	10986	10781	10885	10469
Adams	6270	6208	6265	6359	6355	6359	6788	6406	5404	6146
Allamakee	17042	16940	16696	16529	16163	15825	16924	16515	16376	15164
Appanoose	17168	16820	16528	16300	15972	15762	16907	16501	16402	15506
Audubon	8792	8798	8850	8868	8773	8684	9260	9201	9256	8963
Benton	27561	27130	26652	26174	25611	25260	26004	24152	19611	22867
Black Hawk	128149	127164	126134	124398	122376	120719	128643	128263	131405	127537
Boone	29536	29219	28816	28337	28225	27813	28668	27132	22908	24997
Bremer	26873	26605	26426	26149	25735	25223	26178	25915	26020	25030
Buchanan	23740	23706	23471	23147	22766	22338	23531	22948	22969	22180
Buena Vista	23067	22979	22788	22511	22256	21951	23161	22966	23283	22584
Butler	20294	20210	20059	19868	19604	19415	20156	19819	19989	19238
Calhoun	14372	14265	14235	14278	14180	14089	14585	14434	14759	14507
Carroll	24540	24231	23888	23642	23355	23134	25182	24780	24996	23950
Cass	18971	18908	18840	18873	18709	18538	20177	20114	20359	19420
Cedar	21565	21310	21042	20746	20506	20136	20494	19321	15897	18664
Cerro Gordo	50865	50595	50479	50205	49918	49090	51520	51115	51280	49062
Cherokee	18064	17764	17735	17456	17220	17035	18105	17907	18176	17684
Chickasaw	16971	16962	16837	16616	16350	16035	17068	16834	16935	16154
Clarke	10109	10004	9933	9845	9764	9632	10108	9889	9683	9007
Clay	20974	20926	20653	20490	20071	19736	20533	19488	16449	19571
Clayton	23218	23145	22872	22541	22152	21754	22980	22564	22532	21324
Clinton	55399	55319	54829	54044	53050	52504	58395	58518	58640	54522
Crawford	20305	20143	20039	19849	19819	19728	21505	21163	21153	20071
Dallas	36296	35581	34872	34476	33796	33230	33898	31666	26642	30839
Davis	9948	9754	9759	9696	9606	9380	10695	10341	10289	9446
Decatur	9624	9572	9614	9632	9441	9211	9682	9567	9543	8904
Delaware	20772	20405	20320	20032	19805	19445	19968	19389	19278	18408
Des Moines	47978	48167	47924	47567	46907	46567	50853	50414	49971	46956
Dickinson	20390	19963	19499	18732	18333	18011	18586	18170	18203	17493
Dubuque	83988	83241	81919	80167	79147	77964	87274	86472	85699	78764
Emmet	14612	14571	14380	14164	13944	13735	14810	14595	14974	14317
Fayette	26074	25875	25734	25531	25146	24633	25818	25363	25623	24687
Floyd	21220	20965	20741	20535	20369	20139	21568	21277	21533	20507
Franklin	14161	14094	13980	14010	13938	13892	14307	13769	11587	12955
Fremont	11077	10967	10752	10499	10313	10156	10816	10593	10668	10149
Greene	13669	13517	13435	13280	13287	13219	13955	13870	14153	13940
Grundy	15692	15594	15519	15319	15146	15084	15628	15481	15696	15308
Guthrie	14468	14257	14001	13780	13591	13398	13677	13363	13509	12932
Hamilton	20450	20248	20191	20075	19990	19866	20709	20321	20495	19834
Hancock	15451	15417	15486	15528	15440	15230	15840	15565	15626	14930
Hardin	23404	23226	23119	23099	22877	22901	24427	24292	24558	23708
Harrison	18929	18602	18337	18064	17524	17476	19568	18387	14790	16735
Henry	22007	21618	21508	21063	20556	20339	21898	21231	20953	19528
Howard	12618	12384	12360	12082	11875	11722	12484	12051	12205	11485
Humboldt	14199	14054	14070	14069	13860	13604	14272	14275	14342	13819
Ia	10896	10867	10754	10813	10546	10367	10874	10591	10538	10090
Iowa	18811	18546	18294	17996	17751	17377	17869	17612	17622	16760
Jackson	23770	23585	23376	23123	22478	22235	24159	23391	23181	21655
Jasper	41884	41605	41264	41205	40702	40160	41408	40413	40426	38720

Table 3. Total Vehicle Registrations in Iowa Counties, 1984-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	19061	18884	18748	18604	18046	17757	19683	19339	19070	17863
Johnson	83470	81727	80092	78101	75896	73576	75562	73165	71897	67185
Jones	22503	22168	21913	21621	21273	20780	21688	21208	21016	20110
Keokuk	14541	14463	14450	14436	14422	14299	15039	14729	14838	14173
Kossuth	23070	23039	23144	23337	23130	22931	24012	23807	24288	23677
Lee	42978	42883	42420	41999	41420	41087	45114	42489	35902	39934
Linn	184363	181401	179232	175588	173052	170348	176984	173262	169573	156913
Louisa	15027	14920	14720	14426	14174	13970	14245	13824	13709	13003
Lucas	11327	11236	11176	11103	10934	10749	11475	11428	11487	11032
Lyon	15161	15032	14798	14457	14171	13891	15281	14807	14834	13918
Madison	15852	15639	15562	15274	14960	14716	14870	14391	14375	13565
Mahaska	25774	25416	25232	25015	24606	24278	25725	25250	25137	23804
Marion	34292	33810	33092	32638	32035	31355	32594	31803	31440	29754
Marshall	43792	43700	43686	43401	43012	42538	44225	44031	44399	42972
Mills	16373	16122	15608	15279	14917	14645	15489	15035	14798	13479
Mitchell	13819	13673	13569	13453	13199	12885	13847	13542	13735	12936
Monona	13483	13336	13115	13080	12860	12629	13109	12804	12945	12282
Monroe	10101	9969	9732	9696	9538	9563	10004	9821	9880	9467
Montgomery	14569	14413	14210	14250	14089	13821	14440	13762	11708	13465
Muscatine	46946	46730	45973	45198	44277	43346	45919	45444	45694	42942
O'Brien	19161	19004	18833	18682	18321	18144	20082	19288	19363	18670
Osceola	9639	9743	9540	9314	9234	9145	9454	9248	9488	9001
Page	19390	19189	18970	18971	18825	18488	19767	19465	19554	18458
Palo Alto	12509	12450	12391	12335	12286	12331	13002	12841	13210	12857
Plymouth	28237	27778	27083	26395	25693	25320	28580	27994	27543	25504
Pocahontas	12192	12130	12125	12282	12265	12191	12677	12629	12800	12425
Polk	345987	339445	333645	328135	319830	312489	351074	341339	341538	313107
Pottawattamie	96718	96388	95455	94355	93458	92728	110509	106659	101168	88647
Poweshiek	22273	22220	22068	21976	21750	21492	22710	22254	21844	20322
Ringgold	7105	7125	7117	7097	6930	6816	7146	7089	7181	6827
Sac	15252	15186	15103	15126	14944	14710	15244	15127	15268	14917
Scott	155230	156817	152714	150730	146623	152901	162968	158481	157132	140786
Shelby	16464	16474	16299	16263	16083	16123	16779	16335	16483	15836
Sioux	33675	33026	32119	31511	30674	30149	32484	31428	31705	29909
Story	64996	64186	63297	62339	61417	60110	61273	57150	47690	54316
Tama	22388	21987	21781	21660	21457	21007	21929	21753	21795	20901
Taylor	8850	8791	8832	8827	8867	8853	9334	9347	9396	8983
Union	15566	15524	15469	15456	15141	14878	15444	15290	15096	14253
Van Buren	10037	9886	9679	9581	9440	9260	9932	9794	9783	9087
Wapello	41205	40555	39963	39235	38979	38349	40229	40185	41135	38996
Warren	41411	40644	40202	39740	39170	38500	39472	38328	38074	35913
Washington	23157	22964	22757	22508	22170	21915	22679	22398	22608	21449
Wayne	8985	8893	8877	8814	8628	8640	9259	9135	9136	8582
Webster	44338	44024	43540	43377	43037	42383	45987	45630	46510	44589
Winnebago	15489	15384	15270	15325	15193	15376	15672	15285	15248	14348
Winneshiek	22655	22449	22248	21934	21578	21404	22856	22362	22430	20799
Woodbury	103638	101624	100127	98031	96166	94182	103417	100028	98613	90801
Worth	10544	10565	10458	10388	10366	10211	10643	10457	10559	10015
Wright	17178	17084	17243	17099	17098	17055	17619	16595	14049	16542
Official	48047	47680	46850	45861	44837	44081	42349	39772	38318	37344
Unknown	896	966	968	1092	1167	1396	1346	11952	12569	18870
State of Iowa	3176817	3145619	3107525	3067837	3017555	2980454	3184122	3118764	3065482	2933014

Figure 1. Automobile registrations in Iowa, 1984-1993.

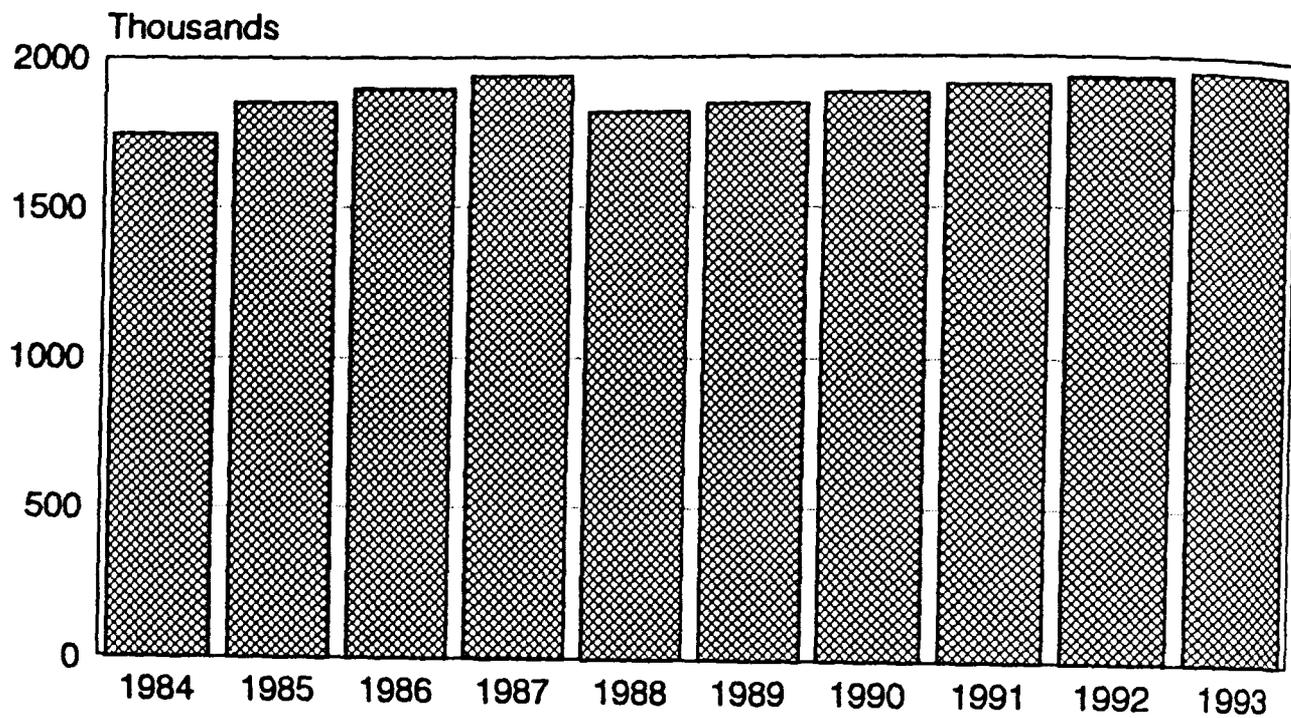
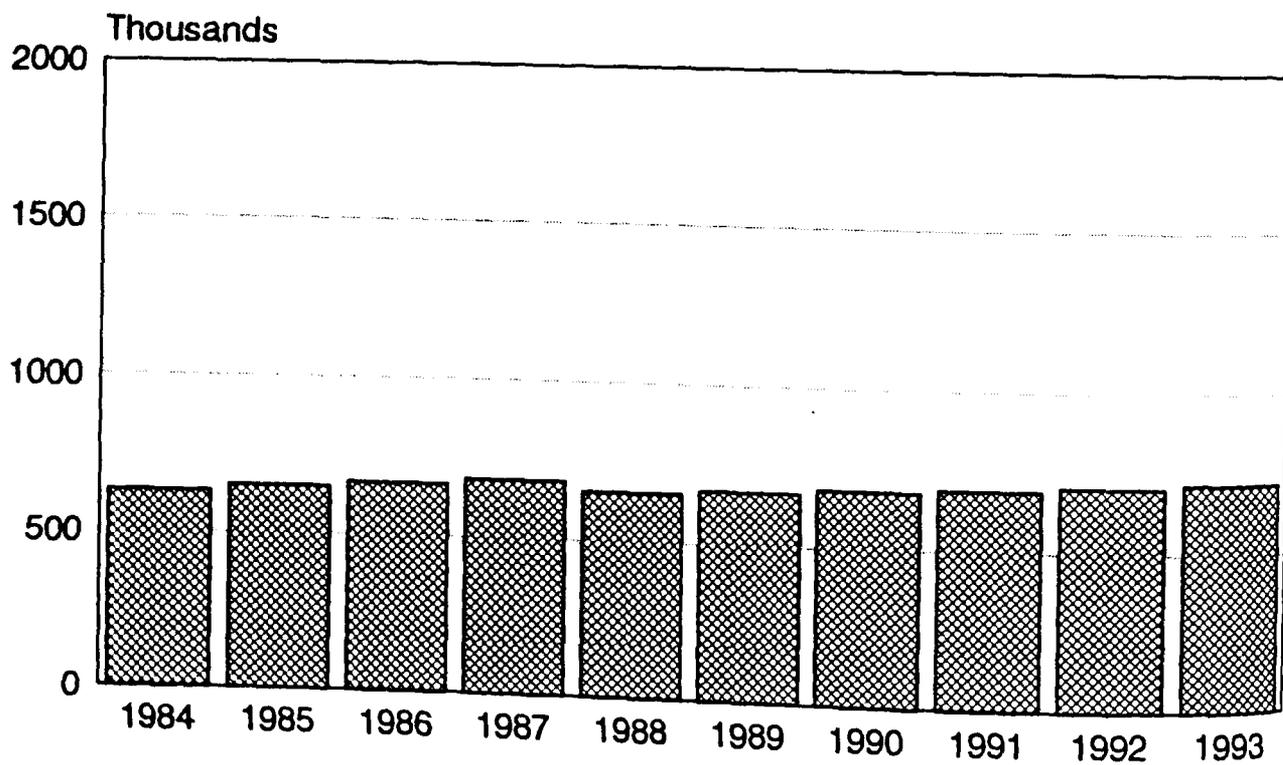


Figure 2. Truck registrations in Iowa, 1984-1993.



Food Stamps in Iowa's Counties:

1980-1993

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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 each year from 1980 through 1993; numbers from monthly reports were summed and divided by 12. Through this period, the federal government has made changes in the eligibility requirements for the food stamp program. Such changes have some effect on year-to-year comparisons.

Households Receiving Food Stamps

An average of 78,758 Iowa households received food stamps each month in 1993 (Table 1). This was an increase of 1,784 from the 1992 figure and continued the upward trend from 1989. More than 75,000 households received food stamps monthly from 1983 through 1987 and in 1992-1993. The lowest monthly average (57,449) was in 1980.

Polk averaged 11,342 households receiving food stamps each month in 1993, 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 43 percent of Iowa's average monthly food stamp households that year. Twenty-three counties had 500 to 1,999 households receiving food stamps, while the remaining 70 counties averaged 100 to 499 households monthly.

Most counties (65) averaged more households in the program in 1993 than in 1992. Five (Black Hawk, Linn, Polk, Pottawattamie, Scott) increased by more than 100 households. Of the 33 counties with fewer households in the program in 1993 than in 1992, the largest decrease was in Woodbury (-133); no other decline was greater than 35. Buena Vista reported the same number of households receiving food stamps in 1992 and 1993.

A comparison of 1983 with 1993 indicates that Iowa averaged 511 fewer households in the program at the end of the period than at the beginning. Likewise, 49 counties also had lower averages in 1993 than in 1983. Dubuque dropped by an average of 1,028 households, the highest decrease of any county. Black Hawk (-792) and Linn (-608) were the only others to decline by an average of 500 or more households. Six counties had 100 to 499 fewer households receiving food stamps in 1993 than in 1983. Of the 50 counties that had more households receiving food stamps in 1993 than in 1983, 15 increased by more than 100 households. Pottawattamie (+567) and Scott (+939) were the only counties that gained more than 500 between those years.

An examination of the 14 years of data reveals that Iowa is again approaching the level of household participation in the food stamp program that was experienced at the high point in the mid-1980s. During the years from 1980 through 1983, a large majority of the counties showed annual increases in the average number of households in the food stamp program. Participation moderated somewhat in 1984, but then most of the counties gained in 1985 and 1986. These trends reversed after 1986. A majority of the counties registered declines in the number of households receiving food stamps through 1987, 1988, and 1989. But the 1990 through 1993 figures indicate a return to increases in the

Table 1. Average Monthly Number of Households Receiving Food Stamps in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	195	183	185	178	166	170	192	215	215	198	202	161	140	117
Adams	150	153	146	140	131	143	180	176	157	99	96	78	88	91
Allamakee	265	255	234	222	229	268	304	337	316	298	289	280	263	261
Appanoose	734	731	684	664	704	727	747	800	793	797	793	652	536	527
Audubon	115	130	120	112	109	118	139	153	148	115	116	118	127	121
Benton	482	515	484	489	447	457	510	523	527	531	575	517	411	339
Black Hawk	5206	5066	4961	5043	5200	5468	6119	6447	6108	6237	5998	5346	5112	4285
Boone	659	637	566	484	499	513	546	607	590	607	707	625	547	495
Bremer	351	303	322	313	304	352	438	499	458	410	379	350	314	249
Buchanan	486	506	553	536	546	600	706	749	719	689	701	545	507	405
Buena Vista	371	371	346	300	280	303	326	353	317	311	333	320	270	199
Butler	283	299	298	294	294	330	403	465	425	369	356	286	266	229
Calhoun	271	273	256	233	224	246	293	307	279	240	247	233	226	229
Carroll	369	350	340	347	361	345	389	399	390	348	351	336	301	271
Cass	391	365	331	312	298	287	318	358	362	336	336	327	342	301
Cedar	350	337	312	305	297	308	351	360	334	300	307	307	275	275
Cerro Gordo	1427	1396	1305	1224	1174	1165	1249	1296	1173	1131	1267	1188	1149	1039
Cherokee	236	227	213	201	205	226	268	287	260	245	252	233	218	210
Chickasaw	210	221	213	218	219	260	347	372	343	313	303	240	229	189
Clarke	320	315	275	252	230	253	279	292	274	251	268	253	203	180
Clay	416	430	427	413	405	434	499	524	500	453	461	413	398	356
Clayton	278	298	302	315	344	374	431	505	504	488	545	464	425	381
Clinton	1906	1836	1761	1682	1587	1604	1803	1922	1949	1762	1649	1340	1023	876
Crawford	418	398	398	394	376	379	374	385	362	359	384	332	288	265
Dallas	592	593	565	550	539	533	595	653	664	646	642	527	478	434
Davis	236	255	242	247	268	289	319	318	301	293	299	235	207	197
Decatur	455	423	392	365	349	354	349	365	344	327	319	283	271	262
Delaware	361	359	353	376	395	437	539	603	587	533	546	457	441	396
Des Moines	1557	1462	1384	1310	1272	1249	1285	1347	1378	1392	1448	1346	1291	1156
Dickinson	268	265	256	240	241	241	242	243	254	264	287	265	254	245
Dubuque	1868	1879	1840	1867	1917	2089	2439	2643	2652	2746	2896	2382	2055	1715
Emmet	320	339	342	324	285	277	303	343	321	279	319	285	243	227
Fayette	634	626	617	565	568	614	690	752	741	687	691	548	455	397
Floyd	497	491	457	459	443	457	515	523	518	507	562	483	427	408
Franklin	248	256	238	227	213	214	234	246	223	220	237	221	205	189
Fremont	255	244	219	209	215	210	218	217	208	191	180	157	164	170
Greene	231	222	225	200	190	198	218	248	272	260	267	252	229	213
Grundy	136	164	168	148	156	149	166	177	182	170	186	140	134	115
Guthrie	303	289	266	228	244	278	309	322	300	274	290	280	266	254
Hamilton	397	413	379	326	316	348	367	354	336	324	348	346	372	367
Hancock	234	229	223	222	198	206	232	244	207	177	222	212	188	190
Hardin	522	485	429	391	385	413	434	430	363	317	333	333	308	274
Harrison	471	480	444	416	412	427	433	429	446	441	446	398	365	363
Henry	471	458	430	385	347	328	324	343	356	352	373	324	303	296
Howard	218	214	206	220	229	234	285	328	304	289	282	217	214	221
Humboldt	251	244	228	228	221	233	242	240	238	201	200	185	217	190
Ida	113	109	110	92	87	94	109	123	109	98	107	106	93	95
Iowa	177	173	159	151	136	147	180	185	180	146	169	168	145	141
Jackson	563	536	535	519	529	585	655	701	650	606	597	506	412	380
Jasper	758	740	723	641	626	667	758	837	838	886	962	924	850	703

Table 1. Average Monthly Number of Households Receiving Food Stamps in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	574	551	526	484	463	435	442	437	451	466	457	428	368	331
Johnson	1323	1269	1141	998	946	917	934	943	917	937	1010	999	940	781
Jones	386	355	337	321	348	372	420	447	440	431	462	410	395	324
Keokuk	355	340	353	330	299	295	322	356	308	281	287	239	234	217
Kossuth	349	361	334	304	294	302	347	355	316	263	298	294	279	256
Lee	1435	1418	1367	1268	1232	1295	1434	1484	1458	1477	1561	1393	1238	1026
Linn	4628	4518	4343	4029	3927	4083	4614	4850	4842	5023	5236	4737	4307	3541
Louisa	343	341	318	275	258	282	311	336	318	324	331	283	265	268
Lucas	362	344	338	316	313	331	361	377	389	380	386	367	334	316
Lyon	158	150	132	135	135	150	181	191	187	163	161	141	128	113
Madison	253	242	231	210	217	214	239	260	261	253	261	232	201	182
Mahaska	689	697	688	662	632	611	676	748	726	723	764	678	616	547
Marion	664	622	575	519	498	532	608	646	625	658	678	548	485	452
Marshall	1287	1261	1150	1038	1014	1039	1112	1136	1072	1093	1131	1019	850	723
Mills	346	326	316	280	241	251	267	261	246	250	256	250	224	206
Mitchell	165	180	166	156	165	186	197	217	212	201	231	205	190	164
Monona	330	345	327	304	302	307	352	384	349	325	329	314	278	278
Monroe	315	306	301	306	329	358	365	385	336	308	308	266	228	206
Montgomery	341	346	300	266	263	256	278	292	304	282	296	266	243	217
Muscatine	1287	1294	1227	1183	1119	1141	1292	1320	1277	1174	1189	1068	989	988
O'Brien	210	222	189	180	174	220	272	289	256	247	249	214	203	188
Osceola	101	93	96	90	95	105	133	157	136	100	96	79	68	70
Page	543	538	539	494	480	493	518	541	532	492	495	434	412	382
Palo Alto	294	296	279	255	241	254	302	318	319	292	315	304	278	261
Plymouth	274	270	263	255	276	318	362	401	384	345	349	325	310	276
Pocahontas	216	220	208	178	141	148	189	208	178	166	169	154	145	140
Polk	11342	10793	10006	9123	8726	8739	9156	9753	9996	10506	11634	10432	9663	8470
Pottawattamie	3147	3038	2834	2520	2344	2259	2218	2197	2252	2340	2580	2525	2524	2373
Poweshiek	368	364	352	307	262	287	336	379	378	347	340	299	279	239
Ringgold	199	185	181	176	177	193	208	194	215	203	187	165	151	148
Sac	216	226	219	197	203	197	222	244	234	243	228	218	186	168
Scott	6512	6131	5747	5403	5172	5306	5668	5665	5543	5512	5573	4802	3865	3319
Shelby	235	223	211	189	161	174	212	217	222	222	223	202	179	170
Sioux	218	248	248	254	280	286	337	375	312	286	301	277	257	261
Story	1070	1057	958	874	821	773	830	831	875	890	935	819	740	659
Tama	357	391	364	335	321	344	397	406	382	375	387	339	358	341
Taylor	206	192	195	188	176	184	223	243	251	231	232	199	185	188
Union	466	451	448	436	421	403	440	472	478	453	421	347	342	301
Van Buren	209	204	208	198	194	212	231	240	234	233	232	191	166	174
Wapello	1843	1846	1752	1668	1686	1767	1981	2007	1768	1706	1740	1428	1294	1164
Warren	729	706	666	603	568	563	583	604	614	596	611	523	508	456
Washington	369	365	359	343	319	331	350	347	299	257	236	243	241	222
Wayne	249	243	230	223	223	241	268	293	305	282	280	236	203	204
Webster	1694	1651	1593	1478	1456	1442	1587	1589	1438	1411	1442	1296	1177	1048
Winnebago	226	216	208	187	167	160	181	191	179	325	194	183	184	170
Winneshiek	305	295	279	273	284	326	383	429	410	371	369	336	345	283
Woodbury	3049	3182	3069	2847	2729	2889	3313	3283	3259	3268	3146	2940	2861	2698
Worth	176	189	178	180	164	175	195	196	184	184	200	181	170	154
Wright	328	330	306	296	269	285	316	360	353	326	333	300	311	304
State of Iowa	78758	76974	73113	68705	66930	69032	75814	79398	77482	76577	79269	70647	64638	57449

Table 2. Average Monthly Number of Persons Receiving Food Stamps in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	487	452	464	447	399	427	539	644	667	587	592	469	403	344
Adams	407	436	395	379	340	376	522	522	460	282	274	197	222	241
Allamakee	676	634	609	560	594	722	841	965	888	832	813	785	721	724
Appanoose	1853	1865	1742	1677	1753	1870	2006	2211	2211	2263	2311	1944	1591	1542
Audubon	323	370	334	323	308	342	428	479	457	330	334	313	332	302
Benton	1311	1368	1268	1269	1139	1166	1363	1408	1405	1454	1582	1421	1104	901
Black Hawk	12517	12190	12002	11989	12398	13194	15165	16031	15262	15476	14359	12272	11236	10016
Boone	1562	1544	1412	1196	1246	1301	1417	1559	1530	1580	1859	1639	1382	1256
Bremer	930	786	836	779	760	934	1258	1514	1365	1214	1116	970	841	630
Buchanan	1395	1428	1515	1434	1473	1709	2081	2329	2200	2062	2071	1582	1387	1103
Buena Vista	947	962	929	795	766	813	913	999	874	885	940	929	739	547
Butler	713	798	809	789	793	906	1147	1331	1206	1038	1019	803	718	603
Calhoun	654	677	624	585	566	639	807	862	742	595	617	577	565	553
Carroll	932	863	862	869	894	851	1030	1124	1090	944	931	902	803	699
Cass	1056	992	892	830	781	755	876	992	986	851	891	859	887	741
Cedar	899	857	814	783	764	804	943	971	903	823	856	819	692	696
Cerro Gordo	3287	3211	2988	2821	2678	2707	2935	3123	2877	2810	3186	2915	2772	2558
Cherokee	598	585	556	523	509	552	693	768	683	622	646	580	506	483
Chickasaw	558	601	564	571	590	717	982	1102	1017	937	930	699	610	497
Clarke	848	844	749	678	618	713	808	847	803	727	771	733	561	511
Clay	990	1041	1037	978	970	1036	1238	1338	1309	1187	1188	1068	992	861
Clayton	762	803	803	853	936	1022	1237	1481	1465	1399	1548	1274	1101	983
Clinton	4608	4378	4257	4089	3935	4003	4492	5013	5158	4688	4549	3664	2720	2413
Crawford	1091	1018	1029	1021	942	975	1024	1047	985	968	1049	870	704	618
Dallas	1525	1543	1474	1400	1345	1366	1582	1806	1882	1790	1839	1480	1290	1162
Davis	582	640	601	617	680	790	912	958	907	896	923	692	582	551
Decatur	1050	977	918	850	833	883	900	978	909	858	838	761	708	648
Delaware	992	952	914	984	1074	1240	1595	1837	1754	1530	1597	1324	1227	1112
Des Moines	3860	3624	3483	3348	3215	3142	3321	3547	3658	3666	3919	3550	3396	3025
Dickinson	612	609	616	570	636	642	642	650	684	694	774	708	630	579
Dubuque	4597	4608	4422	4528	4705	5214	6217	6867	7048	7311	7728	6174	5139	4383
Emmet	817	865	823	810	770	777	897	1027	946	840	957	793	649	625
Fayette	1694	1696	1628	1495	1529	1684	1960	2223	2137	1833	1984	1510	1170	977
Floyd	1331	1329	1238	1216	1173	1214	1432	1542	1553	1500	1715	1445	1243	1158
Franklin	637	669	624	592	550	552	625	703	599	590	665	603	545	495
Fremont	662	638	567	544	564	554	590	617	587	544	529	449	443	449
Greene	644	599	599	511	475	500	582	677	740	699	735	674	601	552
Grundy	414	454	440	384	388	374	457	489	507	477	526	388	342	292
Guthrie	807	766	707	595	630	720	868	930	883	811	870	802	726	631
Hamilton	969	995	943	789	764	858	954	960	880	829	932	906	951	933
Hancock	652	673	637	631	538	573	669	730	620	516	681	632	536	569
Hardin	1321	1246	1097	975	951	1056	1109	1127	954	841	885	862	784	645
Harrison	1250	1282	1212	1129	1124	1120	1187	1207	1258	1229	1268	1122	945	906
Henry	1209	1174	1120	990	889	820	851	954	1027	996	1062	896	820	796
Howard	575	535	501	535	556	593	774	918	841	782	761	550	472	486
Humboldt	590	587	538	527	506	597	660	679	668	579	575	501	548	477
Ida	320	302	307	222	215	248	308	353	305	269	281	292	231	236
Iowa	469	457	432	403	352	389	489	540	519	408	467	472	394	355
Jackson	1476	1448	1451	1416	1443	1643	1961	2194	1970	1860	1834	1501	1150	1073
Jasper	1812	1749	1693	1515	1501	1632	1912	2197	2229	2329	2594	2431	2175	1829

Table 2. Average Monthly Number of Persons Receiving Food Stamps in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	1313	1279	1198	1096	1045	1004	1849	1119	1117	1154	1195	1125	912	839
Johnson	2977	2826	2544	2263	2110	2078	2105	2131	2071	2040	2217	2132	1999	1705
Jones	1019	940	908	830	905	994	1184	1315	1257	1214	1316	1188	1049	914
Keokuk	948	921	980	906	853	855	960	1081	944	843	845	699	672	614
Kossuth	961	974	884	790	758	806	998	1061	909	741	857	816	757	643
Lee	3681	3583	3398	3118	3076	3215	3572	3777	3772	3868	4087	3579	3050	2648
Linn	10787	10637	10247	9451	9170	9800	11065	11717	11746	12203	12961	11584	10263	8603
Louisa	886	896	855	745	709	752	857	957	918	965	968	812	759	741
Lucas	856	834	794	738	726	773	876	988	1038	1026	1064	955	833	803
Lyon	461	460	397	411	412	446	560	627	597	515	515	458	375	291
Madison	667	643	623	554	576	553	651	742	732	712	766	667	543	468
Mahaska	1684	1724	1726	1632	1578	1546	1813	2013	1974	1942	2088	1833	1599	1428
Marion	1676	1575	1459	1344	1314	1442	1668	1838	1791	1865	1945	1562	1348	1292
Marshall	3023	2953	2716	2483	2403	2498	2771	2794	2695	2804	2856	2522	2153	1875
Mills	932	906	870	757	657	717	800	796	767	771	845	783	682	594
Mitchell	416	468	427	387	406	478	527	578	584	539	659	606	535	457
Monona	879	944	906	819	809	806	961	1092	966	902	956	921	743	712
Monroe	823	784	769	787	820	919	965	1061	908	844	849	705	569	524
Montgomery	869	872	750	652	634	610	691	738	791	718	766	695	612	539
Muscatine	3561	3600	3413	3262	3069	3102	3531	3602	3502	3225	3278	2915	2624	2672
O'Brien	573	592	464	443	421	557	733	812	720	716	691	539	480	426
Osceola	266	249	263	230	248	281	395	509	444	306	305	245	204	200
Page	1294	1326	1363	1233	1247	1246	1329	1436	1426	1309	1396	1194	1036	920
Palo Alto	641	674	661	626	590	620	795	883	873	786	877	828	735	701
Plymouth	650	680	688	706	761	896	1056	1232	1133	994	993	911	864	740
Pocahontas	535	544	528	423	353	386	532	609	525	471	515	454	406	390
Polk	27498	26387	24392	22267	21124	21199	22402	23914	24702	26324	29432	26502	24427	21586
Pottawattamie	8363	8150	7588	6682	6181	5962	6029	6124	6264	6554	7407	7137	6905	6432
Poweshiek	946	930	893	775	657	736	901	1055	1073	934	972	819	742	637
Ringgold	531	494	480	467	468	542	608	559	623	553	511	423	377	372
Sac	590	611	603	559	548	529	632	715	677	685	651	597	451	400
Scott	16474	15903	14971	14041	13471	13856	14735	14917	14735	14656	14678	12579	10217	9150
Shelby	658	657	597	532	443	503	632	665	636	618	614	541	446	433
Sioux	610	706	712	770	858	885	1084	1205	1001	897	935	846	733	742
Story	2422	2318	2092	1907	1837	1812	2039	2029	2108	2140	2308	2016	1799	1597
Tama	987	1098	1009	876	825	923	1144	1210	1151	1141	1170	1014	1018	936
Taylor	560	519	565	548	518	529	652	759	776	702	698	591	532	547
Union	1203	1153	1152	1100	1065	1039	1160	1251	1276	1221	1137	899	880	757
Van Buren	590	568	575	544	526	611	669	724	707	723	733	594	512	507
Wapello	4361	4365	4197	3935	3967	4376	5039	5224	4472	4419	4541	3700	3337	2980
Warren	1828	1764	1638	1485	1428	1446	1546	1685	1741	1683	1724	1472	1410	1229
Washington	960	968	944	908	886	928	989	1005	875	751	680	675	641	577
Wayne	694	680	630	631	599	699	753	819	847	799	750	662	547	545
Webster	4036	3884	3750	3492	3462	3502	3914	4088	3790	3703	3884	3477	3122	2805
Winnebago	534	528	519	476	400	389	460	505	460	442	493	477	476	430
Winneshiak	796	760	716	704	747	875	1060	1220	1147	987	963	843	857	746
Woodbury	8044	8581	8319	7646	7229	7728	9053	8842	8785	8840	8759	8049	7597	7145
Worth	449	445	412	407	354	401	484	521	476	499	557	515	477	425
Wright	829	853	796	733	622	643	766	873	859	806	860	779	793	792
State of Iowa	196603	193318	183856	171980	167415	175206	197419	210786	205985	202907	211679	185730	165373	148268

Table 3. Average Monthly Percentage of All Residents Receiving Food Stamps in Iowa Counties, 1980-1993.

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	5.9	5.5	5.6	5.3	4.7	5.0	6.3	7.4	7.5	6.4	6.4	5.1	4.3	3.6
Adams	8.8	9.4	8.4	7.8	6.8	7.4	10.0	10.0	8.7	5.2	5.0	3.5	3.9	4.2
Allamakee	4.9	4.6	4.4	4.0	4.2	5.1	5.9	6.7	6.1	5.6	5.5	5.3	4.8	4.8
Appanoose	13.5	13.6	12.7	12.2	12.7	13.4	14.2	15.6	15.4	15.4	15.5	12.8	10.4	9.9
Audubon	4.6	5.2	4.6	4.4	4.2	4.6	5.6	6.1	5.6	4.0	4.0	3.7	3.9	3.5
Benton	5.8	6.0	5.6	5.7	5.1	5.2	6.1	6.3	6.2	6.4	6.9	6.1	4.7	3.8
Black Hawk	10.0	9.7	9.6	9.7	10.1	10.8	12.2	12.7	11.7	11.6	10.6	9.0	8.1	7.3
Boone	6.2	6.1	5.6	4.7	5.0	5.2	5.6	6.2	6.0	6.1	7.2	6.3	5.3	4.8
Bremer	4.1	3.4	3.7	3.4	3.3	4.1	5.5	6.5	5.8	5.0	4.5	3.9	3.4	2.5
Buchanan	6.7	6.8	7.2	6.9	7.1	8.2	10.0	11.0	10.1	9.3	9.1	6.9	6.0	4.8
Buena Vista	4.7	4.8	4.6	4.0	3.8	4.0	4.5	4.9	4.2	4.2	4.5	4.5	3.5	2.6
Butler	4.5	5.1	5.1	5.0	5.0	5.7	7.2	8.2	7.2	6.1	5.9	4.6	4.1	3.4
Calhoun	5.7	5.9	5.4	5.1	4.9	5.5	6.9	7.2	6.0	4.7	4.7	4.4	4.2	4.1
Carroll	4.4	4.0	4.0	4.1	4.2	3.9	4.7	5.1	4.9	4.2	4.1	4.0	3.5	3.0
Cass	7.1	6.6	5.9	5.5	5.1	4.9	5.7	6.3	6.0	5.0	5.3	5.1	5.2	4.4
Cedar	5.1	4.9	4.7	4.5	4.4	4.6	5.4	5.4	5.0	4.5	4.6	4.4	3.7	3.7
Cerro Gordo	7.0	6.9	6.4	6.0	5.7	5.7	6.2	6.5	5.9	5.8	6.6	6.0	5.7	5.3
Cherokee	4.3	4.2	4.0	3.7	3.6	3.9	4.8	5.2	4.5	4.0	4.1	3.7	3.1	3.0
Chickasaw	4.2	4.6	4.3	4.3	4.4	5.3	7.2	7.8	7.0	6.3	6.1	4.6	4.0	3.2
Clarke	10.2	10.1	9.1	8.2	7.4	8.5	9.7	10.2	9.6	8.6	9.0	8.4	6.5	5.9
Clay	5.6	5.9	5.9	5.6	5.6	6.0	7.1	7.5	7.1	6.3	6.2	5.6	5.1	4.4
Clayton	4.1	4.3	4.3	4.5	4.9	5.3	6.4	7.5	7.3	6.8	7.5	6.1	5.3	4.7
Clinton	9.0	8.6	8.4	8.0	7.7	7.8	8.7	9.6	9.6	8.6	8.2	6.5	4.8	4.2
Crawford	6.6	6.1	6.2	6.1	5.5	5.6	5.8	5.9	5.4	5.2	5.6	4.6	3.7	3.3
Dallas	4.9	5.0	4.9	4.7	4.6	4.7	5.5	6.3	6.4	6.1	6.3	5.1	4.4	3.9
Davis	7.0	7.7	7.2	7.4	8.2	9.4	10.7	11.0	10.3	10.0	10.3	7.7	6.4	6.1
Decatur	13.0	12.1	11.3	10.2	9.8	10.4	10.5	11.1	10.2	9.4	9.0	7.9	7.3	6.6
Delaware	5.4	5.2	5.0	5.5	6.0	6.9	8.9	10.2	9.5	8.2	8.5	7.1	6.5	5.9
Des Moines	9.0	8.5	8.1	7.9	7.5	7.3	7.7	8.2	8.3	8.3	8.8	7.8	7.4	6.5
Dickinson	4.0	4.0	4.1	3.8	4.3	4.4	4.4	4.4	4.5	4.6	5.1	4.6	4.0	3.7
Dubuque	5.3	5.3	5.1	5.2	5.4	6.0	7.1	7.8	7.9	8.2	8.6	6.7	5.5	4.7
Emmet	7.0	7.4	7.1	7.0	6.7	6.7	7.7	8.6	7.6	6.6	7.5	6.0	4.9	4.7
Fayette	7.8	7.8	7.4	6.8	7.0	7.7	8.9	9.8	9.1	7.6	8.1	6.1	4.7	3.8
Floyd	7.9	7.9	7.4	7.1	6.8	7.0	8.2	8.6	8.4	8.0	9.0	7.6	6.4	5.9
Franklin	5.7	6.0	5.5	5.2	4.8	4.8	5.3	5.8	4.8	4.7	5.2	4.7	4.2	3.8
Fremont	8.1	7.8	7.0	6.6	6.8	6.6	6.8	7.1	6.6	6.0	5.8	4.9	4.8	4.8
Greene	6.4	6.0	6.0	5.1	4.7	4.8	5.5	6.3	6.6	6.1	6.3	5.7	5.0	4.6
Grundy	3.4	3.8	3.7	3.2	3.2	3.0	3.7	3.8	3.8	3.5	3.8	2.8	2.4	2.0
Guthrie	7.3	6.9	6.4	5.4	5.8	6.5	7.9	8.2	7.7	7.0	7.5	6.9	6.1	5.3
Hamilton	6.0	6.2	5.9	4.9	4.7	5.2	5.8	5.7	5.2	4.8	5.3	5.2	5.3	5.2
Hancock	5.3	5.5	5.1	5.0	4.2	4.5	5.2	5.6	4.6	3.8	5.1	4.7	3.9	4.1
Hardin	7.0	6.6	5.8	5.1	4.9	5.4	5.6	5.6	4.6	3.9	4.2	4.0	3.6	3.0
Harrison	8.5	8.7	8.3	7.7	7.6	7.4	7.8	7.9	8.1	7.9	8.0	7.0	5.8	5.5
Henry	6.2	6.0	5.8	5.1	4.7	4.3	4.5	5.0	5.5	5.4	5.7	4.8	4.4	4.2
Howard	5.8	5.4	5.1	5.5	5.6	5.9	7.6	8.9	8.0	7.2	7.1	5.0	4.3	4.4
Humboldt	5.6	5.6	5.1	4.9	4.7	5.5	6.0	6.0	5.7	4.9	4.8	4.2	4.5	3.9
Ida	3.9	3.6	3.7	2.7	2.6	3.0	3.7	4.1	3.5	3.1	3.2	3.3	2.6	2.6
Iowa	3.2	3.1	2.9	2.8	2.4	2.6	3.3	3.6	3.4	2.7	3.1	3.1	2.6	2.3
Jackson	7.4	7.2	7.3	7.1	7.1	8.0	9.4	10.4	9.1	8.5	8.3	6.8	5.2	4.8
Jasper	5.2	5.0	4.9	4.4	4.3	4.7	5.5	6.3	6.4	6.6	7.4	6.8	6.0	5.0

*1993 percentages were calculated with 1992 population estimates; 1993 population estimates were not available when these computations were completed.

Table 3. Average Monthly Percentage of All Residents Receiving Food Stamps in Iowa Counties, 1980-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	8.0	7.8	7.3	6.7	6.4	6.1	11.3	6.9	6.8	7.0	7.4	6.9	5.7	5.1
Johnson	3.1	2.9	2.6	2.4	2.2	2.2	2.3	2.4	2.3	2.3	2.6	2.5	2.4	2.1
Jones	5.2	4.8	4.6	4.3	4.7	5.2	6.2	6.8	6.4	6.1	6.6	5.9	5.2	4.5
Keokuk	8.2	8.0	8.5	7.8	7.3	7.2	8.1	8.9	7.6	6.7	6.7	5.5	5.3	4.8
Kossuth	5.3	5.4	4.8	4.2	4.0	4.2	5.2	5.4	4.5	3.6	4.1	3.8	3.5	2.9
Lee	9.5	9.2	8.7	8.1	7.9	8.2	9.0	9.4	9.2	9.3	9.8	8.5	7.2	6.1
Linn	6.2	6.2	6.0	5.6	5.5	5.9	6.7	7.1	7.1	7.4	7.8	6.9	6.1	5.1
Louisa	7.8	7.9	7.4	6.4	6.1	6.5	7.4	8.2	7.8	8.0	8.1	6.8	6.2	6.1
Lucas	9.5	9.2	8.7	8.1	7.9	8.3	9.3	10.3	10.6	10.2	10.6	9.3	8.1	7.8
Lyon	3.9	3.9	3.3	3.4	3.5	3.7	4.7	5.2	4.8	4.1	4.0	3.6	2.9	2.3
Madison	5.2	5.1	5.0	4.4	4.6	4.5	5.3	6.1	6.0	5.8	6.2	5.3	4.3	3.7
Mahaska	7.9	8.1	8.1	7.6	7.4	7.2	8.4	9.3	9.0	8.8	9.5	8.2	7.1	6.2
Marion	5.6	5.2	4.8	4.5	4.4	4.8	5.6	6.2	6.1	6.3	6.6	5.2	4.5	4.4
Marshall	8.0	7.8	7.1	6.5	6.3	6.5	7.1	7.0	6.7	6.8	6.9	6.0	5.1	4.5
Mills	7.0	6.8	6.6	5.7	5.0	5.4	6.1	6.0	5.7	5.8	6.3	5.9	5.0	4.4
Mitchell	3.9	4.3	3.9	3.5	3.7	4.3	4.7	5.1	5.1	4.7	5.6	5.1	4.4	3.7
Monona	8.9	9.5	9.1	8.2	8.0	7.8	9.3	10.4	8.9	8.0	8.4	8.1	6.4	6.1
Monroe	10.1	9.6	9.4	9.7	10.1	11.3	11.7	12.7	10.6	9.7	9.6	7.9	6.2	5.7
Montgomery	7.4	7.4	6.3	5.4	5.2	5.1	5.7	6.0	6.2	5.5	5.8	5.3	4.6	4.0
Muscatine	8.7	8.8	8.4	8.2	7.7	7.8	8.9	9.0	8.7	7.9	8.0	7.0	6.4	6.6
O'Brien	3.7	3.9	3.0	2.9	2.7	3.6	4.7	5.1	4.4	4.3	4.1	3.2	2.8	2.5
Osceola	3.7	3.5	3.6	3.2	3.4	3.8	5.4	6.8	5.7	3.8	3.8	3.0	2.5	2.4
Page	7.8	8.0	8.1	7.3	7.4	7.4	7.8	8.3	8.0	7.2	7.6	6.4	5.5	4.8
Palo Alto	6.1	6.4	6.3	5.9	5.5	5.7	7.2	7.8	7.3	6.5	7.0	6.6	5.8	5.5
Plymouth	2.7	2.9	2.9	3.0	3.2	3.8	4.5	5.2	4.8	4.1	4.1	3.7	3.5	3.0
Pocahontas	5.8	5.9	5.6	4.4	3.6	3.9	5.3	5.9	4.9	4.3	4.7	4.1	3.6	3.4
Polk	8.1	7.8	7.3	6.8	6.6	6.7	7.2	7.7	8.0	8.6	9.6	8.7	8.0	7.1
Pottawattamie	10.0	9.7	9.1	8.1	7.5	7.2	7.2	7.3	7.4	7.7	8.7	8.3	8.0	7.4
Poweshiek	5.0	4.9	4.7	4.1	3.4	3.9	4.8	5.6	5.7	5.0	5.1	4.3	3.9	3.3
Ringgold	10.0	9.3	9.0	8.6	8.6	10.0	11.2	10.0	10.8	9.3	8.5	6.9	6.2	6.1
Sac	4.9	5.1	5.0	4.5	4.4	4.3	5.0	5.6	5.2	5.2	4.8	4.3	3.2	2.8
Scott	10.6	10.2	9.8	9.3	9.0	9.2	9.8	9.8	9.5	9.4	9.3	7.9	6.4	5.7
Shelby	5.0	5.0	4.5	4.0	3.3	3.7	4.7	4.8	4.5	4.2	4.2	3.7	3.0	2.9
Sioux	2.0	2.3	2.4	2.6	2.9	3.0	3.7	4.0	3.3	2.9	3.0	2.8	2.4	2.4
Story	3.3	3.1	2.8	2.6	2.5	2.5	2.8	2.7	2.8	2.9	3.1	2.8	2.5	2.2
Tama	5.7	6.3	5.8	5.0	4.7	5.2	6.4	6.6	6.2	6.0	6.1	5.3	5.3	4.8
Taylor	8.0	7.4	8.0	7.7	7.2	7.3	8.8	10.0	9.9	8.7	8.5	7.1	6.4	6.5
Union	9.7	9.2	9.1	8.6	8.4	8.1	9.0	9.7	9.7	9.1	8.3	6.5	6.4	5.5
Van Buren	7.6	7.4	7.4	7.1	6.9	7.8	8.5	9.1	8.7	8.7	8.7	7.0	5.9	5.9
Wapello	12.2	12.2	11.8	11.0	11.1	12.3	13.9	14.1	11.7	11.4	11.6	9.4	8.4	7.4
Warren	4.9	4.7	4.5	4.1	4.0	4.1	4.4	4.8	5.0	4.8	5.0	4.2	4.0	3.5
Washington	4.8	4.8	4.8	4.6	4.5	4.7	5.1	5.1	4.4	3.8	3.4	3.4	3.2	2.9
Wayne	10.0	9.8	9.0	8.9	8.5	9.9	10.4	11.1	11.3	10.2	9.5	8.3	6.8	6.6
Webster	10.1	9.7	9.3	8.7	8.5	8.6	9.5	9.8	8.9	8.5	8.8	7.7	6.9	6.1
Winnebago	4.5	4.4	4.3	3.9	3.3	3.2	3.8	4.1	3.7	3.5	3.9	3.8	3.8	3.3
Winneshiek	3.8	3.6	3.4	3.4	3.6	4.2	5.1	5.8	5.4	4.6	4.4	3.9	3.9	3.4
Woodbury	8.0	8.6	8.4	7.8	7.4	7.9	9.4	9.1	8.9	8.9	8.8	8.0	7.5	7.1
Worth	5.7	5.7	5.2	5.1	4.4	4.9	5.9	6.1	5.5	5.7	6.3	5.8	5.3	4.7
Wright	5.8	6.0	5.6	5.1	4.3	4.5	5.3	5.9	5.6	5.1	5.5	4.9	4.9	4.9
State of Iowa	7.0	6.9	6.6	6.2	6.0	6.3	7.1	7.5	7.3	7.1	7.4	6.4	5.7	5.1

Table 4. Total Annual Food Stamp Benefits (in \$1,000) in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	349	319	296	261	220	218	264	321	341	287	274	209	180	126
Adams	283	298	266	220	187	207	281	276	242	132	120	77	94	80
Allamakee	461	421	379	323	313	368	425	487	444	389	380	355	315	257
Appanoose	1337	1384	1202	1078	1036	1054	1049	1103	1130	1096	1109	885	712	541
Audubon	211	239	217	190	168	195	226	247	225	150	157	139	143	108
Benton	941	965	877	807	661	647	701	707	730	734	781	644	529	327
Black Hawk	9275	9050	8368	7808	7463	7758	8453	8668	8394	8433	7683	6447	6055	4153
Boone	1220	1202	1000	761	720	751	767	804	802	823	942	803	688	467
Bremer	630	544	552	489	427	514	644	758	689	614	550	455	407	236
Buchanan	947	1009	1040	908	855	966	1115	1208	1169	1072	1006	717	643	401
Buena Vista	670	689	611	491	419	427	449	498	436	424	441	421	334	191
Butler	462	537	536	473	430	473	573	651	599	508	477	359	333	210
Calhoun	440	457	398	338	313	334	403	417	368	278	277	252	248	191
Carroll	630	587	554	512	478	441	497	525	508	416	414	393	344	242
Cass	728	703	606	516	445	421	450	489	505	408	410	395	392	255
Cedar	673	626	559	503	456	466	524	516	482	431	429	405	340	280
Cerro Gordo	2368	2336	2088	1808	1576	1511	1555	1574	1446	1386	1557	1362	1298	932
Cherokee	417	419	370	318	282	298	363	374	322	285	292	237	201	148
Chickasaw	373	387	365	339	315	381	505	550	507	450	436	305	271	161
Clarke	606	600	513	433	354	403	430	444	426	362	384	341	268	200
Clay	640	697	657	581	524	528	601	656	650	553	555	479	447	307
Clayton	498	550	514	502	503	540	625	737	740	674	762	605	510	388
Clinton	3543	3461	3186	2807	2485	2424	2595	2771	2884	2518	2330	1743	1316	950
Crawford	776	743	695	627	530	533	525	529	490	451	486	393	305	219
Dallas	1181	1186	1050	925	818	781	856	917	960	906	891	671	575	412
Davis	428	461	411	394	386	431	478	496	452	434	426	303	263	193
Decatur	715	660	581	496	442	442	432	461	436	395	379	316	293	216
Delaware	620	627	582	585	592	660	817	936	880	758	770	597	570	402
Des Moines	2945	2763	2517	2230	1943	1795	1811	1842	1941	1914	1943	1716	1631	1172
Dickinson	430	422	403	337	348	346	310	306	329	312	344	310	270	197
Dubuque	3292	3344	3064	2869	2735	2907	3322	3529	3677	3810	3952	2947	2503	1702
Emmet	556	602	565	515	427	401	440	491	464	392	411	334	280	207
Fayette	1113	1110	1016	857	805	872	995	1096	1069	922	909	676	529	350
Floyd	894	872	773	707	604	616	711	731	737	679	760	619	535	386
Franklin	431	460	422	381	317	301	310	345	278	260	291	238	225	168
Fremont	429	414	357	316	289	283	289	284	285	250	238	192	179	151
Greene	439	413	392	303	260	260	271	304	352	315	330	297	257	183
Grundy	302	340	317	244	220	212	241	248	255	224	250	171	156	106
Guthrie	542	526	448	345	344	380	433	457	444	386	397	347	305	215
Hamilton	702	724	638	477	414	475	508	489	445	399	429	409	414	330
Hancock	435	458	394	354	280	299	324	357	301	230	298	275	230	199
Hardin	928	836	685	587	515	546	563	563	482	394	409	380	333	215
Harrison	822	869	774	668	604	583	578	567	605	552	553	468	389	312
Henry	875	834	737	624	506	467	443	474	513	489	504	407	391	289
Howard	372	352	307	299	292	310	393	464	414	376	368	256	195	164
Humboldt	398	390	335	297	262	310	321	313	330	253	258	219	249	174
Ida	201	196	187	119	107	126	145	162	143	118	121	123	99	80
Iowa	319	312	285	253	205	210	257	276	262	198	230	212	181	136
Jackson	1032	1017	988	879	825	907	1032	1116	1014	921	889	678	522	374
Jasper	1340	1294	1172	969	861	916	1014	1117	1126	1155	1286	1161	1040	699

Table 4. Total Annual Food Stamp Benefits (in \$1,000) in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	1040	985	890	731	637	609	589	596	606	601	588	532	439	309
Johnson	2371	2225	1852	1500	1298	1246	1214	1152	1140	1090	1162	1090	1049	680
Jones	724	672	605	512	519	559	626	677	668	611	646	559	493	346
Keokuk	655	661	668	567	492	467	486	526	481	406	388	310	286	209
Kossuth	633	645	577	465	392	415	487	509	439	333	373	340	329	219
Lee	2757	2696	2455	2071	1870	1909	2019	2039	2074	2044	2124	1751	1508	1028
Linn	8361	8202	7516	6418	5709	5893	6340	6453	6582	6722	6927	5994	5460	3556
Louisa	657	662	598	491	424	437	464	494	488	484	459	374	328	272
Lucas	601	590	527	469	426	424	459	500	522	501	516	461	388	280
Lyon	287	279	224	218	200	222	269	296	272	218	229	199	169	106
Madison	478	459	419	355	338	315	343	374	375	338	367	297	238	160
Mahaska	1196	1218	1159	1020	903	844	959	998	989	925	1020	863	765	551
Marion	1262	1171	1018	855	765	810	889	968	955	945	947	737	627	480
Marshall	2277	2218	1924	1646	1473	1466	1511	1482	1448	1440	1435	1216	1035	725
Mills	685	643	582	480	388	405	415	387	391	366	385	344	301	213
Mitchell	279	324	265	220	210	243	264	285	281	253	304	260	224	149
Monona	593	634	586	480	429	415	462	521	470	405	433	409	323	244
Monroe	572	558	524	497	477	517	528	566	484	432	424	321	258	189
Montgomery	615	631	517	401	351	327	348	355	400	352	371	329	277	195
Muscatine	2652	2658	2414	2158	1849	1804	1959	1965	1947	1711	1678	1463	1274	1077
O'Brien	351	363	279	247	220	279	351	372	332	303	295	240	213	154
Osceola	173	170	168	134	128	141	193	253	238	151	141	106	85	69
Page	868	879	842	713	673	645	643	688	685	620	630	511	442	317
Palo Alto	437	455	410	344	300	314	392	425	425	355	397	358	320	238
Plymouth	416	437	413	391	393	459	536	610	539	457	461	415	397	281
Pocahontas	347	373	337	248	194	200	264	301	246	207	216	196	173	137
Polk	23693	21300	18647	15570	13413	12840	12646	12987	13553	14026	15501	13618	12672	8884
Pottawattamie	6453	6282	5610	4557	3832	3552	3292	3205	3322	3311	3655	3357	3233	2423
Poweshiek	700	684	613	480	378	409	463	512	541	472	471	390	353	241
Ringgold	351	330	310	267	251	283	293	262	307	262	232	187	157	122
Sac	377	408	381	316	276	250	290	336	314	308	290	244	185	127
Scott	13338	12767	11283	9912	8763	8652	8704	8457	8410	8127	7966	6698	5430	3920
Shelby	437	430	388	315	239	269	314	321	309	293	295	245	207	157
Sioux	367	428	408	393	408	418	475	546	437	373	394	352	305	254
Story	1988	1835	1521	1278	1152	1077	1110	1046	1121	1082	1129	955	871	632
Tama	685	783	687	556	483	519	590	634	572	545	544	453	451	331
Taylor	374	355	346	298	253	259	307	344	385	321	297	240	200	173
Union	830	811	767	673	589	547	577	617	649	605	543	413	390	268
Van Buren	411	399	386	333	293	328	335	357	366	353	353	282	229	185
Wapello	3166	3180	2898	2542	2400	2514	2741	2707	2344	2233	2180	1688	1499	1039
Warren	1396	1325	1150	986	862	842	828	869	916	844	836	690	659	453
Washington	674	698	635	565	518	532	529	516	455	380	303	297	298	211
Wayne	451	446	390	363	319	356	356	400	436	368	349	293	235	188
Webster	2972	2863	2593	2226	2013	1965	2054	2064	1922	1830	1838	1590	1416	984
Winnebago	371	360	331	281	217	203	214	237	215	195	223	196	204	152
Winneshiek	528	505	452	414	405	469	543	596	559	458	448	381	391	271
Woodbury	5845	6208	5677	4810	4133	4280	4730	4430	4515	4367	4263	3760	3536	2669
Worth	319	315	272	250	196	212	256	260	240	232	263	239	223	152
Wright	590	589	545	474	372	356	393	473	474	410	427	364	364	298
State of Iowa	147823	143810	129308	111612	99383	100189	106361	109618	108561	103582	105605	89346	79904	56720

Table 5. Average Food Stamp Benefits (in \$) Received Per Person Per Month in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	59.75	58.85	53.23	48.55	45.86	42.62	40.82	41.46	42.58	40.72	38.51	37.31	37.22	30.52
Adams	57.99	57.11	56.20	48.55	45.88	45.74	44.83	44.06	43.91	39.01	36.50	32.49	35.59	27.80
Allamakee	56.80	55.36	51.89	48.04	43.94	42.38	42.09	42.07	41.67	38.94	38.99	37.71	36.48	29.56
Appanoose	60.12	61.82	57.52	53.55	49.23	46.95	43.57	41.56	42.61	40.34	39.98	37.91	37.34	29.25
Audubon	54.49	53.78	54.19	48.92	45.45	47.66	44.16	43.01	41.14	37.88	39.22	37.06	35.84	29.80
Benton	59.80	58.77	57.57	53.03	48.38	46.23	42.85	41.83	43.27	42.02	41.15	37.72	39.95	30.19
Black Hawk	61.75	61.86	58.10	54.27	50.16	49.00	46.45	45.06	45.83	45.41	44.59	43.78	44.91	34.55
Boone	65.11	64.90	58.99	53.01	48.15	48.04	45.10	42.98	43.66	43.42	42.23	40.82	41.46	30.97
Bremer	56.45	57.63	55.02	52.37	46.84	45.82	42.69	41.74	42.05	42.17	41.04	39.07	40.31	31.27
Buchanan	56.56	58.89	57.23	52.72	48.34	47.10	44.64	43.24	44.27	43.31	40.46	37.80	38.64	30.28
Buena Vista	58.92	59.77	54.79	51.45	45.56	43.79	40.96	41.54	41.65	39.89	39.04	37.78	37.62	29.07
Butler	54.00	56.14	55.25	49.94	45.15	43.49	41.67	40.80	41.38	40.75	39.06	37.24	38.58	29.02
Calhoun	56.12	56.13	53.21	48.21	46.11	43.66	41.64	40.26	41.37	38.99	37.44	36.40	36.46	28.75
Carroll	56.33	56.78	53.48	49.14	44.52	43.24	40.19	38.88	38.81	36.76	37.06	36.36	35.74	28.90
Cass	57.48	58.97	56.61	51.81	47.50	46.49	42.81	41.03	42.70	39.95	38.38	38.30	36.87	28.74
Cedar	62.40	60.79	57.25	53.51	49.74	48.26	46.34	44.28	44.41	43.62	41.82	41.27	41.04	33.48
Cerro Gordo	60.02	60.64	58.23	53.42	49.03	46.51	44.16	42.01	41.88	41.10	40.74	38.94	39.03	30.38
Cherokee	58.03	59.66	55.40	50.67	46.17	44.93	43.58	40.49	39.24	38.10	37.77	34.14	33.00	25.67
Chickasaw	55.73	53.74	53.90	49.39	44.41	44.35	42.87	41.65	41.59	40.02	39.14	36.34	37.05	26.96
Clarke	59.55	59.24	57.01	53.24	47.73	47.12	44.43	43.68	44.21	41.54	41.50	38.88	39.75	32.49
Clay	53.84	55.81	52.84	49.49	45.05	42.47	40.47	40.81	41.33	38.84	38.89	37.36	37.60	29.62
Clayton	54.46	57.16	53.42	49.00	44.76	44.03	42.04	41.46	42.05	40.17	41.02	39.56	38.60	32.86
Clinton	64.06	65.87	62.37	57.20	52.60	50.46	48.15	46.06	46.59	44.77	42.69	39.63	40.33	32.82
Crawford	59.30	60.81	56.37	51.13	46.82	45.54	42.68	42.12	41.42	38.84	38.61	37.70	36.08	29.61
Dallas	64.52	64.03	59.36	55.07	50.71	47.66	45.07	42.30	42.51	42.18	40.35	37.77	37.13	29.52
Davis	61.17	60.00	56.91	53.32	47.35	45.44	43.64	43.11	41.57	40.40	38.46	36.56	37.63	29.22
Decatur	56.76	56.29	52.72	48.71	44.18	41.68	40.00	39.37	39.93	38.34	37.71	34.56	34.46	27.78
Delaware	52.12	54.94	53.06	49.49	45.90	44.35	42.70	42.46	41.79	41.31	40.20	37.61	38.71	30.13
Des Moines	63.58	63.52	60.21	55.50	50.36	47.61	45.44	43.28	44.23	43.51	41.31	40.28	40.02	32.30
Dickinson	58.50	57.80	54.55	49.30	45.60	44.86	40.19	39.23	40.06	37.46	37.08	36.44	35.71	28.32
Dubuque	59.67	60.48	57.73	52.80	48.44	46.47	44.54	42.81	43.47	43.43	42.61	39.78	40.59	32.38
Emmet	56.67	58.03	57.23	52.96	46.23	42.99	40.80	39.82	40.80	38.81	35.74	35.06	36.06	27.68
Fayette	54.72	54.54	52.03	47.76	43.88	43.11	42.30	41.07	41.69	41.95	38.16	37.35	37.69	29.79
Floyd	55.97	54.70	52.02	48.44	42.88	42.26	41.41	39.49	39.60	37.73	36.91	35.71	35.88	27.72
Franklin	56.36	57.25	56.41	53.55	48.00	45.47	41.28	40.97	38.73	36.78	36.39	32.84	34.31	28.28
Fremont	54.08	54.08	52.56	48.35	42.73	42.60	40.85	38.41	40.37	38.24	37.43	35.63	33.86	28.06
Greene	56.83	57.60	54.59	49.51	45.68	43.40	38.83	37.37	39.73	37.63	37.41	36.80	35.61	27.72
Grundy	60.87	62.56	60.00	53.13	47.42	47.33	43.76	42.13	42.01	39.20	39.73	36.60	38.01	30.14
Guthrie	56.01	57.18	52.76	48.40	45.56	44.03	41.47	40.97	41.90	39.70	38.05	36.03	34.99	28.37
Hamilton	60.37	60.60	56.42	50.32	45.16	46.15	44.34	42.40	42.16	40.17	38.30	37.64	36.28	29.47
Hancock	55.52	56.76	51.49	46.75	43.31	43.46	40.36	40.68	40.48	37.21	36.56	36.23	35.82	29.17
Hardin	58.52	55.86	52.05	50.15	45.11	43.09	42.29	41.61	42.14	39.12	38.53	36.77	35.46	27.75
Harrison	54.80	56.47	53.22	49.25	44.75	43.39	40.52	39.19	40.06	37.43	36.36	34.76	34.39	28.70
Henry	60.30	59.20	54.82	52.53	47.47	47.44	43.48	41.40	41.58	40.96	39.55	37.83	39.76	30.28
Howard	53.91	54.77	51.10	46.54	43.71	43.51	42.38	42.16	41.02	40.03	40.34	38.73	34.53	28.19
Humboldt	56.27	55.37	51.86	47.06	43.08	43.38	40.61	38.44	41.17	36.44	37.39	36.33	37.77	30.40
Ida	52.19	53.97	50.81	44.59	41.40	42.34	39.29	38.24	39.02	36.43	35.94	34.93	35.50	28.39
Iowa	56.72	56.89	55.09	52.36	48.58	44.99	43.76	42.59	42.00	40.44	41.11	37.50	38.32	31.83
Jackson	58.27	58.56	56.79	51.77	47.68	46.01	43.86	42.39	42.89	41.29	40.40	37.64	37.83	28.98
Jasper	61.64	61.64	57.65	53.27	47.83	46.75	44.19	42.38	42.08	41.31	41.33	39.78	39.82	31.88

Table 5. Average Food Stamp Benefits (in \$) Received Per Person Per Month in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	65.96	64.19	61.85	55.57	50.81	50.60	26.55	44.41	45.21	43.41	41.00	39.47	40.13	30.63
Johnson	66.38	65.61	60.69	55.24	51.23	50.00	48.08	45.05	45.87	44.56	43.66	42.59	43.72	33.26
Jones	59.18	59.57	55.62	51.45	47.85	46.88	44.09	42.89	44.31	41.93	40.88	39.23	39.08	31.51
Keokuk	57.59	59.72	56.84	52.10	48.07	45.50	42.19	40.61	42.48	40.21	38.22	37.05	35.42	28.50
Kossuth	54.84	55.13	54.41	48.99	43.01	42.93	40.58	39.96	40.26	37.38	36.29	34.80	36.20	28.46
Lee	62.43	62.68	60.21	55.36	50.65	49.49	47.09	44.98	45.84	44.05	43.31	40.77	41.18	32.36
Linn	64.60	64.26	61.12	56.59	51.88	50.11	47.75	45.90	46.70	45.91	44.54	43.12	44.33	34.44
Louisa	61.85	61.61	58.25	54.90	49.79	48.40	45.04	43.05	44.34	41.76	39.57	38.30	35.97	30.50
Lucas	58.53	58.99	55.29	52.98	48.90	45.67	43.72	42.11	41.91	40.74	40.41	40.21	38.90	29.14
Lucas	51.84	50.65	47.10	44.04	40.53	41.48	40.00	39.39	37.86	35.34	37.09	36.24	37.60	30.24
Lyon	59.82	59.41	56.02	53.43	48.96	47.56	43.93	41.91	42.76	39.61	39.95	37.03	36.46	28.42
Madison	59.20	58.87	55.97	52.08	47.72	45.47	44.07	41.28	41.74	39.70	40.71	39.23	39.90	32.14
Mahaska	62.77	61.97	58.12	52.98	48.55	46.81	44.42	43.91	44.44	42.25	40.57	39.31	38.80	30.96
Marion	62.75	62.58	59.06	55.26	51.10	48.88	45.47	44.20	44.79	42.80	41.88	40.17	40.08	32.21
Marshall	61.27	59.16	55.75	52.84	49.16	47.00	43.25	40.58	42.50	39.56	37.99	36.65	36.80	29.80
Mills	55.77	57.69	51.76	47.29	43.10	42.47	41.75	41.18	40.07	39.15	38.39	35.81	34.95	27.13
Mitchell	56.20	56.04	53.97	48.84	44.25	42.93	40.06	39.74	40.48	37.47	37.76	37.02	36.20	28.51
Monona	57.96	59.31	56.83	52.60	48.54	46.79	45.60	44.49	44.38	42.65	41.70	37.87	37.79	30.15
Monroe	58.92	60.32	57.47	51.23	46.21	44.59	41.97	40.11	42.23	40.81	40.34	39.42	37.75	30.06
Montgomery	62.06	61.53	58.92	55.12	50.21	48.45	46.25	45.45	46.32	44.22	42.65	41.82	40.47	33.61
Muscatine	50.96	51.01	50.00	46.50	43.47	41.83	39.97	38.18	38.47	35.34	35.60	37.11	37.08	30.05
O'Brien	54.14	56.63	53.23	48.70	42.74	41.99	40.76	41.26	44.59	40.85	38.36	35.92	34.80	29.00
Osceola	55.87	55.28	51.50	48.18	44.99	43.10	40.26	39.90	40.04	39.50	37.61	35.68	35.52	28.70
Page	56.79	56.23	51.74	45.85	42.37	42.10	41.01	40.09	40.55	37.66	37.63	35.99	36.33	28.25
Palo Alto	53.38	53.53	50.00	46.03	43.10	42.63	42.23	41.23	39.72	38.33	38.67	37.98	38.31	31.62
Plymouth	54.02	57.17	53.22	48.94	45.89	43.01	41.35	41.22	39.05	36.73	34.95	35.90	35.47	29.23
Pocahontas	71.80	67.27	63.71	58.27	52.91	50.47	47.04	45.25	45.72	44.40	43.89	42.82	43.23	34.30
Polk	64.30	64.23	61.61	56.82	51.66	49.65	45.50	43.62	44.19	42.10	41.12	39.19	39.02	31.39
Pottawattamie	61.63	61.29	57.22	51.61	47.95	46.33	42.84	40.47	42.03	42.18	40.43	39.68	39.76	31.55
Poweshiek	55.18	55.67	53.75	47.54	44.66	43.54	40.13	39.00	41.09	39.42	37.96	36.64	34.75	27.42
Ringgold	53.22	55.65	52.74	47.05	41.97	39.32	38.29	39.16	38.70	37.37	37.17	34.00	34.15	26.50
Sac	67.47	66.90	62.81	58.83	54.21	52.04	49.23	47.25	47.56	46.21	45.22	44.38	44.29	35.70
Shelby	55.32	54.49	54.27	49.44	44.92	44.53	41.30	40.30	40.57	39.48	40.07	37.71	38.79	30.02
Sioux	50.16	50.57	47.75	42.60	39.63	39.32	36.53	37.76	36.36	34.67	35.08	34.75	34.65	28.57
Story	68.41	65.96	60.56	55.85	52.26	49.50	45.37	42.98	44.35	42.15	40.77	39.43	40.36	33.00
Tama	57.85	59.38	56.69	52.85	48.85	46.80	43.01	43.64	41.36	39.79	38.72	37.28	36.84	29.49
Taylor	55.71	57.03	50.97	45.26	40.73	40.83	39.26	37.81	41.24	38.03	35.39	33.84	31.39	26.33
Union	57.52	58.63	55.47	51.00	46.10	43.89	41.47	41.09	42.40	41.28	39.75	38.26	36.93	29.46
Van Buren	58.14	58.45	55.83	51.10	46.39	44.68	41.85	41.16	43.14	40.66	40.11	39.56	37.11	30.37
Wapello	60.49	60.71	57.54	53.85	50.42	47.87	45.33	43.19	43.69	42.11	40.01	38.03	37.43	29.06
Warren	63.68	62.59	58.49	55.29	50.28	48.55	44.63	42.97	43.88	41.77	40.43	39.06	38.94	30.76
Washington	58.44	60.02	56.04	51.87	48.76	47.74	44.59	42.79	43.31	42.21	37.06	36.74	38.69	30.50
Wayne	54.03	54.56	51.59	47.86	44.41	42.49	39.31	40.78	42.86	38.42	38.80	36.86	35.83	28.81
Webster	61.35	61.43	57.63	53.12	48.44	46.74	43.74	42.07	42.27	41.18	39.44	38.11	37.80	29.23
Winnebago	58.05	56.82	52.99	49.37	45.25	43.70	38.91	39.21	38.91	36.65	37.73	34.17	35.71	29.30
Winneshiek	55.28	55.39	52.65	49.01	45.11	44.69	42.64	40.74	40.63	38.60	38.73	37.60	38.04	30.29
Woodbury	60.55	60.28	56.86	52.43	47.64	46.16	43.53	41.74	42.82	41.17	40.56	38.92	38.79	31.14
Worth	59.24	59.10	55.10	51.11	46.05	43.89	44.01	41.46	42.02	38.88	39.32	38.64	38.99	29.88
Wright	59.35	57.56	57.16	53.89	49.84	46.19	42.82	45.25	45.98	42.43	41.40	38.90	38.21	31.31
State of Iowa	62.66	61.99	58.61	54.08	49.47	47.65	44.90	43.34	43.92	42.54	41.57	40.09	40.26	31.88

Table 6. Percentage Changes in Population, Persons Receiving Food Stamps, Total Annual Food Stamp Benefits, and Average Food Stamp Benefits Received Per Person Per Month in Iowa Counties, 1983-1993.

County	Percentage Change from 1983 to 1993 in:			
	Estimated Population*	Persons Receiving Food Stamps	Total Annual Food Stamp Benefits	Average Food Stamp Benefits Received Per Person Per Month
Adair	-10.1	-17.7	27.4	55.2
Adams	-15.5	48.5	135.8	58.9
Allamakee	-7.2	-16.9	21.3	45.7
Appanoose	-7.7	-19.8	20.6	50.4
Audubon	-14.0	-3.3	34.4	38.9
Benton	-1.0	-17.1	20.5	45.3
Black Hawk	-7.5	-12.8	20.7	38.5
Boone	-2.7	-16.0	29.5	54.2
Bremer	-7.0	-16.7	14.5	37.5
Buchanan	-7.9	-32.6	-5.9	39.8
Buena Vista	-3.6	0.7	51.9	50.9
Butler	-9.1	-30.0	-3.1	38.2
Calhoun	-12.4	6.0	58.8	49.9
Carroll	-5.5	0.1	52.2	52.0
Cass	-11.4	18.5	77.6	49.8
Cedar	-5.5	5.0	56.9	49.2
Cerro Gordo	-2.6	3.2	52.1	47.3
Cherokee	-12.0	-7.4	42.8	53.6
Chickasaw	-12.8	-40.0	-14.4	42.4
Clarke	-2.9	10.0	57.8	43.5
Clay	-7.7	-16.7	15.3	38.4
Clayton	-9.1	-50.8	-34.6	32.8
Clinton	-7.6	1.3	52.1	50.1
Crawford	-11.8	4.0	59.7	53.6
Dallas	5.3	-17.1	32.5	59.9
Davis	-7.8	-36.9	0.5	59.0
Decatur	-12.7	25.3	88.7	50.5
Delaware	-2.2	-37.9	-19.5	29.7
Des Moines	-4.2	-1.5	51.6	53.9
Dickinson	-0.1	-20.9	25.0	57.8
Dubuque	-3.4	-40.5	-16.7	40.0
Emmet	-9.4	-14.6	35.3	58.6
Fayette	-11.1	-14.6	22.4	43.4
Floyd	-11.1	-22.4	17.6	51.6
Franklin	-12.4	-4.2	48.1	54.9
Fremont	-10.1	25.1	80.3	44.5
Greene	-14.4	-12.4	33.0	51.9
Grundy	-12.8	-21.3	20.8	53.2
Guthrie	-3.6	-7.2	36.5	47.2
Hamilton	-7.7	4.0	63.6	57.6
Hancock	-8.3	-4.3	46.0	51.9
Hardin	-12.1	49.3	126.9	51.9
Harrison	-7.3	-1.4	48.6	50.7
Henry	4.9	13.8	73.6	52.5
Howard	-8.7	-24.4	1.1	33.6
Humboldt	-12.0	2.6	54.3	50.5
Ida	-5.9	13.9	66.1	45.2
Iowa	-2.7	0.4	38.7	38.0
Jackson	-9.1	-19.5	16.1	44.2
Jasper	-0.9	-30.1	4.2	49.1

*1993 population estimates were not available; 1992 estimates were used to compute change from 1983.

Table 6. Percentage Changes in Population, Persons Receiving Food Stamps, Total Annual Food Stamp Benefits, and Average Food Stamp Benefits Received Per Person Per Month in Iowa Counties, 1983-1993 (continued).

County	Percentage Change from 1983 to 1993 in:			
	Estimated Population*	Persons Receiving Food Stamps	Total Annual Food Stamp Benefits	Average Food Stamp Benefits Received Per Person Per Month
Jefferson	1.9	9.9	76.9	60.9
Johnson	13.4	34.3	104.0	52.0
Jones	-1.0	-22.6	12.1	44.8
Keokuk	-8.0	12.2	68.8	50.7
Kossuth	-13.8	12.1	69.7	51.1
Lee	-7.0	-9.9	29.8	44.1
Linn	4.5	-16.8	20.7	45.0
Louisa	-4.9	-8.5	43.1	56.3
Lucas	-10.2	-19.5	16.5	44.8
Lyon	-6.5	-10.5	25.3	39.8
Madison	3.2	-12.9	30.2	49.7
Mahaska	-2.8	-19.3	17.3	45.4
Marion	1.7	-13.8	33.3	54.7
Marshall	-9.2	5.8	58.7	49.8
Mills	0.1	10.3	77.9	61.3
Mitchell	-8.9	-36.9	-8.2	45.3
Monona	-13.2	-8.1	37.0	48.8
Monroe	-7.5	-3.1	34.9	39.0
Montgomery	-10.3	13.4	65.8	46.1
Muscatine	-.6	8.6	58.0	45.5
O'Brien	-9.2	-17.1	19.0	43.1
Osceola	-11.5	-12.8	22.7	41.1
Page	-9.9	-7.3	37.8	48.6
Palo Alto	-15.9	-26.9	10.1	50.9
Plymouth	-2.6	-34.5	-9.8	38.0
Pocahontas	-15.5	3.9	60.6	54.6
Polk	10.6	-6.6	52.8	63.6
Pottawattamie	-2.0	12.9	76.6	56.4
Poweshiek	-0.5	-2.7	48.6	52.4
Ringgold	-11.4	3.9	51.3	45.4
Sac	-10.4	-9.4	30.0	43.2
Scott	-1.4	12.2	67.4	49.2
Shelby	-9.9	7.2	48.1	38.1
Sioux	-1.2	-34.8	-6.9	43.0
Story	1.4	4.9	76.1	67.8
Tama	-9.0	-15.6	25.9	49.4
Taylor	-15.1	-19.8	25.9	57.4
Union	-8.7	5.8	52.9	44.7
Van Buren	-8.4	-19.5	16.4	45.0
Wapello	-8.5	-4.0	45.2	51.2
Warren	7.4	6.0	67.0	57.5
Washington	0.9	41.2	122.4	57.7
Wayne	-12.1	-7.5	29.2	39.3
Webster	-9.3	3.9	61.7	55.6
Winnebago	-5.2	8.3	66.4	53.9
Winneshiek	-3.3	-17.3	17.9	42.7
Woodbury	0.1	-8.2	37.1	49.3
Worth	-11.4	-19.4	21.3	50.7
Wright	-9.9	-3.6	38.2	43.4
State of Iowa	-2.4	-7.1	40.0	50.7

state and most counties in these household numbers. The state figure in 1993 is only 640 households lower than the 1986 high point.

Persons Receiving Food Stamps

In 1993, Iowa had an average of 196,603 persons receiving food stamps each month (Table 2). More than 200,000 persons were in the program, on average, each month from 1983 through 1986. The lowest monthly average of the 14 years was 148,268 in 1980 (Figure 1).

Polk averaged more monthly food stamp recipients (27,498) in 1993 than any other county. Five others (Black Hawk, Linn, Pottawattamie, Scott, Woodbury) had more than 5,000 persons receiving food stamps monthly that year. Thirty-three counties averaged from 1,000 to 4,999 recipients monthly.

The average number of persons receiving food stamps in the state was 3,285 higher in 1993 than in 1992. Fifty-nine counties followed this trend as well, with more persons in the program in the later year. The only increase over 1,000 occurred in Polk (+1,111). Forty counties reported declines between 1992 and 1993, with nine noting decreases of at least 50. Tama (-111) and Woodbury (-537) were the only ones with drops greater than 100.

Comparing 1983 and 1993, Iowa had an average of 15,076 fewer persons in the food stamp program at the end of the period. Sixty-two counties followed this trend, with Black Hawk, Dubuque, Linn, and Polk counting at least 1,000 fewer in 1993 than in 1983. Scott topped the counties that had more recipients in 1993 than in 1983 with a gain of 1,796; 19 others had increases of at least 100.

A review of the entire period indicates that Iowa is approaching the level of 200,000 persons in the food stamp program that was experienced from 1983 to 1986. A majority of counties, as well as the state, showed consistent gains in the average number of persons in the food stamp program during the years from 1980 to 1983. The averages moderated in 1984 but increased again in 1985 and 1986. The trend reversed and most counties declined in the years 1987 through 1989, although gains again occurred in most counties from 1989 to 1993.

Percentage of the Population Receiving Food Stamps

An average of 7.0 percent of Iowa's population received food stamps each month during 1993 (Table 3). The percentage for the state had been under 7.0 the five previous years. The highest percentages of Iowans receiving food stamps during the period occurred in 1983 (7.4%), 1985 (7.3%), and 1986 (7.5%).

In 1993, 57 counties averaged a lower percentage of residents receiving food stamps than did the state. Plymouth and Sioux each had less than 3 percent of their populations in the food stamp program. Forty-two counties in 1993 had a higher percentage of residents receiving food stamps than the state total. Eleven listed at least 10.0 percent of their populations in the program with the highest percentage at 13.5 percent in Appanoose (Figure 2).

A majority of the counties (52) had a higher percentage of their population in the food stamp program in 1993 than in 1992. For 35 counties, the percentage of persons receiving food stamps was lower at the end of the period than the beginning. Percentage point changes in either direction were small, however, with none as great as 1.0. Twelve counties reported no change between the two years. For 50 counties, the percentage of residents in the program was higher in 1993 than in 1983. Increases of at least 2.0 percentage points occurred in four counties; seven reported decreases of at least 2.0 points over this period.

In the years from 1983 through 1987, a larger percentage of Iowans received food stamps than at either the beginning or the end of the 14 years examined. Comparing 1986 with both 1980 and 1993 illustrates the high level of food stamp use in Iowa in the middle of the period and the growing similarity between the present situation and 1986. In 1980, for example, 15 counties had less than 3 percent of their population receiving food stamps. For 1993, there were two counties with this low level of

participation, which is the same number reported in 1986. At the other extreme, none of the counties had 10 percent or more of its residents receiving food stamps in 1980, although there were 11 counties at that level in 1993 and 16 in 1986. In 1986, Appanoose county had 15.6% of its residents receiving food stamp assistance. That was the highest monthly average for any county during these 14 years.

Total Annual Benefits Received

In 1993, Iowa distributed nearly \$148 million in food stamp benefits (Table 4, Figure 3). This was \$4 million more than the total in 1992 and \$18.5 million higher than the 1991 figure. Total costs of the program have grown each year since 1989, with the 1993 total the highest of the 14 years.

Benefits were greater in Polk (\$23.7 million) than any other county, followed by Scott (\$13.3 million), Black Hawk (\$9.3 million), and Linn (\$8.4 million). In contrast, Adams, Audubon, Ida, Lyon, Mitchell, and Osceola each reported less than \$300,000 in food stamp benefits.

Comparing 1993 with 1983 shows that state benefits increased by more than \$42 million; 90 counties had higher benefits in the more recent year. Polk (+\$8.2 million), Scott (+\$5.4 million), and Pottawattamie (+\$2.8 million) experienced the largest increases. Of the nine counties with lower benefits in 1993 than 1983, Clayton (-\$264,000), Delaware (-\$150,000), and Dubuque (-\$660,000) had the largest dollar declines. Buchanan, Butler, Chickasaw, Mitchell, Plymouth, and Sioux had decreases of less than \$64,000. Seven of these nine counties with decreases from 1983 to 1993 are in northeast Iowa.

Iowa's total food stamp benefits increased 40 percent between 1983 and 1993, although four counties (Adams, Hardin, Johnson, Washington) experienced gains greater than 100 percent during this period. Two others (Decatur, Fremont) increased at least 80 percent, or more than twice the state's rate.

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 1993, each person in the food stamp program averaged a monthly benefit of \$62.66, which was slightly higher (+\$0.67) than the average benefit in 1992 (Table 5, Figure 4). The average monthly benefit has increased almost every year since 1980, when it was about half as much as the 1993 figure.

Iowa's counties vary significantly in the average monthly benefit received (Figure 5). Sioux's average of \$50.16 was lowest in 1993; Clay, Delaware, Howard, Ida, Lyon, O'Brien, Plymouth, and Sac also had averages of less than \$54.00. Seven of these nine counties are in northwest Iowa. Benefits greater than \$65.00 occurred in Boone, Jefferson, Johnson, Polk, Scott, and Story; Polk's average of \$71.80 was the highest.

Although the average statewide benefit increased between 1992 and 1993, 53 counties averaged less per person in 1993 than one year earlier. All counties reported higher average monthly benefits in 1993 than in 1983. The statewide increase was \$21.09, with county increases ranging from gains of \$11.92 (Delaware) to \$27.91 (Polk). The benefit increased 50.7 percent in Iowa over this period. Delaware's gain of 29.7 percent was the only one under 30 percent, while Jefferson, Mills, Polk, and Story increased by more than 60 percent. These figures can be compared against the rate of inflation, which was 42.3 percent as measured by the change in the consumer price index from 1983 to 1993.

Changes Between 1983 and 1993

Changes in total benefits between 1983 and 1993 are affected by population trends, participation in the program, and benefits provided per person. Annual population estimates indicate that Iowa's population declined by 2.4 percent between 1983 and 1992, the year for which the most recent estimate is available. Decreases occurred in 86 of the 99 counties as well (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 86 counties that declined in population, 56 had fewer people in the food stamp program in 1993 than in 1983, but 30 experienced increased numbers receiving food stamps (Table 6). In the 56 counties in which both population and program participation declined, the percentage changes in these factors varied widely. For example, Clayton's population was estimated to have decreased by 9.1 percent but food stamp participants dropped by 50.8 percent; on the other hand, Audubon had 14.0 percent fewer people but only a 3.3 percent decline in food stamp recipients.

Changes in participation in the food stamp program varied in the 13 counties that gained population between 1983 and 1992 as well. Seven had more persons in the food stamp program at the end of the period than the beginning while six had fewer. Obviously, factors other than population trends affect participation in the food stamp program; changes in jobs and income would need to be incorporated to better understand these variations.

Changes in the number of recipients has a significant impact on changes in total benefits. Between 1983 and 1993, the four counties (Adams, Hardin, Johnson, Washington) for which total benefits increased by more than 100 percent also experienced the greatest percentage gains in recipients of food stamps (Table 6). The other 10 counties with participant increases exceeding 12 percent all saw total benefits rise by at least 65 percent. Of the 37 counties that had more persons in the program in 1993 than in 1983, all but two reported an increase in total benefits of at least 50 percent. In contrast, of the 62 counties for which participants declined, only two experienced benefit increases exceeding 50 percent. The expected linkage between the number of persons in the program and the total benefits paid is evident.

Total benefit increases are less clearly related to changes in per person benefits, however (Table 6). For example, Buchanan's average monthly benefit gained 39.8 percent from 1983 to 1993 but the total paid declined by 5.9 percent. Lyon, which also had a 39.8 percent increase in average monthly benefits, reported a total benefit increase of 25.3 percent. Thus, while average monthly benefit changes influence total benefits paid, more significant impacts come through changes in the number of persons enrolled in the food stamp program.

Figure 1. Average number of persons receiving food stamps in Iowa 1980-1993.

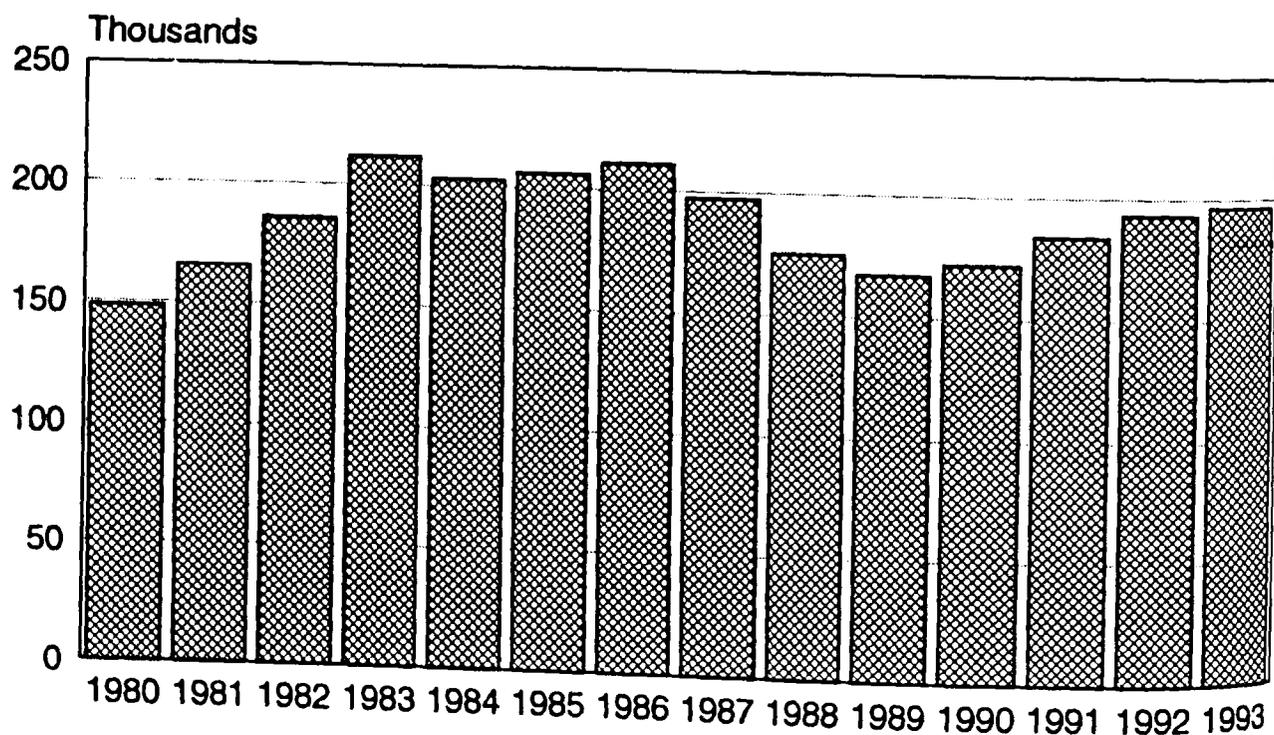


Figure 2. Percent receiving food stamps, 1993.

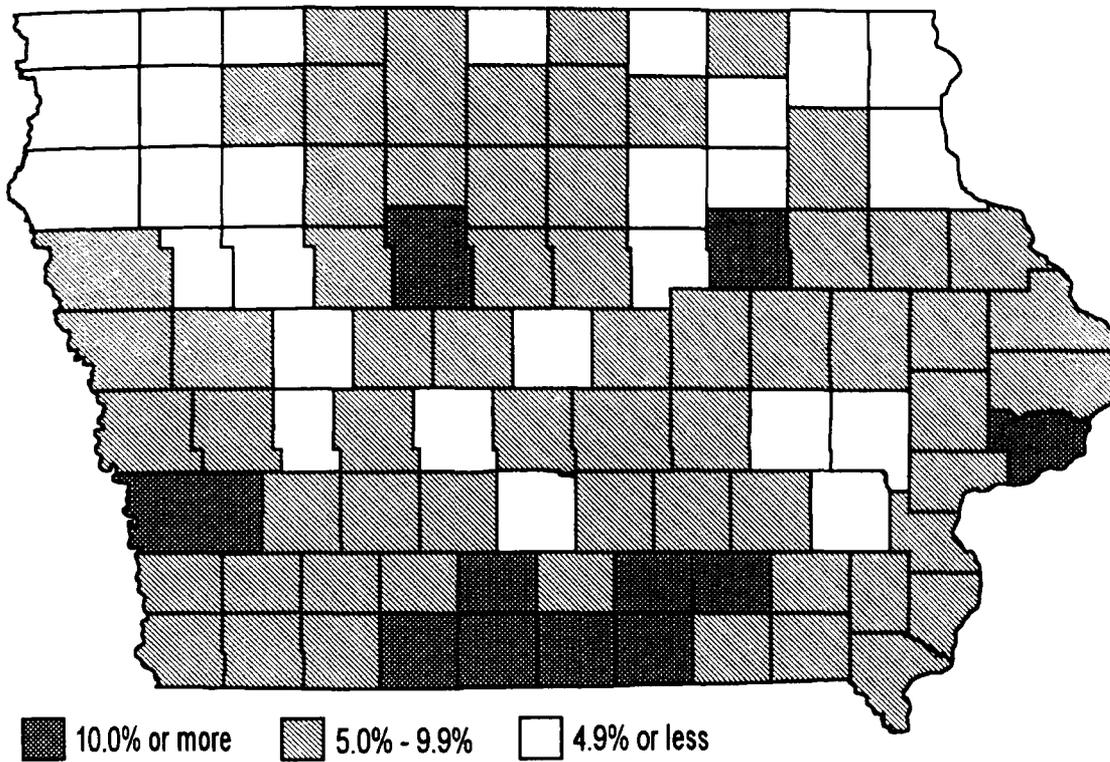


Figure 3. Total annual food stamp benefits in Iowa, 1980-1993.

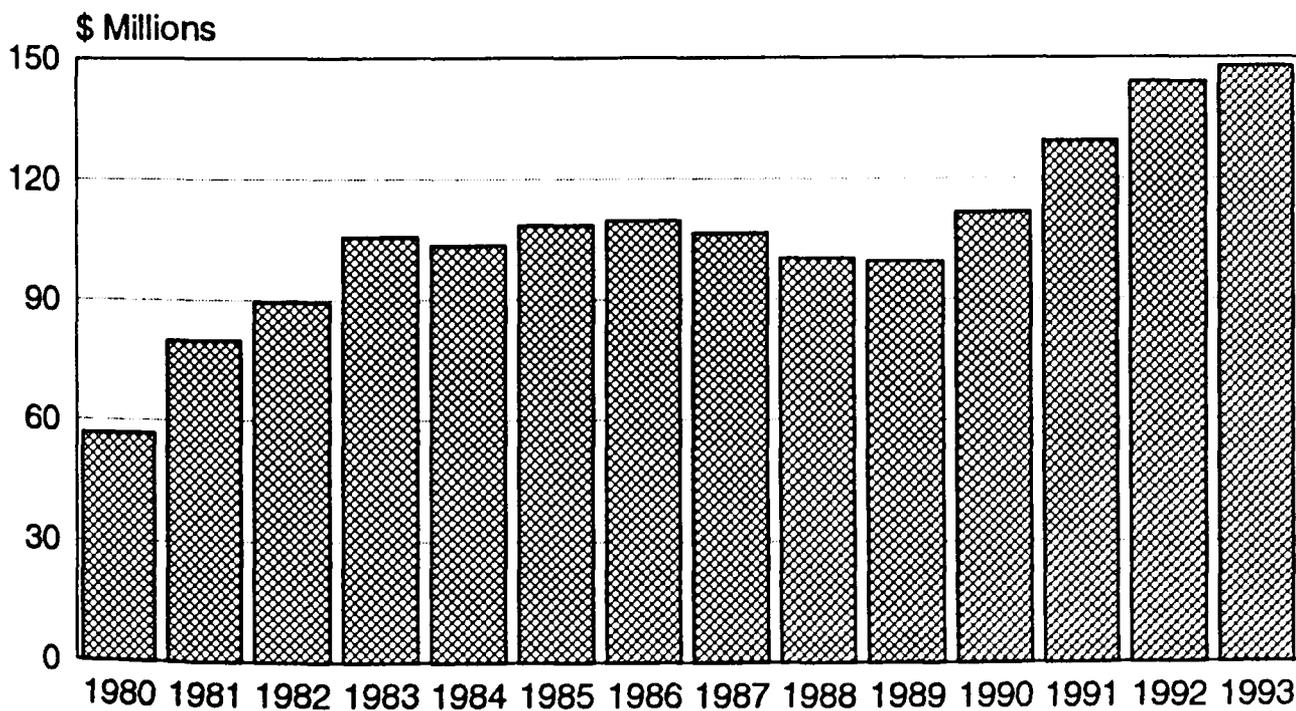


Figure 4. Average monthly food stamp benefits per recipient in Iowa, 1980-1993.

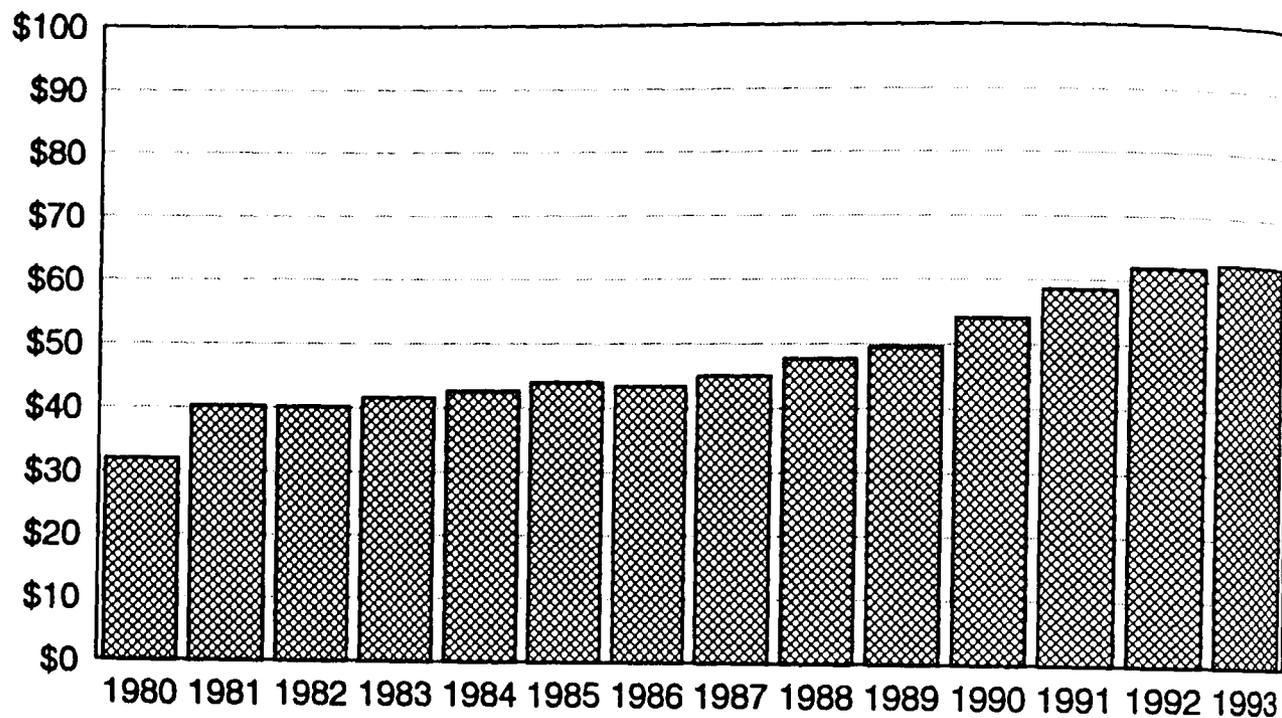
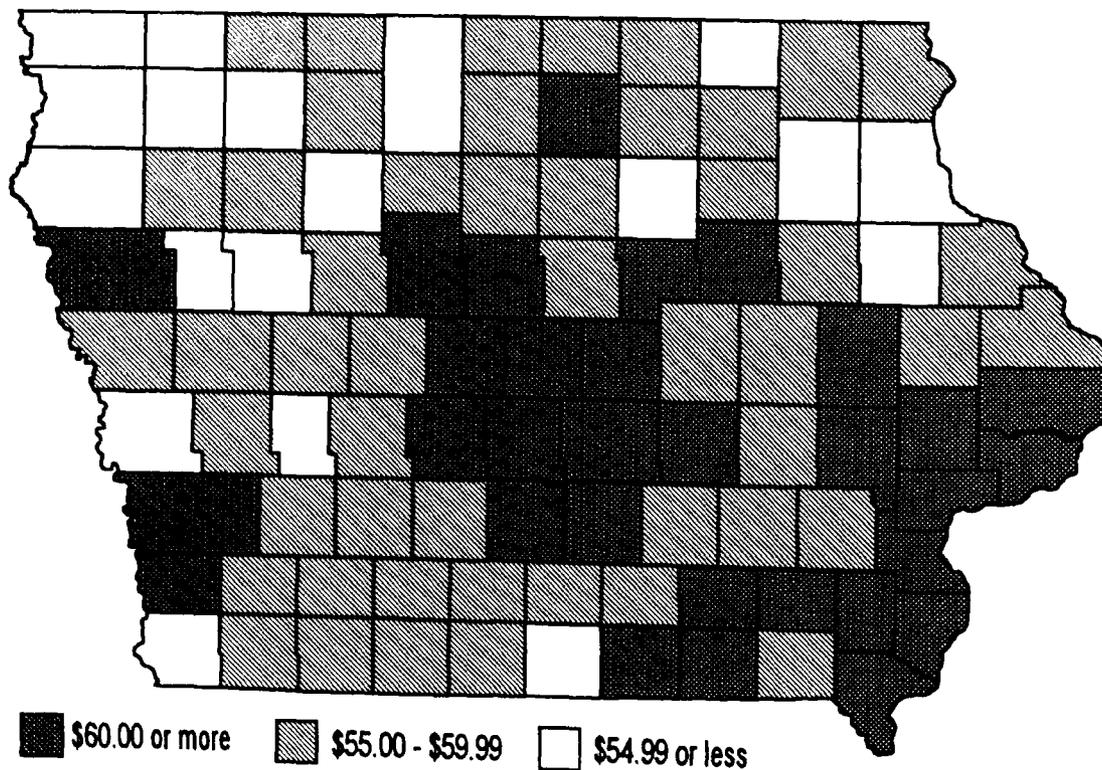


Figure 5. Average monthly food stamp benefit per recipient, 1993.



Medical Services Provided Under Title XIX of the Social Security Act in Iowa's Counties: 1980-1993

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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 and receiving benefits each month. Eligibility is determined primarily on the basis of income, although other factors enter as well; recipients include those who received some type of medical assistance for which payment was made during a month covered by a report. For this report, averages of those eligible and those actually receiving benefits paid were calculated for each year from 1980 through 1993; numbers from monthly reports were summed and divided by 12.

Persons Eligible for Title XIX Assistance

In 1993, Iowa averaged more than 223,000 persons eligible for Title XIX medical benefits each month (Table 1, Figure 1). Although there was year-to-year variation, there was a general upward trend throughout the 14 years reported. The figure for 1982, the lowest of those reported, was nearly 148,000.

Polk averaged nearly 28,000 persons eligible for medical assistance each month in 1993, the highest of any county. Black Hawk, Linn, Scott, and Woodbury were the only other counties with more than 10,000. Fifty-six counties had from 1,000 to 9,999 persons eligible for Title XIX assistance. Osceola was the only county with fewer than 400 persons eligible while four others (Adams, Audubon, Grundy, Ida) were below 500.

The state averaged 63,428 more persons eligible for the Title XIX program in 1993 than in 1983. All counties followed that pattern with more persons eligible for the program at the end of the period than at the beginning. Sixteen reported at least 1,000 more persons eligible in 1993 than in 1983. Twenty-two had fewer than 200 more eligible in 1993 than 10 years earlier; the difference was less than 100 in Davis, Delaware, and Grundy.

Iowa had 39.6 percent more persons eligible for Title XIX assistance in 1993 than in 1983. Fifty-seven counties had percentage increases larger than that for the state. Seven (Adams, Cass, Crawford, Johnson, Keokuk, Kossuth, Story) had gains of 75 percent or more. Delaware and Mills were the only counties reporting increases of less than 10 percent.

Persons Receiving Title XIX Assistance

Because not everyone uses medical services even though eligible for the program, the average number of recipients served is lower than the number eligible for benefits. During an average month in 1993, more than 174,000 Iowans actually received medical assistance (Table 2). That was the highest average number of recipients in the years reported. As with the number of persons eligible, there was a general upward trend in recipients throughout the 14 years studied (Figure 1).

Table 1. Average Monthly Number Eligible for Title XIX Benefits in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	561	509	477	445	375	368	423	472	437	405	391	352	392	396
Adams	452	443	420	362	329	336	376	341	301	246	214	176	207	216
Allamakee	975	933	782	716	685	671	697	749	738	706	681	703	796	850
Appanoose	2010	1950	1847	1782	1767	1752	1762	1829	1790	1793	1695	1504	1505	1537
Audubon	446	461	437	372	348	331	331	351	342	277	284	298	348	358
Benton	1477	1474	1375	1315	1143	1119	1157	1086	1118	1107	1013	918	943	911
Black Hawk	13593	13214	12960	12748	12719	12405	13283	13413	12666	12058	10340	9404	9855	9894
Boone	2217	2112	1970	1850	1881	1837	1865	1902	1895	1857	1809	1739	1831	1881
Bremer	1225	1066	1039	925	826	862	972	1020	975	953	824	737	792	713
Buchanan	1656	1651	1619	1547	1547	1593	1765	1805	1684	1485	1334	1083	1113	1126
Buena Vista	1205	1151	1052	979	907	909	938	950	874	781	772	762	836	840
Butler	1084	1090	1037	971	894	918	976	994	936	853	775	653	739	779
Calhoun	800	814	749	703	665	639	718	696	621	590	573	546	614	638
Carroll	1330	1241	1144	1119	1053	902	943	889	820	817	784	767	824	814
Cass	1331	1218	1092	964	880	838	887	920	889	812	752	761	901	849
Cedar	1014	961	907	897	839	798	845	778	707	636	665	663	697	766
Cerro Gordo	3989	3859	3649	3438	3184	3047	3063	2969	2697	2618	2702	2652	2903	2884
Cherokee	835	804	790	746	680	665	732	718	676	660	637	605	676	724
Chickasaw	857	754	682	649	622	607	679	651	637	594	518	420	485	505
Clarke	848	831	726	685	608	628	689	661	630	533	562	522	486	479
Clay	1244	1211	1177	1091	1034	1002	1078	1110	1042	942	938	870	976	898
Clayton	1140	1161	1124	1060	984	939	942	975	953	932	937	880	926	952
Clinton	4987	4672	4477	4284	4009	3772	3950	4156	4035	3529	3275	2692	2666	2465
Crawford	1558	1513	1618	1356	1059	990	1006	954	841	777	822	746	762	827
Dallas	1667	1672	1590	1529	1481	1372	1542	1597	1564	1470	1386	1196	1251	1223
Davis	691	690	669	717	710	695	735	651	673	651	611	499	522	555
Decatur	1081	1028	921	859	796	778	792	766	726	677	679	682	760	751
Delaware	1048	1033	971	1006	1023	1069	1165	1230	1136	1033	958	822	912	915
Des Moines	4278	4010	3926	3692	3519	3208	3298	3385	3305	3060	2948	2751	2991	2896
Dickinson	759	781	720	664	686	635	637	615	605	584	630	614	633	643
Dubuque	5769	5658	5412	5049	4933	4926	5349	5560	5517	5391	5118	4305	4337	4292
Emmet	905	913	881	859	814	780	865	925	840	725	690	635	680	691
Fayette	2068	1917	1812	1636	1468	1405	1498	1471	1386	1302	1255	1136	1185	1168
Floyd	1578	1535	1427	1372	1299	1188	1286	1342	1222	1183	1136	1050	1132	1084
Franklin	779	746	716	675	602	556	565	576	540	549	545	504	577	616
Fremont	815	739	680	627	621	599	622	604	582	511	475	428	510	538
Greene	739	691	659	629	560	559	583	611	589	558	530	505	572	575
Grundy	437	513	485	437	416	396	448	447	436	415	392	347	400	386
Guthrie	970	936	828	750	713	763	841	787	749	700	659	617	660	673
Hamilton	1155	1145	1050	919	869	855	914	862	768	800	786	741	811	829
Hancock	744	757	681	578	505	458	486	483	446	412	436	432	511	521
Hardin	1496	1393	1256	1127	1035	1025	1016	986	930	890	905	944	1008	976
Harrison	1508	1470	1342	1223	1117	1055	1056	1004	1023	1031	1013	912	987	1035
Henry	1429	1332	1299	1172	1045	909	893	952	1011	993	948	809	876	948
Howard	752	699	627	600	532	487	530	573	602	580	584	509	552	577
Humboldt	813	721	635	607	585	570	585	583	553	460	465	452	523	503
Ida	444	452	402	340	339	331	351	330	296	272	282	275	295	310
Iowa	676	623	607	572	464	457	505	508	440	389	419	379	434	440
Jackson	1717	1624	1568	1501	1486	1524	1611	1683	1561	1485	1365	1135	1040	1062
Jasper	2307	2186	2003	1891	1797	1809	1987	2097	2007	1899	1912	1745	1886	1834

Table 1. Average Monthly Number Eligible for Title XIX Benefits in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	1322	1236	1192	1141	1025	928	950	886	842	833	840	826	818	907
Johnson	3497	3261	3011	2790	2479	2281	2254	2163	1958	1808	1762	1689	1894	1850
Jones	1170	1070	992	1006	984	989	1016	1067	981	944	914	902	909	949
Keokuk	1096	1023	1003	954	915	858	861	846	754	665	602	535	597	598
Kossuth	1148	1102	962	886	748	679	729	714	654	627	653	657	753	745
Lee	4164	3986	3771	3532	3342	3175	3344	3419	3388	3269	3117	2730	2720	2621
Linn	11961	11670	11157	10404	9793	9678	10398	10501	10159	9845	9398	8496	8555	8296
Louisa	1038	972	910	832	760	766	861	873	869	893	792	692	732	792
Lucas	970	945	905	834	809	799	854	894	886	888	827	757	773	848
Lucas	571	535	471	445	401	372	368	377	364	355	329	331	340	309
Lyon	795	781	742	741	729	669	696	719	705	681	670	594	600	623
Madison	2058	1996	1924	1819	1674	1580	1634	1661	1541	1462	1443	1308	1413	1415
Mahaska	1873	1763	1623	1546	1460	1442	1515	1594	1483	1469	1415	1227	1312	1367
Marion	3341	3143	2897	2659	2487	2379	2499	2394	2246	2249	2099	1708	2189	2284
Marshall	1554	1520	1444	1428	1423	1469	1521	1546	1597	1475	1426	1443	1559	1527
Mills	575	550	499	440	434	437	434	415	404	411	436	414	433	447
Mitchell	1039	1080	1043	947	832	806	873	871	797	768	753	703	710	712
Monona	917	883	840	858	842	859	835	841	747	638	635	552	556	546
Monroe	1068	1035	893	814	763	720	792	811	776	690	665	659	673	684
Montgomery	3743	3674	3538	3383	3158	2981	3217	3223	3013	2709	2506	2305	2364	2419
Muscatine	868	876	751	697	641	680	720	664	618	621	608	571	671	653
O'Brien	331	308	321	276	266	237	242	289	273	227	213	190	207	242
Osceola	1637	1588	1546	1437	1432	1331	1354	1384	1275	1179	1160	1037	1098	1133
Page	788	777	735	698	645	637	683	710	713	637	641	641	710	770
Palo Alto	1045	1012	916	904	881	845	837	863	760	700	699	664	771	768
Plymouth	619	602	572	487	427	385	414	439	441	440	426	416	465	475
Pocahontas	27999	27508	25616	23690	21806	20853	21261	21433	21336	21201	21147	19995	21830	21026
Polk	8738	8350	7844	7080	6489	6212	6240	6252	6219	6184	6316	6192	6893	6828
Pottawattamie	1106	1105	982	871	761	782	847	900	864	768	739	670	740	701
Poweshiek	525	508	481	482	489	492	511	471	488	427	395	372	390	408
Ringgold	841	807	751	685	647	561	544	591	591	580	528	489	536	541
Sac	16789	16264	15461	14654	13647	13209	13549	13331	12880	12228	11168	9827	9894	9843
Scott	818	795	754	724	582	561	580	561	538	501	490	469	486	470
Shelby	1086	1062	1007	916	912	827	857	832	772	683	704	719	771	801
Sioux	2831	2641	2412	2228	1927	1750	1880	1792	1666	1490	1402	1301	1488	1552
Story	1311	1369	1209	1083	983	985	1048	1004	956	924	911	886	999	1040
Tama	682	640	623	613	558	519	561	592	581	548	510	438	472	496
Taylor	1368	1334	1273	1261	1249	1150	1214	1236	1163	1055	983	911	961	966
Union	643	579	551	537	487	496	495	512	525	519	478	401	439	502
Van Buren	4635	4774	4523	4177	4021	4077	4324	4224	3824	3674	3423	2959	3086	3159
Wapello	2007	1981	1872	1745	1610	1529	1632	1657	1705	1660	1608	1409	1518	1489
Warren	1234	1231	1196	1132	1043	1000	983	960	916	812	719	714	795	830
Washington	792	748	651	670	610	598	596	623	637	636	602	562	587	604
Wayne	4402	4258	4089	3844	3585	3358	3539	3503	3282	3225	3043	2862	3092	3292
Webster	664	618	599	564	489	433	462	478	458	415	468	439	522	505
Winneshiek	1041	985	886	801	780	765	770	789	726	675	660	624	699	697
Woodbury	10061	10383	10063	9357	8531	8287	8651	8253	7898	7737	7498	7105	7819	7967
Worth	508	498	474	472	390	376	433	437	403	396	385	389	408	394
Wright	1053	1036	939	832	757	744	802	843	787	750	726	694	831	892
State of Iowa	223776	217215	205223	192410	180158	173879	181934	182454	175267	167547	160348	147698	157396	157324

Table 2. Average Monthly Number Receiving Title XIX Benefits in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	406	377	352	328	280	271	308	311	286	263	246	230	263	249
Adams	327	316	297	265	234	238	263	238	208	165	137	119	137	145
Allamakee	724	675	555	519	482	474	492	501	476	448	435	441	496	507
Appanoose	1468	1370	1314	1257	1167	1184	1179	1152	1102	1017	963	858	914	914
Audubon	350	375	336	294	272	249	251	251	243	196	203	202	223	221
Benton	1067	1061	981	910	767	722	761	690	701	662	569	515	537	487
Black Hawk	11568	11762	11745	8797	7725	7503	8138	7675	7106	6415	5450	4953	5200	5080
Boone	1636	1587	1526	1493	1479	1394	1445	1418	1425	1360	1323	1275	1350	1367
Bremer	921	780	724	638	548	574	613	593	564	512	444	419	434	375
Buchanan	1142	1171	1131	1097	1051	1081	1183	1106	1024	859	752	640	634	616
Buena Vista	887	852	779	725	640	647	645	597	551	478	477	454	506	484
Butler	894	819	773	706	645	642	663	624	582	543	483	426	467	474
Calhoun	622	612	568	539	490	473	520	474	429	414	378	368	420	421
Carroll	1023	963	864	850	755	670	710	604	565	553	532	542	548	536
Cass	959	897	807	731	649	615	647	625	596	547	498	504	566	514
Cedar	715	694	633	622	543	540	556	468	430	388	377	365	404	419
Cerro Gordo	3169	2880	2738	2489	2228	2084	2106	1891	1714	1655	1665	1620	1753	1699
Cherokee	646	620	594	561	505	483	510	496	455	451	416	409	425	446
Chickasaw	639	568	525	491	418	424	463	430	391	342	309	264	292	303
Clarke	597	588	501	456	420	425	468	405	378	330	340	307	283	296
Clay	909	908	887	798	716	709	749	707	653	589	586	554	603	550
Clayton	854	855	806	758	677	635	630	614	576	572	568	525	546	550
Clinton	3538	3117	2957	2899	2565	2351	2494	2425	2213	1959	1738	1470	1463	1320
Crawford	1126	1141	1169	914	726	651	657	604	530	512	508	462	469	470
Dallas	1244	1267	1182	1141	1027	956	1058	1021	982	903	815	738	777	723
Davis	514	513	489	514	477	457	476	406	410	381	341	300	325	336
Decatur	743	723	645	628	570	554	563	516	488	447	443	430	487	473
Delaware	729	718	692	699	657	669	746	694	649	579	532	459	504	490
Des Moines	2820	2717	2602	2445	2186	1990	2101	1981	1914	1706	1617	1454	1540	1539
Dickinson	597	621	553	491	457	412	417	370	366	362	370	364	392	387
Dubuque	4068	3897	3711	3429	3398	3382	3423	3228	3150	3034	2832	2376	2495	2415
Emmet	707	755	696	638	576	542	594	569	502	449	430	396	435	417
Fayette	1541	1343	1256	1152	1026	947	999	925	878	775	739	672	696	659
Floyd	1226	1147	1044	1000	893	825	883	870	773	722	708	635	686	661
Franklin	574	557	536	490	418	394	395	372	345	353	343	327	369	386
Fremont	569	548	497	465	448	436	443	397	362	318	313	286	332	346
Greene	513	478	445	432	364	350	372	376	359	336	322	307	355	333
Grundy	341	385	351	333	304	291	323	312	299	262	255	229	252	244
Guthrie	721	705	613	556	511	549	600	534	501	464	419	392	433	405
Hamilton	864	887	808	741	663	644	674	579	531	534	494	454	505	506
Hancock	548	571	497	427	367	325	340	320	284	259	280	267	312	303
Hardin	1099	1062	927	869	777	714	717	656	625	588	573	587	615	614
Harrison	1106	1068	975	897	800	742	728	651	671	636	624	564	611	622
Henry	1016	963	920	809	707	619	623	626	626	610	596	490	546	553
Howard	531	510	470	447	387	357	373	381	366	360	359	340	370	373
Humboldt	599	529	473	466	427	408	436	389	366	297	310	315	330	321
Ida	332	343	313	273	252	253	265	233	212	198	202	209	224	223
Iowa	490	457	428	410	330	322	359	328	284	244	270	242	269	265
Jackson	1598	1535	1440	1075	973	1013	1043	1021	937	873	779	645	638	623
Jasper	1701	1642	1498	1408	1254	1309	1383	1349	1305	1199	1138	1042	1120	1033

Table 2. Average Monthly Number Receiving Title XIX Benefits in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	948	886	851	818	730	665	670	583	534	539	528	505	539	560
Johnson	2399	2297	2140	1942	1628	1485	1452	1283	1164	1038	1003	977	1053	1009
Jones	818	743	684	726	676	653	683	647	602	560	534	491	520	504
Keokuk	734	704	685	648	594	585	583	535	472	437	386	355	379	380
Kossuth	841	796	692	647	520	461	493	439	404	385	401	385	434	423
Lee	3051	2863	2644	2414	2247	2049	2135	2071	1985	1856	1743	1536	1537	1459
Linn	10353	10927	10163	7533	6484	6231	6620	6279	6031	5586	5252	4501	4650	4398
Louisa	669	636	603	529	496	480	521	481	480	471	413	358	395	409
Lucas	729	727	694	639	588	602	634	606	598	575	549	489	506	529
Lyon	398	384	340	318	273	257	252	228	218	206	197	200	193	182
Madison	621	602	553	562	534	504	537	519	497	459	445	408	408	414
Mahaska	1468	1479	1377	1314	1092	1074	1116	1050	985	894	848	777	817	804
Marion	1314	1262	1139	1090	991	962	1011	976	915	882	817	725	815	773
Marshall	2257	2137	1989	1831	1645	1514	1614	1475	1374	1335	1247	1158	1252	1264
Mills	1252	1268	1220	1213	1229	1243	1273	1268	1281	1217	1192	1203	1252	1211
Mitchell	425	411	358	338	324	316	313	284	273	270	284	265	279	297
Monona	812	837	770	712	577	571	619	573	517	513	503	466	467	457
Monroe	651	639	609	642	594	593	592	571	498	422	404	350	376	335
Montgomery	802	770	656	598	548	521	567	527	524	456	445	414	431	414
Muscatine	3512	3478	3227	2284	1947	1789	1936	1819	1665	1481	1391	1263	1358	1337
O'Brien	680	677	602	539	491	496	506	443	422	413	415	400	459	447
Osceola	244	238	215	198	186	168	170	178	163	134	123	113	124	143
Page	1200	1164	1145	1080	1040	972	1011	968	883	785	771	661	731	731
Palo Alto	616	598	574	535	481	471	513	492	488	431	426	429	479	482
Plymouth	772	750	680	659	622	584	574	553	493	463	457	431	483	471
Pocahontas	465	458	413	363	317	273	292	293	295	278	267	266	303	309
Polk	25688	25021	22004	16430	14094	13628	13388	12701	12237	11870	11548	10725	11705	11010
Pottawattamie	8259	7944	7263	5113	4319	4081	4049	3885	3856	3697	3728	3634	4012	3854
Poweshiek	857	819	724	640	556	554	605	568	526	446	427	393	430	399
Ringgold	391	391	370	380	363	365	376	328	335	278	258	254	271	281
Sac	613	604	555	526	463	404	391	397	388	369	335	317	334	330
Scott	15086	14591	13666	10401	9028	8957	8244	7061	6605	6204	5640	4814	5031	4784
Shelby	647	610	565	549	461	425	435	392	371	341	338	312	320	297
Sioux	831	841	770	707	668	589	597	569	526	461	472	466	484	466
Story	1976	1849	1736	1569	1323	1198	1241	1119	1035	915	881	809	889	894
Tama	961	971	849	778	703	698	720	636	606	557	548	526	595	594
Taylor	469	458	430	430	374	348	389	377	384	363	334	279	287	302
Union	968	946	878	888	836	772	830	791	734	659	633	598	610	616
Van Buren	436	417	377	378	314	317	322	314	312	303	265	237	265	280
Wapello	3142	3300	3037	2807	2635	2634	2753	2538	2330	2183	1992	1696	1802	1775
Warren	1523	1501	1386	1329	1177	1113	1177	1121	1117	1042	998	871	952	931
Washington	895	906	873	845	737	679	653	610	581	518	463	467	517	508
Wayne	555	540	478	496	445	430	429	417	411	394	383	354	362	374
Webster	2994	2945	2765	2587	2352	2166	2235	2081	1935	1852	1712	1531	1699	1704
Winnebago	513	487	443	411	347	325	334	336	306	298	312	297	334	306
Winneshiek	753	723	648	584	530	503	490	469	426	381	379	370	396	392
Woodbury	6254	6586	6296	5756	5078	4901	5122	4636	4444	4085	4006	3639	4162	4109
Worth	359	364	349	330	268	264	298	276	247	244	226	222	236	217
Wright	764	758	683	618	570	546	590	574	522	466	470	437	518	529
State of Iowa	174287	170515	158290	134779	119766	115019	118116	110511	104481	97838	92924	84843	91080	88903

Table 3. Average Monthly Number Eligible for Title XIX Benefits as a Percentage of Total Population in Iowa Counties, 1980-1993.

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	6.8	6.1	5.7	5.3	4.4	4.3	4.9	5.4	4.9	4.4	4.2	3.8	4.2	4.2
Adams	9.7	9.6	8.9	7.4	6.6	6.6	7.2	6.6	5.7	4.5	3.9	3.2	3.7	3.8
Allamakee	7.1	6.8	5.7	5.2	4.9	4.7	4.9	5.2	5.0	4.8	4.6	4.7	5.3	5.6
Appanoose	14.6	14.2	13.5	13.0	12.8	12.6	12.5	12.9	12.4	12.2	11.4	9.9	9.8	9.9
Audubon	6.3	6.5	6.0	5.1	4.7	4.4	4.3	4.5	4.2	3.3	3.4	3.6	4.1	4.2
Benton	6.5	6.5	6.1	5.9	5.1	5.0	5.2	4.9	5.0	4.9	4.4	3.9	4.0	3.9
Black Hawk	10.8	10.5	10.3	10.3	10.3	10.1	10.7	10.6	9.7	9.0	7.6	6.9	7.1	7.2
Boone	8.8	8.4	7.8	7.3	7.5	7.3	7.4	7.5	7.4	7.2	7.0	6.7	7.0	7.2
Bremer	5.4	4.7	4.6	4.1	3.6	3.8	4.3	4.4	4.1	3.9	3.4	3.0	3.2	2.9
Buchanan	7.9	7.9	7.7	7.4	7.4	7.7	8.5	8.6	7.7	6.7	5.9	4.7	4.8	4.9
Buena Vista	6.0	5.8	5.3	4.9	4.5	4.5	4.7	4.7	4.2	3.7	3.7	3.7	4.0	4.0
Butler	6.9	7.0	6.6	6.2	5.6	5.7	6.1	6.1	5.6	5.0	4.5	3.7	4.2	4.4
Calhoun	7.0	7.1	6.5	6.1	5.7	5.5	6.1	5.8	5.0	4.6	4.4	4.1	4.6	4.7
Carroll	6.2	5.8	5.4	5.2	4.9	4.2	4.3	4.0	3.7	3.6	3.5	3.4	3.6	3.5
Cass	8.9	8.1	7.3	6.4	5.8	5.5	5.8	5.8	5.4	4.8	4.5	4.5	5.3	5.0
Cedar	5.8	5.5	5.2	5.2	4.8	4.6	4.8	4.4	3.9	3.5	3.6	3.6	3.7	4.1
Cerro Gordo	8.5	8.2	7.8	7.4	6.8	6.5	6.5	6.2	5.6	5.4	5.6	5.5	6.0	6.0
Cherokee	6.0	5.8	5.6	5.3	4.8	4.7	5.0	4.8	4.4	4.2	4.0	3.8	4.2	4.5
Chickasaw	6.5	5.7	5.2	4.9	4.6	4.5	4.9	4.6	4.4	4.0	3.4	2.8	3.2	3.3
Clarke	10.2	10.0	8.8	8.3	7.3	7.5	8.3	8.0	7.5	6.3	6.6	6.0	5.6	5.6
Clay	7.0	6.8	6.7	6.2	5.9	5.8	6.2	6.2	5.7	5.0	4.9	4.5	5.0	4.6
Clayton	6.1	6.2	6.0	5.6	5.1	4.8	4.9	4.9	4.7	4.5	4.5	4.2	4.4	4.5
Clinton	9.7	9.1	8.8	8.4	7.9	7.3	7.6	7.9	7.5	6.5	5.9	4.8	4.7	4.3
Crawford	9.4	9.1	9.7	8.1	6.2	5.7	5.7	5.4	4.6	4.1	4.4	4.0	4.0	4.4
Dallas	5.4	5.4	5.2	5.1	5.1	4.7	5.4	5.5	5.3	5.0	4.7	4.1	4.3	4.1
Davis	8.3	8.3	8.0	8.6	8.6	8.3	8.6	7.5	7.7	7.3	6.8	5.5	5.7	6.1
Decatur	13.3	12.7	11.3	10.3	9.4	9.2	9.3	8.7	8.1	7.4	7.3	7.1	7.8	7.7
Delaware	5.7	5.6	5.3	5.6	5.7	5.9	6.5	6.8	6.1	5.5	5.1	4.4	4.8	4.8
Des Moines	10.0	9.4	9.2	8.7	8.3	7.5	7.7	7.8	7.5	6.9	6.6	6.1	6.5	6.3
Dickinson	5.0	5.1	4.7	4.5	4.6	4.3	4.3	4.1	4.0	3.8	4.1	4.0	4.1	4.1
Dubuque	6.6	6.5	6.2	5.8	5.7	5.6	6.1	6.3	6.2	6.0	5.7	4.7	4.6	4.6
Emmet	7.8	7.9	7.6	7.4	7.1	6.7	7.4	7.8	6.8	5.7	5.4	4.8	5.1	5.2
Fayette	9.5	8.8	8.3	7.5	6.7	6.4	6.8	6.5	5.9	5.4	5.1	4.6	4.7	4.6
Floyd	9.3	9.1	8.5	8.0	7.5	6.8	7.3	7.5	6.6	6.3	6.0	5.5	5.9	5.5
Franklin	7.0	6.7	6.3	5.9	5.3	4.8	4.8	4.8	4.4	4.4	4.3	3.9	4.5	4.7
Fremont	10.0	9.1	8.3	7.6	7.5	7.1	7.2	7.0	6.6	5.7	5.2	4.7	5.5	5.7
Greene	7.4	6.9	6.6	6.3	5.5	5.4	5.5	5.6	5.3	4.9	4.5	4.3	4.8	4.7
Grundy	3.6	4.3	4.1	3.6	3.4	3.2	3.6	3.5	3.3	3.1	2.8	2.5	2.8	2.7
Guthrie	8.7	8.4	7.5	6.9	6.5	6.9	7.6	7.0	6.6	6.0	5.7	5.3	5.6	5.6
Hamilton	7.2	7.1	6.6	5.7	5.3	5.2	5.5	5.1	4.5	4.7	4.5	4.2	4.5	4.6
Hancock	6.0	6.2	5.5	4.6	3.9	3.6	3.8	3.7	3.3	3.1	3.3	3.2	3.7	3.8
Hardin	8.0	7.4	6.6	5.9	5.4	5.3	5.2	4.9	4.5	4.2	4.2	4.4	4.7	4.5
Harrison	10.3	10.0	9.2	8.3	7.5	7.0	7.0	6.5	6.6	6.6	6.4	5.7	6.1	6.3
Henry	7.3	6.8	6.7	6.1	5.5	4.8	4.7	5.0	5.4	5.4	5.1	4.3	4.7	5.0
Howard	7.6	7.1	6.4	6.1	5.4	4.8	5.2	5.6	5.7	5.3	5.4	4.7	5.0	5.2
Humboldt	7.7	6.9	6.0	5.6	5.4	5.2	5.3	5.2	4.8	3.9	3.9	3.8	4.3	4.1
Ida	5.4	5.5	4.9	4.1	4.0	4.0	4.2	3.8	3.4	3.1	3.2	3.1	3.3	3.5
Iowa	4.6	4.2	4.1	3.9	3.2	3.1	3.4	3.4	2.9	2.6	2.8	2.5	2.8	2.9
Jackson	8.6	8.1	7.9	7.5	7.4	7.4	7.7	8.0	7.2	6.8	6.2	5.1	4.7	4.7
Jasper	6.6	6.3	5.8	5.4	5.2	5.2	5.7	6.1	5.8	5.4	5.4	4.9	5.2	5.0

*1993 rates were calculated with 1992 population estimates.

Table 3. Average Monthly Number Eligible for Title XIX Benefits as a Percentage of Total Population in Iowa Counties, 1980-1993 (continued).

County	1993*	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	8.0	7.5	7.3	7.0	6.3	5.7	5.8	5.4	5.2	5.1	5.2	5.1	5.1	5.6
Johnson	3.6	3.3	3.1	2.9	2.6	2.5	2.5	2.4	2.2	2.1	2.0	2.0	2.3	2.3
Jones	5.9	5.4	5.1	5.2	5.1	5.2	5.3	5.5	5.0	4.7	4.6	4.5	4.5	4.7
Keokuk	9.5	8.8	8.6	8.2	7.8	7.3	7.2	7.0	6.1	5.3	4.8	4.2	4.7	4.6
Kossuth	6.3	6.1	5.3	4.8	4.0	3.6	3.8	3.6	3.2	3.0	3.1	3.1	3.5	3.4
Lee	10.7	10.2	9.7	9.1	8.6	8.1	8.4	8.5	8.3	7.9	7.4	6.5	6.4	6.1
Linn	6.9	6.7	6.5	6.2	5.8	5.8	6.3	6.4	6.2	6.0	5.7	5.1	5.1	4.9
Louisa	9.1	8.5	7.8	7.2	6.6	6.6	7.4	7.5	7.4	7.4	6.6	5.8	6.0	6.6
Lucas	10.7	10.5	9.9	9.2	8.8	8.6	9.1	9.4	9.1	8.8	8.2	7.4	7.5	8.2
Lyon	4.8	4.5	4.0	3.7	3.4	3.1	3.1	3.1	2.9	2.8	2.6	2.6	2.7	2.4
Madison	6.3	6.1	5.9	5.9	5.9	5.4	5.7	5.9	5.8	5.6	5.4	4.8	4.8	4.9
Mahaska	9.6	9.3	9.0	8.5	7.8	7.3	7.6	7.7	7.1	6.6	6.6	5.9	6.3	6.2
Marion	6.2	5.8	5.4	5.2	4.9	4.8	5.1	5.4	5.0	5.0	4.8	4.1	4.4	4.6
Marshall	8.9	8.3	7.6	6.9	6.5	6.2	6.4	6.0	5.6	5.5	5.1	4.1	5.2	5.5
Mills	11.6	11.4	10.9	10.8	10.7	11.0	11.5	11.7	12.0	11.1	10.7	10.8	11.5	11.4
Mitchell	5.3	5.1	4.6	4.0	3.9	3.9	3.9	3.7	3.5	3.5	3.7	3.5	3.6	3.6
Monona	10.5	10.9	10.5	9.4	8.2	7.8	8.4	8.3	7.4	6.9	6.6	6.2	6.2	6.1
Monroe	11.2	10.8	10.3	10.6	10.4	10.5	10.1	10.1	8.7	7.3	7.2	6.2	6.1	5.9
Montgomery	9.1	8.8	7.5	6.7	6.3	6.0	6.6	6.6	6.0	5.2	5.1	5.0	5.0	5.1
Muscatine	9.2	9.0	8.7	8.5	7.9	7.5	8.1	8.1	7.5	6.6	6.1	5.6	5.8	6.0
O'Brien	5.6	5.7	4.9	4.5	4.1	4.4	4.6	4.2	3.8	3.7	3.6	3.4	4.0	3.8
Osceola	4.6	4.3	4.4	3.8	3.7	3.2	3.3	3.8	3.5	2.8	2.6	2.3	2.5	2.9
Page	9.9	9.6	9.2	8.5	8.5	8.0	8.0	8.0	7.2	6.5	6.3	5.6	5.8	5.9
Palo Alto	7.5	7.4	7.0	6.5	6.0	5.9	6.2	6.2	6.0	5.2	5.1	5.1	5.6	6.1
Plymouth	4.4	4.3	3.9	3.9	3.8	3.6	3.6	3.7	3.2	2.9	2.9	2.7	3.1	3.1
Pocahontas	6.7	6.5	6.1	5.1	4.4	3.9	4.1	4.2	4.1	4.1	3.9	3.8	4.2	4.2
Polk	8.3	8.1	7.7	7.2	6.8	6.6	6.8	6.9	6.9	6.9	6.9	6.6	7.2	6.9
Pottawattamie	10.4	10.0	9.5	8.6	7.8	7.5	7.4	7.4	7.3	7.2	7.4	7.2	8.0	7.9
Poweshiek	5.8	5.8	5.2	4.6	4.0	4.1	4.5	4.8	4.6	4.1	3.9	3.5	3.8	3.6
Ringgold	9.9	9.6	9.0	8.9	9.0	9.1	9.4	8.5	8.4	7.2	6.6	6.1	6.4	6.7
Sac	7.0	6.7	6.2	5.6	5.2	4.5	4.3	4.6	4.5	4.4	3.9	3.6	3.8	3.8
Scott	10.8	10.5	10.1	9.7	9.1	8.8	9.0	8.7	8.3	7.8	7.1	6.2	6.2	6.2
Shelby	6.2	6.0	5.7	5.5	4.4	4.2	4.3	4.1	3.8	3.4	3.3	3.2	3.3	3.1
Sioux	3.6	3.5	3.3	3.1	3.1	2.8	2.9	2.8	2.5	2.2	2.3	2.4	2.5	2.6
Story	3.8	3.6	3.2	3.0	2.6	2.4	2.6	2.4	2.2	2.0	1.9	1.8	2.0	2.1
Tama	7.6	7.9	7.0	6.2	5.6	5.6	5.9	5.5	5.1	4.9	4.8	4.6	5.2	5.3
Taylor	9.8	9.2	8.9	8.6	7.8	7.2	7.6	7.8	7.4	6.8	6.2	5.3	5.7	5.9
Union	11.0	10.7	10.1	9.9	9.9	9.0	9.4	9.6	8.9	7.8	7.2	6.6	6.9	7.0
Van Buren	8.3	7.5	7.1	7.0	6.3	6.3	6.3	6.4	6.5	6.3	5.7	4.7	5.1	5.8
Wapello	13.0	13.4	12.7	11.7	11.3	11.5	11.9	11.4	10.0	9.5	8.8	7.5	7.7	7.9
Warren	5.4	5.3	5.1	4.8	4.5	4.3	4.7	4.7	4.9	4.8	4.6	4.1	4.3	4.3
Washington	6.2	6.1	6.0	5.8	5.3	5.1	5.0	4.9	4.6	4.1	3.6	3.6	3.9	4.1
Wayne	11.5	10.8	9.3	9.5	8.6	8.4	8.2	8.5	8.5	8.1	7.6	7.1	7.3	7.4
Webster	11.0	10.6	10.2	9.5	8.8	8.3	8.6	8.4	7.7	7.4	6.9	6.4	6.8	7.2
Winnebago	5.6	5.2	5.0	4.7	4.0	3.6	3.8	3.9	3.7	3.3	3.7	3.5	4.1	3.9
Winneshiek	4.9	4.7	4.3	3.8	3.7	3.6	3.7	3.7	3.4	3.1	3.0	2.9	3.2	3.2
Woodbury	10.1	10.4	10.1	9.5	8.7	8.5	8.9	8.5	8.0	7.8	7.5	7.1	7.7	7.9
Worth	6.5	6.3	6.0	5.9	4.8	4.6	5.3	5.2	4.6	4.5	4.3	4.3	4.5	4.3
Wright	7.4	7.3	6.7	5.8	5.3	5.2	5.6	5.7	5.1	4.7	4.6	4.4	5.2	5.5
State of Iowa	8.0	7.7	7.4	6.9	6.5	6.3	6.6	6.5	6.2	5.9	5.6	5.1	5.4	5.4

Table 4. Total Annual Title XIX Payments (in \$1,000) in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	2715	2255	1954	1679	1232	1128	1064	972	986	980	841	825	879	801
Adams	1526	1411	1176	1028	823	807	888	720	724	628	571	427	419	359
Allamakee	4466	4065	3440	3012	2335	2046	2009	1969	1976	1588	1581	1486	1745	1484
Appanoose	5532	5700	5041	4425	3550	3230	3059	2437	2500	2101	2043	1842	2205	1838
Audubon	2882	2686	2351	1797	1408	1163	1037	930	927	687	749	576	611	582
Benton	4972	4532	4701	3582	2971	2318	2105	1787	1674	1634	1537	1282	1296	1080
Black Hawk	44147	43326	39225	32376	27276	23831	21401	17399	16570	13636	12727	11953	11761	10469
Boone	40276	38388	39137	36179	33500	33322	29224	27288	25835	24184	24453	23638	20507	19870
Bremer	4742	4083	3711	2741	2125	1958	1689	1615	1542	1380	1439	1350	1225	915
Buchanan	6771	5559	5518	4648	4448	4114	4041	3876	3627	2815	2619	2691	2040	1693
Buena Vista	4845	4720	3844	3163	2645	2708	2119	1789	1724	1368	1402	1364	1319	1197
Butler	5834	4852	4475	3473	2936	2547	2316	2004	1895	1772	1785	1520	1532	1501
Calhoun	4392	4157	4232	3556	2533	2276	2329	1937	1936	1469	1457	1365	1328	1286
Carroll	7327	6519	5772	5095	4304	3102	2886	2254	2170	1988	1944	2009	1804	1792
Cass	6092	5577	4886	3660	2820	2215	2226	2155	2258	1692	1700	1659	1550	1483
Cedar	3813	3912	3492	2944	2530	2071	2091	1516	1306	1233	1166	1203	1226	1189
Cerro Gordo	16828	16921	14947	11917	9058	7568	6567	5043	4817	4355	4547	4352	4221	3997
Cherokee	5079	4246	4026	4209	3514	3011	2990	2775	2305	1960	2596	2726	1464	1777
Chickasaw	3126	3011	2639	2063	1582	1533	1287	1102	1048	892	977	811	843	760
Clarke	3116	2815	2390	1783	1772	1499	1743	1240	1300	1042	1058	923	787	671
Clay	4986	4743	4454	3924	3031	2805	2470	2039	1912	1606	1562	1332	1357	1266
Clayton	5285	5302	4796	3814	3330	2922	2481	2156	1956	1989	1981	1800	1792	1515
Clinton	17521	16477	16449	13223	9347	7976	7437	5996	5203	4001	3956	3596	3425	2921
Crawford	7059	6630	5885	4364	2898	2516	2229	1971	1772	1566	1837	1535	1334	1306
Dallas	6886	6859	6085	5109	4550	3972	3764	3061	3025	2514	2583	2297	2010	1755
Davis	2553	2653	2196	2147	1700	1439	1219	1018	1086	809	996	883	767	770
Decatur	4234	4054	3176	2909	2264	2198	1953	1838	1716	1475	1476	1472	1518	1434
Delaware	3918	3810	3538	2847	2381	2081	1909	1536	1496	1202	1195	1092	1130	885
Des Moines	12332	12247	11117	9639	8106	7024	6145	4802	5593	4031	3729	3707	3606	3445
Dickinson	3383	3213	2905	2163	1960	1431	1359	1127	1139	1155	875	1030	925	810
Dubuque	23709	20205	18753	15841	13461	12068	10478	9138	8847	8141	8052	7074	7123	6322
Emmet	4783	4631	4035	3026	2544	2210	2179	1920	1599	1362	1231	1184	1305	1157
Fayette	7205	6425	5807	4559	3638	3101	2971	2520	2519	2236	2219	2002	1910	1647
Floyd	7564	7129	5888	4897	3839	3180	2773	2347	2264	2158	2102	1914	1911	1611
Franklin	3546	3707	3039	2402	1859	1835	1468	1237	1233	1199	1156	1139	1226	1171
Fremont	3307	3142	2639	2339	1904	1678	1501	1312	1278	1088	1046	1006	1076	946
Greene	2759	2549	2193	1889	1375	1270	1150	1033	1060	897	898	758	848	720
Grundy	1667	2391	2027	1626	1498	1185	1140	983	997	834	818	756	813	685
Guthrie	4111	3926	3117	2625	2206	2067	2166	1996	1900	1794	1470	1487	1475	1272
Hamilton	5051	5265	3981	3257	2423	2071	1839	1521	1602	1396	1286	1266	1234	1222
Hancock	3198	3121	2623	2241	1672	1449	1305	1074	1070	902	945	874	827	839
Hardin	6429	6341	5444	4519	3353	3043	2432	2047	1994	1838	1736	1753	1744	1538
Harrison	6564	6839	6255	4562	4010	3030	2912	2264	2599	2458	2166	2102	2094	2203
Henry	5546	4963	5090	4112	3519	3222	2175	1888	1844	1861	2102	1630	1663	1746
Howard	3036	3016	2852	2156	1717	1354	1383	1196	1197	2233	1268	1282	1257	1118
Humboldt	3761	3166	3025	2731	1997	1615	1559	1261	1233	1003	1018	1197	885	858
Ida	2422	2361	2099	1698	1597	1161	1150	995	1018	895	900	929	923	889
Iowa	3481	3103	2892	2421	1655	1564	1475	1248	1112	885	968	951	943	883
Jackson	6063	6107	5318	4047	3476	3266	2918	2663	2278	2146	1984	1671	1540	1425
Jasper	10952	10184	8727	6823	5330	5222	4765	4317	4260	3347	3287	3121	2923	2352

Table 4. Total Annual Title XIX Payments (in \$1,000) in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	4792	4206	4081	3661	2777	2208	2073	1519	1392	1393	1471	1343	1243	1169
Johnson	12841	12344	11002	9080	6332	5352	4626	3802	3830	2583	2551	2554	2103	2521
Jones	3863	3560	3054	2501	2422	1955	1873	1567	1422	1284	1403	1196	1194	1142
Keokuk	3922	4004	3567	3020	2173	2115	1778	1547	1407	1250	1235	1090	1108	953
Kossuth	4823	4285	3543	3196	2454	1992	1842	1500	1494	1254	1290	1284	1286	1206
Lee	13353	13060	11662	9397	8688	7232	6581	6069	5916	5001	4990	4553	4013	3503
Linn	43868	42473	36346	31005	24744	20989	17922	15196	15141	13290	13684	11121	10996	9176
Louisa	3350	3325	3276	2697	2013	1908	1738	1382	1392	1165	1106	975	896	859
Lucas	3328	3312	3067	2596	2178	2113	1793	1672	1765	1594	1577	1583	1482	1285
Lyon	2682	2743	2499	2247	1754	1410	1314	1044	957	935	773	791	731	588
Madison	3874	3435	3147	3099	2390	2235	2221	2135	2010	1779	1712	1616	1525	1346
Mahaska	7461	7352	6763	5383	4559	4032	3721	3139	2895	2379	2414	2279	2032	1943
Marion	6854	6698	5983	5008	3933	3548	3487	2732	2681	2348	2311	2249	2122	1720
Marshall	11545	9720	8790	6981	5693	4866	4758	3766	3552	3083	3182	2940	2921	2795
Mills	44002	46448	46189	43949	39591	35569	33672	33192	29374	26455	28401	25426	23327	20104
Mitchell	3149	2767	2273	1859	1540	1344	1378	1296	1185	1145	1203	1129	1089	1056
Monona	5182	4912	4484	3651	2631	2170	2149	1753	1633	1474	1751	1518	1424	1260
Monroe	3327	3496	3062	2650	2126	2104	1729	1501	1372	1107	1238	1073	955	705
Montgomery	5295	5017	3984	2938	2407	2019	2224	1844	1719	1382	1472	1245	1225	1093
Muscatine	10031	9835	9468	7742	6116	4894	4262	3954	3751	3157	3066	3105	3074	2761
O'Brien	4265	4164	3644	3024	2282	2016	1821	1487	1592	1542	1605	1514	1451	1396
Osceola	1848	1714	1404	1117	1019	889	723	598	721	405	350	381	352	314
Page	6673	6277	5348	4505	3583	3296	3630	3069	3286	2080	2578	2734	2298	2290
Palo Alto	4199	3703	3683	2689	2311	1924	1625	1503	1491	1301	1260	1165	1209	1030
Plymouth	4854	4593	3916	3526	2755	2374	2244	1977	1585	1510	1503	1415	1479	1211
Pocahontas	3175	3099	2448	2157	1712	1303	1260	1095	1095	932	1063	957	1099	974
Polk	111741	109427	89799	80301	61803	54254	50014	40882	42286	35842	37048	33444	31127	25270
Pottawattamie	30429	28700	24435	23002	16468	14303	12897	11520	12581	10478	11689	10938	9577	8932
Poweshiek	4374	4486	3878	3071	2480	2060	1882	1639	1659	1077	1136	1103	1016	869
Ringgold	2559	2613	2125	1863	1677	1492	1467	1192	1223	1018	949	933	915	981
Sac	3967	3774	3356	2806	2259	1694	1404	1321	1406	1191	1200	1036	1008	957
Scott	53387	48419	40807	34696	28343	25319	20817	17893	17012	15084	13549	11955	11950	9989
Shelby	4016	3771	3289	2549	1877	1641	1513	1501	1665	1285	1244	1208	1199	951
Sioux	6080	6086	5038	3867	3224	2563	2698	2683	2351	2032	1898	1850	1754	1516
Story	10491	9775	9061	7459	5587	4377	4222	3674	3626	2974	2912	2886	2804	2536
Tama	6072	5638	4767	3771	3095	2935	2527	2097	2107	1917	1912	1813	1758	1516
Taylor	2574	2280	2077	1847	1464	1249	1154	1080	1233	1301	1132	929	881	873
Union	4639	4486	3916	3781	3160	2639	2645	2108	1931	1784	1936	1615	1582	1410
Van Buren	2166	1954	1781	1613	1465	1242	856	756	858	689	633	522	503	481
Wapello	13019	13182	11541	9811	8851	8091	7513	6288	6014	5440	5498	4538	4302	3825
Warren	8997	8463	8022	6901	5295	4801	4531	3937	4015	3367	3218	2832	2705	2699
Washington	5892	5689	5825	4870	3420	2638	2270	2067	2005	1716	1488	1386	1514	1318
Wayne	2827	2735	2257	1974	1859	1581	1472	1249	1421	1176	1142	1132	1059	970
Webster	17009	15927	14025	11506	9045	7734	6939	5990	5794	5001	4990	4575	4606	3865
Winnebago	4112	3627	3115	2415	1973	1657	1544	1257	1213	1037	953	880	954	924
Winneshiek	4728	3891	3538	2833	2194	2047	1577	1347	1238	1060	1076	1030	1052	881
Woodbury	38567	42571	38727	33716	26102	24268	21176	18952	16949	14261	13835	11214	11439	10932
Worth	2615	2529	2126	1571	1239	986	925	820	815	739	676	733	656	571
Wright	3949	4028	3500	2734	2229	2232	2052	1668	1657	1351	1302	1323	1381	1372
State of Iowa	928814	893934	797229	679920	551297	488797	440325	381590	369621	320097	320647	294077	278713	249321

Table 5. Average Monthly Payments (\$) Per Recipient of Title XIX Benefits in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	557	498	463	427	367	347	288	260	287	310	285	299	279	268
Adams	389	372	330	323	293	283	281	252	290	317	347	299	255	206
Allamakee	514	502	517	484	404	360	340	328	346	295	303	281	293	244
Appanoose	314	347	320	293	253	227	216	176	189	172	177	179	201	168
Audubon	686	597	583	510	431	390	344	309	318	292	307	238	228	219
Benton	388	356	399	328	323	268	230	216	199	206	225	207	201	185
Black Hawk	318	307	278	307	294	265	219	189	194	177	195	201	188	172
Boone	2052	2016	2137	2019	1888	1992	1685	1604	1511	1482	1540	1545	1266	1211
Bremer	429	436	427	358	323	284	230	227	228	225	270	268	235	203
Buchanan	494	396	407	353	353	317	285	292	295	273	290	350	268	229
Buena Vista	455	462	411	364	344	349	274	250	261	238	245	250	217	206
Butler	544	494	483	410	379	331	291	268	271	272	308	297	273	264
Calhoun	588	566	621	550	431	401	373	341	376	296	321	309	264	254
Carroll	597	564	557	500	475	386	339	311	320	299	305	309	274	279
Cass	529	518	505	417	362	300	287	287	316	258	285	274	228	240
Cedar	444	470	460	394	388	320	313	270	253	265	258	275	253	237
Cerro Gordo	443	490	455	399	339	303	260	222	234	219	228	224	201	196
Cherokee	655	571	565	625	580	519	489	466	422	362	520	556	287	332
Chickasaw	408	442	419	350	315	301	232	213	223	217	263	256	241	209
Clarke	435	399	398	326	352	294	310	255	287	263	259	250	232	189
Clay	457	435	418	410	353	330	275	240	244	227	222	200	188	192
Clayton	516	517	496	419	410	383	328	293	283	290	291	286	273	229
Clinton	413	441	464	380	304	283	248	206	196	170	190	204	195	184
Crawford	522	484	420	398	333	322	283	272	279	255	301	277	237	232
Dallas	461	451	429	373	369	346	297	250	257	232	264	259	216	202
Davis	414	431	374	348	297	262	213	209	221	177	243	245	197	191
Decatur	475	467	410	386	331	331	289	297	293	275	278	285	260	253
Delaware	448	442	426	339	302	259	213	184	192	173	187	198	187	150
Des Moines	364	376	356	329	309	294	244	202	244	197	192	212	195	187
Dickinson	472	431	438	367	358	289	272	254	259	266	197	236	197	174
Dubuque	486	432	421	385	330	297	255	236	234	224	237	248	238	218
Emmet	564	511	483	395	368	340	306	281	265	253	239	249	250	231
Fayette	390	399	385	330	296	273	248	227	239	240	250	248	229	208
Floyd	514	518	470	408	358	321	262	225	244	249	247	251	232	203
Franklin	515	555	472	409	371	388	310	277	298	283	281	290	277	253
Fremont	484	478	442	419	354	321	282	275	294	285	279	293	270	228
Greene	448	444	411	364	315	302	258	229	246	222	232	206	199	180
Grundy	408	517	481	407	411	339	294	263	278	265	267	275	269	234
Guthrie	475	464	424	393	360	314	301	312	316	322	292	316	284	262
Hamilton	487	495	411	366	305	268	227	219	251	218	217	232	204	201
Hancock	486	456	440	437	380	371	320	280	314	290	281	273	221	231
Hardin	488	498	489	433	360	355	283	260	266	261	253	249	236	209
Harrison	495	534	535	424	418	340	333	290	323	322	289	311	286	295
Henry	455	429	461	424	415	434	291	251	245	254	294	277	254	263
Howard	476	493	506	402	370	316	309	261	272	517	294	314	283	250
Humboldt	523	499	533	488	390	330	298	270	281	281	274	317	224	223
Ida	608	573	559	518	528	382	362	356	400	377	371	370	343	332
Iowa	592	566	563	492	418	405	342	317	326	302	299	327	292	278
Jackson	316	332	308	314	298	269	233	217	203	205	212	216	201	191
Jasper	537	517	486	404	354	332	287	267	272	233	241	250	218	190

Table 5. Average Monthly Payments (\$) Per Recipient of Title XIX Benefits in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	421	396	400	373	317	277	258	217	217	215	232	222	192	174
Johnson	446	448	428	390	324	300	265	247	274	207	212	218	166	208
Jones	394	399	372	287	299	249	229	202	197	191	219	203	191	189
Keokuk	445	474	434	388	305	301	254	241	248	238	267	256	244	209
Kossuth	478	449	427	412	393	360	311	285	308	271	268	278	247	238
Lee	365	380	368	324	322	294	257	244	248	225	239	247	218	200
Linn	353	324	298	343	318	281	226	202	209	198	217	206	197	174
Louisa	417	436	453	425	338	331	278	240	242	206	223	227	189	175
Lucas	381	380	368	339	309	293	236	230	246	231	240	270	244	202
Lyon	562	595	613	589	536	457	435	382	366	378	327	330	316	269
Madison	520	475	474	460	373	370	345	343	337	323	321	330	312	271
Mahaska	424	414	409	341	348	313	278	249	245	222	237	244	207	201
Marion	435	442	438	383	331	307	287	233	244	222	236	258	217	185
Marshall	426	379	368	318	288	268	246	213	215	192	213	212	194	184
Mills	2929	3053	3155	3019	2685	2385	2204	2181	1911	1811	1985	1761	1553	1383
Mitchell	617	561	529	458	396	354	367	380	362	353	353	355	325	296
Monona	532	489	485	427	380	317	289	255	263	239	290	271	254	230
Monroe	426	456	419	344	298	296	243	219	230	219	255	255	212	176
Montgomery	550	543	506	410	366	323	327	292	273	253	276	251	237	220
Muscatine	238	236	244	282	262	228	183	181	188	178	184	205	189	172
O'Brien	523	513	504	468	387	339	300	280	314	311	322	316	263	260
Osceola	631	600	544	470	456	441	354	280	369	251	237	281	236	183
Page	463	449	389	348	287	283	299	264	310	221	279	345	262	261
Palo Alto	568	516	535	419	400	341	264	254	255	252	246	226	210	178
Plymouth	524	510	480	446	369	339	326	298	268	272	274	274	255	214
Pocahontas	569	564	494	495	450	397	360	312	309	279	331	300	302	262
Polk	362	364	340	407	365	332	311	268	288	252	267	260	222	191
Pottawattamie	307	301	280	375	318	292	265	247	272	236	261	251	199	193
Poweshiek	425	456	446	400	372	310	259	240	263	201	222	234	197	181
Ringgold	546	557	479	409	385	341	325	303	304	305	307	306	282	291
Sac	539	521	504	444	406	350	299	277	302	269	299	272	251	242
Scott	295	277	249	278	262	236	210	211	215	203	200	207	198	174
Shelby	517	515	485	387	339	322	290	319	374	314	307	323	312	267
Sioux	610	603	545	456	402	363	377	393	372	367	335	331	302	271
Story	442	441	435	396	352	304	283	274	292	271	275	297	263	236
Tama	527	484	468	404	367	350	292	275	290	287	291	287	246	213
Taylor	457	415	403	358	326	299	247	239	268	299	282	277	256	241
Union	399	395	372	355	315	285	266	222	219	226	255	225	216	191
Van Buren	414	390	394	356	389	326	221	201	229	189	199	184	158	143
Wapello	345	333	317	291	280	256	227	206	215	208	230	223	199	180
Warren	492	470	482	433	375	359	321	293	300	269	269	271	237	242
Washington	549	523	556	480	387	324	290	282	288	276	268	247	244	216
Wayne	425	422	394	332	348	307	286	250	288	249	248	266	244	216
Webster	473	451	423	371	320	298	259	240	250	225	243	249	226	189
Winnebago	668	621	586	490	474	425	385	312	330	290	254	247	238	252
Winneshiek	523	448	455	404	345	339	268	239	242	232	237	232	221	187
Woodbury	514	539	513	488	428	413	345	341	318	291	288	257	229	222
Worth	607	579	508	397	385	311	259	248	275	252	249	275	232	219
Wright	431	443	427	369	326	341	290	242	265	242	231	252	222	216
State of Iowa	444	437	420	420	384	354	311	288	295	273	288	289	255	234

Table 6. Change in Total Annual Payments, Recipients, and Average Monthly Payments Per Recipient of Title XIX Benefits in Iowa Counties, 1983-1993.

County	Total Annual Payments (in \$1,000)		Number of Recipients		Average Monthly Payments Per Person	
	\$ Change	% Change	N Change	% Change	\$ Change	% Change
Adair	1874	223	160	65.0	272	95.4
Adams	955	167	190	138.7	42	12.1
Allamakee	2885	183	289	66.4	211	69.6
Appanoose	3489	171	505	52.4	137	77.4
Audubon	2133	285	147	72.4	379	123.5
Benton	3435	224	498	87.5	163	72.4
Black Hawk	31420	247	6118	112.3	123	63.1
Boone	15823	65	313	23.7	512	33.2
Bremer	3303	230	477	107.4	159	58.9
Buchanan	4152	159	390	51.9	204	70.3
Buena Vista	3443	246	410	86.0	210	85.7
Butler	4049	227	411	85.1	236	76.6
Calhoun	2935	201	244	64.6	267	83.2
Carroll	5383	277	491	92.3	292	95.7
Cass	4392	258	461	92.6	244	85.6
Cedar	2647	227	338	89.7	186	72.1
Cerro Gordo	12281	270	1504	90.3	215	94.3
Cherokee	2483	96	230	55.3	135	26.0
Chickasaw	2149	220	330	106.8	145	55.1
Clarke	2058	195	257	75.6	176	68.0
Clay	3424	219	323	55.1	235	105.9
Clayton	3304	167	286	50.4	225	77.3
Clinton	13565	343	1800	103.6	223	117.4
Crawford	5222	284	618	121.7	221	73.4
Dallas	4303	167	429	52.6	197	74.6
Davis	1557	156	173	50.7	171	70.4
Decatur	2758	187	300	67.7	197	70.9
Delaware	2723	228	197	37.0	261	139.6
Des Moines	8603	231	1203	74.4	172	89.6
Dickinson	2508	287	227	61.4	275	139.6
Dubuque	15657	194	1236	43.6	249	105.1
Emmet	3552	289	277	64.4	325	136.0
Fayette	4986	225	802	108.5	140	56.0
Floyd	5462	260	518	73.2	267	108.1
Franklin	2390	207	231	67.3	234	83.3
Fremont	2261	216	256	81.8	205	73.5
Greene	1861	207	191	59.3	216	93.1
Grundy	849	104	86	33.7	141	52.8
Guthrie	2641	180	302	72.1	183	62.7
Hamilton	3765	293	370	74.9	270	124.4
Hancock	2253	238	268	95.7	205	73.0
Hardin	4693	270	526	91.8	235	92.9
Harrison	4398	203	482	77.2	206	71.3
Henry	3444	164	420	70.5	161	54.8
Howard	1768	139	172	47.9	182	61.9
Humboldt	2743	269	289	93.2	249	90.9
Ida	1522	169	130	64.4	237	63.9
Iowa	2513	260	220	81.5	293	98.0
Jackson	4079	206	819	105.1	104	49.1
Jasper	7665	233	563	49.5	296	122.8

Table 6. Change in Total Annual Payments, Recipients, and Average Monthly Payments Per Recipient of Title XIX Benefits in Iowa Counties, 1983-1993 (continued).

County	Total Annual Payments (in \$1,000)		Number of Recipients		Average Monthly Payments Per Person	
	\$ Change	% Change	N Change	% Change	\$ Change	% Change
Jefferson	3321	226	420	79.5	189	81.5
Johnson	10290	403	1396	139.2	234	110.4
Jones	2460	175	284	53.2	175	79.9
Keokuk	2687	218	348	90.2	178	66.7
Kossuth	3533	274	440	109.7	210	78.4
Lee	8363	168	1308	75.0	126	52.7
Linn	30184	221	5101	97.1	136	62.7
Louisa	2244	203	256	62.0	194	87.0
Lucas	1751	111	180	32.8	141	58.8
Lyon	1909	247	201	102.0	235	71.9
Madison	2162	126	176	39.6	199	62.0
Mahaska	5047	209	620	73.1	187	78.9
Marion	4543	197	497	60.8	199	84.3
Marshall	8363	263	1010	81.0	213	100.0
Mills	15601	55	60	5.0	944	47.6
Mitchell	1946	162	141	49.6	264	74.8
Monona	3431	196	309	61.4	242	83.4
Monroe	2089	169	247	61.1	171	67.1
Montgomery	3823	260	357	80.2	274	99.3
Muscatine	6965	227	2121	152.5	54	29.3
O'Brien	2660	166	265	63.9	201	62.4
Osceola	1498	428	121	98.4	394	166.2
Page	4095	159	429	55.6	184	65.9
Palo Alto	2939	233	190	44.6	322	130.9
Plymouth	3351	223	315	68.9	250	91.2
Pocahontas	2112	199	198	74.2	238	71.9
Polk	74693	202	14140	122.4	95	35.6
Pottawattamie	18740	160	4531	121.5	46	17.6
Poweshiek	3238	285	430	100.7	203	91.4
Ringgold	1610	170	133	51.6	239	77.9
Sac	2767	231	278	83.0	240	80.3
Scott	39838	294	9446	167.5	95	47.5
Shelby	2772	223	309	91.4	210	68.4
Sioux	4182	220	359	76.1	275	82.1
Story	7579	260	1095	124.3	167	60.7
Tama	4160	218	413	75.4	236	81.1
Taylor	1442	127	135	40.4	175	62.1
Union	2703	140	335	52.9	144	56.5
Van Buren	1533	242	171	64.5	215	108.0
Wapello	7521	137	1150	57.7	115	50.0
Warren	5779	180	525	52.6	223	82.9
Washington	4404	296	432	93.3	281	104.9
Wayne	1685	148	172	44.9	177	71.4
Webster	12019	241	1282	74.9	230	94.7
Winnebago	3159	332	201	64.4	414	163.0
Winneshiek	3652	339	374	98.7	286	120.7
Woodbury	24732	179	2248	56.1	226	78.5
Worth	1939	287	133	58.8	358	143.8
Wright	2647	203	294	62.6	200	86.6
State of Iowa	608167	190	81363	87.6	156	54.2

Polk's average monthly number of recipients (25,688) was the highest in 1993. Five others (Black Hawk, Linn, Pottawattamie, Scott, Woodbury) had at least 5,000. Eight counties averaged fewer than 400 recipients of medical assistance, with Osceola the only one of these below 300.

The state and all 99 counties had more Title XIX recipients in 1993 than in 1983. Black Hawk, Linn, Polk, and Scott averaged at least 5,000 more persons receiving benefits in the later year. Thirteen other counties had at least 1,000 more, while 21 increased by less than 200, although only Grundy and Mills increased by fewer than 100 recipients. Recipients increased statewide by 87.6 percent between 1983 and 1993. Seventeen counties counted at least twice the number receiving Title XIX benefits in 1993 as they reported in 1983; all but Mills increased by more than 20.0 percent.

In Iowa in 1993, an average of 77.9 percent of those eligible received benefits monthly. That figure for 1983 for the state was 58.0 percent. For the counties in Iowa in 1993, the percentage of those eligible who received benefits ranged from 62.2 percent to 94.5 percent. In all but Mills, the percentage of those eligible who actually used the benefits increased between 1983 and 1993. While the number eligible for Title XIX benefits has increased, a significant factor influencing change is the higher percentages of those eligible who have become recipients in recent years.

Percentage of the Population Eligible for Title XIX Assistance

In 1993, an average of 8.0 percent of Iowa's population was eligible for the Title XIX program (Table 3). The percentages were somewhat higher in recent years than in the early 1980s. For the counties in 1993, the percentage of the population that was eligible for medical assistance ranged from less than 5 percent in 9 counties to 10 percent or more in 19 others. Residents eligible for the program accounted for less than 4 percent of the total population in Grundy, Johnson, Sioux, and Story; they exceeded 12 percent in Appanoose, Decatur, and Wapello. Fifty-six counties had percentages lower than that for the state. All counties had higher percentages of their populations eligible for the Title XIX medical assistance program in 1993 than in 1983.

Total Annual Title XIX Payments

Nearly \$929 million was paid in Title XIX medical benefits in Iowa in 1993 (Table 4, Figure 2). This was nearly \$35 million more than in 1992 and the highest amount of the period reported. The increase between the two most recent years was quite modest when compared with gains between some other years. For example, payments increased by \$96 million between 1991 and 1992. Since 1986, the annual change has been at least \$48 million each year, with the greatest increase (+\$128 million) occurring between 1989 and 1990.

Total 1993 payments were less than \$2 million in Adams, Grundy, and Osceola. In contrast, Polk's figure was more than \$111 million; payments in Black Hawk, Boone, Linn, Mills, and Scott exceeded \$40 million that year. Caution is urged in interpreting the totals for Boone and Mills; they are influenced by payments received in two state facilities.

Although total payments declined in 20 counties between 1992 and 1993, large increases took place when the 1983-1993 period is examined. Statewide, payments rose more than \$608 million between 1983 and 1993, an increase of 190 percent (Table 6). All but three counties (Boone, Cherokee, Mills) experienced percentage gains greater than 100. Dollar increases ranged from \$849,000 in Grundy to \$74.7 million in Polk.

Average Monthly Title XIX Payments Per Person

Medical benefits for the state averaged \$444 per recipient per month in 1993, \$7 higher than in 1992 (Table 5). Among the counties, the lowest per person payments were in Muscatine (\$238) and Scott (\$295), the only ones below \$300. Monthly benefits were more than double that level for eight counties (Audubon, Cherokee, Ida, Mitchell, Osceola, Sioux, Winnebago, Worth). Two others (Boone, \$2,052; Mills, \$2,929) were substantially higher than all others; again, residents of state facilities influence the results.

Monthly payments for each recipient averaged \$156 higher in 1993 than in 1983 (Table 6). All counties also paid more to each person in the later year. In percentage terms, the increases in average benefits were significant but not as dramatic as those for the total benefits. In the 10-year comparison, average benefits per recipient increased 54.2 percent in the state. This is somewhat higher than the rate of inflation (+42.3%) over those years but not nearly as high as the 190 percent increase in total payments. County gains in average benefits per person ranged from 12.1 percent (Adams) to 166 percent (Osceola). Nineteen counties increased average monthly benefits by at least 100 percent; 96 counties increased at least that much in total benefits, however.

Change in Selected Title XIX Figures

The number of Title XIX recipients increased by 88 percent between 1983 and 1993, compared with increases of 54 percent in average monthly payments per person and 190 percent in total benefits (Table 6). The changes in total benefits are due to the combination of more recipients in the program and increases in benefits for each recipient.

Changes differed across the counties, of course. For example, Adams, with one of the highest percentage increases in recipients, had the lowest percentage gain in average benefits and its percentage change in total benefits was among the lowest one-fourth of counties. Johnson and Clinton experienced relatively great percentage gains in both recipients and average monthly benefits; these were two of the three highest counties in percentage change in total payments. Palo Alto recorded a relatively large percentage increase in per person benefits coupled with a low percentage gain in recipients resulting in percentage change in total payments near the upper one-third of counties.

Note: Eligibility requirements for the medical assistance program may change in some years because of revisions in federal codes. Thus, caution is urged in examining year-to-year changes.

Figure 1. Average monthly number eligible for and recipients of Title XIX payments in Iowa, 1980-1993.

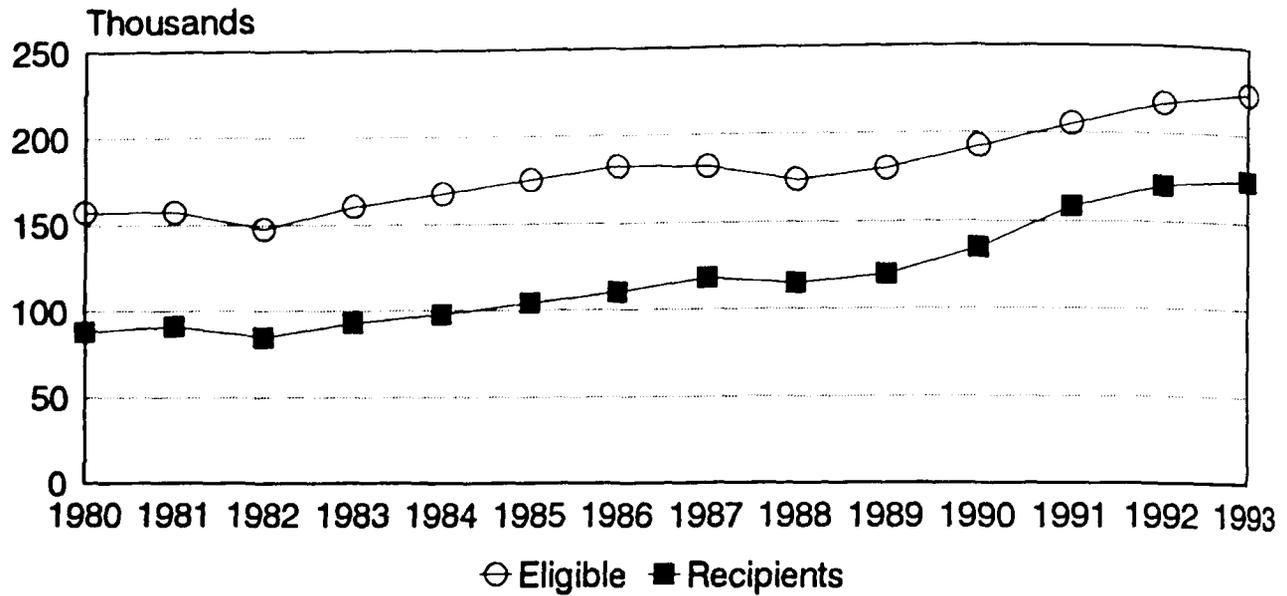
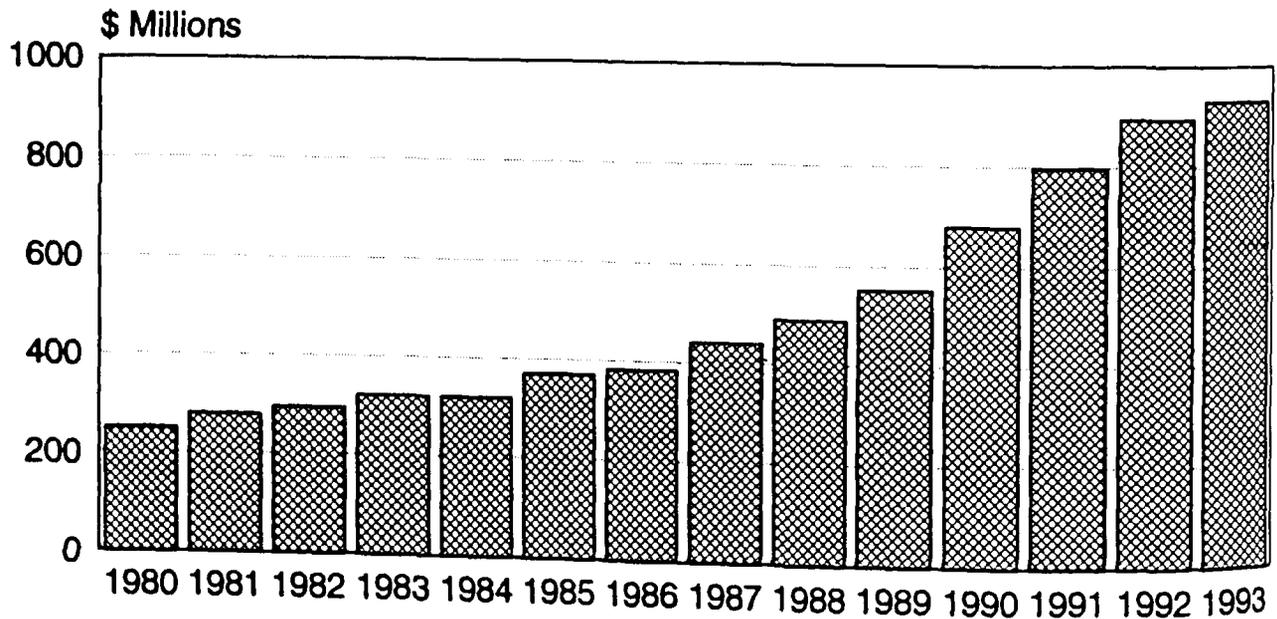


Figure 2. Total annual Title XIX payments in Iowa, 1980-1993.



Aid to Families With Dependent Children in Iowa's Counties: 1980-1993

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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 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 AFDC 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 AFDC regulations that allow aid to families in which the main worker becomes unemployed.

For this report, calendar-year monthly averages were computed for cases and recipients in both the regular and unemployed-parent program. Although the current unemployed-parent program started in mid-1982, in this report the data for that program begin with 1983, the first complete calendar year. 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. In addition, the Department of Human Services changed its method of reporting AFDC recipients in 1987. The recipient averages reported for 1986 and earlier will be somewhat inflated when compared with the averages in 1987 and later years.

Regular AFDC Cases and Recipients

Iowa averaged more than 32,000 regular AFDC cases monthly for each year from 1980 to 1993 (Table 1). The highest monthly average was 36,129 in 1981 followed by 35,518 in 1980. The 1993 average of 34,793 was 2,548 cases higher than the 1980-1993 low, which occurred in 1989. Across the 14 years, caseloads in the regular program varied relatively little.

In 1993, four counties (Adams, Audubon, Ida, Osceola) averaged fewer than 50 cases each month. Six others (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) recorded averages above 1,000, with Polk's 5,654 the highest.

An increase of 127 regular AFDC cases occurred from 1992 to 1993. Forty-eight of Iowa's 99 counties had increases between 1992 and 1993; two (Johnson, Pottawattamie) gained at least 50 cases. Forty-nine counties reported declines from 1992 to 1993, although only Woodbury (-105) dropped by more than 50 cases.

A 10-year comparison (1983-1993) reveals that Iowa had 870 more regular cases at the end of the period than at the beginning. The majority (53) of Iowa's counties, however, had fewer cases in 1993 than in 1983. Four counties (Black Hawk, Dubuque, Linn, Woodbury) reported declines of more than 100 cases. Forty-five counties averaged more regular cases monthly in 1993 than in 1983, with the largest gains in Scott (+600) and Polk (+414). Four others (Clinton, Johnson, Marshall, Story) also increased by at least 100 cases.

Most AFDC cases serve more than one individual, of course. The average number of Iowans receiving benefits in the regular AFDC program each month in 1993 was 92,685 (Table 2). This figure

Table 1. Average Monthly Number of Regular AFDC Cases in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	56	57	49	46	39	48	56	69	66	64	60	51	66	66
Adams	47	48	43	36	39	43	52	46	40	30	27	22	33	35
Allamakee	84	81	67	72	79	87	93	105	108	110	109	126	145	144
Appanoose	274	290	297	300	322	326	301	301	307	328	328	304	306	306
Audubon	37	41	42	36	33	37	43	47	47	37	37	40	55	59
Benton	216	225	216	225	199	209	231	217	207	207	197	198	206	182
Black Hawk	2539	2549	2526	2550	2703	2743	2893	2972	2888	2907	2682	2538	2752	2728
Boone	252	248	228	209	229	239	251	263	260	262	275	269	285	285
Bremer	148	126	131	122	124	140	162	180	174	181	157	151	180	168
Buchanan	235	242	248	236	245	257	289	280	282	269	256	248	273	260
Buena Vista	154	157	137	127	130	144	151	166	153	150	146	149	172	162
Butler	102	123	131	122	115	121	121	128	131	120	118	98	123	124
Calhoun	90	92	86	79	93	100	106	99	93	98	95	97	119	114
Carroll	128	122	122	114	122	117	128	116	109	110	105	110	132	131
Cass	170	148	138	137	134	129	133	142	141	140	133	138	188	173
Cedar	124	125	121	122	118	115	128	116	118	105	110	126	151	160
Cerro Gordo	561	558	539	539	534	547	567	558	527	525	540	566	656	627
Cherokee	92	91	97	86	89	92	115	116	108	105	107	104	137	138
Chickasaw	84	75	73	80	90	89	106	106	98	98	94	74	93	101
Clarke	111	105	90	97	90	100	105	105	94	97	105	103	107	97
Clay	152	162	159	154	172	184	195	201	198	194	189	179	208	189
Clayton	89	105	109	102	119	124	121	132	134	139	141	140	153	159
Clinton	925	887	866	834	823	813	831	822	808	752	728	656	680	643
Crawford	168	164	166	162	162	162	163	169	154	156	156	132	147	166
Dallas	292	298	276	275	286	283	309	323	319	335	322	267	305	290
Davis	90	87	85	100	101	99	94	88	99	98	89	83	86	84
Decatur	121	124	114	104	100	102	104	112	105	101	99	103	120	118
Delaware	120	122	119	131	146	169	178	177	167	159	155	156	181	171
Des Moines	732	705	685	674	652	652	679	698	724	699	663	645	741	657
Dickinson	76	82	91	91	107	112	113	109	114	119	126	122	140	147
Dubuque	751	761	749	769	804	865	918	963	971	1011	996	936	968	890
Emmet	101	101	106	115	117	125	146	153	142	128	127	131	147	146
Fayette	265	248	236	203	201	200	206	213	213	213	208	198	227	227
Floyd	191	190	191	200	209	196	214	214	202	208	208	207	225	210
Franklin	81	86	79	84	92	90	89	92	82	85	83	85	110	126
Fremont	108	92	87	84	95	96	97	98	95	84	78	72	96	102
Greene	92	81	83	82	83	92	92	106	93	94	94	94	117	112
Grundy	65	68	67	63	60	57	60	58	65	64	68	59	76	73
Guthrie	115	116	108	93	99	110	121	105	105	100	97	96	116	127
Hamilton	144	134	132	117	123	138	156	138	131	152	157	153	171	175
Hancock	83	84	73	80	82	82	82	78	78	81	81	83	101	101
Hardin	209	197	174	165	162	172	171	168	160	171	171	175	202	194
Harrison	165	172	156	150	156	168	170	161	176	183	179	168	205	224
Henry	203	188	169	165	165	157	144	156	170	174	174	152	172	177
Howard	60	63	50	54	67	64	71	78	78	81	73	58	69	72
Humboldt	74	69	64	65	75	94	95	91	86	72	72	77	104	102
Ida	41	45	42	29	35	42	50	49	46	33	36	36	43	46
Iowa	74	69	69	73	64	71	80	76	71	63	68	65	79	82
Jackson	205	204	222	220	215	234	249	244	241	242	242	223	212	203
Jasper	325	315	300	291	300	319	359	400	415	403	401	387	438	408

Table 1. Average Monthly Number of Regular AFDC Cases in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	172	168	175	169	166	151	166	148	149	154	171	172	185	195
Johnson	550	492	465	455	449	464	483	476	452	449	427	419	500	469
Jones	152	139	136	145	159	184	198	208	197	191	183	189	207	193
Keokuk	143	133	145	137	139	126	126	119	102	95	91	83	106	106
Kossuth	117	120	119	116	101	108	110	110	99	94	110	121	151	152
Lee	684	699	704	663	640	659	709	707	685	692	692	648	690	633
Linn	2050	2044	1996	1924	1917	2017	2208	2281	2272	2299	2232	2117	2212	2100
Louisa	170	169	151	135	132	145	157	155	150	153	148	145	167	182
Lucas	124	129	130	122	123	128	132	143	143	147	137	136	143	159
Lyon	53	45	38	42	45	52	49	48	49	50	47	46	52	49
Madison	96	95	103	95	103	103	104	105	98	99	100	88	100	105
Mahaska	264	269	278	274	277	274	296	299	279	279	272	258	308	309
Marion	271	256	237	230	228	228	252	258	262	276	272	247	288	297
Marshall	548	533	481	455	452	444	458	438	418	447	424	421	473	485
Mills	163	150	136	137	137	144	149	138	142	134	127	127	167	171
Mitchell	58	60	59	48	54	62	59	61	57	57	59	52	59	63
Monona	111	124	134	125	117	129	130	134	119	117	117	124	134	136
Monroe	112	116	123	123	130	139	131	131	123	108	108	101	108	104
Montgomery	158	153	139	124	118	118	140	151	144	137	134	129	142	147
Muscatine	620	625	623	615	618	619	669	688	666	626	600	577	614	604
O'Brien	82	80	71	65	68	83	89	85	78	75	78	69	93	95
Osceola	31	29	30	28	32	32	32	40	37	34	32	30	36	46
Page	198	202	209	208	220	222	218	223	222	212	212	186	222	222
Palo Alto	66	70	66	68	71	75	77	92	101	93	97	96	113	122
Plymouth	95	96	108	98	110	111	118	124	124	121	119	105	140	144
Pocahontas	61	73	67	60	51	55	60	61	71	69	66	65	76	73
Polk	5654	5681	5348	4919	4717	4805	4850	5013	5159	5288	5240	4955	5458	5293
Pottawattamie	1603	1549	1505	1393	1354	1398	1417	1410	1431	1488	1542	1556	1860	1885
Poweshiek	155	156	146	131	120	131	143	152	150	147	144	133	149	141
Ringgold	51	51	51	56	64	63	62	57	63	56	54	52	61	63
Sac	82	88	83	78	81	76	78	85	87	96	92	89	98	95
Scott	3475	3426	3274	3123	3071	3134	3163	3111	3008	2985	2875	2606	2700	2647
Shelby	73	69	76	75	67	80	84	80	84	83	81	79	86	82
Sioux	80	81	79	78	94	92	91	86	88	88	96	90	103	122
Story	379	377	354	335	331	338	379	361	322	296	272	241	294	303
Tama	169	193	178	170	171	188	198	185	181	178	177	179	222	227
Taylor	99	90	94	93	85	86	101	107	103	102	85	74	89	93
Union	189	188	188	191	207	205	216	225	199	202	185	175	198	199
Van Buren	76	72	70	71	72	77	82	82	81	86	83	78	90	95
Wapello	693	703	679	664	693	710	737	731	691	697	642	590	670	665
Warren	350	332	306	287	280	274	306	316	321	326	316	293	353	333
Washington	145	146	145	149	134	149	163	152	147	146	128	142	159	161
Wayne	91	92	76	81	81	77	80	86	95	99	94	92	102	103
Webster	682	684	681	650	633	648	694	685	656	672	658	644	720	728
Winnebago	70	68	67	71	58	50	58	64	67	61	72	72	94	91
Winneshiek	79	81	86	85	84	96	103	111	102	101	96	92	97	85
Woodbury	1652	1757	1726	1665	1635	1716	1770	1783	1786	1811	1775	1732	1987	2012
Worth	63	60	54	55	51	59	76	74	69	67	67	74	79	79
Wright	121	133	123	118	117	121	125	139	137	134	134	126	164	172
State of Iowa	34793	34666	33515	32259	32245	33198	34677	35119	34650	34752	33923	32363	36129	35518

Table 2. Average Monthly Number of Regular AFDC Recipients in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	151	158	146	133	103	129	158	209	201	202	174	138	174	183
Adams	128	143	122	115	118	132	156	141	126	92	81	64	91	99
Allamakee	231	223	178	204	221	241	252	299	310	302	280	323	389	405
Appanoose	710	784	814	801	847	888	832	938	929	989	948	901	881	878
Audubon	103	115	125	108	100	106	113	131	135	106	107	112	153	162
Benton	571	601	599	642	542	566	612	630	591	586	533	529	553	506
Black Hawk	6788	6799	6859	7047	7328	7425	7720	8619	8343	7947	6899	6511	6909	6971
Boone	677	655	590	536	576	609	644	708	732	728	752	732	748	749
Bremer	380	316	336	316	322	373	428	542	497	497	418	393	447	416
Buchanan	623	647	676	634	659	696	756	801	826	771	718	675	710	725
Buena Vista	400	404	352	328	325	367	374	474	444	426	403	415	464	433
Butler	272	337	377	335	322	338	339	384	378	328	304	251	303	338
Calhoun	227	240	238	232	279	279	289	294	263	265	256	258	314	305
Carroll	339	324	327	317	324	307	324	331	302	303	280	297	355	353
Cass	485	407	370	373	369	342	349	397	393	377	366	379	502	463
Cedar	308	315	320	336	315	305	338	323	333	277	301	351	397	419
Cerro Gordo	1411	1449	1418	1449	1416	1429	1461	1593	1500	1443	1416	1487	1713	1647
Cherokee	240	250	274	231	237	248	310	345	315	297	281	271	354	373
Chickasaw	208	193	194	214	234	239	286	298	280	269	248	196	233	264
Clarke	303	293	250	282	263	293	298	309	278	281	292	294	301	273
Clay	380	424	419	406	442	456	484	560	556	520	485	452	533	472
Clayton	243	286	307	304	328	347	344	395	399	407	396	387	423	450
Clinton	2367	2263	2268	2226	2191	2128	2115	2310	2266	2057	1932	1784	1775	1673
Crawford	467	456	459	441	438	435	413	456	418	408	413	361	391	447
Dallas	765	779	741	741	776	766	827	945	934	946	890	746	822	773
Davis	243	237	223	270	271	273	255	259	301	292	252	237	249	237
Decatur	322	319	295	264	257	280	277	304	294	275	276	299	358	344
Delaware	347	338	344	386	414	487	508	546	531	503	453	449	516	484
Des Moines	1970	1900	1887	1893	1799	1790	1810	2012	2092	1956	1816	1780	2013	1814
Dickinson	197	200	233	237	287	303	290	305	331	325	355	354	385	395
Dubuque	1997	2024	2020	2090	2161	2313	2432	2865	2875	2901	2777	2604	2691	2470
Emmet	272	274	300	319	329	355	401	459	426	370	362	359	400	407
Fayette	719	680	651	573	549	533	556	610	615	620	580	550	609	602
Floyd	518	504	516	531	551	512	551	618	575	577	570	570	605	552
Franklin	215	222	212	217	250	243	234	280	228	223	219	228	298	348
Fremont	297	255	235	233	253	261	264	288	280	252	231	205	265	289
Greene	248	218	215	220	217	248	246	304	265	256	251	250	313	305
Grundy	180	185	181	174	154	153	160	177	195	183	188	160	192	194
Guthrie	306	308	282	260	277	318	352	314	317	294	290	289	340	371
Hamilton	375	344	340	298	323	373	408	379	354	412	419	412	454	460
Hancock	235	235	199	201	208	212	215	233	222	222	228	223	284	287
Hardin	526	479	427	407	397	440	444	481	443	449	450	487	553	516
Harrison	452	467	445	409	428	456	461	472	518	517	509	472	533	595
Henry	530	479	444	432	445	414	359	439	484	471	463	413	448	478
Howard	154	178	143	154	180	170	193	232	230	221	201	158	188	205
Humboldt	214	198	175	170	198	243	238	245	241	199	193	207	262	259
Ida	103	119	113	75	95	117	137	141	131	97	107	98	110	121
Iowa	188	164	165	180	159	187	204	213	191	162	174	174	205	210
Jackson	534	520	576	574	563	618	653	711	705	707	671	621	576	564
Jasper	826	803	783	739	771	833	933	1132	1152	1096	1050	1041	1178	1110

Table 2. Average Monthly Number of Regular AFDC Recipients in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	457	435	466	448	418	378	429	437	433	433	448	455	463	499
Johnson	1432	1267	1108	1187	1138	1186	1192	1359	1246	1187	1070	1028	1209	1142
Jones	412	376	367	390	434	502	533	585	541	522	457	486	529	503
Keokuk	385	346	390	380	405	369	352	360	316	298	258	220	284	273
Kossuth	316	316	303	298	257	277	282	320	296	275	309	340	423	423
Lee	1857	1888	1932	1830	1746	1806	1895	2028	1944	1950	1931	1808	1838	1729
Linn	5288	5265	5248	5128	5067	5308	5716	6610	6538	6308	5811	5643	5804	5553
Louisa	462	464	424	385	364	398	421	472	449	456	428	412	469	512
Lucas	327	339	344	320	317	341	368	427	421	438	397	389	413	465
Lyon	143	129	112	131	126	143	134	145	142	147	131	124	140	133
Madison	244	238	268	262	287	279	265	299	262	257	263	241	267	273
Mahaska	682	694	732	718	716	714	759	858	801	776	730	696	812	819
Marion	724	690	630	620	621	613	667	753	766	772	775	691	787	810
Marshall	1485	1440	1311	1238	1222	1199	1201	1351	1272	1249	1099	1127	1265	1324
Mills	433	391	360	370	371	398	419	419	441	395	362	378	497	478
Mitchell	144	153	152	118	133	159	146	154	143	140	152	146	156	160
Monona	293	333	358	332	319	351	358	397	348	323	321	345	362	367
Monroe	305	312	345	347	355	373	347	362	342	308	303	286	297	286
Montgomery	392	396	371	337	308	302	358	406	387	362	354	350	370	396
Muscatine	1715	1756	1753	1734	1721	1697	1797	1946	1896	1710	1623	1571	1634	1611
O'Brien	212	211	186	175	184	229	237	255	224	202	200	184	248	249
Osceola	95	87	92	87	94	90	88	120	113	89	92	82	98	122
Page	517	543	568	573	592	582	581	627	602	573	560	500	580	582
Palo Alto	192	211	194	200	200	215	206	273	294	254	259	275	311	338
Plymouth	237	237	271	257	293	304	305	359	330	321	319	287	382	379
Pocahontas	167	193	190	148	132	150	158	165	192	203	191	188	219	207
Polk	15220	15308	14605	13706	12858	12992	12814	14463	14672	14794	14345	13703	15084	14704
Pottawattamie	4385	4229	4123	3860	3695	3788	3759	4015	4099	4152	4260	4320	5130	5213
Poweshiek	401	398	394	366	326	360	378	419	425	398	386	357	392	377
Ringgold	126	126	138	145	170	175	171	158	188	167	151	143	170	169
Sac	214	230	219	217	215	193	192	235	244	254	236	232	262	248
Scott	9445	9440	9173	8899	8640	8759	8647	9447	8962	8569	7946	7240	7425	7330
Shelby	189	185	201	200	179	218	220	219	241	232	222	222	238	211
Sioux	205	220	221	223	264	267	264	262	273	253	280	277	282	335
Story	956	964	915	882	861	877	943	976	883	779	707	650	791	812
Tama	441	514	487	461	448	484	519	507	499	501	475	489	598	600
Taylor	251	240	268	265	239	242	276	332	306	294	236	206	252	251
Union	499	501	509	529	578	559	597	658	585	565	501	480	532	522
Van Buren	220	199	203	213	196	213	220	243	234	247	235	225	257	279
Wapello	1792	1830	1778	1772	1847	1897	1941	2091	1987	2003	1773	1593	1754	1713
Warren	869	830	784	734	723	718	801	894	919	872	819	788	918	852
Washington	379	394	386	410	380	427	445	454	428	437	354	371	402	402
Wayne	259	261	216	239	232	226	219	251	275	273	262	257	274	280
Webster	1814	1825	1830	1752	1676	1727	1824	1973	1857	1867	1777	1775	1951	2019
Winnebago	191	180	183	195	160	135	148	203	206	169	182	185	250	232
Winneshiek	198	212	235	230	229	261	276	346	323	305	258	244	269	223
Woodbury	4498	4828	4859	4739	4564	4772	4789	5315	5353	5184	4922	4753	5424	5536
Worth	168	153	146	148	140	157	197	227	202	197	191	208	217	211
Wright	315	357	337	322	316	318	339	403	389	381	365	348	443	472
State of Iowa	92685	92638	90931	88573	87362	89702	91994	102025	100033	97240	91979	88259	97126	96020

Table 3. Average Monthly Number of Unemployed-Parent AFDC Cases in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	6	4	2	1	1	5	7	10	8	6	6
Adams	12	10	8	5	5	6	8	9	8	7	6
Allamakee	4	2	6	3	5	6	9	17	18	14	10
Appanoose	46	46	39	33	31	51	67	83	92	87	65
Audubon	3	4	6	3	3	5	6	7	7	3	2
Benton	24	17	18	10	13	20	25	27	38	42	37
Black Hawk	135	124	135	140	179	275	432	511	464	426	203
Boone	33	23	16	13	24	31	37	45	43	43	29
Bremer	12	14	18	16	12	23	39	44	44	40	30
Buchanan	22	19	24	25	33	57	89	111	103	83	65
Buena Vista	10	8	8	9	10	13	24	31	20	13	14
Butler	13	16	14	19	21	28	39	44	43	38	24
Calhoun	6	9	7	7	4	11	19	24	20	15	10
Carroll	5	5	6	6	6	5	9	12	13	17	15
Cass	11	12	11	9	5	8	20	27	29	17	11
Cedar	20	20	19	18	20	28	33	38	29	25	28
Cerro Gordo	40	37	36	28	23	35	48	74	59	49	60
Cherokee	4	3	2	2	1	4	7	8	8	10	6
Chickasaw	7	7	7	7	6	13	26	30	30	26	15
Clarke	10	15	15	10	7	11	21	25	25	14	19
Clay	7	6	7	8	5	12	23	32	32	20	20
Clayton	5	7	7	6	9	15	20	27	24	18	22
Clinton	70	67	76	67	71	95	157	216	229	191	142
Crawford	8	9	11	11	11	8	12	11	12	7	10
Dallas	19	19	15	14	14	16	37	47	44	35	24
Davis	6	6	9	9	13	19	33	34	36	35	30
Decatur	10	13	11	7	8	9	13	20	16	15	15
Delaware	12	13	11	15	24	34	49	62	59	49	45
Des Moines	54	42	43	45	40	33	56	83	83	76	76
Dickinson	7	5	6	5	9	8	12	11	11	9	10
Dubuque	64	62	74	75	89	125	196	236	249	246	205
Emmet	14	13	12	10	11	13	22	28	22	18	15
Fayette	31	28	25	25	30	43	63	72	58	50	39
Floyd	26	24	21	20	18	30	46	61	49	40	33
Franklin	5	10	11	10	12	7	8	9	13	14	14
Fremont	7	7	7	3	5	5	9	17	17	12	8
Greene	14	11	11	7	5	9	13	20	22	21	13
Grundy	6	7	8	7	9	12	16	19	11	14	8
Guthrie	10	7	5	6	8	12	18	23	19	26	20
Hamilton	15	16	18	12	8	10	21	29	22	19	17
Hancock	3	5	8	5	2	6	14	17	15	7	11
Hardin	11	11	12	8	10	15	17	19	23	17	15
Harrison	17	13	16	14	8	14	17	19	17	25	23
Henry	20	18	19	18	13	15	23	26	38	32	28
Howard	6	6	8	7	4	4	8	11	17	17	17
Humboldt	6	7	7	11	6	6	12	18	17	10	13
Ida	0	0	1	0	0	1	2	4	1	2	2
Iowa	6	5	5	4	2	3	9	15	14	10	13
Jackson	32	27	32	28	39	61	83	112	100	89	68
Jasper	23	17	15	22	19	26	41	51	49	59	67

Table 3. Average Monthly Number of Unemployed-Parent AFDC Cases in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	33	28	23	22	19	22	26	36	35	35	27
Johnson	25	19	17	17	13	17	27	30	24	18	20
Jones	16	16	14	12	12	16	20	33	33	32	33
Keokuk	15	17	19	19	17	21	31	36	32	24	19
Kossuth	13	12	10	12	10	10	14	16	16	14	12
Lee	61	51	53	45	46	62	82	99	116	117	87
Linn	126	130	140	114	109	183	282	336	326	303	264
Louisa	16	17	20	17	18	15	24	34	41	44	27
Lucas	12	12	12	13	14	17	20	28	30	31	28
Lyon	1	1	0	0	2	4	8	8	10	8	10
Madison	6	9	5	4	7	5	14	18	20	20	19
Mahaska	26	36	33	31	20	24	37	48	45	42	46
Marion	30	25	26	22	22	36	51	66	48	49	48
Marshall	45	42	35	32	25	38	64	74	67	66	44
Mills	10	13	10	12	8	13	22	20	24	10	14
Mitchell	4	2	3	2	2	6	7	7	8	9	7
Monona	9	12	16	11	11	16	26	30	28	27	21
Monroe	15	12	11	10	15	26	32	41	33	25	23
Montgomery	15	11	8	7	6	10	13	20	24	10	9
Muscatine	75	66	73	79	77	96	121	132	112	94	62
O'Brien	7	10	3	1	1	3	11	14	11	12	9
Osceola	2	1	2	2	2	3	4	8	9	7	4
Page	31	26	24	16	21	26	35	46	38	30	29
Palo Alto	7	4	4	5	4	7	16	24	24	18	17
Plymouth	4	4	3	3	6	13	14	19	16	11	10
Pocahontas	8	5	4	8	5	3	8	14	12	11	6
Polk	150	162	158	137	135	148	225	283	287	285	298
Pottawattamie	84	81	68	45	35	35	49	68	69	68	75
Poweshiek	10	16	12	8	8	13	26	39	34	28	27
Ringgold	8	7	6	4	7	13	18	18	18	14	14
Sac	8	7	5	4	5	6	7	11	12	10	10
Scott	187	156	165	181	196	249	356	395	410	364	206
Shelby	7	8	6	8	4	6	9	15	12	9	7
Sioux	2	5	4	4	3	4	8	15	10	5	4
Story	31	28	29	15	11	15	31	32	35	25	23
Tama	12	12	15	9	6	8	19	28	29	26	20
Taylor	5	4	7	9	10	11	11	15	20	15	17
Union	15	16	17	11	13	17	25	32	38	29	24
Van Buren	8	6	7	8	9	12	17	20	28	23	20
Wapello	82	88	94	78	83	126	185	179	133	117	107
Warren	12	17	17	19	18	24	34	43	52	58	49
Washington	11	6	10	10	10	20	22	27	26	16	11
Wayne	9	8	6	8	10	14	19	22	22	23	18
Webster	63	52	52	47	46	45	93	115	99	94	66
Winnebago	5	5	4	5	5	7	10	15	11	6	11
Winneshiek	14	13	7	10	11	20	28	27	28	25	22
Woodbury	50	55	60	47	37	50	95	122	106	102	99
Worth	8	5	6	7	6	6	10	12	14	13	12
Wright	9	10	13	7	3	5	14	19	17	14	12
State of Iowa	2334	2222	2244	2033	2072	2837	4331	5308	5108	4587	3724

Table 4. Average Monthly Number of Unemployed-Parent AFDC Recipients in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	28	18	8	5	8	25	26	50	36	25	21
Adams	50	44	39	25	21	27	32	40	33	28	22
Allamakee	14	12	30	12	21	22	38	82	82	61	37
Appanoose	196	190	159	137	128	199	255	377	396	366	244
Audubon	13	18	23	12	11	23	31	40	34	12	6
Benton	97	75	77	44	56	86	99	127	200	185	130
Black Hawk	563	516	553	601	746	1126	1707	2308	2127	1768	621
Boone	141	105	70	54	109	146	166	207	192	184	103
Bremer	46	51	74	70	51	94	156	213	218	183	104
Buchanan	88	81	99	111	143	253	382	515	472	353	245
Buena Vista	39	29	33	33	39	52	95	163	101	52	45
Butler	46	61	56	70	80	110	154	194	177	159	89
Calhoun	28	36	29	32	17	46	81	117	90	66	41
Carroll	25	19	23	24	25	16	31	52	54	64	50
Cass	45	56	46	37	18	37	83	117	119	63	35
Cedar	76	80	82	80	85	112	126	157	119	105	108
Cerro Gordo	172	162	150	117	95	140	180	315	259	191	214
Cherokee	14	11	8	9	6	17	28	40	37	45	19
Chickasaw	29	27	26	27	21	56	102	133	141	119	53
Clarke	43	61	60	45	30	45	84	105	109	58	63
Clay	34	24	24	30	19	45	93	149	134	78	74
Clayton	22	29	28	23	39	59	77	122	114	71	76
Clinton	269	273	306	277	286	385	624	940	997	790	524
Crawford	29	37	48	45	41	33	41	50	53	29	36
Dallas	71	72	63	57	57	62	145	202	178	135	81
Davis	17	20	36	38	50	77	130	156	156	149	114
Decatur	36	51	43	27	29	38	55	90	66	63	54
Delaware	49	60	51	69	109	146	205	285	264	228	171
Des Moines	213	157	185	191	170	138	218	387	393	333	300
Dickinson	27	19	25	22	38	37	52	54	50	38	35
Dubuque	255	252	314	331	390	570	838	1072	1139	1099	780
Emmet	55	51	52	48	48	60	91	156	126	88	66
Fayette	131	117	103	104	125	181	261	347	292	227	141
Floyd	104	99	85	79	76	127	191	276	243	183	128
Franklin	24	40	42	41	46	27	31	40	56	53	48
Fremont	30	29	28	12	20	21	33	65	70	51	33
Greene	53	44	41	28	23	37	55	90	98	87	54
Grundy	24	26	39	28	38	46	64	80	43	52	25
Guthrie	45	27	19	25	31	46	73	109	93	119	83
Hamilton	67	78	79	51	35	46	79	127	93	77	65
Hancock	12	20	32	22	11	23	57	72	66	26	37
Hardin	48	46	51	35	43	65	69	80	97	77	56
Harrison	73	54	69	60	30	50	65	88	81	113	89
Henry	80	72	79	71	58	63	90	110	176	133	96
Howard	26	25	33	27	14	15	31	61	84	70	68
Humboldt	22	29	30	50	24	25	49	75	71	39	48
Ida	2	0	2	1	0	4	9	18	4	7	6
Iowa	19	21	22	17	10	13	40	88	65	41	44
Jackson	135	113	136	122	170	269	347	498	451	379	240
Jasper	91	66	57	92	76	105	156	212	205	228	233

Table 4. Average Monthly Number of Unemployed-Parent AFDC Recipients in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	136	112	92	91	79	93	100	155	156	148	99
Johnson	96	73	73	72	49	68	96	164	139	73	73
Jones	60	62	57	52	48	64	79	154	164	135	107
Keokuk	65	77	83	81	71	85	128	174	143	104	69
Kossuth	53	50	49	54	46	37	58	79	70	56	41
Lee	249	212	209	180	186	256	327	446	517	481	321
Linn	523	550	586	497	455	782	1099	1540	1507	1254	882
Louisa	68	67	81	69	76	64	97	162	178	185	99
Lucas	51	51	51	50	53	66	82	130	135	136	94
Lyon	4	2	0	0	7	18	34	35	46	37	43
Madison	25	35	23	17	30	24	56	77	84	81	71
Mahaska	101	142	133	128	81	91	130	219	203	160	159
Marion	120	95	98	80	87	149	205	293	211	197	178
Marshall	175	162	141	135	105	158	258	382	362	272	156
Mills	41	56	42	47	32	59	89	93	106	48	53
Mitchell	15	8	10	9	11	27	27	32	36	39	26
Monona	40	49	64	46	47	67	105	129	115	122	83
Monroe	60	49	43	38	58	100	120	169	146	103	85
Montgomery	62	39	28	28	23	41	54	83	103	42	29
Muscatine	320	280	318	344	323	402	517	595	513	406	235
O'Brien	29	40	13	5	7	17	48	68	52	47	31
Osceola	10	6	8	9	6	13	20	42	41	31	16
Page	120	100	89	64	86	99	135	196	163	132	113
Palo Alto	25	17	20	24	18	28	66	125	123	77	60
Plymouth	15	16	13	14	26	53	58	85	72	46	33
Pocahontas	31	18	17	34	25	13	35	63	51	46	24
Polk	657	696	678	619	598	629	892	1246	1271	1225	1122
Pottawattamie	341	330	285	206	150	154	193	291	297	276	269
Poweshiek	44	69	51	34	35	59	110	207	172	121	98
Ringgold	35	29	27	19	30	51	69	90	89	52	51
Sac	35	31	23	15	21	25	26	53	53	45	39
Scott	795	666	717	813	845	1052	1458	1785	1841	1569	792
Shelby	23	32	27	34	13	24	35	61	51	38	24
Sioux	8	22	15	17	20	28	49	77	50	19	13
Story	124	107	113	60	45	56	109	125	142	96	76
Tama	45	49	62	38	27	31	70	127	131	109	79
Taylor	21	18	29	40	36	45	48	81	98	56	55
Union	62	63	68	45	56	69	101	167	178	126	85
Van Buren	32	24	29	38	40	57	71	97	133	104	74
Wapello	326	358	377	315	334	514	708	787	589	486	384
Warren	51	74	74	82	75	95	134	195	230	228	168
Washington	44	27	49	39	40	87	82	126	110	61	46
Wayne	35	33	26	32	41	54	72	101	97	93	64
Webster	267	219	226	216	190	180	367	487	426	377	223
Winnebago	18	17	16	18	18	28	36	65	51	22	43
Winneshiek	55	51	27	42	47	88	114	127	117	94	78
Woodbury	211	238	266	213	155	220	389	636	531	439	380
Worth	29	19	23	30	27	25	37	55	58	51	39
Wright	38	40	58	30	13	20	58	79	70	57	42
State of Iowa	9595	9181	9371	8724	8705	11906	17374	24204	23172	19350	13473

Table 5. Total Annual Regular-Program AFDC Payments (in \$1,000) in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	242	249	230	206	164	188	231	280	251	259	247	191	239	244
Adams	201	215	193	169	183	197	222	191	165	125	112	87	125	130
Allamakee	367	357	268	313	338	360	370	426	430	417	394	452	517	506
Appanoose	1191	1289	1352	1333	1379	1370	1255	1262	1235	1325	1326	1240	1186	1120
Audubon	155	171	188	158	148	156	178	189	179	144	148	150	198	218
Benton	935	983	974	1016	856	879	937	884	817	835	797	777	775	683
Black Hawk	11040	11091	11232	11210	11503	11436	11845	12292	11363	11447	10437	9751	10129	9980
Boone	1137	1106	1011	900	971	991	1021	1056	1016	1036	1088	1059	1049	998
Bremer	615	521	555	523	514	559	641	740	674	699	612	581	663	577
Buchanan	991	1048	1097	1035	1052	1058	1168	1153	1110	1055	986	950	1009	959
Buena Vista	652	664	575	540	523	583	602	676	606	595	566	566	626	570
Butler	439	532	600	540	500	511	507	520	495	458	434	359	455	449
Calhoun	372	391	389	358	416	415	444	420	358	367	358	360	426	411
Carroll	541	516	522	505	511	465	502	460	413	415	397	408	452	439
Cass	747	646	619	600	569	520	527	579	553	541	513	512	672	625
Cedar	508	524	525	528	501	476	530	469	466	430	443	499	550	572
Cerro Gordo	2376	2415	2371	2361	2250	2227	2315	2306	2089	2055	2109	2190	2421	2276
Cherokee	385	382	420	360	364	374	461	465	398	395	403	380	466	483
Chickasaw	341	313	317	336	372	367	433	427	387	385	367	283	333	359
Clarke	483	459	410	446	399	429	442	452	375	394	416	402	405	368
Clay	640	684	704	653	711	720	789	812	762	738	717	650	749	654
Clayton	402	471	493	463	508	517	514	556	537	555	558	542	564	571
Clinton	4001	3858	3820	3704	3521	3317	3310	3361	3183	2966	2795	2545	2477	2273
Crawford	754	723	741	702	692	671	640	663	586	579	589	494	527	591
Dallas	1319	1331	1232	1212	1245	1175	1270	1334	1259	1314	1260	1047	1092	1045
Davis	404	385	375	429	435	416	379	358	393	390	354	319	333	306
Decatur	525	536	499	438	411	416	425	439	405	390	382	406	479	464
Delaware	524	529	533	586	620	704	750	767	705	665	629	638	683	627
Des Moines	3244	3155	3091	3017	2806	2726	2749	2806	2795	2743	2571	2484	2711	2416
Dickinson	314	339	390	397	452	450	458	441	429	449	496	477	517	528
Dubuque	3270	3304	3286	3403	3537	3746	3916	4065	3930	4067	3970	3648	3667	3343
Emmet	441	440	461	499	499	521	617	644	562	497	505	503	542	534
Fayette	1154	1092	1051	897	852	818	835	867	831	839	800	752	826	803
Floyd	842	820	848	861	862	790	847	869	784	796	805	799	823	739
Franklin	344	370	353	347	396	388	378	400	325	320	318	313	390	447
Fremont	470	399	373	359	389	390	395	398	376	341	307	276	343	382
Greene	391	351	350	352	341	366	367	415	347	356	357	351	422	404
Grundy	292	309	306	289	245	233	247	238	254	255	260	235	279	259
Guthrie	490	495	452	403	426	454	512	422	417	394	381	369	427	459
Hamilton	622	577	572	484	492	559	633	540	484	557	585	561	615	603
Hancock	377	377	323	334	339	330	333	328	297	308	310	311	352	356
Hardin	864	799	717	691	656	676	684	684	631	671	660	684	743	678
Harrison	700	734	684	649	636	681	681	656	680	703	689	644	716	767
Henry	852	781	714	684	678	640	578	618	647	670	674	577	619	638
Howard	244	279	230	241	283	264	296	324	301	307	275	208	239	258
Humboldt	325	310	286	281	306	370	373	354	328	279	272	285	355	352
Ida	167	186	171	115	141	173	198	195	177	136	147	129	143	149
Iowa	298	279	280	298	257	293	315	305	267	232	252	234	279	286
Jackson	885	871	958	953	904	973	1024	999	967	994	969	871	787	764
Jasper	1396	1328	1297	1211	1211	1278	1447	1605	1569	1520	1516	1462	1632	1544

Table 5. Total Annual Regular-Program AFDC Payments (in \$1,000) in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	754	748	789	733	683	583	660	590	570	606	658	654	653	698
Johnson	2353	2126	1996	1956	1899	1943	2027	1977	1778	1778	1678	1640	1892	1696
Jones	658	616	604	617	679	761	825	858	768	756	707	713	752	691
Keokuk	623	589	654	600	612	531	504	491	419	388	363	312	384	375
Kossuth	503	497	499	481	406	422	432	436	374	348	413	448	563	559
Lee	2984	3066	3137	2943	2728	2759	2899	2897	2664	2700	2697	2493	2508	2322
Linn	8724	8803	8763	8391	8190	8483	9129	9494	9033	9156	8745	8205	8368	7749
Louisa	744	750	684	621	568	605	651	657	602	619	588	561	624	675
Lucas	538	568	571	538	501	506	532	583	554	573	541	521	521	590
Lyon	218	184	162	181	186	218	200	193	185	192	178	160	190	172
Madison	404	403	451	428	452	423	407	413	359	351	359	319	364	375
Mahaska	1154	1199	1209	1176	1159	1097	1193	1218	1088	1100	1076	1011	1139	1109
Marion	1184	1128	1040	1016	992	987	1050	1097	1051	1099	1101	974	1007	1095
Marshall	2421	2400	2159	2034	1967	1895	1917	1848	1681	1806	1693	1638	1777	1840
Mills	689	628	576	580	566	589	611	580	572	530	501	519	618	630
Mitchell	241	259	247	196	222	256	233	240	206	210	212	192	210	217
Monona	467	537	582	537	474	517	540	571	462	441	444	477	487	493
Monroe	491	502	559	542	542	563	518	530	470	422	416	391	396	378
Montgomery	661	665	628	552	482	471	565	605	541	511	502	479	504	510
Muscatine	2795	2841	2840	2791	2678	2591	2773	2852	2640	2471	2361	2241	2257	2234
O'Brien	335	334	301	276	287	333	353	338	297	279	287	257	321	326
Osceola	146	140	141	125	134	124	120	160	144	129	125	107	131	159
Page	825	868	913	890	915	887	874	881	823	798	794	692	768	770
Palo Alto	297	317	299	314	300	301	309	361	387	341	348	359	416	437
Plymouth	401	395	451	408	462	448	468	490	463	462	447	398	505	489
Pocahontas	267	317	303	241	200	219	236	240	264	266	254	237	265	254
Polk	25424	25712	24517	22482	20561	20187	19997	20629	20222	20915	20608	19564	20815	19808
Pottawattamie	7026	6840	6686	6181	5776	5735	5706	5739	5532	5798	6033	6038	7000	7064
Poweshiek	670	661	642	586	498	531	574	608	578	576	559	512	548	496
Ringgold	209	220	232	240	273	274	270	236	259	229	208	194	207	216
Sac	349	371	354	339	330	303	306	339	334	361	351	331	352	337
Scott	15634	15564	15068	14370	13684	13571	13378	13198	12154	12039	11541	10350	10281	9977
Shelby	300	299	324	310	273	301	321	297	306	309	301	307	312	282
Sioux	342	355	350	333	399	377	375	348	348	340	378	363	372	434
Story	1639	1652	1575	1496	1464	1451	1543	1483	1284	1181	1030	934	1123	1123
Tama	716	838	783	740	701	752	803	743	700	682	666	673	825	825
Taylor	417	385	425	411	365	357	414	463	413	417	318	265	312	322
Union	831	831	833	824	921	870	892	933	797	821	735	691	736	711
Van Buren	354	326	327	334	311	326	344	347	323	350	343	320	344	370
Wapello	3001	3082	3005	2880	2947	2944	2981	2947	2679	2739	2527	2295	2460	2363
Warren	1499	1425	1320	1229	1198	1163	1250	1280	1240	1234	1217	1133	1325	1175
Washington	610	639	622	627	569	615	673	636	575	584	496	539	590	559
Wayne	402	400	337	377	345	322	323	349	365	379	364	346	374	378
Webster	2967	2992	2989	2823	2608	2609	2777	2732	2484	2545	2470	2421	2626	2620
Winnebago	307	295	288	309	242	201	229	263	255	230	260	262	338	315
Winneshiek	313	333	370	371	355	406	426	448	398	384	349	339	353	310
Woodbury	7243	7785	7796	7452	7089	7289	7408	7419	7153	7188	7020	6782	7547	7624
Worth	282	264	231	239	207	236	314	319	270	268	264	294	282	276
Wright	469	562	551	519	495	492	500	570	537	522	512	470	590	628
State of Iowa	152185	152698	149622	143031	138255	138441	142426	144631	136206	136831	132597	125447	124474	130266

Table 6. Total Annual Unemployed-Parent AFDC Payments (in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	33	20	9	6	6	24	32	51	38	27	30
Adams	59	53	45	33	28	30	36	42	34	32	27
Allamakee	16	13	37	16	28	29	51	90	89	65	44
Appanoose	239	241	206	169	153	233	319	403	414	415	302
Audubon	16	20	24	15	15	25	34	38	36	12	7
Benton	117	85	90	53	60	99	124	132	184	209	169
Black Hawk	692	627	702	732	913	1351	2073	2492	2153	1992	898
Boone	178	136	86	67	136	172	198	225	201	217	130
Bremer	54	68	90	89	62	116	187	231	209	189	123
Buchanan	107	101	120	140	167	294	447	567	479	397	274
Buena Vista	50	37	44	42	46	57	113	160	100	60	63
Butler	61	81	69	95	102	129	184	208	191	178	101
Calhoun	32	47	37	39	19	53	92	118	93	71	45
Carroll	27	23	31	26	27	22	42	53	55	73	62
Cass	44	64	57	45	19	40	95	136	132	76	46
Cedar	93	104	107	100	106	125	161	184	127	123	121
Cerro Gordo	209	196	191	142	117	164	219	343	272	232	253
Cherokee	19	15	11	11	7	23	35	39	35	41	25
Chickasaw	34	32	31	33	22	63	124	140	144	127	67
Clarke	54	74	74	49	38	53	100	121	119	69	83
Clay	40	31	32	41	28	52	113	161	144	91	92
Clayton	26	39	39	30	49	74	97	128	123	80	98
Clinton	339	350	396	333	349	443	734	1028	1045	898	610
Crawford	42	51	66	54	53	42	55	55	59	35	44
Dallas	98	98	86	77	72	74	171	227	191	163	103
Davis	23	28	48	49	64	92	162	170	175	169	136
Decatur	44	66	57	36	39	50	68	109	74	70	64
Delaware	58	71	56	80	115	169	244	316	277	242	197
Des Moines	262	195	222	233	201	158	266	409	384	379	357
Dickinson	35	25	31	24	40	40	55	53	42	37	41
Dubuque	296	296	376	396	463	641	978	1146	1162	1169	886
Emmet	65	62	60	55	59	68	112	142	109	96	68
Fayette	163	150	136	123	157	225	328	369	290	244	174
Floyd	127	125	106	105	88	140	215	283	231	184	140
Franklin	25	47	53	48	56	35	38	46	57	59	60
Fremont	35	34	34	14	24	25	40	79	78	56	39
Greene	68	51	54	32	29	44	65	95	103	98	56
Grundy	29	29	44	38	49	55	76	86	50	58	32
Guthrie	52	34	25	31	40	56	87	113	91	126	88
Hamilton	80	90	94	61	40	54	98	138	96	83	73
Hancock	14	23	38	29	11	25	62	80	65	28	46
Hardin	63	58	60	40	50	72	83	84	107	84	65
Harrison	79	66	77	75	38	63	77	92	75	120	102
Henry	94	82	91	89	64	76	108	118	172	156	120
Howard	30	29	39	38	18	17	38	56	76	72	74
Humboldt	28	39	40	60	26	32	57	82	77	44	53
Ida	1	0	3	1	0	4	10	17	4	7	6
Iowa	25	26	26	21	12	15	48	81	68	49	60
Jackson	167	132	168	155	202	312	414	561	469	419	286
Jasper	112	85	77	109	96	122	184	227	214	268	282

Table 6. Total Annual Unemployed-Parent AFDC Payments (in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	169	141	119	113	99	110	125	164	157	161	113
Johnson	118	94	90	85	58	79	124	141	116	84	86
Jones	74	76	68	66	58	77	99	172	162	160	155
Keokuk	73	86	95	104	89	100	150	184	151	120	89
Kossuth	52	60	52	58	52	43	67	72	63	57	44
Lee	314	267	271	227	227	307	399	473	532	544	381
Linn	622	649	712	597	552	933	1364	1633	1585	1494	1209
Louisa	86	82	107	91	91	79	120	171	186	212	125
Lucas	59	63	57	60	62	77	95	141	137	154	120
Lyon	5	3	0	0	8	19	42	37	41	37	47
Madison	32	46	26	19	37	23	61	79	91	94	78
Mahaska	130	191	178	163	107	115	180	234	204	193	209
Marion	156	125	130	106	113	180	251	324	219	234	211
Marshall	221	211	173	174	133	191	311	381	350	323	208
Mills	45	69	49	61	37	66	106	102	109	50	61
Mitchell	20	10	15	10	15	31	38	35	41	43	30
Monona	53	60	79	58	57	75	127	152	133	128	94
Monroe	76	62	53	47	72	124	151	196	158	119	104
Montgomery	70	55	40	35	31	46	58	91	104	48	40
Muscatine	379	349	393	432	395	493	607	674	544	468	292
O'Brien	30	44	16	7	7	18	58	77	55	55	38
Osceola	12	8	11	12	6	12	20	43	43	31	19
Page	147	116	118	73	105	123	161	211	162	129	126
Palo Alto	34	22	24	26	22	35	81	122	118	87	71
Plymouth	17	21	18	14	33	61	66	88	66	50	38
Pocahontas	38	22	22	39	29	13	43	68	50	53	27
Polk	818	877	883	778	730	749	1101	1369	1310	1362	1300
Pottawattamie	413	412	359	249	178	175	229	321	297	294	318
Poweshiek	56	87	63	39	34	64	128	202	169	139	121
Ringgold	48	40	37	25	35	66	95	100	94	64	64
Sac	41	37	28	20	26	30	33	55	54	45	46
Scott	982	823	915	1009	1037	1257	1780	1969	1915	1760	969
Shelby	28	39	34	43	16	25	39	64	50	43	30
Sioux	10	27	22	21	16	19	40	77	46	20	17
Story	150	140	144	74	63	90	155	157	160	119	97
Tama	54	61	75	49	34	42	91	141	134	122	91
Taylor	22	23	37	43	44	56	58	86	101	73	71
Union	71	81	91	57	65	92	124	174	184	154	114
Van Buren	41	33	38	48	47	67	79	103	134	117	94
Wapello	405	437	475	402	416	617	877	843	612	557	479
Warren	60	95	89	100	94	110	161	216	231	269	214
Washington	52	34	58	52	50	108	106	132	127	73	51
Wayne	40	40	30	37	54	71	92	113	103	106	76
Webster	318	266	262	259	224	206	434	527	425	415	273
Winnebago	27	25	18	21	21	34	49	66	44	24	48
Winneshiek	63	62	35	50	57	106	138	134	114	99	91
Woodbury	259	293	324	253	183	258	474	601	522	505	462
Worth	39	26	25	36	26	25	50	60	60	63	53
Wright	48	47	70	41	15	23	66	89	79	65	54
State of Iowa	11733	11388	11721	10763	10562	14099	21052	25989	23757	21806	16472

Table 7. Average Monthly Regular-Program AFDC Payments Per Person (in \$) in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	134	131	132	129	133	121	122	112	104	107	118	115	114	111
Adams	131	125	132	123	129	124	119	113	109	113	115	113	115	110
Allamakee	133	133	125	128	128	125	122	119	116	115	117	117	111	104
Appanoose	140	137	138	139	136	129	126	112	111	112	117	115	112	106
Audubon	126	124	126	122	123	122	131	120	111	113	115	111	108	112
Benton	136	136	136	132	132	129	128	117	115	119	125	122	117	112
Black Hawk	136	136	136	133	131	128	128	119	114	120	126	125	122	119
Boone	140	141	143	140	141	136	132	124	116	119	121	121	117	111
Bremer	135	138	138	138	133	125	125	114	113	117	122	123	124	116
Buchanan	133	135	135	136	133	127	129	120	112	114	114	117	118	110
Buena Vista	136	137	136	137	134	132	134	119	114	116	117	114	112	110
Butler	134	132	133	134	129	126	125	113	109	116	119	119	125	111
Calhoun	137	136	136	128	124	124	128	119	114	115	117	116	113	112
Carroll	133	133	133	133	132	126	129	116	114	114	118	115	106	104
Cass	128	132	139	134	129	127	126	122	117	119	117	113	112	112
Cedar	137	139	137	131	132	130	131	121	117	129	123	119	116	114
Cerro Gordo	140	139	139	136	132	130	132	121	116	119	124	123	118	115
Cherokee	134	127	128	130	128	126	124	112	105	111	120	117	110	108
Chickasaw	137	135	136	131	133	128	126	119	115	119	123	120	119	113
Clarke	133	130	137	132	126	122	124	122	113	117	119	114	112	112
Clay	140	135	140	134	134	132	136	121	114	118	123	120	117	115
Clayton	138	137	134	127	129	124	125	117	112	114	117	117	111	106
Clinton	141	142	140	139	134	130	130	121	117	120	121	119	116	113
Crawford	135	132	134	133	132	129	129	121	117	118	119	114	112	110
Dallas	144	142	139	136	134	128	128	118	112	116	118	117	111	113
Davis	138	135	140	132	134	127	124	115	109	111	117	112	111	107
Decatur	136	140	141	138	133	124	128	120	115	118	115	113	111	112
Delaware	126	130	129	127	125	120	123	117	111	110	116	118	110	108
Des Moines	137	138	137	133	130	127	127	116	111	117	118	116	112	111
Dickinson	133	141	140	140	131	124	132	121	108	115	117	112	112	111
Dubuque	136	136	136	136	136	135	134	118	114	117	119	117	114	113
Emmet	135	134	128	130	126	122	128	117	110	112	116	117	113	109
Fayette	134	134	134	130	129	128	125	118	113	113	115	114	113	111
Floyd	135	136	137	135	130	129	128	117	114	115	118	117	113	112
Franklin	133	139	139	133	132	133	134	119	119	120	121	114	109	107
Fremont	132	130	132	129	128	124	125	115	112	113	111	112	108	110
Greene	131	134	136	133	131	123	124	114	109	116	118	117	112	110
Grundy	135	139	141	138	133	127	129	112	109	116	115	122	121	111
Guthrie	133	134	134	129	128	119	121	112	110	112	109	106	105	103
Hamilton	138	140	140	135	127	125	129	119	114	113	116	114	113	109
Hancock	134	134	135	138	136	130	129	117	111	116	113	116	103	103
Hardin	137	139	140	142	138	128	128	118	119	125	122	117	112	109
Harrison	129	131	128	132	124	125	123	116	109	113	113	114	112	107
Henry	134	136	134	132	127	129	134	117	111	119	121	116	115	111
Howard	132	131	134	130	131	129	128	116	109	116	114	110	106	105
Humboldt	126	130	136	138	129	127	131	120	113	117	117	115	113	113
Ida	135	130	126	128	123	123	121	115	112	117	115	109	108	103
Iowa	132	142	141	138	135	131	129	119	116	119	121	112	113	114
Jackson	138	140	139	138	134	131	131	117	114	117	120	117	114	113
Jasper	141	138	138	137	131	128	129	118	114	116	120	117	115	116

Table 7. Average Monthly Regular-Program AFDC Payments Per Person (in \$) in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	137	143	141	136	136	128	128	113	110	117	122	120	118	117
Johnson	137	140	150	137	139	137	142	121	119	125	131	133	130	124
Jones	133	136	137	132	130	126	129	122	118	121	129	122	118	114
Keokuk	135	142	140	132	126	120	119	114	110	108	117	118	113	114
Kossuth	133	131	137	134	132	127	128	113	105	105	111	110	111	110
Lee	134	135	135	134	130	127	128	119	114	115	116	115	114	112
Linn	137	139	139	136	135	133	133	120	115	121	125	121	120	116
Louisa	134	135	134	134	130	127	129	116	112	113	115	114	111	110
Lucas	137	140	138	140	132	124	120	114	110	109	114	112	105	106
Lyon	127	119	121	115	123	127	124	111	109	109	113	107	113	108
Madison	138	141	140	136	131	126	128	115	114	114	114	110	114	115
Mahaska	141	144	138	136	135	128	131	118	113	118	123	121	117	113
Marion	136	136	138	137	133	134	131	121	114	119	118	117	107	113
Marshall	136	139	137	137	134	132	133	114	110	121	128	121	117	116
Mills	133	134	133	131	127	123	122	115	108	112	115	114	104	110
Mitchell	139	141	135	138	139	134	133	130	120	125	116	110	112	113
Monona	133	134	136	135	124	123	126	120	111	114	115	115	112	112
Monroe	134	134	135	130	127	126	124	122	114	114	114	114	111	110
Montgomery	141	140	141	137	131	130	132	124	116	118	118	114	114	107
Muscatine	136	135	135	134	130	127	129	122	116	120	121	119	115	116
O'Brien	132	132	135	132	130	121	124	110	110	115	120	116	108	109
Osceola	128	134	127	120	119	114	114	111	106	121	113	109	111	108
Page	133	133	134	129	129	127	125	117	114	116	118	115	110	110
Palo Alto	129	125	128	131	125	117	125	110	110	112	112	109	112	108
Plymouth	141	139	139	132	131	123	128	114	117	120	117	116	110	108
Pocahontas	133	137	133	136	126	122	125	121	115	109	111	105	101	102
Polk	139	140	140	137	133	129	130	119	115	118	120	119	115	112
Pottawattamie	134	135	135	133	130	126	126	119	112	116	118	116	114	113
Poweshiek	139	138	136	134	127	123	127	121	113	121	121	119	117	110
Ringgold	139	146	140	138	134	131	132	124	115	114	115	113	102	107
Sac	136	134	135	130	128	131	133	120	114	118	124	119	112	113
Scott	138	137	137	135	132	129	129	116	113	117	121	119	115	113
Shelby	132	135	134	129	127	115	122	113	106	111	113	115	109	112
Sioux	139	135	132	124	126	118	118	111	106	112	112	109	110	108
Story	143	143	143	141	142	138	136	127	121	126	121	120	118	115
Tama	135	136	134	134	130	129	129	122	117	113	117	115	115	115
Taylor	139	134	132	129	127	123	125	116	112	118	112	107	103	107
Union	139	138	136	130	133	130	124	118	113	121	122	120	115	114
Van Buren	134	137	134	131	132	127	130	119	115	118	122	119	112	111
Wapello	140	140	141	135	133	129	128	117	112	114	119	120	117	115
Warren	144	143	140	139	138	135	130	119	112	118	124	120	120	115
Washington	134	135	134	127	125	120	126	117	112	111	117	121	122	116
Wayne	129	128	130	132	124	119	123	116	111	116	116	112	114	113
Webster	136	137	136	134	130	126	127	115	111	114	116	114	112	108
Winnebago	134	137	131	132	126	124	129	108	103	114	119	118	113	113
Winneshiek	132	131	131	134	129	130	129	108	103	105	113	116	109	116
Woodbury	134	134	134	131	129	127	129	116	111	116	119	119	116	115
Worth	140	144	132	134	123	125	133	117	111	113	115	118	108	109
Wright	124	131	136	134	130	129	123	118	115	114	117	113	111	111
State of Iowa	137	137	137	135	132	129	129	118	113	117	120	118	107	113

Table 8. Average Monthly Unemployed-Parent AFDC Payments Per Person (in \$) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	99	91	92	103	66	81	101	86	87	90	119
Adams	99	100	97	111	111	91	94	87	86	94	103
Allamakee	97	88	102	111	112	110	111	91	91	88	99
Appanoose	102	106	108	103	99	98	104	89	87	94	103
Audubon	105	93	88	103	115	91	91	79	87	86	103
Benton	101	94	97	101	90	96	104	86	77	94	108
Black Hawk	102	101	106	102	102	100	101	90	84	94	120
Boone	105	108	102	104	104	98	99	91	87	98	106
Bremer	97	111	101	106	102	103	100	90	80	86	99
Buchanan	101	104	101	105	98	97	98	92	85	94	93
Buena Vista	107	107	112	107	98	92	99	82	83	96	116
Butler	110	111	102	113	106	97	100	89	90	93	94
Calhoun	94	109	107	101	95	97	94	84	86	89	91
Carroll	89	99	114	92	89	112	113	85	86	95	104
Cass	82	96	103	101	88	91	95	97	92	101	110
Cedar	102	109	109	104	104	93	107	98	89	97	93
Cerro Gordo	101	101	106	101	103	97	101	91	88	101	98
Cherokee	110	110	116	104	97	115	104	81	79	77	107
Chickasaw	98	99	101	102	88	93	102	88	85	89	106
Clarke	105	101	103	91	106	99	100	96	91	99	110
Clay	99	107	113	115	122	97	101	90	90	97	104
Clayton	100	111	115	108	106	104	105	88	90	94	108
Clinton	105	107	108	100	102	96	98	91	87	95	97
Crawford	120	114	114	101	107	107	112	91	92	102	102
Dallas	115	114	114	112	105	99	98	94	90	100	105
Davis	112	116	112	108	106	100	104	91	94	95	99
Decatur	101	109	110	110	112	109	103	101	93	93	99
Delaware	98	98	91	96	88	96	99	92	88	89	96
Des Moines	103	104	100	102	99	96	102	88	81	95	99
Dickinson	110	109	102	92	87	91	88	82	70	80	98
Dubuque	97	98	100	100	99	94	97	89	85	89	95
Emmet	99	102	96	95	102	94	102	76	72	91	85
Fayette	104	107	110	99	105	104	105	89	83	90	103
Floyd	102	105	104	111	97	92	94	86	79	84	91
Franklin	86	98	105	97	102	108	102	96	85	92	103
Fremont	98	96	101	97	99	98	101	101	92	91	100
Greene	106	96	109	97	106	99	99	88	88	93	86
Grundy	101	94	94	114	107	100	99	89	96	93	105
Guthrie	96	106	109	102	106	102	99	86	82	88	88
Hamilton	100	97	99	99	95	98	103	90	86	90	93
Hancock	101	97	99	108	85	92	90	92	82	89	103
Hardin	109	105	98	96	96	92	100	88	92	91	97
Harrison	90	101	93	104	106	106	99	87	77	88	96
Henry	98	95	96	105	93	101	100	90	82	98	104
Howard	96	96	98	117	105	96	103	76	75	86	91
Humboldt	104	111	110	101	90	106	96	91	91	94	92
Ida	62	. ^a	117	108	.	90	92	79	84	85	86
Iowa	110	102	100	102	100	99	100	77	87	99	113
Jackson	103	97	103	106	99	97	99	94	87	92	99
Jasper	102	107	112	98	106	97	98	89	87	98	101

^aNo payments of this type were provided this year.

Table 8. Average Monthly Unemployed-Parent AFDC Payments Per Person (in \$) in Iowa Counties, 1983-1993
(continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	103	105	108	103	105	99	104	88	84	91	95
Johnson	103	108	103	98	99	97	108	72	70	96	98
Jones	103	102	100	105	100	100	105	93	82	99	121
Keokuk	94	93	95	107	104	98	98	88	88	96	108
Kossuth	82	99	89	89	94	97	96	76	75	85	89
Lee	105	105	108	105	102	100	102	88	86	94	99
Linn	99	98	101	100	101	99	103	88	88	99	114
Louisa	106	103	110	110	100	103	103	88	87	96	105
Lucas	97	103	92	100	98	97	97	91	85	95	107
Lyon	104	124	.	.	91	89	102	88	75	84	90
Madison	107	109	93	92	103	81	90	85	90	97	91
Mahaska	108	112	112	106	110	105	116	89	84	101	110
Marion	108	109	110	111	108	101	102	92	87	99	99
Marshall	105	109	102	107	106	101	100	83	81	99	111
Mills	92	103	97	108	97	93	99	91	86	87	96
Mitchell	110	103	123	96	110	95	119	90	95	91	96
Monona	110	102	103	104	101	94	100	98	96	87	94
Monroe	105	105	104	102	103	103	105	96	90	97	102
Montgomery	94	118	120	103	112	93	90	91	84	95	114
Muscatine	99	104	103	105	102	102	98	94	88	96	104
O'Brien	85	92	104	116	78	90	101	95	88	98	102
Osceola	99	113	115	113	89	75	84	86	87	84	101
Page	102	97	110	95	102	103	100	90	83	82	93
Palo Alto	113	109	99	91	100	104	103	81	80	94	98
Plymouth	95	111	117	85	107	96	95	86	77	90	96
Pocahontas	102	104	106	94	97	84	101	90	81	96	95
Polk	104	105	109	105	102	99	103	92	86	93	97
Pottawattamie	101	104	105	101	99	95	99	92	83	89	98
Poweshiek	106	105	102	95	80	91	97	81	82	95	103
Ringgold	114	115	114	109	97	107	114	93	88	103	105
Sac	97	100	100	113	103	100	104	87	85	84	99
Scott	103	103	106	103	102	100	102	92	87	93	102
Shelby	103	102	106	104	99	88	93	87	82	94	104
Sioux	100	103	120	105	66	56	67	83	76	88	111
Story	101	109	106	103	118	134	119	105	94	103	107
Tama	99	103	101	107	105	113	108	92	85	93	96
Taylor	89	105	105	89	102	104	100	89	86	109	108
Union	96	107	111	105	97	111	103	87	86	102	112
Van Buren	108	115	109	106	98	98	92	88	84	94	106
Wapello	104	102	105	106	104	100	103	89	87	95	104
Warren	98	107	100	101	105	97	100	92	84	98	106
Washington	99	104	99	110	105	104	108	88	96	100	93
Wayne	96	100	96	97	109	109	106	93	88	95	99
Webster	99	101	97	100	98	95	99	90	83	92	102
Winnebago	123	121	91	98	97	100	113	85	72	92	92
Winneshiek	96	102	109	100	101	101	101	88	81	88	97
Woodbury	102	103	101	99	98	98	102	79	82	96	101
Worth	113	113	92	100	79	84	112	91	86	102	113
Wright	105	99	101	114	95	95	95	94	94	96	108
State of Iowa	102	103	104	103	101	99	101	89	85	94	102

was higher than 8 of the other 13 years examined and represented increases of 47 from 1992 and 706 from 1983. More than 100,000 persons were in the program each month, on average, in both 1985 and 1986 (Figure 1).

Polk county averaged 15,220 AFDC recipients monthly in the regular program in 1993, the highest number for any county in the state. Other counties above 5,000 that year were Black Hawk, Linn, and Scott. These four counties alone accounted for 39.6 percent of Iowa's average monthly regular AFDC recipients. The majority (50) of Iowa's counties had fewer than 350 recipients in 1993, although Osceola (95) was the only one below 100.

Increases in the number of recipients occurred in 45 counties between 1992 and 1993. Gains were less than 50 in most (38) of these counties; they exceeded 100 in Clinton, Johnson, and Pottawattamie. Declines from 1992 to 1993 in the number of recipients took place in 50 counties; 45 of these counties had decreases of less than 50.

Iowa had 706 more persons receiving regular AFDC each month, on average, in 1993 than in 1983. The majority (57) of Iowa's counties did not follow this trend, however; they had fewer recipients at the end of the period. Dubuque (-780) and Linn (-523) dropped by at least 500, although most (32) lost fewer than 50 recipients. Of the 42 counties with more recipients in 1993 than in 1983, only Polk (+875) gained at least 500, and the increase was less than 50 in 23 other counties. Changes of less than 50 persons in either direction occurred in the majority (55) of Iowa's counties when 1983 and 1993 were compared.

Unemployed-Parent AFDC Cases and Recipients

Iowa averaged 2,334 unemployed-parent AFDC cases each month in 1993 (Table 3). The 1993 average was about half of that from 1984 through 1986, when Iowa had more than 4,500 such cases. Nearly two-fifths (39) of the counties averaged fewer than 10 unemployed-parent cases each month in 1993. Fifty-six counties had from 10 to 88 unemployed-parent cases. The highest monthly averages were in four counties (Black Hawk, Linn, Polk, Scott) with more than 100 each; Scott's total of 187 was the highest.

Unemployed-parent cases increased, on average, by 112 between 1992 and 1993 in the state. The majority (73) of the counties reported increases or decreases of three or fewer cases or no change from one year to the next. Black Hawk (+11), Des Moines (+12), Scott (+31), and Webster (+11) increased by more than 10 cases; only Polk (-12) dropped by more than 10.

Iowa's unemployed-parent case average was lower by 1,390 in 1993 than it was in 1983. Most (81) counties also had declines when comparing these years. Dubuque, Linn, and Polk had decreases of 100 or more cases. Four counties remained the same; the remaining 14 had increases over the period, although only Muscatine reported at least 10 more cases in 1993 than in 1983.

The average monthly number of AFDC recipients in the unemployed-parent program was 9,595 in 1993, a figure 414 higher than in 1992 (Table 4, Figure 2). The averages for 1984-1986 were more than double the 1993 number; those for 1985 and 1986 exceeded 23,000 and 24,000, respectively. Scott had the highest monthly average (795) of unemployed-parent recipients in 1993; Black Hawk, Linn, and Polk also were greater than 500. Twenty-one other counties averaged at least 100 recipients. The counties with the lowest average of unemployed-parent recipients were Ida (2), Lyon (4), and Sioux (8), which are located in northwest Iowa.

The number of recipients of unemployed-parent AFDC benefits increased between 1992 and 1993. Most (51) counties reported changes in either direction of fewer than 10 recipients or had the same number in 1992 and 1993. Gains in Des Moines and Scott exceeded 50. Iowa averaged 3,878 fewer persons per month receiving unemployed-parent AFDC benefits in 1993 than in 1983. Most counties (81) followed the downward state trend. Decreases greater than 200 occurred in Clinton, Dubuque, Linn, and Polk. Of the 18 counties with more unemployed-parent recipients in 1993 than in 1983, only Muscatine and Pottawattamie increased by more than 50.

Cases and recipients in the unemployed-parent portion of the AFDC program have varied much more in the 1980s and 1990s than those in the regular AFDC program. The unemployed-parent program corresponds much more closely to variations in Iowa's economy than does the regular program.

Total Annual AFDC Payments

Total benefits paid in Iowa in 1993 for the regular AFDC program exceeded \$152 million, which was about a half-million less than the 1992 total (Table 5, Figure 3). Benefits increased in 7 of the 13 year-to-year comparisons. County totals in 1993 varied from less than \$200,000 in Audubon, Ida, and Osceola to more than \$10 million in Black Hawk, Polk, and Scott. Polk's figure, at \$25.4 million, was nearly \$10 million above the second highest total (Scott, \$15.6 million). Fifty counties reported lower benefits paid to participants in the regular program in 1993 than in 1992 as did the state. Total benefits increased in 47 counties. Changes in either direction between the two years were relatively small.

Although Iowa's total payments to regular recipients increased by nearly \$20 million between 1983 and 1993, 24 of the counties had lower benefits paid at the end of the period. The change in Dubuque county, a decrease of \$700,000, was much greater than the next largest decline (Dickinson, -\$182,000). Of the counties with higher benefits paid in 1993, Polk and Scott increased payments by more than \$4 million.

The counties with the largest dollar increases were not those with the largest percentage gains, however. Adams (+79.5%), Fremont (+53.1%), Keokuk (+71.6%), and Story (+59.1%) reported that benefits increased by at least 50 percent between 1983 and 1993. The statewide percentage increase during the 10 years was 14.8, far below the rate of inflation (+42.3%). Percentage increases in total payments for regular AFDC are substantially lower than those for two other programs; food stamp benefits increased 40 percent during this period while Title XIX (Medicaid) payments jumped 190 percent.

Unemployed-parent program benefits totaled \$11.7 million in 1993 (Table 6, Figure 4). Benefits paid by this program have been significantly lower than those for the regular program because the caseload is much smaller. Reflecting changes in Iowa's economy, the payments made in the unemployed-parent program for 1989-1993 have been half or less of those reported in 1985 and 1986.

Nine counties provided less than \$20,000 in unemployed-parent benefits in 1993, with Ida (\$1,000) and Lyon (\$5,000) reporting the lowest figures. The highest benefits were recorded in Scott (\$982,000), Polk (\$818,000), Black Hawk (\$692,000), and Linn (\$622,000). Fifty-five counties distributed more benefits in 1993 than in 1992.

Total costs for the unemployed-parent program in Iowa were \$4.7 million lower in 1993 than in 1983. A majority of counties (80) also reported lower benefits at the end of the period; among these, Dubuque (-\$590,000), Linn (-\$587,000), and Polk (-\$482,000) had relatively great decreases. For counties with higher payments in 1993 than in 1983, the increases were not of this magnitude; Pottawattamie's gain (+\$95,000) was highest.

Average Monthly Payments Per Person

The average per person benefit per month for the regular program was \$137 in 1993 (Table 7). This was the same as in the 1991 and 1992 figures and within \$8 of the average monthly payment each year since 1987 (Figure 5). Benefits per person in the early 1980s ranged from \$107 to \$120 per month. Among the counties, there was a \$20 difference between the lowest (\$124 in Wright) and the highest (\$144 in Dallas and Warren) monthly per person benefits in 1993. For all the years from 1980 through 1993, less than \$30 separated the lowest and highest county in per person monthly payments for the regular program.

Changes between 1992 and 1993 in the regular program benefits were small in most counties; a \$10 drop in Iowa county was the largest change in either direction. Fourteen counties averaged the same per person amount in both years. More substantial change is noted when 1983 and 1993 are compared. Iowa averaged \$17 more per person in the regular program in the later year and increases were recorded

for all counties. Still, five counties (Humboldt, Johnson, Jones, Marshall, Wright) experienced increases of less than \$10 while four others (Dallas, Sioux, Taylor, Worth) gained by as much as \$25 across the period.

The state's average per person increase of 14.2 percent between 1983 and 1993 did not nearly keep pace with inflation as measured by a 42.3 percent rise in the consumer price index for the same years. Indeed, benefit increases were less than 10 percent in 15 counties, and the two greatest gains (Sioux, Taylor) were less than 25 percent, still well below the rate of inflation. The small percentage change in per person benefits for the regular AFDC program from 1983 to 1993 contrasts sharply with percentage increases for average monthly benefits per person in both the food stamp (+50.7%) and Medicaid (+54.2%) programs. While the last two programs had gains above the rate of inflation (+42.3%), the 14.2 percent increase in average regular AFDC payments per month did not keep pace with inflationary trends.

For persons in the unemployed-parent program, monthly payments statewide averaged \$102 in 1993 (Table 8). This was \$1 lower than 1992 and within \$3 of each year's per person benefit since 1987 (Figure 5). For the state and the counties (except Lyon in 1992 and Adair in 1983), per person payments for the unemployed-parent program have been lower than those than for the regular program, frequently by \$20 or more per month.

In 1993, county-level average benefits per person in the unemployed-parent program ranged from \$62 (Ia) to \$123 (Winnebago). Ia was the only county below \$80; Crawford joined Winnebago at the level of at least \$120 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.

Although the statewide average benefit for persons in the unemployed-parent program was the same in 1993 as in 1983, 50 counties had higher average payments in the later year. Only two counties (Greene, Winnebago), however, gained as much as \$20 across the 10 years.

Figure 1. Average number of persons receiving regular AFDC per month in Iowa, 1980-1993.

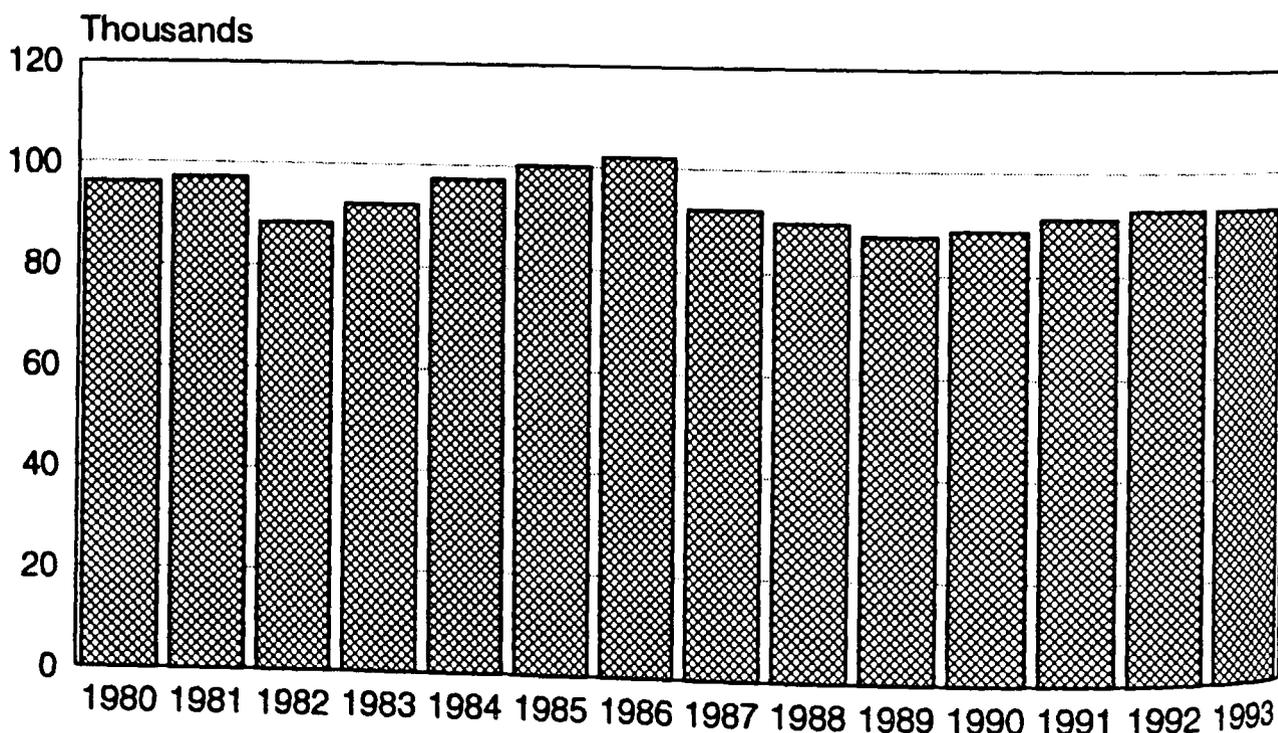


Figure 2. Average number of persons receiving unemployed-parent AFDC per month in Iowa, 1983-1993.

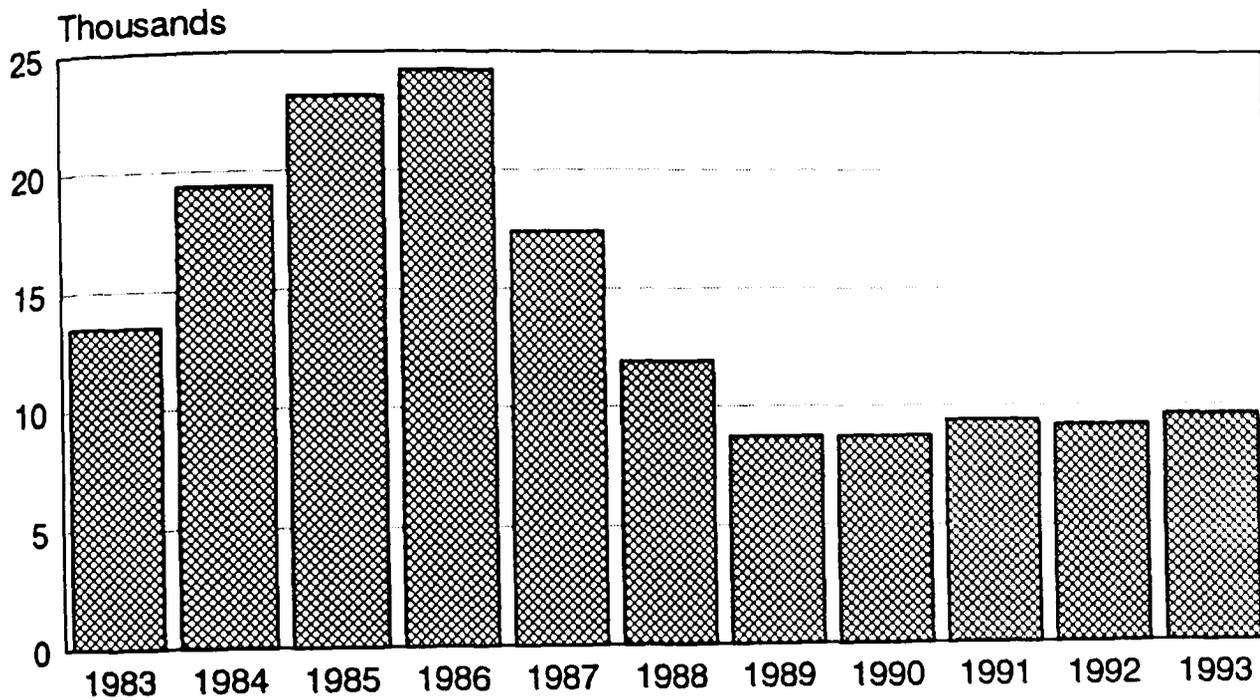


Figure 3. Total annual payments to persons receiving regular AFDC in Iowa, 1980-1993.

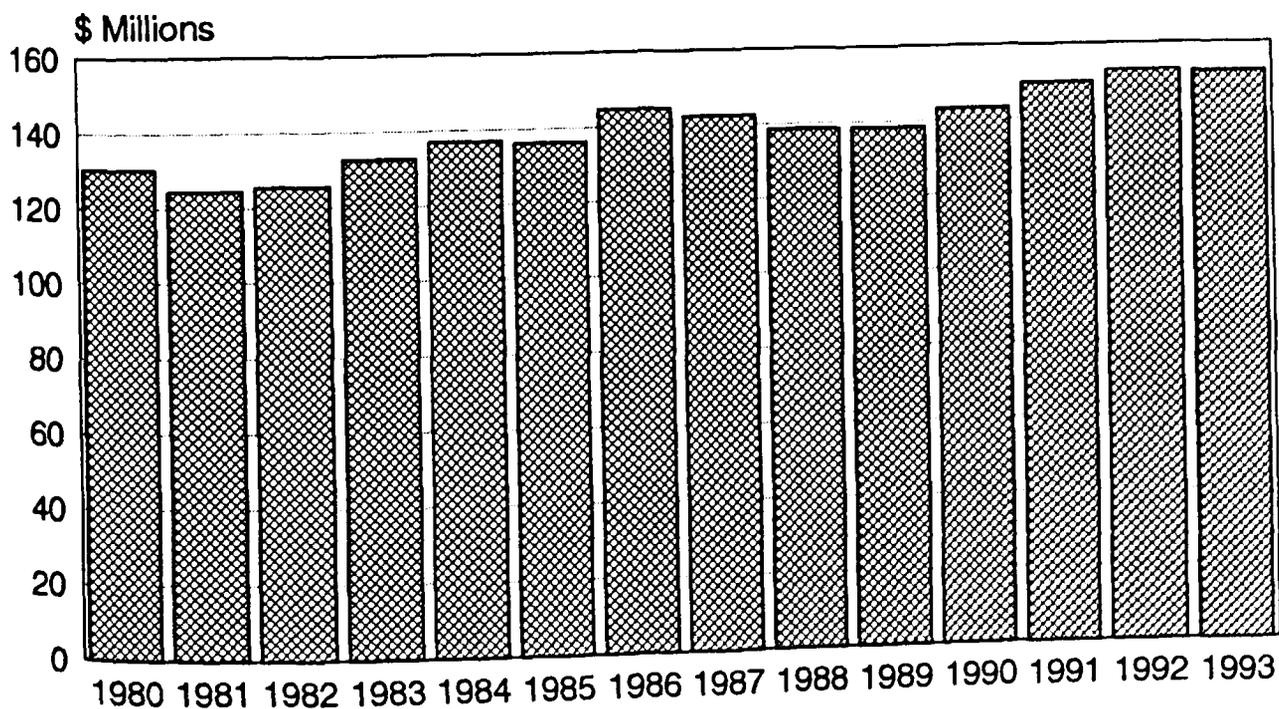


Figure 4. Total annual payments to persons receiving unemployed-parent AFDC in Iowa, 1983-1993.

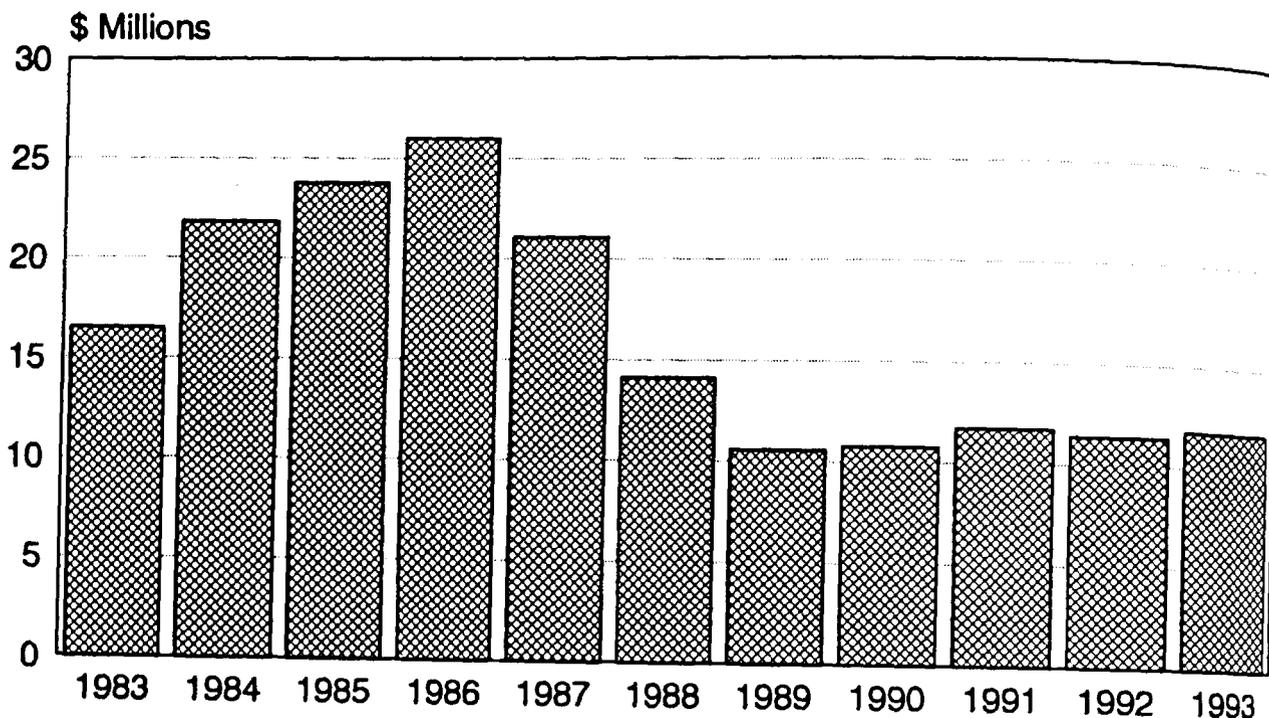
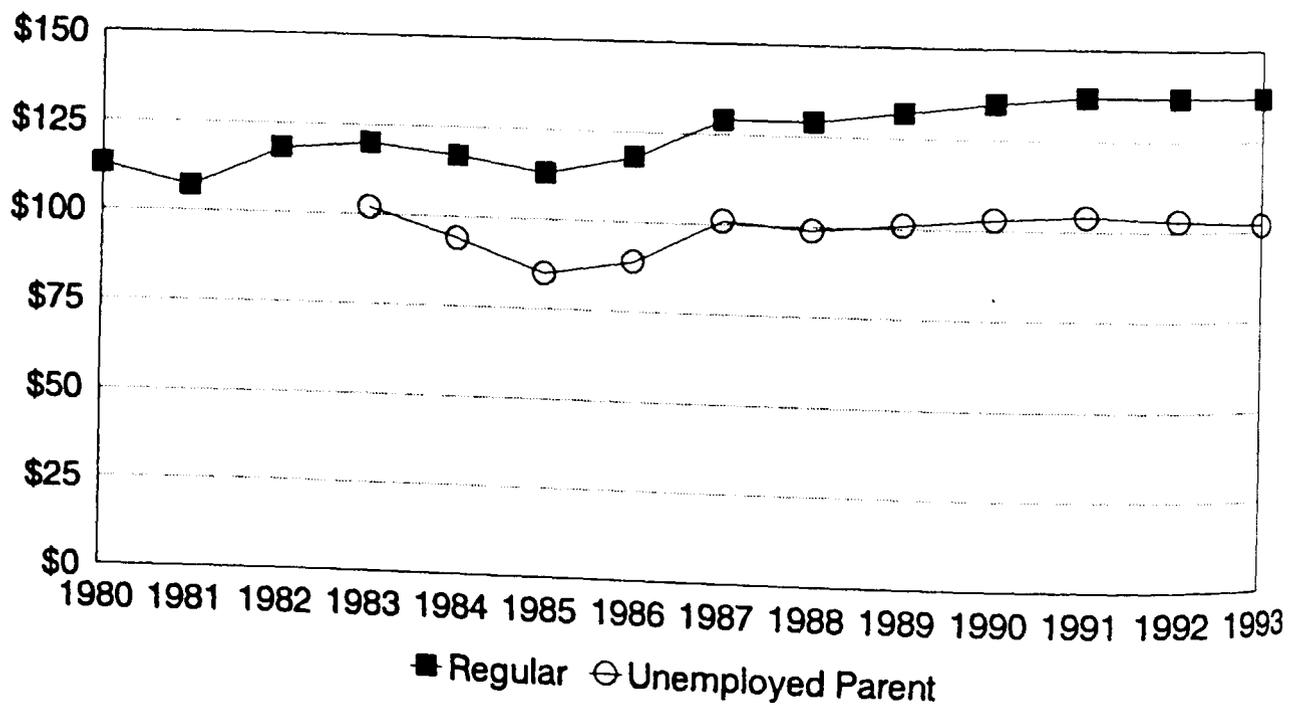


Figure 5. Average monthly AFDC payments per recipient, 1980-1993.



Children in Foster Care in Iowa's Counties: 1982-1993

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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. A decrease in the number of cases occurred from 1982 to 1983, although they increased each year from then through 1991 (Table 1). The average number of children in foster care declined by 498 from 1991 to 1993, when the average was 3,468 per month; this was lower than any year from 1987 through 1992 (Figure 1). In 1990, the U.S. Bureau of the Census reported that 718,880 Iowans were 17 or younger; based on the average of 3,844 reported in foster care that year, less than one percent (0.5%) of Iowa's youth lived in such an arrangement.

Seven counties (Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, Woodbury) averaged at least 100 children in foster care in 1993; all of these except Dubuque had more than 100 in foster care each year. Twenty-nine counties reported fewer than 10 under such care in 1993; 55 counties averaged 10 to 49 children in foster care, while 8 reported 50 to 99 children in this type of care in 1993. Eight counties (Adams, Calhoun, Davis, Grundy, Lyon, Osceola, Ringgold, Taylor) never had as many as 10 in foster care in any of the years examined.

When averages for 1983 and 1993 are compared, 58 counties had more children in foster care at the end of the period than at the beginning. Mahaska, Polk, and Woodbury had the only increases greater than 50. Nineteen counties noted increases of 10 to 50 foster care children. Declines in the average number in foster care occurred in 34 counties, although only six were 20 or greater (Cerro Gordo, Kossuth, Linn, Marshall, Pottawattamie, Webster). Seven counties (Calhoun, Des Moines, Dubuque, Fayette, Grundy, Osceola, Palo Alto) had the same number in foster care in 1983 and 1993.

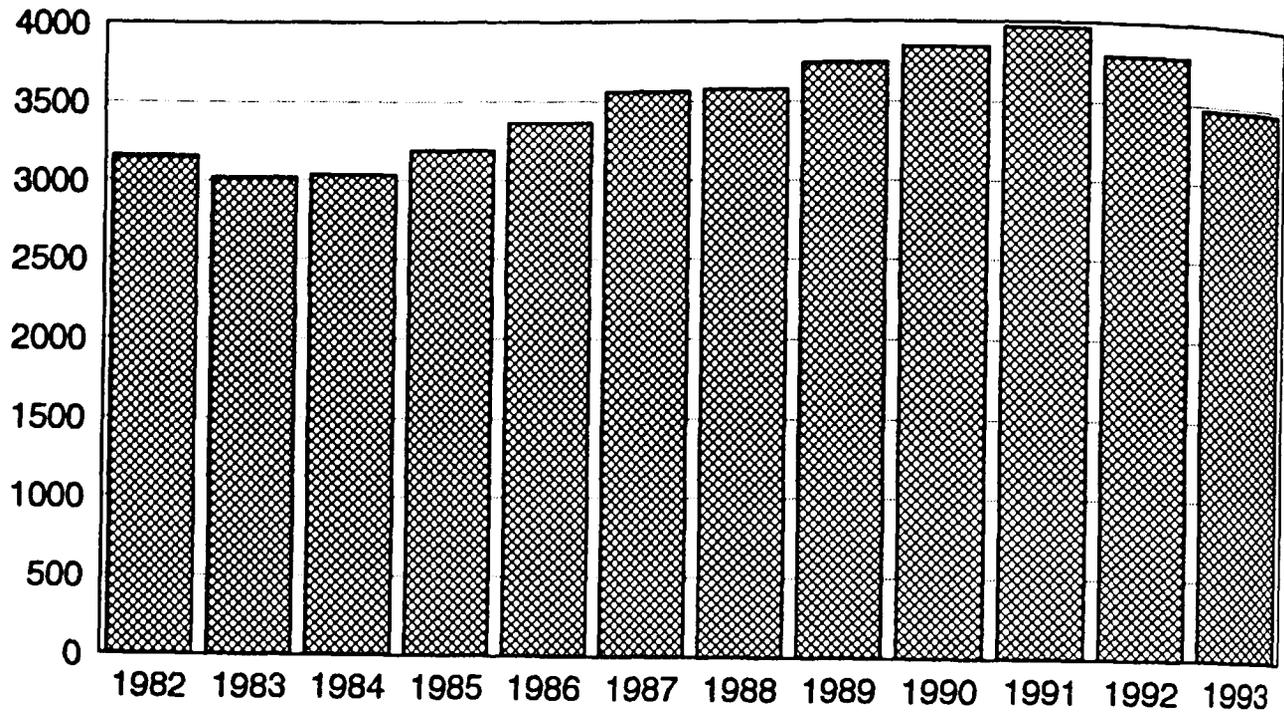
Table 1. Average Monthly Number of Children in Foster Care in Iowa Counties, 1982-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	0	1	2	5	6	6	11	9	3	4	4	4
Adams	3	3	1	3	2	2	1	0	1	1	2	1
Allamakee	14	20	14	11	9	9	4	4	4	8	8	9
Appanoose	34	29	28	24	22	21	19	14	14	12	11	14
Audubon	6	8	7	11	11	12	7	5	7	12	15	12
Benton	28	33	33	26	23	18	18	16	13	12	11	16
Black Hawk	211	243	246	236	237	217	201	181	184	177	182	208
Boone	21	26	35	41	42	31	31	25	24	20	20	19
Bremer	17	13	12	15	15	15	9	7	6	4	7	6
Buchanan	28	21	17	16	16	17	23	12	10	8	9	9
Buena Vista	19	26	34	36	34	28	25	19	21	14	11	18
Butler	10	11	11	12	10	10	13	9	8	11	14	10
Calhoun	6	4	3	4	5	2	2	3	4	5	6	8
Carroll	16	15	21	26	27	29	23	27	21	18	17	16
Cass	18	21	20	19	13	13	17	18	23	17	9	10
Cedar	20	19	15	15	10	14	11	8	13	10	10	10
Cerro Gordo	67	76	76	70	75	88	87	84	83	81	87	85
Cherokee	19	17	19	19	22	16	15	17	14	21	18	18
Chickasaw	5	11	11	9	9	10	11	11	9	9	9	9
Clarke	9	11	11	8	12	10	7	8	8	4	10	10
Clay	25	22	25	24	19	14	15	21	30	24	26	23
Clayton	15	14	16	9	9	8	7	6	6	7	8	10
Clinton	54	59	67	62	60	59	59	56	48	49	56	58
Crawford	16	25	27	18	18	17	20	19	14	12	15	18
Dallas	34	32	29	23	17	22	20	12	15	18	19	15
Davis	6	6	3	5	5	5	4	5	5	3	3	2
Decatur	16	10	12	11	10	8	7	5	7	9	11	9
Delaware	28	24	26	27	29	19	19	19	29	23	14	21
Des Moines	49	54	56	71	76	60	69	78	65	54	49	55
Dickinson	13	19	23	19	14	11	18	19	15	15	16	13
Dubuque	108	131	146	121	109	100	100	90	98	101	108	107
Emmet	25	22	19	18	16	14	17	16	16	13	12	15
Fayette	15	12	14	15	12	15	14	11	11	11	15	19
Floyd	36	27	26	24	20	20	20	23	18	15	19	16
Franklin	8	7	12	11	7	6	6	12	9	9	10	10
Fremont	11	4	2	8	5	4	6	6	6	7	7	8
Greene	4	8	12	6	9	13	13	16	12	10	12	18
Grundy	4	9	5	8	7	4	2	2	3	3	4	9
Guthrie	13	12	8	7	7	4	7	10	9	6	5	7
Hamilton	28	30	20	14	17	18	21	17	13	20	19	18
Hancock	2	8	9	7	6	6	6	4	4	5	9	15
Hardin	21	27	24	24	26	22	29	32	31	31	34	34
Harrison	11	16	21	26	28	28	22	19	19	19	18	18
Henry	17	17	19	26	26	21	24	24	21	27	14	15
Howard	4	3	3	1	2	3	7	7	6	5	8	10
Humboldt	8	7	8	14	13	10	11	14	20	24	20	18
Ida	8	5	8	10	8	2	6	5	6	5	4	3
Iowa	14	12	14	16	18	17	15	13	10	8	5	4
Jackson	16	18	19	19	20	15	12	10	16	22	19	25
Jasper	35	42	39	45	52	46	44	38	32	24	25	24

Table 1. Average Monthly Number of Children in Foster Care in Iowa Counties, 1982-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	22	20	17	18	15	19	18	18	12	17	17	12
Johnson	83	91	87	85	78	77	79	72	77	66	62	56
Jones	13	21	15	16	16	19	15	12	11	10	12	10
Keokuk	13	16	12	12	20	14	16	14	11	12	10	10
Kossuth	8	15	14	15	18	17	21	22	27	34	34	39
Lee	43	58	61	65	77	66	65	60	52	43	51	52
Linn	230	281	310	289	296	279	272	279	278	291	268	267
Louisa	11	20	20	14	9	6	8	9	11	9	10	9
Lucas	8	10	10	6	6	6	7	11	12	6	6	11
Lyon	4	4	8	6	6	5	5	5	2	2	2	8
Madison	9	9	6	6	12	10	7	6	3	2	2	3
Mahaska	65	69	58	51	40	40	37	32	26	24	14	21
Marion	31	29	27	32	37	35	30	29	19	16	19	16
Marshall	39	42	58	67	66	65	64	67	77	67	76	83
Mills	24	37	35	25	18	17	12	14	13	14	14	12
Mitchell	2	3	4	4	5	8	12	11	8	9	10	15
Monona	7	10	10	10	9	9	5	4	5	7	6	6
Monroe	18	20	13	11	10	7	8	8	6	6	5	4
Montgomery	13	15	21	21	20	14	13	8	9	9	7	11
Muscatine	60	51	46	49	51	48	52	44	35	30	39	37
O'Brien	15	11	9	14	12	9	9	5	10	10	11	11
Osceola	4	7	8	4	4	3	3	2	4	3	4	7
Page	24	28	34	20	20	25	29	27	21	18	22	29
Palo Alto	12	11	13	12	16	14	11	9	12	13	12	16
Plymouth	8	10	10	14	9	11	14	17	17	11	13	18
Pocahontas	6	6	9	10	12	10	7	7	6	10	11	12
Polk	423	469	483	476	476	491	477	445	383	336	299	315
Pottawattamie	115	106	111	107	136	149	154	158	158	160	145	128
Poweshiek	24	27	21	16	17	13	11	8	9	17	15	23
Ringgold	8	6	9	5	1	2	1	2	1	3	3	2
Sac	14	11	14	12	15	18	13	14	23	19	16	13
Scott	252	236	263	236	223	228	222	230	225	237	242	247
Shelby	10	9	4	5	6	7	8	8	9	10	19	14
Sioux	14	16	13	14	19	10	13	21	15	10	8	9
Story	50	56	57	49	47	54	70	77	66	60	53	56
Tama	24	28	27	31	36	25	12	12	14	12	20	24
Taylor	3	2	1	2	2	2	1	1	2	1	1	2
Union	16	19	26	32	26	17	17	16	13	10	10	12
Van Buren	9	7	8	7	5	5	6	5	11	10	8	6
Wapello	62	89	99	92	84	120	128	103	96	75	72	67
Warren	38	46	54	60	57	56	51	38	42	26	27	31
Washington	31	29	36	38	35	29	23	23	19	21	17	14
Wayne	8	10	6	6	4	2	3	5	2	3	5	3
Webster	50	70	74	83	68	62	62	61	75	81	78	76
Winnebago	9	13	11	13	12	9	8	11	13	9	11	10
Winneshiek	11	6	7	7	6	9	6	4	3	5	8	11
Woodbury	321	336	378	357	294	261	271	223	157	139	161	176
Worth	1	4	6	6	10	6	4	4	5	6	7	9
Wright	14	16	17	24	20	17	20	21	21	22	20	23
State of Iowa	3468	3791	3966	3844	3740	3572	3555	3361	3185	3033	3019	3153

Figure 1. Average monthly number of children in foster care in Iowa, 1982-1993.



Founded Child Abuse in Iowa's Counties:

1982-1993

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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 mid-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 1987.

In 1993, 8,834 children were determined to be abused in Iowa (Table 1). The number abused had peaked in 1990, declined by 281 to 1992, but reached a new high in 1993 (Figure 1). The gain of 900 between 1992 and 1993 was the largest since the increase of 1,565 between 1987 and 1988.

Polk had 1,803 children with founded abuse in 1993, the highest number reported among the state's 99 counties. Four other counties (Black Hawk, Linn, Pottawattamie, Scott) had more than 300 children abused; these four counties plus Polk accounted for more than two of every five (44.0%) cases of child abuse in 1993. Fourteen counties had between 100 and 299 abused children, 15 counties ranged from 50 to 99, while 63 counties reported 10 to 49 children abused. For two counties (Monona, Taylor), the number of abused children in 1993 was under 10.

Fifty-four counties had more abused children in 1993 than in 1992. For some of these counties, the differences between the two years were small; in 18 of these 54, for example, the gains were less than 10. For three (Black Hawk, Polk, Pottawattamie), however, the increases were 75 or greater. Forty-one counties had fewer children with founded abuse in 1993 than in 1992. From one to nine fewer abused children were recorded for 22 counties. Declines exceeded 100 cases in Woodbury (-123), which dropped significantly more than Webster (-40), the county with the next greatest decrease. Four counties (Adams, Howard, Osceola, Wright) had the same number of children with founded abuse both years.

The number of children with founded abuse increased by 1,351 between 1988 and 1993. Sixty-one counties followed the state trend of increase during this period. Thirty-four counties reported fewer abused children in 1993 than in 1988, while four (Bremer, Howard, Ida, Madison) had the same numbers both years.

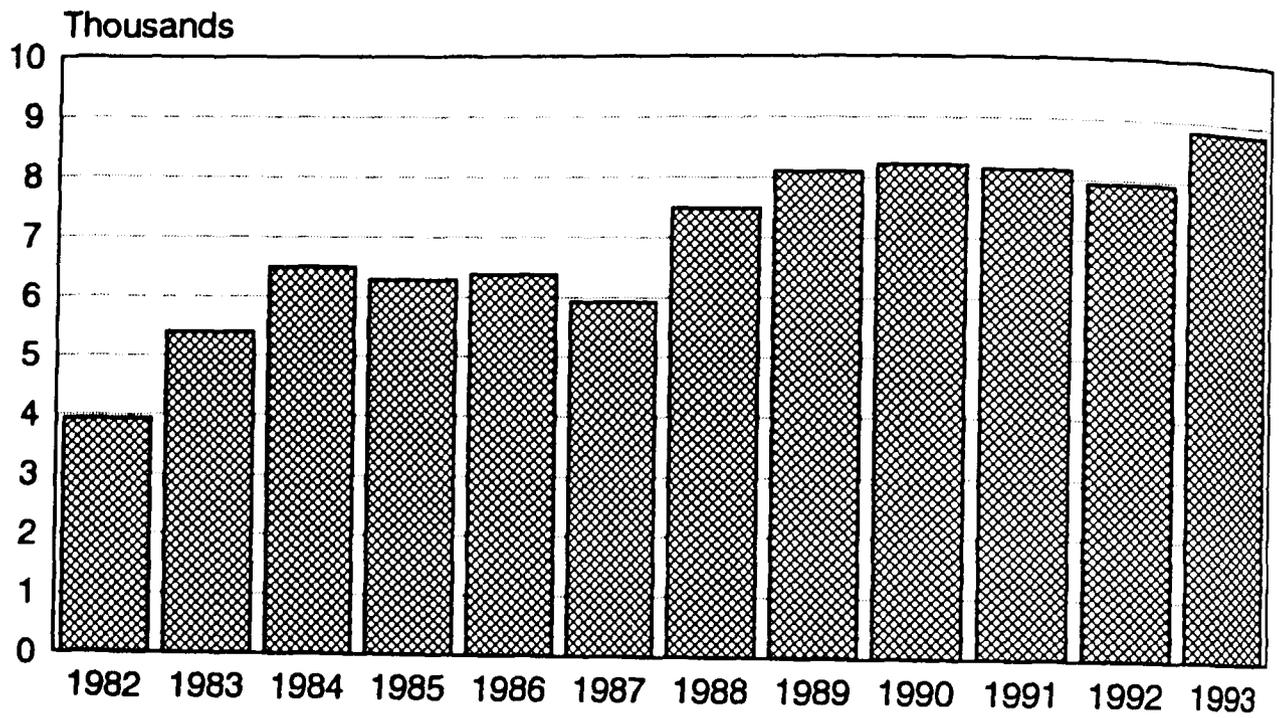
Table 1. Number of Children in Founded Cases of Child Abuse in Iowa Counties, 1982-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	13	16	14	22	12	3	10	13	20	14	12	12
Adams	13	13	13	8	3	11	4	6	6	5	7	4
Allamakee	25	31	35	46	37	20	17	26	16	13	19	16
Appanoose	44	38	24	16	24	18	15	25	8	35	42	56
Audubon	13	8	8	18	17	17	24	7	5	23	15	6
Benton	69	28	56	47	62	46	39	40	30	27	27	7
Black Hawk	608	497	472	459	471	482	368	437	324	307	296	226
Boone	59	79	113	109	168	113	46	39	65	107	56	22
Bremer	29	38	20	20	31	29	19	30	23	26	13	11
Buchanan	60	43	40	29	37	54	40	59	49	21	16	17
Buena Vista	55	58	45	45	58	34	20	29	27	82	11	23
Butler	26	27	31	15	32	32	10	11	16	11	13	10
Calhoun	21	14	36	36	11	20	13	5	18	20	4	12
Carroll	36	15	50	37	38	41	41	9	27	21	25	17
Cass	43	29	27	31	26	37	29	18	23	27	31	37
Cedar	51	37	22	32	36	24	16	24	29	32	24	9
Cerro Gordo	225	161	173	121	149	130	87	102	69	83	96	83
Cherokee	19	15	26	27	36	18	9	16	25	26	23	12
Chickasaw	47	19	18	26	30	16	17	19	25	14	6	9
Clarke	23	31	25	22	37	29	13	10	22	7	8	11
Clay	54	65	57	69	56	65	41	50	38	38	19	26
Clayton	27	26	44	51	65	33	38	18	42	28	34	15
Clinton	188	147	119	150	144	128	127	119	140	154	102	102
Crawford	36	24	44	44	49	41	19	23	18	33	26	32
Dallas	62	52	95	69	78	74	85	64	42	58	47	50
Davis	21	24	14	19	13	17	14	7	20	18	12	10
Decatur	42	36	40	28	23	24	13	23	16	17	21	9
Delaware	20	39	55	65	91	68	55	47	37	85	43	31
Des Moines	129	135	109	121	132	91	98	127	108	119	79	46
Dickinson	28	39	25	33	45	22	31	24	16	12	17	11
Dubuque	235	199	185	198	187	178	106	106	176	162	102	65
Emmet	41	39	39	26	28	32	18	31	16	17	22	17
Fayette	63	46	52	73	46	38	62	46	53	48	46	14
Floyd	68	74	56	46	42	36	42	29	30	13	23	22
Franklin	12	11	25	16	24	22	10	10	19	14	16	7
Fremont	19	22	11	19	20	26	10	6	8	3	17	13
Greene	46	18	39	24	34	15	21	25	18	29	7	6
Grundy	22	13	16	10	17	11	9	6	6	2	10	15
Guthrie	22	36	18	24	22	17	24	14	18	23	6	20
Hamilton	57	63	83	74	56	34	27	26	24	31	23	25
Hancock	39	24	15	12	27	13	16	24	13	17	7	6
Hardin	11	18	21	31	39	41	27	34	32	22	24	28
Harrison	29	58	35	49	54	61	44	42	28	36	34	37
Henry	27	42	56	43	35	42	33	36	39	39	51	27
Howard	14	14	17	18	14	14	12	16	19	17	22	13
Humboldt	24	10	16	19	29	7	10	13	13	32	21	20
Ida	10	8	15	7	21	10	2	3	3	3	9	6
Iowa	42	24	9	22	24	23	17	18	11	14	9	1
Jackson	58	47	45	58	40	34	58	41	43	41	31	29
Jasper	104	109	129	135	90	131	80	159	209	171	35	42

Table 1. Number of Children in Founded Cases of Child Abuse in Iowa Counties, 1982-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	44	29	35	19	23	21	17	29	20	23	39	46
Johnson	155	137	114	135	130	110	89	98	80	68	82	69
Jones	30	54	38	35	32	39	32	49	45	65	57	21
Keokuk	31	25	32	26	20	17	8	9	22	29	11	21
Kossuth	35	52	22	12	13	5	15	14	10	24	21	16
Lee	113	106	114	110	102	111	121	146	190	182	139	43
Linn	455	394	460	469	586	476	371	434	405	492	357	286
Louisa	35	10	34	38	34	28	12	21	24	20	14	11
Lucas	21	28	11	10	6	5	8	7	16	12	16	18
Lyon	15	10	15	15	7	12	13	4	13	9	10	8
Madison	26	16	25	31	32	26	30	23	21	13	8	12
Mahaska	32	51	49	37	23	31	29	28	37	41	30	29
Marion	91	107	119	98	105	120	79	119	92	60	64	25
Marshall	116	81	85	117	155	135	112	116	88	86	81	54
Mills	72	42	40	30	44	55	28	22	21	16	20	20
Mitchell	32	26	14	12	7	13	12	14	1	4	1	1
Monona	6	13	28	27	9	13	16	7	16	17	6	3
Monroe	19	24	25	15	7	6	7	12	9	5	10	7
Montgomery	21	24	31	16	31	20	37	21	11	20	36	12
Muscatine	277	205	276	222	182	138	91	85	129	141	137	130
O'Brien	16	32	14	21	15	17	7	13	12	3	18	13
Osceola	10	10	12	15	9	12	1	10	14	3	5	8
Page	38	61	30	64	57	50	22	19	13	39	25	42
Palo Alto	31	19	20	31	12	23	17	25	21	34	15	8
Plymouth	14	20	35	54	34	27	29	15	23	28	13	12
Pocahontas	18	8	12	28	23	19	21	16	7	27	1	17
Polk	1803	1474	1528	1478	1348	1518	1189	1271	1093	1122	860	543
Pottawattamie	377	302	273	245	249	265	290	339	372	316	332	176
Poweshiek	51	22	28	27	39	28	31	37	16	27	39	8
Ringgold	18	23	15	9	6	4	8	13	13	7	6	3
Sac	42	41	20	37	28	21	17	9	27	12	7	9
Scott	642	584	539	522	428	423	342	397	425	543	451	234
Shelby	15	28	19	9	14	18	11	10	4	11	19	13
Sioux	14	24	30	16	32	19	31	10	16	16	20	17
Story	118	85	120	178	154	134	63	86	70	29	59	25
Tama	40	46	34	52	52	66	51	52	27	24	22	39
Taylor	6	18	22	16	14	21	7	10	9	11	8	8
Union	60	65	47	65	51	45	31	44	60	51	35	14
Van Buren	29	6	16	17	8	13	4	8	11	19	22	21
Wapello	113	140	130	124	161	106	94	93	115	124	134	148
Warren	117	112	148	126	94	142	94	99	111	99	64	51
Washington	45	38	49	54	42	34	24	16	21	16	24	17
Wayne	24	33	9	6	18	1	3	8	7	7	9	5
Webster	108	148	154	195	154	131	102	109	130	161	129	135
Winnebago	46	27	14	17	27	21	25	9	15	15	14	16
Winneshiek	26	20	48	32	50	23	47	9	16	17	37	20
Woodbury	267	390	430	507	497	357	208	222	259	169	182	118
Worth	46	21	12	13	18	11	7	7	8	7	9	3
Wright	40	40	39	51	50	14	21	30	20	23	30	12
County Not Reported	5	4	8	13	3	17	8	16	14	5	12	12
State of Iowa	8834	7934	8154	8215	8095	7483	5918	6372	6281	6489	5399	3924

Figure 1. Abused children in Iowa, 1982-1993.



Public and Non-Public School Enrollment in Iowa's Counties: 1980-1993

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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 1980 and 1993, 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 1993, 492,520 students were enrolled in public schools in Iowa (Table 1). This was about 3,300 fewer than the 495,821 reported in 1983. Declines occurred annually from 1980 through 1988, but slight gains took place from 1988 to 1993. About 16,400 more public school students were counted in 1993 than at the low point in 1988 (Figure 1).

Thirty-two counties had more students in public schools in 1993 than 10 years earlier, although only three (Johnson, Polk, Story) had at least 1,000 more. Declines in the other 67 counties ranged from less than 100 in 24 counties to more than 1,000 in Black Hawk and Scott.

Ten counties had at least 10 percent more public school students in 1993 than in 1983; gains in the other 22 ranged from 0.2 percent to 9.3 percent. Thirty-one counties decreased by less than 5 percent from 1983 to 1993. Three (Crawford, Decatur, Pocahontas) declined by at least 15 percent in the last 10 years.

Enrollment in Non-Public Schools

A total of 45,341 non-public school students were enrolled in Iowa in 1993 (Table 2). This was down 6,000 from the 51,339 reported in 1983. In only two year-to-year comparisons during this period was there a slight increase; there were 180 more non-public school students in 1988 than in 1987 and 99 more in 1993 than in 1992.

Thirty counties had no students enrolled in non-public schools from 1980 through 1993 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 could also be that a school did not file an enrollment report. There were seven counties (Cedar, Emmet, Hardin, Jefferson, Keokuk, Poweshiek, Sac) for which non-public school students were reported for some but not all years of the decade.

Table 1. Public School Enrollment in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	1226	1252	1184	1188	1148	1149	1224	1222	1248	1249	1277	1258	1303	1364
Adams	755	728	770	773	767	819	816	792	804	791	776	835	842	900
Allamakee	2776	2774	2762	2744	2770	2744	2798	2809	2882	2891	2982	3085	3098	3383
Appanoose	2461	2524	2518	2502	2485	2542	2575	2532	2473	2542	2595	2636	2712	2798
Audubon	1204	1237	1211	1211	1184	1201	1232	1266	1310	1327	1361	1387	1417	1499
Benton	4121	4362	4322	4325	4297	4191	4233	4278	4306	4330	4439	4534	4735	4923
Black Hawk	18449	18143	18625	18791	18710	18570	18819	18981	19539	20094	20722	21170	21248	21869
Boone	4136	4099	4043	3992	3934	3920	3874	3928	3948	3912	3956	3988	4129	4258
Bremer	5812	5774	5699	5594	5675	5639	5718	5853	6021	6129	6154	6273	6455	6697
Buchanan	3410	3446	3382	3424	3353	3305	3270	3180	3273	3357	3423	3517	3616	3704
Buena Vista	3898	3432	3445	3312	3130	3095	3039	3191	3076	3077	3061	3069	3140	3230
Butler	2643	2656	2667	2769	2741	2827	2790	2778	2846	2918	2994	3055	3193	3291
Calhoun	2698	2609	2602	2460	2465	2324	2482	2520	2536	2580	2634	2659	2822	2913
Carroll	3313	3295	3179	3069	2926	2863	2688	2648	2653	2674	2710	2799	2808	2952
Cass	3188	3194	3261	3236	3238	3162	3215	3200	3228	3248	3299	3347	3457	3566
Cedar	3588	3674	3640	3671	3597	3589	3530	3518	3564	3677	3717	3799	3848	3981
Cerro Gordo	7357	7321	7349	7320	7282	7344	7436	7301	7272	7294	7220	7212	7493	7721
Cherokee	3082	2810	2794	2791	2767	2828	2899	2824	2873	2922	2979	3025	3108	3216
Chickasaw	2352	2346	2339	2367	2359	2388	2422	2477	2566	2613	2684	2771	2863	3061
Clarke	1713	1753	1745	1722	1634	1702	1736	1664	1656	1600	1658	1643	1667	1694
Clay	3071	3458	3450	3419	3392	3366	3249	3245	3349	3349	3359	3339	3402	3513
Clayton	3740	3737	3769	3780	3785	3816	3789	3760	3876	3912	3950	4006	4067	4135
Clinton	9276	9365	9418	9325	9359	9374	9385	9626	9816	9950	10265	10635	10963	11262
Crawford	2928	2956	3210	3243	3279	3428	3498	3577	3640	3622	3636	3729	3752	3788
Dallas	7060	6887	6776	6627	6417	6350	6355	6258	6249	6134	6113	6147	6358	6456
Davis	1388	1410	1423	1398	1365	1430	1440	1473	1492	1514	1534	1573	1600	1608
Decatur	1342	1442	1460	1480	1458	1457	1543	1553	1533	1558	1604	1655	1692	1687
Delaware	3754	3679	3608	3581	3453	3464	3427	3400	3394	3434	3680	3599	3679	3790
Des Moines	7643	7645	7715	7762	7750	7765	7820	7813	7762	7789	7805	8031	8253	8607
Dickinson	2747	2790	2771	2807	2804	2735	2741	2754	2789	2825	2819	2796	2832	2938
Dubuque	12380	12063	11893	11869	12019	12232	12814	13105	12408	12643	12941	13370	13855	14644
Emmet	2260	2247	2271	2278	2324	2332	2308	2300	2369	2655	2516	2557	2657	2677
Fayette	4470	4481	4440	4449	4396	4412	4435	4509	4724	4853	5164	5256	5334	5665
Floyd	3171	3224	3207	3174	3142	3211	3238	3253	3350	3510	3565	3719	3860	4004
Franklin	1862	1968	1941	1985	1856	1762	1733	1808	1806	1819	1887	1865	1896	1945
Fremont	1696	1692	1704	1688	1672	1671	1717	1736	1743	1804	1764	1752	1728	1769
Greene	1975	1949	1996	1905	1887	1894	1841	1934	2019	2063	2023	2103	2223	2329
Grundy	2727	2740	2261	2223	2267	2314	2341	2418	2488	2571	2622	2716	2825	2855
Guthrie	2425	2411	2453	2477	2424	2434	2581	2575	2626	2660	2716	2725	2757	2885
Hamilton	3050	3074	3088	3099	3184	3056	3081	3055	3107	3176	3235	3318	3406	3539
Hancock	2320	2332	2397	2393	2352	2402	2390	2381	2404	2365	2424	2443	2537	2583
Hardin	3714	3707	4022	3956	3956	3959	3787	4055	4086	4230	4362	4452	4532	4786
Harrison	3010	3063	3032	3016	2926	3049	3074	3041	3105	3208	3232	3309	3374	3476
Henry	3904	3960	3861	4161	3668	3618	3593	3637	3607	3585	3597	3645	3672	3764
Howard	2191	2168	2143	2119	2063	2055	2045	2080	2103	2101	2223	2284	2336	2479
Humboldt	1940	1916	1948	1912	1899	1887	1927	1897	1967	1991	2027	2124	2234	2339
Ida	1750	1644	1585	1580	1569	1525	1544	1489	1446	1395	1423	1462	1446	1513
Iowa	2991	2973	2913	2828	2635	2587	2604	2639	2698	2651	2719	2827	2953	3116
Jackson	3732	3725	3675	3621	3588	3655	3753	3730	3809	3998	4203	4205	4321	4455
Jasper	6492	6411	6439	6344	6338	6319	6452	6428	6463	6456	6598	6590	6897	7034

Table 1. Public School Enrollment in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	2011	2014	2102	1977	1976	2020	2017	2036	2120	2246	2282	2349	2467	2596
Johnson	11911	11654	11388	11070	10953	11036	10553	10358	10298	10140	10183	10357	10381	10596
Jones	3523	3337	3211	3214	3304	3279	3315	3367	3470	3517	3546	3637	3702	3950
Keokuk	2440	2399	2437	2447	2436	2410	2429	2395	2451	2450	2402	2362	2480	2618
Kossuth	2727	2685	2679	2702	2649	2561	2487	2583	2718	2754	2807	2883	2986	3183
Lee	6565	6540	6533	6380	6287	6323	6535	6550	6532	6483	6607	6771	6815	7035
Linn	29881	29409	28745	28410	28424	28743	28804	28960	29454	29960	30566	31391	32196	33286
Louisa	2848	2824	2720	2803	2852	2842	2838	2829	2824	2817	2918	2887	3041	3115
Lucas	1620	1580	1583	1574	1607	1587	1655	1647	1647	1678	1701	1733	1769	1832
Lyon	2293	2262	2256	2264	2276	2288	2318	2286	2239	2206	2227	2316	2379	2415
Madison	2795	2845	2847	2813	2846	2857	2840	2836	2824	2835	2819	2810	2917	2972
Mahaska	3321	3367	3286	3294	3273	3241	3223	3259	3262	3323	3304	3280	3235	3314
Marion	5442	5462	5468	5424	5332	5387	5313	5266	5320	5382	5384	5385	5525	5634
Marshall	6373	6414	6721	6816	6751	6775	6947	6936	6959	7124	7358	7473	7655	8043
Mills	2619	2656	2586	2577	2573	2599	2641	2533	2612	2632	2621	2636	2626	2587
Mitchell	1881	1839	1819	1810	1807	1814	1836	1808	1780	1816	1831	1896	1987	2142
Monona	1826	1826	1858	1832	1825	1831	1841	1844	1879	1914	1930	2007	2095	2182
Monroe	1364	1404	1376	1358	1364	1337	1367	1376	1410	1433	1457	1498	1518	1567
Montgomery	2141	2137	2219	2165	2169	2230	2182	2212	2274	2253	2278	2241	2283	2309
Muscatine	7740	7865	7842	7689	7602	7449	7554	7585	7536	7508	7702	7775	7815	7937
O'Brien	2971	2969	2930	2926	2835	2833	2804	2799	2804	2774	2807	2848	2910	2994
Osceola	995	1019	984	955	935	938	959	943	949	971	993	1012	1018	1153
Page	3090	3098	3161	3201	3208	3132	3156	3130	3169	3196	3162	3188	3243	3313
Palo Alto	2100	2079	2076	2048	2035	2070	2106	2001	2038	2087	2150	2220	2326	2465
Plymouth	4431	4364	4322	4182	4081	4067	4047	3932	3894	3888	3865	3993	4057	4265
Pocahontas	1350	1670	1665	1798	1668	1636	1663	1683	1722	1802	1844	1914	1951	2045
Polk	55975	55288	53999	53727	52029	51474	51340	51072	51299	51062	51197	51834	53303	54885
Pottawattamie	16095	16065	16113	15931	15667	15638	15880	15914	15981	16054	16364	16551	17062	17599
Poweshiek	3151	3090	3102	3011	3019	3088	3155	3098	3102	3153	3203	3318	3432	3517
Ringgold	1018	1006	1037	1020	1059	1049	1003	975	1009	1065	1118	1090	1124	1141
Sac	2378	2402	2401	2478	2426	2379	2423	2371	2368	2381	2447	2518	2552	2654
Scott	29535	28508	28422	27841	27703	27634	28112	28386	29035	30002	30567	30783	31522	32336
Shelby	2704	2598	2486	2425	2349	2320	2328	2371	2451	2572	2621	2650	2778	2964
Sioux	4358	4281	3888	4018	3895	3868	3816	3730	3737	3684	3750	3741	3835	3965
Story	10910	11097	10506	10166	9973	9828	9758	9513	9543	9502	9577	9638	9888	10252
Tama	3074	3507	3305	3279	3354	3348	3378	3412	3460	3536	3586	3678	3830	3988
Taylor	1314	1291	1338	1368	1410	1469	1503	1429	1493	1510	1494	1518	1548	1597
Union	2350	2321	2392	2375	2452	2447	2463	2483	2494	2568	2574	2568	2598	2674
Van Buren	1478	1449	1431	1419	1419	1441	1471	1487	1503	1531	1540	1570	1618	1686
Wapello	6614	6683	6667	6544	6537	6562	6795	6909	7121	7306	7313	7403	7556	7856
Warren	7568	7312	7261	7127	6941	7027	7144	6994	6955	6956	7048	7127	7264	7467
Washington	3501	3455	3495	3455	3373	3392	3403	3411	3398	3447	3470	3548	3579	3702
Wayne	1202	1249	1280	1247	1206	1201	1209	1237	1259	1307	1368	1396	1399	1414
Webster	6099	6052	6069	6130	6093	6164	6138	6283	6278	6359	6457	6607	7029	7358
Winnebago	2920	2892	2860	2901	2844	2766	2795	2771	2759	2744	2758	2751	2829	2975
Winneshiak	2870	2780	2725	2663	2605	2647	2598	2590	2573	2540	2572	2704	2771	2882
Woodbury	17880	18030	18203	17661	17618	17422	17485	17169	16984	16953	17146	17062	17401	17994
Worth	1201	1237	1217	1137	1131	1183	1184	1246	1279	1296	1300	1351	1409	1429
Wright	2876	2813	2818	2759	2745	2721	2870	2786	2876	2910	2960	2983	3075	3212
State of Iowa	492520	489670	486235	482171	476605	476114	478982	479282	483444	488673	495821	503545	516174	533756

Table 2. Non-Public School Enrollment in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	0	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	0
Allamakee	175	194	197	187	183	199	192	207	219	214	217	215	190	185
Appanoose	66	57	54	89	88	81	111	110	95	106	119	113	113	108
Audubon	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benton	128	132	123	161	152	143	139	102	131	144	149	156	151	164
Black Hawk	3674	3727	3731	3832	3715	3806	3809	3754	3725	3827	3858	3776	3726	3781
Boone	245	242	252	277	306	331	337	329	329	338	317	285	264	242
Bremer	252	247	263	375	376	393	399	391	301	322	336	405	395	397
Buchanan	267	245	267	252	260	311	315	340	375	390	422	446	448	430
Buena Vista	440	346	327	335	295	325	353	356	348	367	365	364	358	372
Butler	0	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	0
Carroll	1814	1807	1848	1862	1884	1877	1959	1989	2013	2075	2138	2226	2331	2441
Cass	0	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	11	11
Cerro Gordo	779	823	793	773	813	733	667	822	732	757	750	758	671	674
Cherokee	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chickasaw	139	156	165	166	177	190	175	187	195	206	222	220	238	240
Clarke	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clay	127	144	153	152	155	173	194	185	178	189	193	195	203	214
Clayton	154	155	162	160	164	167	173	168	158	179	183	184	193	207
Clinton	521	534	545	570	569	643	737	828	900	939	940	950	906	965
Crawford	335	326	310	354	351	352	376	363	361	403	445	417	422	433
Dallas	171	169	177	277	294	306	311	218	200	236	245	236	212	218
Davis	0	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	0
Delaware	338	337	341	322	333	312	298	303	285	280	255	260	277	279
Des Moines	463	415	396	403	368	464	491	511	446	451	407	443	494	482
Dickinson	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dubuque	6024	6172	6357	6148	6572	6747	6649	6895	7244	7506	7807	8046	8472	8762
Emmet	36	37	45	48	22	18	20	28	23	0	0	0	0	0
Fayette	289	297	292	306	335	352	339	340	325	344	330	331	335	342
Floyd	185	200	210	244	262	283	237	256	252	250	267	279	280	265
Franklin	47	47	44	59	52	62	59	32	34	39	36	41	27	28
Fremont	0	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	0
Grundy	42	55	61	74	74	82	78	70	72	69	70	67	58	49
Guthrie	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hamilton	102	113	83	84	97	105	92	103	105	93	96	100	105	105
Hancock	57	62	70	75	74	60	56	61	62	69	70	66	72	67
Hardin	0	0	0	0	0	0	0	0	0	0	0	0	14	15
Harrison	49	54	45	56	65	65	68	78	78	73	65	64	65	59
Henry	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Howard	143	174	214	263	262	279	301	298	295	287	289	291	306	313
Humboldt	204	184	181	170	132	134	147	149	147	152	142	120	121	127
Ida	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iowa	197	199	196	222	218	228	191	219	224	236	247	238	243	240
Jackson	533	540	549	559	595	593	605	608	631	642	662	634	660	676
Jasper	181	179	200	212	221	239	220	226	230	234	218	213	205	210

Table 2. Non-Public School Enrollment in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	651	415	418	0	575	493	353	293	218	262	246	104	0	0
Johnson	764	756	720	766	633	609	583	571	584	586	601	604	586	610
Jones	223	214	218	242	225	244	267	282	264	268	274	268	280	286
Keokuk	0	0	0	0	0	15	0	0	0	0	95	102	102	111
Kossuth	846	904	956	934	967	1065	1287	1130	1180	1218	1294	1328	1370	1425
Lee	986	966	966	1053	1079	1148	1143	1195	1234	1350	1383	1382	1413	1390
Linn	3013	2977	2953	3089	2973	3084	3080	3130	3162	3277	3286	3328	3359	3389
Louisa	0	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	0
Lyon	132	145	126	125	156	158	163	174	189	186	188	187	183	175
Madison	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mahaska	195	202	208	220	211	221	227	213	197	190	192	203	189	183
Marion	847	847	831	838	826	837	812	795	785	784	778	748	736	729
Marshall	343	359	377	375	383	364	347	350	361	383	410	418	396	301
Mills	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mitchell	171	177	190	195	201	199	232	247	243	240	252	250	240	255
Monona	75	76	72	79	68	88	81	88	88	88	90	93	91	91
Monroe	0	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	0
Muscatine	216	197	230	223	223	252	270	263	256	272	269	261	279	268
O'Brien	485	487	508	548	573	596	593	560	547	516	547	559	550	565
Osceola	49	53	55	57	73	94	101	110	112	103	114	114	116	122
Page	81	89	87	87	91	95	99	109	93	107	111	100	94	76
Palo Alto	255	259	261	279	276	276	268	263	262	275	272	259	259	268
Plymouth	994	992	982	1001	1014	1004	1021	1051	1046	1058	1082	1096	1097	1139
Pocahontas	103	194	189	181	175	131	137	135	150	148	150	154	177	186
Polk	4614	4588	4946	5197	5091	5302	5278	5617	5646	5714	5689	5586	5480	5529
Pottawattamie	949	939	913	991	1023	1038	1081	1048	903	922	944	902	936	926
Poweshiek	11	13	22	35	21	17	13	9	8	8	0	0	0	0
Ringgold	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sac	0	0	0	0	54	61	61	55	55	68	78	79	63	67
Scott	2786	2736	2691	2880	2999	2712	2683	2674	2805	2728	2796	2901	2978	2908
Shelby	327	339	339	319	323	342	350	335	335	347	374	399	408	404
Sioux	2946	2853	2892	2809	2869	2840	2686	2663	2634	2608	2354	2380	2423	2459
Story	183	168	167	182	197	186	186	173	184	185	189	190	187	191
Tama	0	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	0
Union	118	114	123	128	130	127	146	130	94	96	105	119	125	122
Van Buren	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wapello	142	129	120	136	142	150	143	150	102	107	138	137	137	106
Warren	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington	264	279	272	299	307	315	284	314	312	295	296	289	280	286
Wayne	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Webster	1225	1184	1166	1238	1260	1478	1308	1318	1375	1385	1435	1436	1491	1508
Winnebago	22	19	17	16	13	13	11	14	12	12	12	9	10	11
Winneshiek	486	517	529	605	558	548	543	560	561	537	537	532	533	525
Woodbury	2662	2686	2678	2730	2786	2833	2873	2909	2848	2928	2898	2839	2822	2792
Worth	0	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	0
State of Iowa	45341	45242	45873	46924	47959	48988	48808	49454	49558	50668	51339	51495	51956	52504

Table 3. Total (Public and Non-Public) School Enrollment in Iowa Counties, 1980-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	1226	1252	1184	1188	1148	1149	1224	1222	1248	1249	1277	1258	1303	1364
Adams	755	728	770	773	767	819	816	792	804	791	776	835	842	900
Allamakee	2951	2968	2959	2931	2953	2943	2990	3016	3101	3105	3199	3300	3288	3568
Appanoose	2527	2581	2572	2591	2573	2623	2686	2642	2568	2648	2714	2749	2825	2906
Audubon	1204	1237	1211	1211	1184	1201	1232	1266	1310	1327	1361	1387	1417	1499
Benton	4249	4494	4445	4486	4449	4334	4372	4380	4437	4474	4588	4690	4886	5087
Black Hawk	22123	21870	22356	22623	22425	22376	22628	22735	23264	23921	24580	24946	24974	25650
Boone	4381	4341	4295	4269	4240	4251	4211	4257	4277	4250	4273	4273	4393	4500
Bremer	6064	6021	5962	5969	6051	6032	6117	6244	6322	6451	6490	6678	6850	7094
Buchanan	3677	3691	3649	3676	3613	3616	3585	3520	3648	3747	3845	3963	4064	4134
Buena Vista	4338	3778	3772	3647	3425	3420	3392	3547	3424	3444	3426	3433	3498	3602
Butler	2643	2656	2667	2769	2741	2827	2790	2778	2846	2918	2994	3055	3193	3291
Calhoun	2698	2609	2602	2460	2465	2324	2482	2520	2536	2580	2634	2659	2822	2913
Carroll	5127	5102	5027	4931	4810	4740	4647	4637	4666	4749	4848	5025	5139	5393
Cass	3188	3194	3261	3236	3238	3162	3215	3200	3228	3248	3299	3347	3457	3566
Cedar	3588	3674	3640	3671	3597	3589	3530	3518	3564	3677	3717	3799	3859	3992
Cerro Gordo	8136	8144	8142	8093	8095	8077	8103	8123	8004	8051	7970	7970	8164	8395
Cherokee	3082	2810	2794	2791	2767	2828	2899	2824	2873	2922	2979	3025	3108	3216
Chickasaw	2491	2502	2504	2533	2536	2578	2597	2664	2761	2819	2906	2991	3101	3301
Clarke	1713	1753	1745	1722	1634	1702	1736	1664	1656	1600	1658	1643	1667	1694
Clay	3198	3602	3603	3571	3547	3539	3443	3430	3527	3538	3552	3534	3605	3727
Clayton	3894	3892	3931	3940	3949	3983	3962	3928	4034	4091	4133	4190	4260	4342
Clinton	9797	9899	9963	9895	9928	10017	10122	10454	10716	10889	11205	11585	11869	12227
Crawford	3263	3282	3520	3597	3630	3780	3874	3940	4001	4025	4081	4146	4174	4221
Dallas	7231	7056	6953	6904	6711	6656	6666	6476	6449	6370	6358	6383	6570	6674
Davis	1388	1410	1423	1398	1365	1430	1440	1473	1492	1514	1534	1573	1600	1608
Decatur	1342	1442	1460	1480	1458	1457	1543	1553	1533	1558	1604	1655	1692	1687
Delaware	4092	4016	3949	3903	3786	3776	3725	3703	3679	3714	3935	3859	3956	4069
Des Moines	8106	8060	8111	8165	8118	8229	8311	8324	8208	8240	8212	8474	8747	9089
Dickinson	2747	2790	2771	2807	2804	2735	2741	2754	2789	2825	2819	2796	2832	2938
Dubuque	18404	18235	18250	18017	18591	18979	19463	20000	19652	20149	20748	21416	22327	23406
Emmet	2296	2284	2316	2326	2346	2350	2328	2328	2392	2655	2516	2557	2657	2677
Fayette	4759	4778	4732	4755	4731	4764	4774	4849	5049	5197	5494	5587	5669	6007
Floyd	3356	3424	3417	3418	3404	3494	3475	3509	3602	3760	3832	3998	4140	4269
Franklin	1909	2015	1985	2044	1908	1824	1792	1840	1840	1858	1923	1906	1923	1973
Fremont	1696	1692	1704	1688	1672	1671	1717	1736	1743	1804	1764	1752	1728	1769
Greene	1975	1949	1996	1905	1887	1894	1841	1934	2019	2063	2023	2103	2223	2329
Grundy	2769	2795	2322	2297	2341	2396	2419	2488	2560	2640	2692	2783	2883	2904
Guthrie	2425	2411	2453	2477	2424	2434	2581	2575	2626	2660	2716	2725	2757	2885
Hamilton	3152	3187	3171	3183	3281	3161	3173	3158	3212	3269	3331	3418	3511	3644
Hancock	2377	2394	2467	2468	2426	2462	2446	2442	2466	2434	2494	2509	2609	2650
Hardin	3714	3707	4022	3956	3956	3959	3787	4055	4086	4230	4362	4452	4546	4801
Harrison	3059	3117	3077	3072	2991	3114	3142	3119	3183	3281	3297	3373	3439	3535
Henry	3904	3960	3861	4161	3668	3618	3593	3637	3607	3585	3597	3645	3672	3764
Howard	2334	2342	2357	2382	2325	2334	2346	2378	2398	2388	2512	2575	2642	2792
Humboldt	2144	2100	2129	2082	2031	2021	2074	2046	2114	2143	2169	2244	2355	2466
Ida	1750	1644	1585	1580	1569	1525	1544	1489	1446	1395	1423	1462	1446	1513
Iowa	3188	3172	3109	3050	2853	2815	2795	2858	2922	2887	2966	3065	3196	3356
Jackson	4265	4265	4224	4180	4183	4248	4358	4338	4440	4640	4865	4839	4981	5131
Jasper	6673	6590	6639	6556	6559	6558	6672	6654	6693	6690	6816	6803	7102	7244

Table 3. Total (Public and Non-Public) School Enrollment in Iowa Counties, 1980-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	2662	2429	2520	1977	2551	2513	2370	2329	2338	2508	2528	2453	2467	2596
Johnson	12675	12410	12108	11836	11586	11645	11136	10929	10882	10726	10784	10961	10967	11206
Jones	3746	3551	3429	3456	3529	3523	3582	3649	3734	3785	3820	3905	3982	4236
Keokuk	2440	2399	2437	2447	2436	2425	2429	2395	2451	2450	2497	2464	2582	2729
Kossuth	3573	3589	3635	3636	3616	3626	3774	3713	3898	3972	4101	4211	4356	4608
Lee	7551	7506	7499	7433	7366	7471	7678	7745	7766	7833	7990	8153	8228	8425
Linn	32894	32386	31698	31499	31397	31827	31884	32090	32616	33237	33852	34719	35555	36675
Louisa	2848	2824	2720	2803	2852	2842	2838	2829	2824	2817	2918	2887	3041	3115
Lucas	1620	1580	1583	1574	1607	1587	1655	1647	1647	1678	1701	1733	1769	1832
Lyon	2425	2407	2382	2389	2432	2446	2481	2460	2428	2392	2415	2503	2562	2590
Madison	2795	2845	2847	2813	2846	2857	2840	2836	2824	2835	2819	2810	2917	2972
Mahaska	3516	3569	3494	3514	3484	3462	3450	3472	3459	3513	3496	3483	3424	3497
Marion	6289	6309	6299	6262	6158	6224	6125	6061	6105	6166	6162	6133	6261	6363
Marshall	6716	6773	7098	7191	7134	7139	7294	7286	7320	7507	7768	7891	8051	8344
Mills	2619	2656	2586	2577	2573	2599	2641	2533	2612	2632	2621	2636	2626	2587
Mitchell	2052	2016	2009	2005	2008	2013	2068	2055	2023	2056	2083	2146	2227	2397
Monona	1901	1902	1930	1911	1893	1919	1922	1932	1967	2002	2020	2100	2186	2273
Monroe	1364	1404	1376	1358	1364	1337	1367	1376	1410	1433	1457	1498	1518	1567
Montgomery	2141	2137	2219	2165	2169	2230	2182	2212	2274	2253	2278	2241	2283	2309
Muscatine	7956	8062	8072	7912	7825	7701	7824	7848	7792	7780	7971	8036	8094	8205
O'Brien	3456	3456	3438	3474	3408	3429	3397	3359	3351	3290	3354	3407	3460	3559
Osceola	1044	1072	1039	1012	1008	1032	1060	1053	1061	1074	1107	1126	1134	1275
Page	3171	3187	3248	3288	3299	3227	3255	3239	3262	3303	3273	3288	3337	3389
Palo Alto	2355	2338	2337	2327	2311	2346	2374	2264	2300	2362	2422	2479	2585	2733
Plymouth	5425	5356	5304	5183	5095	5071	5068	4983	4940	4946	4947	5089	5154	5404
Pocahontas	1453	1864	1854	1979	1843	1767	1800	1818	1872	1950	1994	2068	2128	2231
Polk	60589	59876	58945	58924	57120	56776	56618	56689	56945	56776	56886	57420	58783	60414
Pottawattamie	17044	17004	17026	16922	16690	16676	16961	16962	16884	16976	17308	17453	17998	18525
Poweshiek	3162	3103	3124	3046	3040	3105	3168	3107	3110	3161	3203	3318	3432	3517
Ringgold	1018	1006	1037	1020	1059	1049	1003	975	1009	1065	1118	1090	1124	1141
Sac	2378	2402	2401	2478	2480	2440	2484	2426	2423	2449	2525	2597	2615	2721
Scott	32321	31244	31113	30721	30702	30346	30795	31060	31840	32730	33363	33684	34500	35244
Shelby	3031	2937	2825	2744	2672	2662	2678	2706	2786	2919	2995	3049	3186	3368
Sioux	7304	7134	6780	6827	6764	6708	6502	6393	6371	6292	6104	6121	6258	6424
Story	11093	11265	10673	10348	10170	10014	9944	9686	9727	9687	9766	9828	10075	10443
Tama	3074	3507	3305	3279	3354	3348	3378	3412	3460	3536	3586	3678	3830	3988
Taylor	1314	1291	1338	1368	1410	1469	1503	1429	1493	1510	1494	1518	1548	1597
Union	2468	2435	2515	2503	2582	2574	2609	2613	2588	2664	2679	2687	2723	2796
Van Buren	1478	1449	1431	1419	1419	1441	1471	1487	1503	1531	1540	1570	1618	1686
Wapello	6756	6812	6787	6680	6679	6712	6938	7059	7223	7413	7451	7540	7693	7962
Warren	7568	7312	7261	7127	6941	7027	7144	6994	6955	6956	7048	7127	7264	7467
Washington	3765	3734	3767	3754	3680	3707	3687	3725	3710	3742	3766	3837	3859	3988
Wayne	1202	1249	1280	1247	1206	1201	1209	1237	1259	1307	1368	1396	1399	1414
Webster	7324	7236	7235	7368	7353	7642	7446	7601	7653	7744	7892	8043	8520	8866
Winnebago	2942	2911	2877	2917	2857	2779	2806	2785	2771	2756	2770	2760	2839	2986
Winneshiak	3356	3297	3254	3268	3163	3195	3141	3150	3134	3077	3109	3236	3304	3407
Woodbury	20542	20716	20881	20391	20404	20255	20358	20078	19832	19881	20044	19901	20223	20786
Worth	1201	1237	1217	1137	1131	1183	1184	1246	1279	1296	1300	1351	1409	1429
Wright	2876	2813	2818	2759	2745	2721	2870	2786	2876	2910	2960	2983	3075	3212
State of Iowa	537861	534912	532108	529095	524564	525102	527790	528736	533002	539341	547160	555040	568130	586260

Of the 67 counties with non-public school students in both 1983 and in 1993, 18 had increases among these students and 49 had decreases. Gains ranged from less than 50 in 10 counties to more than 100 in three (Jefferson, Johnson, Sioux). Declines had a much greater range; 16 counties had decreases among non-public school students that were less than 50, but 14 dropped by more than 100. The greatest decrease occurred in Dubuque (-1,783); losses of 400-1,100 occurred in Clinton, Kossuth, and Polk.

Total School Enrollment

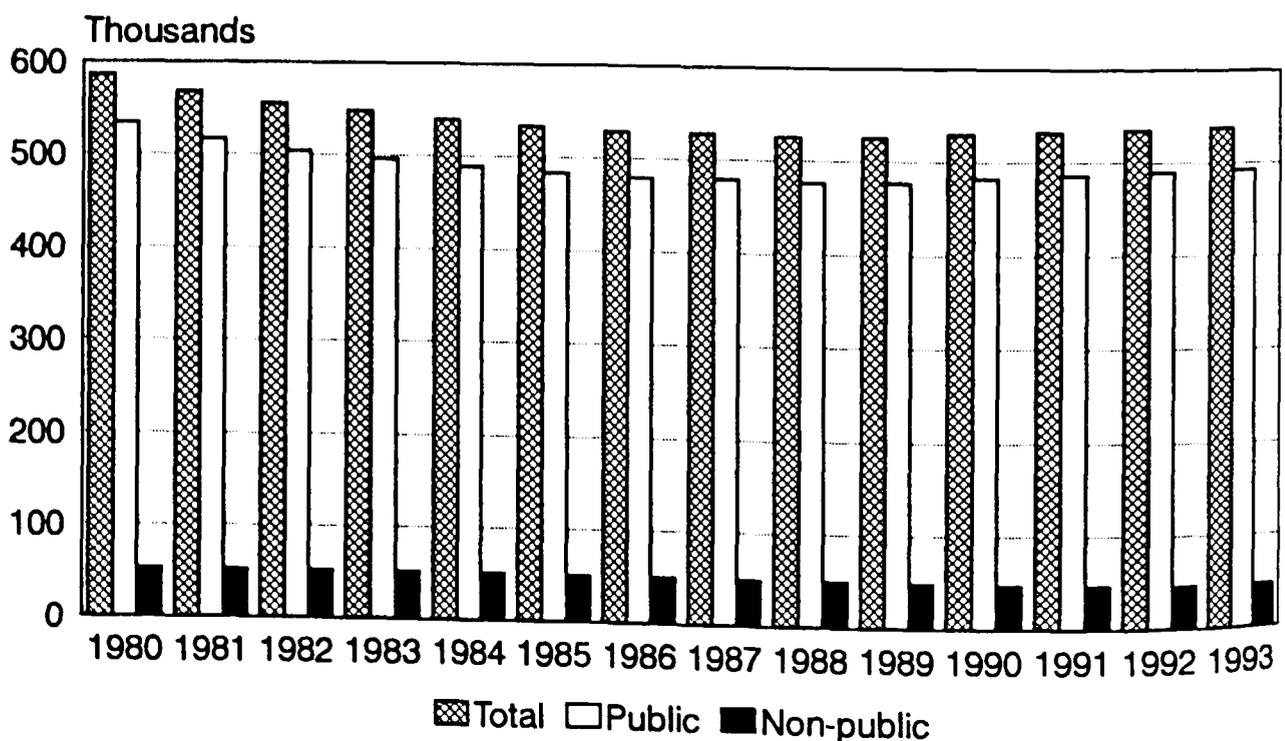
When the public and non-public figures are added, the total enrollment was 547,160 in 1983 and 537,861 in 1993 (Table 3). Increases in total student numbers occurred from 1989 to 1993 but decreases took place in the remainder of the 1980s.

In 1993, nine counties (Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, Story, Woodbury) each had more than 10,000 students; together, they had 42.3 percent of the state's total enrollees. Twenty counties had fewer than 2,000 students, although only Adams (755) was below 1,000.

The total number of students increased in 28 counties when 1983 and 1993 were compared. Four of these (Johnson, Polk, Sioux, 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; only 10 of the 71 counties with fewer students in 1993 than in 1983 dropped by less than 50. Five (Black Hawk, Clinton, Dubuque, Marshall, Scott) were down by at least 1,000. Another 10 counties had at least 500 fewer total students enrolled in 1993 than in 1983.

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, 1980-1993.



Estimates of Public Secondary School Dropouts in Iowa's Counties: 1980-1993

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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 1993 dropouts are those who left school between 1 July 1992 and 30 June 1993. 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 4,768 for 1993 (Table 1). That's the lowest number of Iowa dropouts during the 11 years from 1983 through 1993. In that period, the number of dropouts has ranged within 500 of the total recorded in 1983 except for 1989 (Figure 1).

Scott had the highest number of dropouts in 1993, while Polk had the greatest number during the 10 previous years. 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. Adair, Audubon, Hancock, Ida, Lyon, Osceola, Pocahontas, Ringgold, Taylor, and Worth had 10 or fewer dropouts in at least 10 of the 11 years.

The state as a whole and all counties had years between 1983 and 1993 when the number of dropouts increased and other years when the number decreased. Fifty counties had fewer dropouts in 1993 than in 1983. Of these 50 counties, 39 had decreases of fewer than 20 dropouts. Linn (-330) and Polk (-225) had at least 100 fewer dropouts in 1993 than in 1983. Forty-three counties had more dropouts in 1993 than in 1983, although only Black Hawk, Scott, and Woodbury reported at least 100 more dropouts in 1993 than 10 years earlier.

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 1983 and 1991, although it increased from 1991 to 1993. Ninety-three of Iowa's 99 counties had fewer secondary enrollees in 1993 than in 1983. Comparisons of 1983 with 1993 revealed that there were nearly 36,000 fewer secondary school students in Iowa at the end of the period than at the beginning; declines were greater than 1,000 enrollees in eight counties (Black Hawk, Clinton, Dubuque, Linn, Marshall, Polk, Scott, Woodbury). Linn (-3,721) was the only county that decreased by at least 3,000. Five counties (Buena Vista, Franklin, Fremont, Page, Plymouth) recorded increases in secondary enrollees between 1983 and 1993; only Buena Vista (+113) increased by more than 60 secondary students.

Percentage of Dropouts

In 1993, 2.2 percent of public secondary enrollees in Iowa became dropouts (Table 2). Only 1983 (2.0%) and 1984 (2.1%) had lower percentages. The proportion of dropouts for Iowa increased between 1983 and 1987 then remained relatively stable until the decline across the three most recent years for which data were available (Figure 2).

There were significant variations among the counties in the percentage of students that dropped out. Twenty-three counties had fewer than 1 percent of their secondary students leave school in 1993. Black Hawk had the highest dropout rate (7.0%). Eight (Appanoose, Dallas, Jefferson, Lee, Muscatine, Scott, Wapello, Woodbury) had percentages ranging from 3.0 to 5.1.

More than half (51) of Iowa's counties had a higher percentage of students drop out in 1993 than in 1983 while 39 counties were lower and nine 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 published annually in the IOWA GUIDANCE SURVEYS by the Division of Instructional Services in the Iowa Department of Education (Grimes State Office Building, Des Moines, IA 50319).

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1983-1993.¹

County	1993 ²		1992		1991		1990		1989		1988		1987		1986		1985		1984		1983	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Adair	12	586	2	530	3	519	4	489	0	487	0	519	4	529	6	561	2	574	3	589	6	616
Adams	2	315	12	302	9	300	12	361	3	356	3	367	3	365	4	350	1	364	5	368	0	401
Allamakee	18	1286	11	1268	25	1233	13	1313	26	1309	12	1344	17	1362	15	1459	11	1499	15	1569	20	1655
Appanoose	43	1160	42	1144	41	1089	45	1186	34	1188	31	1219	59	1221	24	1154	33	1193	34	1234	19	1242
Audubon	6	542	1	534	8	513	0	507	6	522	5	542	2	575	6	600	4	648	10	687	5	733
Benton	41	1868	26	1761	30	1770	33	1874	26	1832	33	1864	21	1960	28	2013	39	2159	39	2257	37	2307
Black Hawk	549	7813	546	7813	493	7668	488	7653	516	8075	422	8316	388	8446	374	8647	454	9268	355	9476	345	9777
Boone	43	1755	23	1677	21	1639	34	1729	45	1784	30	1825	43	1900	30	1915	38	2024	41	1993	60	2027
Bremer	20	2616	13	2568	17	2457	32	2615	21	2665	27	2716	29	2879	29	3011	31	3144	20	3208	26	3236
Buchanan	41	1496	24	1485	19	1454	21	1518	28	1462	28	1457	35	1488	22	1532	37	1605	40	1656	41	1710
Buena Vista	36	1543	34	1457	30	1423	30	1505	26	1421	24	1339	27	1375	18	1400	17	1476	13	1420	9	1430
Butler	6	1151	5	1188	13	1144	11	1146	11	1239	8	1683	9	1334	8	1354	10	1431	18	1499	6	1527
Calhoun	6	1219	3	1145	13	1064	10	1066	8	1066	8	1111	7	1130	5	1191	9	1289	8	1310	10	1331
Carroll	15	1350	10	1231	10	1130	10	1164	10	1165	15	1165	15	1177	14	1167	20	1260	12	1295	15	1370
Cass	22	1432	19	1391	26	1334	18	1367	27	1391	24	1444	21	1459	18	1475	18	1531	21	1602	16	1632
Cedar	19	1674	23	1636	22	1574	11	1575	10	1593	18	1576	14	1618	20	1659	27	1781	23	1836	22	1911
Cerro Gordo	66	3012	80	2956	96	2905	70	3160	93	3194	60	3231	223	3269	74	3520	101	3623	77	3471	127	3402
Cherokee	8	1248	17	1219	16	1206	19	1228	18	1196	19	1276	8	1267	8	1332	12	1362	15	1419	16	1449
Chickasaw	5	1110	15	1068	17	1075	9	1099	15	1136	13	1187	16	1244	17	1299	15	1369	10	1431	14	1487
Clarke	8	761	17	775	12	746	20	727	10	720	7	743	12	767	4	804	9	771	11	816	8	798
Clay	19	1653	25	1595	15	1495	17	1469	25	1459	19	1421	37	1429	19	1535	21	1574	32	1640	28	1676
Clayton	20	1738	16	1704	28	1680	11	1746	19	1732	16	1726	16	1744	19	1744	23	1828	27	1900	31	1938
Clinton	87	4064	133	4075	175	3914	92	4229	109	4227	77	4345	103	4576	89	4815	92	5037	94	5192	130	5375
Crawford	14	1407	42	1505	18	1491	21	1551	12	1559	16	1691	10	1715	10	1749	13	1781	18	1792	18	1833
Dallas	98	2929	69	2774	64	2697	40	2705	30	2736	67	2759	62	2874	75	2946	39	3018	46	2999	60	3007
Davis	13	637	9	651	13	606	15	670	9	667	11	694	11	694	12	702	14	728	13	744	26	744
Decatur	13	640	12	690	14	642	13	643	12	664	13	725	11	716	9	720	13	758	18	817	13	817
Delaware	13	1600	8	1536	21	1471	18	1484	26	1521	23	1543	35	1625	26	1740	28	1809	18	1855	29	1916
Des Moines	53	3199	48	3179	70	3113	68	3573	79	3469	55	3581	116	3917	178	3790	179	3994	189	3791	124	3962
Dickinson	13	1315	16	1246	12	1199	12	1277	10	1245	25	1184	15	1274	15	1306	14	1350	15	1333	14	1342
Dubuque	148	5842	116	5635	130	5546	140	6088	201	6262	150	6554	146	6781	145	6845	205	7119	170	7191	207	7409
Emmet	10	1087	11	1064	16	1018	18	1100	17	1110	24	1124	12	1145	18	1129	21	1189	10	1221	18	1223
Fayette	39	2124	25	2026	19	2003	27	2036	17	2072	32	2189	28	2257	15	2384	33	2497	46	2653	36	2764
Floyd	28	1521	32	1483	33	1443	33	1540	27	1630	33	1683	28	1611	20	1745	17	1867	39	1888	52	1962
Franklin	12	900	18	873	19	852	9	821	12	757	8	770	7	810	16	819	12	828	9	890	9	899
Fremont	12	802	10	802	10	721	14	752	12	769	16	780	23	768	11	805	12	820	11	792	6	779

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1983-1993¹ (continued).

County	1993 ²		1992		1991		1990		1989		1988		1987		1986		1985		1984		1983	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Greene	8	818	13	817	10	776	23	809	14	792	9	828	6	866	10	931	8	1009	13	1017	20	1067
Grundy	12	1303	8	1047	8	1008	4	1063	8	1090	7	1117	3	1160	8	1210	13	1296	7	1324	17	1390
Guthrie	7	1081	13	1083	16	1101	10	1087	8	1083	20	1122	14	1148	8	1242	8	1288	21	1338	14	1316
Hamilton	23	1406	25	1322	19	1305	20	1380	29	1405	15	1463	16	1498	25	1534	27	1580	10	1619	8	1680
Hancock	7	1102	4	1111	6	1087	7	1053	2	1082	5	1075	5	1072	5	1064	7	1098	5	1123	2	1139
Hardin	33	1685	24	1739	18	1657	18	1764	25	1786	14	1871	21	1905	15	1986	19	2105	23	2191	22	2231
Harrison	22	1380	27	1381	19	1350	24	1391	27	1400	26	1453	26	1525	32	1566	33	1625	23	1642	19	1683
Henry	28	1769	21	1680	27	1636	32	1661	34	1657	18	1670	24	1693	27	1735	32	1712	26	1732	22	1769
Howard	10	1061	3	991	4	970	10	968	7	884	4	922	9	979	6	1020	2	1072	17	1164	7	1239
Humboldt	11	866	8	841	7	858	6	839	11	847	11	859	9	891	9	959	18	1008	10	1069	16	1133
Ida	1	664	2	652	6	649	3	689	3	683	6	654	5	657	3	658	0	660	2	659	5	687
Iowa	6	1244	6	1196	3	1146	11	1125	11	1132	8	1193	6	1250	10	1288	12	1352	12	1438	9	1499
Jackson	28	1751	25	1722	26	1666	30	1721	38	1780	24	1749	27	1848	23	1930	32	1998	25	2192	35	2187
Jasper	56	2949	39	2875	57	2768	114	2948	83	2933	120	3099	99	3124	85	3130	78	3228	64	3269	85	3298
Jefferson	33	843	24	795	20	797	23	855	30	866	22	949	18	1001	22	1052	19	1100	11	1134	12	1126
Johnson	64	4705	46	4490	47	4239	177	4636	135	4610	130	4740	94	4869	123	4739	87	4792	87	4833	42	4944
Jones	34	1634	18	1461	22	1471	34	1609	14	1559	28	1606	28	1730	14	1788	14	1856	17	1913	18	1983
Keokuk	13	1073	15	1018	14	1010	6	1042	12	1084	10	1095	12	1095	14	1128	10	1185	6	1202	11	1239
Kossuth	13	1195	9	1131	8	1101	17	1123	11	1101	10	1109	16	1178	21	1211	13	1303	10	1366	10	1407
Lee	94	2912	81	2851	83	2696	88	2993	101	2845	77	2946	103	3044	105	3117	114	3182	102	3200	86	3296
Linn	135	12557	218	12098	149	11930	292	13815	433	14302	331	14150	414	14443	345	14943	308	15559	299	15912	465	16278
Louisa	13	1319	25	1213	24	1179	36	1268	39	1236	37	1298	27	1288	25	1308	32	1350	36	1381	41	1413
Lucas	15	754	10	701	12	675	18	714	26	726	25	775	19	761	24	798	32	817	26	836	31	872
Lyon	5	1031	4	1020	9	972	5	979	2	974	8	998	4	1026	1	1054	4	1071	4	1081	4	1103
Madison	8	1304	9	1217	21	1232	27	1302	14	1268	30	1326	25	1317	19	1325	25	1335	15	1346	21	1343
Mahaska	35	1388	28	1346	28	1370	24	1369	40	1376	39	1420	50	1482	28	1497	45	1542	46	1522	52	1574
Marion	34	2364	38	2347	32	2313	45	2346	32	2380	39	2431	44	2401	35	2467	48	2574	44	2620	31	2606
Marshall	22	2817	45	2795	70	2711	97	3087	109	3083	75	3181	66	3375	59	3474	55	3765	67	3859	63	3831
Mills	25	1160	25	1115	18	1165	20	1179	17	1175	17	1206	14	1193	26	1287	9	1237	13	1234	12	1184
Mitchell	10	858	9	843	10	816	14	840	3	903	8	917	1	917	8	915	10	927	13	961	12	975
Monona	19	834	14	832	16	835	14	851	12	848	13	872	13	874	13	921	21	930	15	939	22	980
Monroe	14	590	19	579	12	551	15	591	11	576	15	585	29	611	19	654	15	693	23	723	23	734
Montgomery	13	986	23	963	16	881	16	985	15	971	20	983	22	986	23	1003	13	1023	38	1070	26	1039
Muscatine	114	3446	87	3288	80	3144	86	3253	118	3386	97	3414	83	3413	110	3342	127	3508	156	3634	100	3671
O'Brien	21	1336	16	1295	16	1294	16	1343	20	1322	10	1346	14	1344	8	1357	7	1377	21	1424	12	1454
Osceola	7	433	2	408	7	391	9	441	3	433	8	457	3	469	2	455	1	498	2	490	2	506

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1983-1993¹ (continued).

County	1993 ²		1992		1991		1990		1989		1988		1987		1986		1985		1984		1983	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Page	33	1506	28	1482	41	1454	33	1530	37	1495	37	1485	30	1463	21	1475	26	1509	29	1478	29	1447
Palo Alto	11	1021	11	959	12	955	7	952	18	941	7	935	4	949	8	974	7	1035	15	1109	13	1157
Plymouth	14	1972	19	1887	24	1788	32	1816	36	1818	9	1800	16	1798	22	1847	17	1895	19	1908	13	1939
Pocahontas	6	748	10	729	9	812	13	758	4	779	7	839	2	838	3	869	3	930	5	967	6	1028
Polk	579	23006	820	21952	994	21201	889	23436	952	23710	1064	23888	1082	24939	1124	25705	1125	26111	924	26365	804	25965
Pottawattamie	120	6633	113	6516	175	6225	255	6421	332	6620	376	6863	348	6877	376	7194	302	7172	287	7501	190	7474
Poweshiek	27	1369	28	1257	31	1252	21	1333	29	1394	34	1498	20	1502	15	1561	25	1580	16	1593	23	1645
Ringgold	13	449	10	457	3	413	3	432	8	446	2	459	3	471	3	490	6	484	3	521	8	519
Sac	19	1098	11	1080	8	1006	7	1025	16	1032	6	1024	12	1052	11	1086	10	1124	6	1196	7	1237
Scott	631	12300	527	12106	540	11811	523	12558	511	12545	526	12996	454	13429	435	13900	480	14538	433	15073	436	14896
Shelby	12	1224	3	1218	8	1083	17	1111	18	1236	19	1200	19	1245	0	1267	19	1380	14	1452	18	1498
Sioux	16	1830	16	1478	13	1614	15	1653	13	1675	14	1673	16	1669	12	1690	13	1774	12	1867	14	1835
Story	58	4617	43	4291	57	4126	48	4155	42	4228	52	4249	45	4263	53	4494	59	4676	60	4709	68	4695
Tama	31	1556	32	1506	21	1468	18	1473	16	1407	11	1624	36	1649	37	1658	35	1740	25	1842	49	1917
Taylor	2	538	5	503	4	527	6	540	4	623	2	651	1	655	4	689	7	749	2	732	4	735
Union	18	1062	20	1082	13	1073	23	1166	14	1166	15	1142	12	1183	8	1231	15	1247	15	1207	19	1191
Van Buren	16	644	12	621	9	599	13	639	9	624	6	643	10	657	10	716	13	723	11	744	20	760
Wapello	110	3011	124	2949	70	2854	62	2932	72	3134	119	3204	64	3301	76	3359	69	3438	52	3508	84	3351
Warren	34	3206	33	3190	45	2960	76	3122	72	3215	59	3309	49	3348	42	3445	49	3519	32	3530	49	3453
Washington	38	1498	41	1465	26	1472	25	1541	23	1549	37	1573	23	1566	33	1632	19	1724	21	1774	11	1800
Wayne	5	570	4	592	18	567	12	566	10	582	10	579	2	588	10	595	11	604	10	629	8	676
Webster	73	2548	72	2557	64	2394	71	2456	110	2573	125	2791	106	2869	133	3034	69	3208	52	3233	38	3315
Winnebago	30	1254	20	1237	14	1182	19	1237	16	1261	14	1225	10	1239	20	1247	9	1302	8	1303	1	1329
Winneshiek	22	1283	17	1209	9	1206	10	1200	8	1270	9	1267	10	1337	8	1366	13	1397	21	1426	10	1478
Woodbury	280	7472	252	7660	287	7203	219	8046	216	7941	203	8836	207	8710	155	8712	183	8880	185	8747	163	8891
Worth	9	531	6	515	7	495	12	495	5	525	10	556	5	585	3	616	5	645	7	659	10	667
Wright	10	1198	10	1201	10	1118	12	1210	14	1204	17	1231	6	1228	10	1296	18	1366	11	1424	11	1424
State of Iowa	4768	214157	4783	207948	5030	201742	5270	213888	5652	216251	5498	222112	5574	227144	5343	233453	5529	241973	5109	246788	5086	249885

¹This 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.

²This refers to the state's fiscal year; the label "1993" covers the period from 1 July 1992 through 30 June 1993, for example.

Table 2. Percentage of Public Secondary School Dropouts in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	2.0	0.4	0.6	0.8	0.0	0.0	0.8	1.1	0.3	0.5	1.0
Adams	0.6	4.0	3.0	3.3	0.8	0.8	0.8	1.1	0.3	1.4	0.0
Allamakee	1.4	0.9	2.0	1.0	2.0	0.9	1.2	1.0	0.7	1.0	1.2
Appanoose	3.7	3.7	3.8	3.8	2.9	2.5	4.8	2.1	2.8	2.8	1.5
Audubon	1.1	0.2	1.6	0.0	1.1	0.9	0.3	1.0	0.6	1.5	0.7
Benton	2.2	1.5	1.7	1.8	1.4	1.8	1.1	1.4	1.8	1.7	1.6
Black Hawk	7.0	7.0	6.4	6.4	6.4	5.1	4.6	4.3	4.9	3.7	3.5
Boone	2.5	1.4	1.3	2.0	2.5	1.6	2.3	1.6	1.9	2.1	3.0
Bremer	0.8	0.5	0.7	1.2	0.8	1.0	1.0	1.0	1.0	0.6	0.8
Buchanan	2.7	1.6	1.3	1.4	1.9	1.9	2.4	1.4	2.3	2.4	2.4
Buena Vista	2.3	2.3	2.1	2.0	1.8	1.8	2.0	1.3	1.2	0.9	0.6
Butler	0.5	0.4	1.1	1.0	0.9	0.5	0.7	0.6	0.7	1.2	0.4
Calhoun	0.5	0.3	1.2	0.9	0.8	0.7	0.6	0.4	0.7	0.6	0.8
Carroll	1.1	0.8	0.9	0.9	0.9	1.3	1.3	1.2	1.6	0.9	1.1
Cass	1.5	1.4	1.9	1.3	1.9	1.7	1.4	1.2	1.2	1.3	1.0
Cedar	1.1	1.4	1.4	0.7	0.6	1.1	0.9	1.2	1.5	1.3	1.2
Cerro Gordo	2.2	2.7	3.3	2.2	2.9	1.9	6.8	2.1	2.8	2.2	3.7
Cherokee	0.6	1.4	1.3	1.6	1.5	1.5	0.6	0.6	0.9	1.1	1.1
Chickasaw	0.5	1.4	1.6	0.8	1.3	1.1	1.3	1.3	1.1	0.7	0.9
Clarke	1.1	2.2	1.6	2.8	1.4	0.9	1.6	0.5	1.2	1.3	1.0
Clay	1.1	1.6	1.0	1.2	1.7	1.3	2.6	1.2	1.3	2.0	1.7
Clayton	1.2	0.9	1.7	0.6	1.1	0.9	0.9	1.1	1.3	1.4	1.6
Clinton	2.1	3.3	4.5	2.2	2.6	1.8	2.3	1.8	1.8	1.8	2.4
Crawford	1.0	2.8	1.2	1.4	0.8	0.9	0.6	0.6	0.7	1.0	1.0
Dallas	3.3	2.5	2.4	1.5	1.1	2.4	2.2	2.5	1.3	1.5	2.0
Davis	2.0	1.4	2.1	2.2	1.3	1.6	1.6	1.7	1.9	1.7	3.5
Decatur	2.0	1.7	2.2	2.0	1.8	1.8	1.5	1.3	1.7	2.2	1.6
Delaware	0.8	0.5	1.4	1.2	1.7	1.5	2.2	1.5	1.5	1.0	1.5
Des Moines	1.7	1.5	2.2	1.9	2.3	1.5	3.0	4.7	4.5	5.0	3.1
Dickinson	1.0	1.3	1.0	0.9	0.8	2.1	1.2	1.1	1.0	1.1	1.0
Dubuque	2.5	2.1	2.3	2.3	3.2	2.3	2.2	2.1	2.9	2.4	2.8
Emmet	0.9	1.0	1.6	1.6	1.5	2.1	1.0	1.6	1.8	0.8	1.5
Fayette	1.8	1.2	0.9	1.3	0.8	1.5	1.2	0.6	1.3	1.7	1.3
Floyd	1.8	2.2	2.3	2.1	1.7	2.0	1.7	1.1	0.9	2.1	2.7
Franklin	1.3	2.1	2.2	1.1	1.6	1.0	0.9	2.0	1.4	1.0	1.0
Fremont	1.5	1.2	1.4	1.9	1.6	2.1	3.0	1.4	1.5	1.4	0.8
Greene	1.0	1.6	1.3	2.8	1.8	1.1	0.7	1.1	0.8	1.3	1.9
Grundy	0.9	0.8	0.8	0.4	0.7	0.6	0.3	0.7	1.0	0.5	1.2
Guthrie	0.6	1.2	1.5	0.9	0.7	1.8	1.2	0.6	0.6	1.6	1.1
Hamilton	1.6	1.9	1.5	1.4	2.1	1.0	1.1	1.6	1.7	0.6	0.5
Hancock	0.6	0.4	0.6	0.7	0.2	0.5	0.5	0.5	0.6	0.4	0.2
Hardin	2.0	1.4	1.1	1.0	1.4	0.7	1.1	0.8	0.9	1.0	1.0
Harrison	1.6	2.0	1.4	1.7	1.9	1.8	1.7	2.0	2.0	1.4	1.1
Henry	1.6	1.2	1.7	1.9	2.1	1.1	1.4	1.6	1.9	1.5	1.2
Howard	0.9	0.3	0.4	1.0	0.8	0.4	0.9	0.6	0.2	1.5	0.6
Humboldt	1.3	1.0	0.8	0.7	1.3	1.3	1.0	0.9	1.8	0.9	1.4
Ida	0.2	0.3	0.9	0.4	0.4	0.9	0.8	0.5	0.0	0.3	0.7
Iowa	0.5	0.5	0.3	1.0	1.0	0.7	0.5	0.8	0.9	0.8	0.6
Jackson	1.6	1.4	1.6	1.7	2.1	1.4	1.5	1.2	1.6	1.1	1.6
Jasper	1.9	1.4	2.1	3.9	2.8	3.9	3.2	2.7	2.4	2.0	2.6

Table 2. Percentage of Public Secondary School Dropouts in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	3.9	3.0	2.5	2.7	3.5	2.3	1.8	2.1	1.7	1.0	1.1
Johnson	1.4	1.0	1.1	3.8	2.9	2.7	1.9	2.6	1.8	1.8	0.8
Jones	2.1	1.2	1.5	2.1	0.9	1.7	1.6	0.8	0.8	0.9	0.9
Keokuk	1.2	1.5	1.4	0.6	1.1	0.9	1.1	1.2	0.8	0.5	0.9
Kossuth	1.1	0.8	0.7	1.5	1.0	0.9	1.4	1.7	1.0	0.7	0.7
Lee	3.2	2.8	3.1	2.9	3.6	2.6	3.4	3.4	3.6	3.2	2.6
Linn	1.1	1.8	1.2	2.1	3.0	2.3	2.9	2.3	2.0	1.9	2.9
Louisa	1.0	2.1	2.0	2.8	3.2	2.9	2.1	1.9	2.4	2.6	2.9
Lucas	2.0	1.4	1.8	2.5	3.6	3.2	2.5	3.0	3.9	3.1	3.6
Lyon	0.5	0.4	0.9	0.5	0.2	0.8	0.4	0.1	0.4	0.4	0.4
Madison	0.6	0.7	1.7	2.1	1.1	2.3	1.9	1.4	1.9	1.1	1.6
Mahaska	2.5	2.1	2.0	1.8	2.9	2.7	3.4	1.9	2.9	3.0	3.3
Marion	1.4	1.6	1.4	1.9	1.3	1.6	1.8	1.4	1.9	1.7	1.2
Marshall	0.8	1.6	2.6	3.1	3.5	2.4	2.0	1.7	1.5	1.7	1.6
Mills	2.2	2.2	1.5	1.7	1.4	1.4	1.2	2.0	0.7	1.1	1.0
Mitchell	1.2	1.1	1.2	1.7	0.3	0.9	0.1	0.9	1.1	1.4	1.2
Monona	2.3	1.7	1.9	1.6	1.4	1.5	1.5	1.4	2.3	1.6	2.2
Monroe	2.4	3.3	2.2	2.5	1.9	2.6	4.7	2.9	2.2	3.2	3.1
Montgomery	1.3	2.4	1.8	1.6	1.5	2.0	2.2	2.3	1.3	3.6	2.5
Muscatine	3.3	2.6	2.5	2.6	3.5	2.8	2.4	3.3	3.6	4.3	2.7
O'Brien	1.6	1.2	1.2	1.2	1.5	0.7	1.0	0.6	0.5	1.5	0.8
Osceola	1.6	0.5	1.8	2.0	0.7	1.8	0.6	0.4	0.2	0.4	0.4
Page	2.2	1.9	2.8	2.2	2.5	2.5	2.1	1.4	1.7	2.0	2.0
Palo Alto	1.1	1.2	1.3	0.7	1.9	0.7	0.4	0.8	0.7	1.4	1.1
Plymouth	0.7	1.0	1.3	1.8	2.0	0.5	0.9	1.2	0.9	1.0	0.7
Pocahontas	0.8	1.4	1.1	1.7	0.5	0.8	0.2	0.3	0.3	0.5	0.6
Polk	2.5	3.7	4.7	3.8	4.0	4.5	4.3	4.4	4.3	3.5	3.1
Pottawattamie	1.8	1.7	2.8	4.0	5.0	5.5	5.1	5.2	4.2	3.8	2.5
Poweshiek	2.0	2.2	2.5	1.6	2.1	2.3	1.3	1.0	1.6	1.0	1.4
Ringgold	2.9	2.2	0.7	0.7	1.8	0.4	0.6	0.6	1.2	0.6	1.5
Sac	1.7	1.0	0.8	0.7	1.6	0.6	1.1	1.0	0.9	0.5	0.6
Scott	5.1	4.4	4.6	4.2	4.1	4.0	3.4	3.1	3.3	2.9	2.9
Shelby	1.0	0.2	0.7	1.5	1.5	1.6	1.5	0.0	1.4	1.0	1.2
Sioux	0.9	1.1	0.8	0.9	0.8	0.8	1.0	0.7	0.7	0.6	0.8
Story	1.3	1.0	1.4	1.2	1.0	1.2	1.1	1.2	1.3	1.3	1.4
Tama	2.0	2.1	1.4	1.2	1.1	0.7	2.2	2.2	2.0	1.4	2.6
Taylor	0.4	1.0	0.8	1.1	0.6	0.3	0.2	0.6	0.9	0.3	0.5
Union	1.7	1.8	1.2	2.0	1.2	1.3	1.0	0.6	1.2	1.2	1.6
Van Buren	2.5	1.9	1.5	2.0	1.4	0.9	1.5	1.4	1.8	1.5	2.6
Wapello	3.7	4.2	2.5	2.1	2.3	3.7	1.9	2.3	2.0	1.5	2.5
Warren	1.1	1.0	1.5	2.4	2.2	1.8	1.5	1.2	1.4	0.9	1.4
Washington	2.5	2.8	1.8	1.6	1.5	2.4	1.5	2.0	1.1	1.2	0.6
Wayne	0.9	0.7	3.2	2.1	1.7	1.7	0.3	1.7	1.8	1.6	1.2
Webster	2.9	2.8	2.7	2.9	4.3	4.5	3.7	4.4	2.2	1.6	1.1
Winnebago	2.4	1.6	1.2	1.5	1.3	1.1	0.8	1.6	0.7	0.6	0.1
Winneshiek	1.7	1.4	0.7	0.8	0.6	0.7	0.7	0.6	0.9	1.5	0.7
Woodbury	3.7	3.3	4.0	2.7	2.7	2.3	2.4	1.8	2.1	2.1	1.8
Worth	1.7	1.2	1.4	2.4	1.0	1.8	0.9	0.5	0.8	1.1	1.5
Wright	0.8	0.8	0.9	1.0	1.2	1.4	0.5	0.8	1.3	0.8	0.8
State of Iowa	2.2	2.3	2.5	2.5	2.6	2.5	2.5	2.3	2.3	2.1	2.0

Figure 1. Dropouts from public secondary schools in Iowa, 1980-1993.

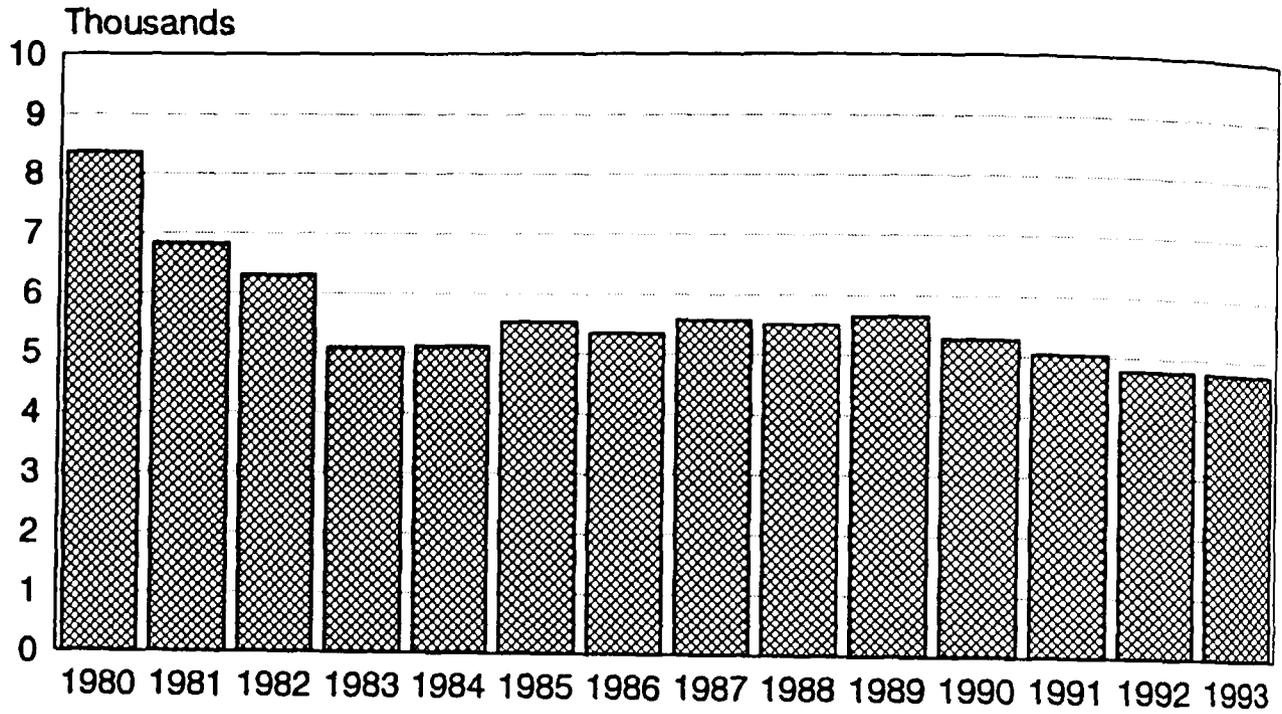
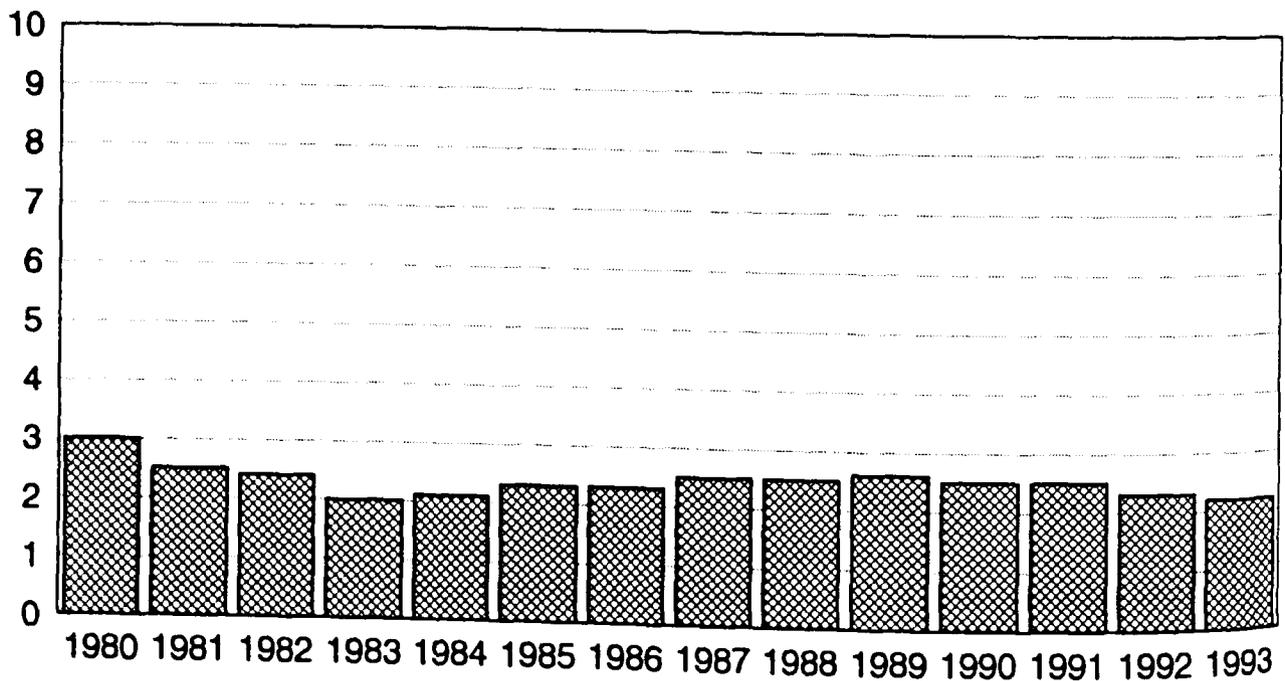


Figure 2. Dropouts as percent of public secondary school enrollees in Iowa, 1980-1993.



Students Receiving Free or Reduced-Price School Meals in Iowa's Counties: 1983-1994

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Willis Goudy, Iowa State University
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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 can be eligible for free meals while others with somewhat higher income 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, the average monthly number of students in the meal program was calculated for each school year from 1983-1984 through 1993-1994. Data from monthly reports were used, but the reports available varied from one year to the next by month and by number (2-5). 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

Although enrollment in Iowa's schools increased somewhat from 1988-1989 through 1993-1994, it had decreased each of the previous years in the period examined (Table 3). Despite the earlier enrollment declines, the average number of students receiving free meals increased in 1984-1985 and 1985-1986 (Table 1). This upward trend occurred from 1989-1990 through 1993-1994 as well. In both the 1985-1986 and 1986-1987 school years, more than 100,000 students in Iowa received free meals at school. By 1989-1990, however, that number had been reduced significantly to 88,983, the lowest number of the period, only to increase to more than 100,000 again in 1992-1993.

During the 1993-1994 school year, Black Hawk, Linn, Polk, and Scott averaged at least 5,000 students receiving free meals each month. Sixteen other counties had at least 1,000 such students. All counties except Adams and Osceola averaged at least 200 monthly.

The number of students receiving free meals during the 1993-1994 school year was nearly 8,800 higher than 10 years earlier in 1983-1984. Sixty-six counties also had more students in the program in 1993-1994 than in 1983-1984; Muscatine, Polk, Pottawattamie, Scott, and Woodbury had increases greater than 500; another 25 gained at least 100. Of the 32 counties with fewer students in the program in 1993-1994 than 10 years earlier, Carroll, Clayton, Dubuque, Guthrie, and Harrison dropped by at least 100; Dubuque was the only county with a decline greater than 150, however.

Table 1. Average Number of Students Receiving Free Meals in Selected Months* in Iowa Counties, 1983-1994.

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	326	312	289	304	238	212	253	334	329	253	250
Adams	187	173	156	161	162	175	149	203	198	163	142
Allamakee	553	572	515	481	491	505	580	642	653	595	580
Appanoose	835	829	842	844	811	819	940	911	958	868	853
Audubon	227	212	248	232	194	200	239	278	280	223	205
Benton	742	806	828	843	822	747	767	903	844	777	774
Black Hawk	5244	5081	5016	4835	4828	4931	5291	6494	5906	5293	5243
Boone	590	599	566	511	510	526	546	630	672	645	614
Bremer	727	747	691	645	603	675	854	1103	979	732	662
Buchanan	762	762	792	724	694	733	779	926	918	838	768
Buena Vista	987	833	783	743	704	674	686	730	660	587	537
Butler	511	486	499	455	484	444	515	651	626	434	447
Calhoun	516	519	495	451	363	420	466	556	572	408	392
Carroll	497	613	754	654	743	711	718	863	839	623	618
Cass	709	678	699	617	648	656	682	714	711	634	495
Cedar	476	478	441	368	392	411	434	446	445	436	387
Cerro Gordo	1434	1427	1341	1321	1267	1289	1338	1418	1466	1222	1239
Cherokee	540	519	496	465	462	506	539	588	593	507	508
Chickasaw	468	413	433	403	408	433	474	555	585	464	486
Clarke	515	528	451	390	383	439	502	481	520	429	389
Clay	567	518	623	592	578	611	689	672	680	502	508
Clayton	689	593	668	667	553	674	736	924	955	802	824
Clinton	1714	1649	1541	1484	1483	1549	1612	1744	1862	1670	1646
Crawford	748	681	728	744	799	723	779	830	810	648	579
Dallas	953	1098	948	835	790	757	843	900	953	950	925
Davis	358	376	357	330	310	306	383	422	440	395	420
Decatur	565	562	525	484	470	464	465	501	486	421	454
Delaware	703	694	642	619	631	679	659	821	829	696	709
Des Moines	1520	1462	1559	1535	1448	1499	1472	1405	1505	1468	1398
Dickinson	431	391	421	430	457	505	528	565	592	504	413
Dubuque	3007	2899	2835	2731	2813	2894	3157	3933	3663	3477	3671
Emmet	651	561	589	534	571	632	623	684	662	550	461
Fayette	1039	972	970	953	943	954	1076	1219	1217	1112	1084
Floyd	940	888	893	888	852	918	993	1022	1074	1009	1037
Franklin	347	356	376	327	350	340	337	400	410	340	338
Fremont	369	425	375	335	333	279	374	409	445	417	371
Greene	426	409	425	391	342	383	352	418	457	434	358
Grundy	394	396	305	276	244	229	277	345	286	264	234
Guthrie	487	505	503	464	428	480	587	677	660	605	621
Hamilton	566	596	551	534	492	508	558	557	593	527	550
Hancock	447	441	470	407	357	347	410	447	441	276	323
Hardin	1046	1050	1106	1007	1062	960	1004	1078	1138	997	964
Harrison	664	728	744	687	652	665	706	747	795	757	776
Henry	641	641	639	571	532	492	522	564	593	573	603
Howard	520	473	479	431	443	515	532	592	624	554	563
Humboldt	323	303	305	289	305	311	369	411	491	453	408
Ida	301	334	257	243	234	245	294	327	316	280	224
Iowa	411	375	334	347	306	308	349	373	398	319	346
Jackson	821	783	797	756	784	817	885	1061	1052	931	908
Jasper	904	832	841	747	753	720	791	864	937	892	983

*The number of months used varies from two to five; months change across some years because of availability.

Table 1. Average Number of Students Receiving Free Meals in Selected Months* in Iowa Counties, 1983-1994
(continued).

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	291	326	302	283	263	257	281	342	327	328	345
Johnson	1376	1379	1292	1243	1208	1198	1241	1201	1233	1020	1033
Jones	669	620	594	580	583	602	603	759	696	650	668
Keokuk	529	537	514	500	475	421	490	507	564	501	494
Kossuth	789	729	705	613	590	598	713	836	823	536	546
Lee	1728	1397	1363	1238	1209	1266	1334	1389	1497	1327	1348
Linn	5712	5627	5446	5096	4659	4669	4874	5090	5486	5375	5581
Louisa	646	606	514	514	482	416	445	482	558	481	493
Lucas	408	376	334	293	281	297	326	374	388	405	401
Lyon	372	392	366	319	367	414	479	557	547	434	367
Madison	484	476	472	410	445	437	448	567	616	496	540
Mahaska	885	831	814	792	788	826	901	939	975	893	965
Marion	863	863	820	741	654	753	791	840	921	887	882
Marshall	1563	1435	1380	1297	1155	1128	1174	1573	1248	1213	1147
Mills	557	532	511	425	444	440	444	505	498	524	521
Mitchell	339	339	340	324	313	353	423	462	362	331	332
Monona	484	509	534	573	539	576	585	591	639	552	508
Monroe	367	365	364	358	321	349	389	425	425	386	373
Montgomery	369	401	388	338	345	331	365	395	402	375	354
Muscatine	1837	1918	1836	1766	1587	1514	1492	1455	1322	1238	1191
O'Brien	570	543	522	469	453	501	564	623	600	449	407
Osceola	168	162	172	145	163	155	173	217	230	198	169
Page	801	750	615	584	604	565	653	724	680	645	682
Palo Alto	595	600	565	579	532	557	625	669	679	481	432
Plymouth	620	643	680	606	750	803	830	885	987	829	693
Pocahontas	308	421	392	383	307	314	355	418	435	385	350
Polk	11088	10857	10257	9244	8691	8746	9288	9548	9744	9449	10119
Pottawattamie	4227	3944	3747	3399	3112	3091	3206	3121	3267	3205	3278
Poweshiek	470	502	445	423	365	371	399	420	488	416	368
Ringgold	344	324	358	302	315	317	312	323	338	346	328
Sac	595	551	572	517	524	546	572	617	630	534	595
Scott	6749	6533	6415	5859	5884	5607	5754	5729	5795	5607	5458
Shelby	653	644	555	493	441	435	489	517	448	393	365
Sioux	1023	1073	1008	989	989	1050	1246	1451	1431	1135	975
Story	1333	1313	1302	1251	1213	1220	1287	1315	1273	1132	1137
Tama	847	976	879	785	720	757	820	926	949	792	764
Taylor	388	392	381	384	371	394	445	482	559	468	473
Union	606	609	554	542	541	550	555	611	606	552	547
Van Buren	404	372	354	342	337	333	335	364	406	412	381
Wapello	1894	1874	1944	1967	2034	2050	2166	2346	2234	2154	1977
Warren	817	798	744	645	604	628	868	725	771	725	724
Washington	536	505	545	536	533	518	562	611	597	488	439
Wayne	424	419	365	330	343	356	359	382	406	387	377
Webster	1790	1634	1514	1533	1481	1516	1592	1588	1789	1641	1551
Winnebago	395	403	361	404	356	347	378	456	485	409	381
Winneshiek	542	504	490	482	491	529	534	599	642	524	516
Woodbury	4420	4496	4430	4211	3994	4070	4111	4320	4189	3928	3750
Worth	206	232	198	191	193	181	195	241	261	192	221
Wright	514	486	424	439	410	390	471	490	502	445	414
State of Iowa	102994	100798	97820	91826	88983	90009	96058	104328	105037	95225	94223

Table 2. Average Number of Students Receiving Reduced-Price Meals in Selected Months* in Iowa Counties, 1983-1994.

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	128	121	110	73	92	106	111	79	100	113	103
Adams	62	59	61	52	48	65	59	68	65	70	60
Allamakee	275	252	269	256	225	205	188	175	203	181	215
Appanoose	200	195	191	176	182	171	139	146	148	161	129
Audubon	100	78	91	84	61	64	61	63	65	69	68
Benton	260	291	292	293	213	263	326	276	252	230	271
Black Hawk	1218	1177	1142	1152	985	1004	1068	1216	1095	1117	1164
Boone	223	226	224	222	233	206	198	221	209	205	171
Bremer	316	308	287	305	294	278	254	289	230	208	225
Buchanan	201	201	216	196	218	177	192	207	206	176	201
Buena Vista	408	315	290	271	229	215	287	281	262	259	279
Butler	220	243	220	248	151	178	167	180	178	167	171
Calhoun	263	260	207	167	196	147	165	163	149	127	142
Carroll	267	327	416	355	335	348	332	349	298	289	326
Cass	243	269	203	271	222	250	243	267	266	235	258
Cedar	160	195	188	179	178	179	177	160	138	130	150
Cerro Gordo	527	488	457	437	433	476	486	499	402	383	384
Cherokee	224	233	192	185	184	192	189	192	223	214	176
Chickasaw	186	189	168	197	202	169	186	198	149	160	186
Clarke	164	135	113	108	88	96	75	132	82	63	86
Clay	257	268	316	292	284	230	223	265	273	185	235
Clayton	259	263	276	313	240	251	231	258	276	254	279
Clinton	403	418	331	367	342	291	287	326	315	318	408
Crawford	341	322	347	299	277	280	279	310	302	297	287
Dallas	412	440	387	380	287	279	325	353	346	299	326
Davis	134	103	102	97	97	92	88	90	80	108	103
Decatur	148	134	127	118	105	109	115	105	87	113	94
Delaware	200	189	191	170	154	149	123	127	142	175	182
Des Moines	348	317	339	335	317	332	377	334	290	324	355
Dickinson	196	194	204	154	164	145	129	133	125	131	137
Dubuque	1184	1224	1101	1058	958	936	996	970	1026	1021	1114
Emmet	204	206	244	216	201	192	227	203	229	200	197
Fayette	361	361	321	275	250	254	252	296	288	330	342
Floyd	237	245	230	226	240	229	264	272	257	229	274
Franklin	186	218	169	194	155	149	169	126	96	89	121
Fremont	143	170	142	136	108	95	117	114	111	101	108
Greene	197	196	195	163	173	205	189	182	161	134	164
Grundy	178	204	125	122	119	129	135	140	108	99	120
Guthrie	199	220	191	158	151	169	158	158	213	146	163
Hamilton	261	243	237	221	189	174	203	214	206	197	219
Hancock	213	191	194	236	186	193	200	186	170	152	103
Hardin	282	282	243	268	233	274	253	268	259	273	268
Harrison	240	277	261	242	241	245	231	250	230	267	211
Henry	213	230	223	173	167	182	173	200	228	190	238
Howard	275	271	263	218	166	161	161	174	148	131	130
Humboldt	184	178	188	170	151	169	185	195	164	172	172
Ida	178	150	152	163	140	150	148	164	113	94	88
Iowa	182	206	221	220	165	167	163	184	184	162	169
Jackson	298	268	275	223	205	191	170	181	208	206	225
Jasper	322	313	251	261	218	195	192	232	243	304	291

*The number of months used varies from two to five; months change across some years because of availability.

Table 2. Average Number of Students Receiving Reduced-Price Meals in Selected Months* in Iowa Counties, 1983-1994 (continued).

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	86	96	80	55	68	74	57	57	85	83	118
Johnson	388	395	370	399	382	346	322	354	345	351	404
Jones	258	219	254	244	207	162	192	152	185	160	197
Keokuk	130	150	162	152	143	120	110	109	85	93	77
Kossuth	317	350	248	242	251	286	290	264	270	214	242
Lee	316	295	280	270	261	285	315	315	309	295	359
Linn	1753	1556	1512	1476	1250	1246	1297	1400	1520	1460	1523
Louisa	144	123	121	111	115	138	104	136	99	125	139
Lucas	86	96	85	104	97	105	95	110	97	84	75
Lyon	182	168	170	145	213	223	208	175	170	152	145
Madison	189	200	207	247	200	228	254	204	195	180	171
Mahaska	245	222	222	241	235	219	180	245	252	228	240
Marion	293	332	378	349	328	261	266	258	296	289	311
Marshall	380	439	422	355	332	320	349	428	342	383	411
Mills	177	162	154	188	117	67	118	100	146	114	150
Mitchell	178	183	149	166	174	156	206	179	118	160	118
Monona	170	149	142	138	132	112	120	153	153	129	158
Monroe	113	126	89	92	97	100	84	62	96	98	122
Montgomery	110	95	103	91	110	126	125	121	130	129	123
Muscatine	489	533	402	417	347	384	384	371	332	309	311
O'Brien	308	261	277	310	246	242	209	249	261	232	232
Osceola	111	123	90	100	94	83	85	102	81	91	106
Page	213	207	190	210	208	204	192	201	210	178	157
Palo Alto	200	188	197	193	169	168	161	194	171	160	143
Plymouth	352	357	339	273	341	317	342	299	373	313	284
Pocahontas	166	178	165	159	174	149	156	129	112	97	111
Polk	2807	2776	2675	2638	2393	2538	2359	2418	2313	2252	2392
Pottawattamie	1086	989	866	822	832	811	848	912	854	902	934
Poweshiek	140	150	141	132	145	100	94	138	121	144	158
Ringgold	96	99	97	94	71	80	72	77	53	58	55
Sac	255	236	261	202	234	232	266	309	232	230	242
Scott	1075	1099	1007	996	918	923	842	897	874	889	972
Shelby	295	266	228	181	180	160	155	137	164	142	162
Sioux	761	745	747	683	663	633	601	577	548	474	490
Story	452	448	477	499	405	437	440	461	420	376	417
Tama	321	331	293	298	320	261	258	249	261	216	176
Taylor	109	104	114	96	100	118	105	119	97	134	131
Union	207	234	218	167	177	159	186	178	179	172	188
Van Buren	102	110	98	107	92	80	96	121	77	105	120
Wapello	485	462	438	417	334	388	363	385	410	608	397
Warren	324	285	279	249	292	264	259	224	240	250	290
Washington	281	213	225	186	140	170	156	184	165	163	186
Wayne	110	105	88	111	70	64	85	74	60	53	70
Webster	512	494	494	456	491	497	476	474	484	491	572
Winnebago	193	221	209	168	151	131	121	143	134	98	172
Winneshiek	229	234	218	231	197	201	197	184	152	130	156
Woodbury	1090	1178	1184	1096	894	887	929	846	875	826	880
Worth	115	92	118	109	94	97	96	111	98	118	124
Wright	207	185	210	190	208	199	171	222	197	159	191
State of Iowa	32484	32125	30677	29551	27140	26953	27063	27963	27015	26357	27763

Table 3. Average Number Enrolled in Schools in Selected Months* in Iowa Counties, 1983-1994.

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	1232	1221	1188	1172	1130	1115	1179	1173	1176	1229	1219
Adams	720	720	704	709	741	766	789	782	766	786	786
Allamakee	2899	2926	2929	2905	2903	2920	2965	2971	3071	3070	3193
Appanoose	2609	2635	2645	2603	2607	2613	2693	2678	2627	2500	2577
Audubon	1180	1067	1181	1161	1179	1192	1234	1267	1306	1326	1360
Benton	4270	4570	4534	4500	4492	4351	4314	4400	4392	4424	4440
Black Hawk	21534	20615	21025	21120	20642	20769	20708	21383	21541	22302	23167
Boone	4077	4020	4034	3922	3905	3838	3830	3877	3760	3832	3881
Bremer	5537	5497	5382	5326	5340	5295	5154	5387	5611	5770	5802
Buchanan	3656	3675	3629	3633	3437	3408	3291	3265	3333	3467	3548
Buena Vista	4179	3765	3619	3516	3360	3362	3322	3287	3226	3187	3137
Butler	2674	2664	2669	2636	2635	2735	2728	2716	2765	2875	2943
Calhoun	2749	2634	2571	2431	2382	2349	2403	2435	2444	2508	2538
Carroll	3422	4159	4734	4193	4741	4288	4124	4332	4283	4397	4582
Cass	3017	3103	3083	3174	3173	3169	3198	3167	3230	3244	3276
Cedar	3515	3593	3603	3519	3499	3533	3438	3380	3379	3518	3520
Cerro Gordo	7799	7293	7404	7400	7591	7494	7569	7841	7842	7831	7638
Cherokee	2934	2950	2790	2738	2805	2772	2788	2743	2727	2811	2873
Chickasaw	2465	2470	2468	2472	2498	2550	2537	2586	2742	2766	2818
Clarke	1742	1760	1781	1682	1630	1652	2609	1667	1634	1605	1637
Clay	3178	2777	3577	3434	3392	3314	3193	3196	3258	2965	3292
Clayton	3419	3329	3628	3904	3398	3662	3454	3896	4026	4069	4147
Clinton	9243	9426	9364	9188	9234	9098	9374	9314	9148	9437	9855
Crawford	3238	3225	3511	3521	3631	3712	3814	3895	3926	3970	3848
Dallas	7011	6808	6576	6323	6037	6043	5880	5936	5771	5857	5875
Davis	1381	1409	1411	1437	1412	1415	1418	1457	1467	1502	1516
Decatur	1482	1484	1489	1474	1457	1471	1507	1535	1527	1552	1587
Delaware	4057	3924	3829	3756	3643	3604	3452	3574	3563	3643	3677
Des Moines	7793	7709	7796	7729	7647	7693	7765	7765	7622	7599	7701
Dickinson	2763	2785	2665	2712	2690	2643	2586	2624	2641	2749	2663
Dubuque	18205	18129	18188	17523	17622	17787	17991	18282	18672	19069	19705
Emmet	2332	2177	2318	2292	2321	2326	2301	2318	2316	2459	2353
Fayette	4653	4668	4588	4734	4652	4624	4607	4671	4826	5013	5246
Floyd	3332	3359	3380	3348	3338	3345	3472	3539	3429	3713	3817
Franklin	1834	1849	1837	1817	1746	1693	1660	1691	1670	1706	1751
Fremont	1501	1681	1687	1688	1664	1377	1697	1721	1720	1779	1768
Greene	1800	1840	1826	1750	1731	1758	1752	1787	1845	1908	1920
Grundy	2751	2740	2282	2264	2636	2419	2354	2369	2328	2502	2524
Guthrie	2217	2430	2458	2414	2399	2415	2535	2563	2568	2609	2665
Hamilton	3111	3131	3099	3032	3042	3084	2992	3014	3069	3196	3289
Hancock	2364	2364	2440	2375	2335	2330	2401	2378	2371	2376	2420
Hardin	3841	3844	4152	4093	4109	4077	4042	4189	4161	4347	4389
Harrison	2726	3058	3037	2984	2978	2983	3055	3079	3077	3112	3174
Henry	3886	3850	3802	3722	3598	3572	3605	3627	3620	3537	3563
Howard	2334	2352	2333	2312	2276	2277	2305	2351	2356	2360	2459
Humboldt	1997	1998	1958	1960	1969	1955	1978	1994	2040	2085	2149
Ida	1598	1584	1567	1521	1429	1444	1401	1381	1335	1355	1353
Iowa	3087	3031	3138	2967	2769	2710	2714	2791	2814	2823	2882
Jackson	4273	4254	4226	4042	4139	4212	4259	4261	4357	4566	4698
Jasper	6396	6436	6467	6350	6451	6125	6198	6136	6140	6397	6460

*The number of months used varies from two to five; months change across some years because of availability.

Table 3. Average Number Enrolled in Schools in Selected Months* in Iowa Counties, 1983-1994 (continued).

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	1816	1853	1807	1771	1795	1826	1825	1869	1921	2039	2087
Johnson	11880	11323	11268	10963	10807	10579	10599	10245	10253	10043	10256
Jones	3717	3537	3471	3433	3389	3394	3404	3500	3416	3569	3629
Keokuk	2422	2400	2421	2432	2446	2441	2443	2390	2407	2470	2480
Kossuth	3518	3484	3583	3446	3471	3602	3540	3679	3656	3789	3992
Lee	7475	7240	7298	6906	7102	7119	7485	7291	7225	7315	7446
Linn	32691	32147	31861	29899	28832	29124	29670	30103	30498	31109	31860
Louisa	2811	2757	2695	2732	2730	2663	2600	2669	2660	2694	2761
Lucas	1623	1575	1559	1581	1575	1579	1621	1642	1631	1686	1668
Lyon	2355	2375	2321	2032	2324	2353	2358	2353	2315	2323	2263
Madison	2799	2800	2821	2815	2838	2836	2824	2855	2826	2785	2797
Mahaska	3478	3493	3416	3444	3400	3412	3363	3409	3402	3434	3442
Marion	5780	6031	6051	5820	5509	5546	5483	5036	5513	5573	5624
Marshall	6498	6495	6782	6569	6574	6296	6515	6662	6843	7038	7243
Mills	2629	2629	2587	2600	2623	2647	2667	2636	2663	2733	2782
Mitchell	2035	2016	2002	1978	2000	2016	2035	2014	1455	2038	2038
Monona	1869	1908	1900	1892	1925	1912	1882	1933	1938	1971	2020
Monroe	1314	1335	1324	1316	1293	1274	1340	1331	1402	1437	1443
Montgomery	1999	2006	2017	1989	2066	1987	2120	2004	1973	2044	2076
Muscatine	7610	7673	7520	7273	7276	7204	7208	7219	7245	7122	7056
O'Brien	3307	3094	3205	3201	3093	3107	3046	3134	3124	3031	3028
Osceola	981	995	966	926	1016	940	968	976	1030	1057	1292
Page	3165	3205	3041	3008	3176	3076	3089	3091	3207	3229	3045
Palo Alto	2326	2351	2296	2317	2311	2255	2212	2199	2215	2319	2341
Plymouth	5273	5175	5211	4434	4971	4996	4955	4282	4861	4885	4853
Pocahontas	1548	1873	1860	1800	1790	1738	1768	1743	1789	1872	1936
Polk	60791	59994	55555	53487	52846	50778	50616	49740	49394	51289	51696
Pottawattamie	16369	16199	16022	15709	15295	15430	15502	15946	16483	16610	16937
Poweshiek	2973	2965	2860	2793	2822	2860	2883	2899	2895	2962	2998
Ringgold	1001	998	1023	985	1006	995	992	994	993	1049	1070
Sac	2383	2343	2400	2389	2414	2362	2331	2322	2324	2354	2362
Scott	28749	28809	28683	28473	28207	27704	27823	27678	28349	29786	29959
Shelby	2984	3022	2708	2627	2601	2581	2599	2634	2684	2775	2797
Sioux	6701	6893	6851	6749	6464	6501	6396	6329	6402	6346	6458
Story	10215	9955	10018	9570	9407	9300	9200	9106	8989	9027	9055
Tama	3231	3652	3402	3413	3432	3474	3564	3581	3593	3502	3549
Taylor	1280	1269	1298	1375	1359	1414	1363	1386	1389	1433	1497
Union	2256	2322	2336	2294	2376	2409	2405	2428	2426	2476	2503
Van Buren	1460	1434	1406	1399	1400	1405	1431	1457	1449	1499	1517
Wapello	6708	6772	6739	6688	6564	6700	6769	6943	7196	7376	7410
Warren	6985	6818	6725	6717	6634	6465	6561	6483	6703	6722	6556
Washington	3724	3691	3680	3644	3599	3686	3660	3660	3675	3693	3658
Wayne	1226	1243	1190	1214	1192	1193	1196	1236	1239	1280	1347
Webster	6853	6906	6746	6703	6526	6749	6622	6772	6862	7005	7099
Winnebago	2846	2840	2811	2790	2757	2815	2787	2756	2676	2743	2723
Winneshiek	3307	3334	3245	3181	3173	3213	3116	3134	3150	3104	3123
Woodbury	18348	18568	18435	18432	17878	17994	17788	17014	16860	16804	17127
Worth	1131	1159	1151	1110	1117	1154	1154	1222	1224	1269	1275
Wright	2901	2730	2688	2574	2616	2640	2619	2686	2778	2850	2843
State of Iowa	517352	514671	509850	498375	494454	491083	493034	493328	496697	507262	514671

Table 4. Percent Enrolled Who Received Free or Reduced-Price School Meals in Selected Months* in Iowa Counties, 1983-1994.

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	36.8	35.4	33.6	32.2	29.2	28.5	30.9	35.2	36.5	29.8	29.0
Adams	34.6	32.2	30.9	30.0	28.3	31.3	26.4	34.7	34.3	29.6	25.7
Allamakee	28.6	28.2	26.8	25.4	24.7	24.3	25.9	27.5	27.9	25.3	24.9
Appanoose	39.7	38.9	39.1	39.2	38.1	37.9	40.1	39.5	42.1	41.2	38.1
Audubon	27.7	27.3	28.7	27.2	21.6	22.1	24.3	26.9	26.4	22.0	20.1
Benton	23.5	24.0	24.7	25.2	23.0	23.2	25.3	26.8	25.0	22.8	23.5
Black Hawk	30.0	30.4	29.3	28.3	28.2	28.6	30.7	36.1	32.5	28.7	27.7
Boone	20.0	20.5	19.6	18.7	19.0	19.1	19.4	21.9	23.4	22.2	20.2
Bremer	18.8	19.2	18.2	17.8	16.8	18.0	21.5	25.8	21.5	16.3	15.3
Buchanan	26.4	26.2	27.8	25.3	26.5	26.7	29.5	34.7	33.7	29.2	27.3
Buena Vista	33.4	30.5	29.6	28.8	27.8	26.4	29.3	30.8	28.6	26.5	26.0
Butler	27.3	27.4	27.0	26.7	24.1	22.7	25.0	30.6	29.1	20.9	21.0
Calhoun	28.3	29.6	27.3	25.4	23.5	24.1	26.3	29.5	29.5	21.3	21.0
Carroll	22.3	22.6	24.7	24.1	22.7	24.7	25.5	28.0	26.5	20.7	20.6
Cass	31.6	30.5	29.3	28.0	27.4	28.6	28.9	31.0	30.2	26.8	23.0
Cedar	18.1	18.7	17.5	15.5	16.3	16.7	17.8	17.9	17.3	16.1	15.3
Cerro Gordo	25.1	26.3	24.3	23.8	22.4	23.6	24.1	24.4	23.8	20.5	21.2
Cherokee	26.0	25.5	24.6	23.7	23.0	25.2	26.1	28.4	29.9	25.6	23.8
Chickasaw	26.5	24.4	24.3	24.3	24.4	23.6	26.0	29.1	26.8	22.6	23.8
Clarke	39.0	37.7	31.7	29.6	28.9	32.4	22.1	36.8	36.8	30.7	29.0
Clay	25.9	28.3	26.3	25.7	25.4	25.4	28.6	29.3	29.3	23.2	22.6
Clayton	27.7	25.7	26.0	25.1	23.3	25.3	28.0	30.3	30.6	26.0	26.6
Clinton	22.9	21.9	20.0	20.1	19.8	20.2	20.3	22.2	23.8	21.1	20.8
Crawford	33.6	31.1	30.6	29.6	29.6	27.0	27.7	29.3	28.3	23.8	22.5
Dallas	19.5	22.6	20.3	19.2	17.8	17.1	19.9	21.1	22.5	21.3	21.3
Davis	35.6	34.1	32.6	29.7	28.8	28.1	33.2	35.1	35.4	33.5	34.5
Decatur	48.1	46.9	43.8	40.8	39.5	39.0	38.5	39.5	37.5	34.4	34.5
Delaware	22.2	22.5	21.8	21.0	21.5	23.0	22.7	26.5	27.3	23.9	24.2
Des Moines	24.0	23.1	24.3	24.2	23.1	23.8	23.8	22.4	23.6	23.6	22.8
Dickinson	22.7	21.0	23.4	21.5	23.1	24.6	25.4	26.6	27.1	23.1	20.7
Dubuque	23.0	22.7	21.6	21.6	21.4	21.5	23.1	26.8	25.1	23.6	24.3
Emmet	36.7	35.3	35.9	32.7	33.3	35.4	36.9	38.3	38.5	30.5	28.0
Fayette	30.1	28.6	28.1	25.9	25.6	26.1	28.8	32.4	31.2	28.8	27.2
Floyd	35.3	33.7	33.2	33.3	32.7	34.3	36.2	36.6	38.8	33.3	34.3
Franklin	29.1	31.0	29.7	28.7	28.9	28.9	30.5	31.1	30.3	25.1	26.2
Fremont	34.1	35.4	30.7	27.9	26.5	27.2	28.9	30.4	32.3	29.1	27.1
Greene	34.7	32.9	34.0	31.7	29.8	33.4	30.9	33.6	33.5	29.8	27.2
Grundy	20.8	21.9	18.8	17.6	13.8	14.8	17.5	20.5	16.9	14.5	14.0
Guthrie	30.9	29.8	28.2	25.8	24.1	26.9	29.4	32.6	34.0	28.8	29.4
Hamilton	26.6	26.8	25.4	24.9	22.4	22.1	25.4	25.6	26.0	22.7	23.4
Hancock	27.9	26.7	27.2	27.1	23.3	23.2	25.4	26.6	25.8	18.0	17.6
Hardin	34.6	34.6	32.5	31.2	31.5	30.3	31.1	32.1	33.6	29.2	28.1
Harrison	33.2	32.9	33.1	31.1	30.0	30.5	30.7	32.4	33.3	32.9	31.1
Henry	22.0	22.6	22.7	20.0	19.4	18.9	19.3	21.1	22.7	21.6	23.6
Howard	34.1	31.6	31.8	28.1	26.8	29.7	30.1	32.6	32.8	29.0	28.2
Humboldt	25.4	24.1	25.1	23.4	23.2	24.6	28.0	30.4	32.1	30.0	27.0
Ida	30.0	30.6	26.1	26.7	26.2	27.4	31.5	35.6	32.1	27.6	23.1
Iowa	19.2	19.2	17.7	19.1	17.0	17.5	18.9	20.0	20.7	17.0	17.9
Jackson	26.2	24.7	25.4	24.2	23.9	23.9	24.8	29.1	28.9	24.9	24.1
Jasper	19.2	17.8	16.9	15.9	15.1	14.9	15.9	17.9	19.2	18.7	19.7

*The number of months used varies from two to five; months change across some years because of availability.

Table 4. Percent Enrolled Who Received Free or Reduced-Price School Meals in Selected Months* in Iowa Counties, 1983-1994 (continued).

County	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	20.7	22.8	21.2	19.1	18.4	18.1	18.5	21.3	21.4	20.2	22.2
Johnson	14.8	15.7	14.8	15.0	14.7	14.6	14.7	15.2	15.4	13.7	14.0
Jones	24.9	23.7	24.4	24.0	23.3	22.5	23.4	26.0	25.8	22.7	23.8
Keokuk	27.2	28.6	27.9	26.8	25.3	22.2	24.6	25.8	27.0	24.0	23.0
Kossuth	31.4	31.0	26.6	24.8	24.2	24.5	28.3	29.9	29.9	19.8	19.7
Lee	27.3	23.4	22.5	21.8	20.7	21.8	22.0	23.4	25.0	22.2	22.9
Linn	22.8	22.3	21.8	22.0	20.5	20.3	20.8	21.6	23.0	22.0	22.3
Louisa	28.1	26.4	23.6	22.9	21.9	20.8	21.1	23.2	24.7	22.5	22.9
Lucas	30.5	30.0	26.9	25.1	24.0	25.5	26.0	29.5	29.7	29.0	28.5
Lyon	23.5	23.6	23.1	22.8	25.0	27.1	29.1	31.1	31.0	25.2	22.6
Madison	24.1	24.2	24.1	23.3	22.7	23.4	24.9	27.0	28.7	24.3	25.4
Mahaska	32.5	30.1	30.3	30.0	30.1	30.6	32.1	34.7	36.1	32.6	35.0
Marion	20.0	19.8	19.8	18.7	17.8	18.3	19.3	21.8	22.1	21.1	21.2
Marshall	29.9	28.8	26.6	25.1	22.6	23.0	23.4	30.0	23.2	22.7	21.5
Mills	27.9	26.4	25.7	23.6	21.4	19.2	21.1	23.0	24.2	23.3	24.1
Mitchell	25.4	25.9	24.4	24.8	24.4	25.2	30.9	31.8	33.0	24.1	22.1
Monona	35.0	34.5	35.6	37.6	34.9	36.0	37.5	38.5	40.9	34.6	33.0
Monroe	36.5	36.8	34.2	34.2	32.3	35.2	35.3	36.6	37.2	33.7	34.3
Montgomery	24.0	24.7	24.4	21.6	22.0	23.0	23.1	25.7	27.0	24.7	23.0
Muscatine	30.6	31.9	29.8	30.0	26.6	26.3	26.0	25.3	22.8	21.7	21.3
O'Brien	26.5	26.0	24.9	24.3	22.6	23.9	25.4	27.8	27.6	22.5	21.1
Osceola	28.4	28.6	27.1	26.5	25.3	25.3	26.7	32.7	30.2	27.3	21.3
Page	32.0	29.9	26.5	26.4	25.6	25.0	27.4	29.9	27.8	25.5	27.6
Palo Alto	34.2	33.6	33.2	33.3	30.3	32.2	35.5	39.2	38.4	27.6	24.6
Plymouth	18.4	19.3	19.5	19.8	21.9	22.4	23.7	27.7	28.0	23.4	20.1
Pocahontas	30.6	32.0	29.9	30.1	26.9	26.6	28.9	31.4	30.6	25.7	23.8
Polk	22.9	22.7	23.3	22.2	21.0	22.2	23.0	24.1	24.4	22.8	24.2
Pottawattamie	32.5	30.5	28.8	26.9	25.8	25.3	26.2	25.3	25.0	24.7	24.9
Poweshiek	20.5	22.0	20.5	19.9	18.1	16.5	17.1	19.2	21.0	18.9	17.5
Ringgold	43.9	42.3	44.5	40.2	38.4	39.9	38.7	40.2	39.4	38.5	35.8
Sac	35.7	33.6	34.7	30.1	31.4	32.9	36.0	39.9	37.1	32.5	35.4
Scott	27.2	26.5	25.9	24.1	24.1	23.6	23.7	23.9	23.5	21.8	21.5
Shelby	31.8	30.1	28.9	25.7	23.9	23.1	24.8	24.8	22.8	19.3	18.8
Sioux	26.6	26.4	25.6	24.8	25.6	25.9	28.9	32.0	30.9	25.4	22.7
Story	17.5	17.7	17.8	18.3	17.2	17.8	18.8	19.5	18.8	16.7	17.2
Tama	36.2	35.8	34.5	31.7	30.3	29.3	30.2	32.8	33.7	28.8	26.5
Taylor	38.9	39.0	38.2	34.9	34.7	36.2	40.4	43.4	47.2	42.0	40.3
Union	36.0	36.3	33.1	30.9	30.2	29.4	30.8	32.5	32.4	29.2	29.4
Van Buren	34.6	33.6	32.2	32.1	30.6	29.4	30.1	33.3	33.3	34.5	33.0
Wapello	35.5	34.5	35.4	35.6	36.1	36.4	37.4	39.3	36.7	37.4	32.0
Warren	16.3	15.9	15.2	13.3	13.5	13.8	17.2	14.6	15.1	14.5	15.5
Washington	21.9	19.5	20.9	19.8	18.7	18.7	19.6	21.7	20.7	17.6	17.1
Wayne	43.6	42.2	38.1	36.3	34.6	35.2	37.1	36.9	37.6	34.4	33.2
Webster	33.6	30.8	29.8	29.7	30.2	29.8	31.2	30.4	33.1	30.4	29.9
Winnebago	20.7	22.0	20.3	20.5	18.4	17.0	17.9	21.7	23.1	18.5	20.3
Winneshiek	23.3	22.1	21.8	22.4	21.7	22.7	23.5	25.0	25.2	21.1	21.5
Woodbury	30.0	30.6	30.5	28.8	27.3	27.5	28.3	30.4	30.0	28.3	27.0
Worth	28.4	28.0	27.5	27.0	25.7	24.1	25.2	28.8	29.3	24.4	27.1
Wright	24.9	24.6	23.6	24.4	23.6	22.3	24.5	26.5	25.2	21.2	21.3
State of Iowa	26.2	25.8	25.2	24.4	23.5	23.8	25.0	26.8	26.6	24.0	23.7

Reduced-Price Meals

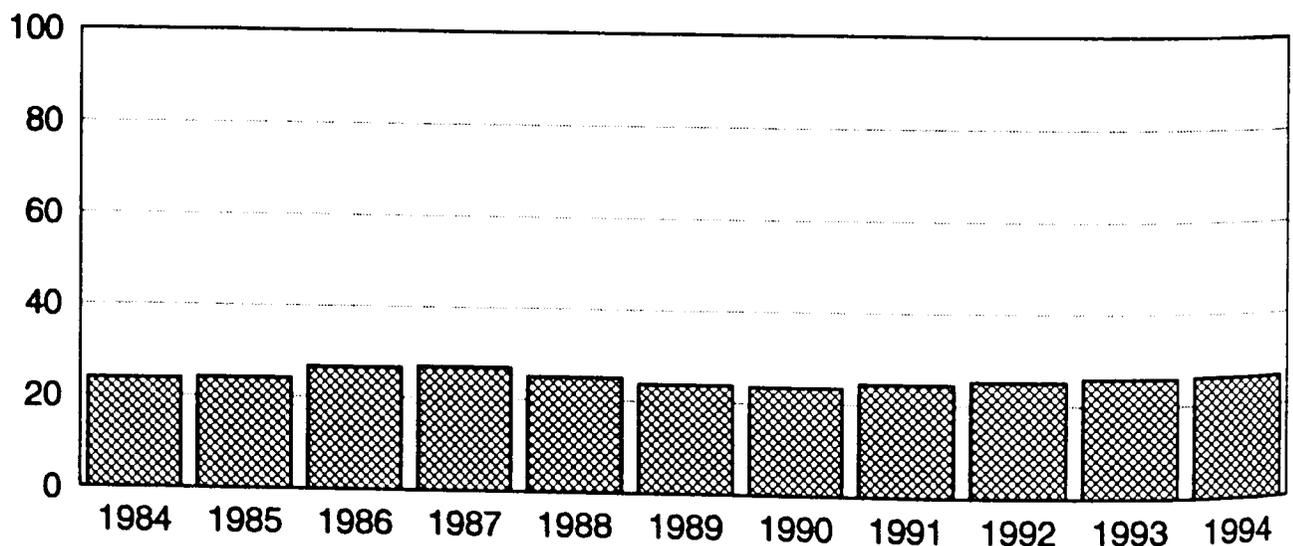
The number of students in Iowa receiving reduced-price meals did not vary as much as the number getting free meals (Table 2), although it has increased each year since 1988-1989. In 1993-1994, an average of 32,484 students qualified for reduced-price meals each month. This was the highest average for the state for reduced-priced meals during the period examined. For 1993-1994, Polk had 2,807 students getting reduced-price meals; the counts also were greater than 1,000 in Black Hawk, Dubuque, Linn, Pottawattamie, Scott, and Woodbury. Twenty-two other counties had 300 or more. Adams (62) had the fewest students receiving reduced-price meals; Jefferson, Lucas, and Ringgold also were under 100.

Percentage of Students Receiving Free or Reduced-Price Meals

In Iowa in 1993-1994, 26.2% of students enrolled in school received either free or reduced-price meals (Table 4). Only the two school years from 1985-1986 through 1986-1987 had higher percentages (Figure 1). In 1993-1994, Johnson (14.8%) had the lowest percentage of students in the meal program. Eight other counties had less than 20% of students qualifying; their figures were at least five percentage points below that of the state. Thirty-three counties had percentages at least five points above the state's figure, with three at 40% or higher (Decatur, Ringgold, Wayne). For 15 counties, the percentages for the 1993-1994 school year were lower than what they had been during 1983-1984. Two (Delaware, Mahaska) dropped by at least two percentage points. Eighty-three counties had greater percentages of students in the meal program in 1993-1994 than in 1983-1984. Seven (Clarke, Crawford, Decatur, Hancock, Kossuth, Shelby, Wayne) had gains of at least 10 percentage points; the increases in Decatur and Shelby were the only ones exceeding 12 points.

Note: Caution must be exercised in comparing the averages among the years. The months for which data were available varied considerably (1983-1984: November 1983 and May 1984; 1984-1985: October and December 1984, January, March, and May 1985; 1985-1986: March and May 1986; 1986-1987: September and October 1986, January and May 1987; 1987-1988: September and October 1987, January, February, and April 1988; 1988-1989: December 1988 and January and February 1989). For the years from 1989-1990 through 1993-1994, October of the first year and January and March of the second year were selected each time. The figures in these tables may differ somewhat from total annual enrollments or total annual numbers of students provided free or reduced-price meals if data had been available for all months in each school year.

Figure 1. Percent of students receiving free or reduced-price school meals in Iowa, 1984-1994.



Farm Numbers and Average Acres in Iowa's Counties:

1880-1992

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Information on Iowa's farms is collected periodically by the U.S. Bureau of the Census. The most recent agriculture census was conducted early in 1993; data were reported by farmers for the calendar year 1992. Many items were listed on the questionnaires sent to each farm; this report examines trends in farm numbers and size in Iowa's counties.

Farm Numbers

The most recent data are for 1992, when 96,543 farms were counted in Iowa (Table 1). This was a decrease of 8,637 since the 1987 Census of Agriculture; and it is down 132,079 from the historic peak of 228,622 in 1900. The number of farms increased from 1880 to 1900, declined to 1920, grew to a second peak in 1935, and decreased since that point (Figure 1). The 1992 census was the first in which Iowa recorded fewer than 100,000 farms.

When 10-year periods are compared, the greatest loss (-38,771) in farm numbers happened from 1954 to 1964. This was an average annual decline of 3,877. This decline slowed substantially during the period from 1964 to 1974 to an average of 2,805. The average annual decline dropped again between 1974 and 1982, when it was 1,336. But the pace of farm loss quickened from 1982 to 1992, when the average annual decline was 1,887.

Changes occurred within counties in much the same manner as they did for the state as a whole. Forty-seven counties reported more farms in 1900 than in any other census; 20 had their greatest numbers in 1935 and 18 were highest in 1880. Of the remaining 14 counties, one hit its peak in 1890, one in 1930, four in 1940, four in 1945, and two in 1950. Calhoun hit its peak in 1930 and had the same number of farms in 1935, while Emmet peaked in 1935 and retained that number in 1940.

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

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

Eighty-three of Iowa's counties had fewer than half the number of farms in 1992 that they had in 1935. Indeed, 37 declined by at least 60 percent, with Polk's decrease of 75.2 percent the only one exceeding 70 percent. In only four counties (Dubuque, Jackson, Lyon, Sioux) did the number of farms drop by 40 percent or less from 1935 to 1992.

Data from the two most recent censuses--1987 and 1992--indicate that all counties except Osceola continued to see declines in farm numbers. The largest numerical loss (-211) was in Pottawattamie, which was the only decrease greater than 200. Thirty-six counties declined by 100-199 farms, 40 by 50-99 farms, and 21 by fewer than 50 farms (Figure 2).

Table 1. Number of Farms in Iowa Counties, 1880-1992.

County	1992	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Adair	891	970	1065	1134	1261	1423	1566	1710	1932	2024	2043	2098	2182	2108	2088	2113	2227	2387	2133	1628
Adams	643	688	737	783	874	924	1037	1233	1355	1512	1534	1582	1637	1630	1719	1629	1726	1949	1722	1601
Allamakee	1000	1062	1134	1185	1210	1439	1557	1717	1898	1983	2080	2088	2128	2108	2156	2175	2230	2368	2308	2441
Appanoose	827	891	900	950	937	1108	1244	1490	1692	1854	1985	2092	2304	2128	2216	2283	2312	2526	2149	2161
Audubon	740	851	905	1000	1063	1211	1348	1505	1661	1716	1781	1820	1879	1823	1768	1818	1897	1988	1885	1141
Benton	1325	1434	1585	1644	1669	1827	1991	2201	2434	2447	2456	2490	2680	2595	2525	2562	2656	2774	2723	3191
Black Hawk	1111	1269	1352	1377	1447	1609	1776	1966	2199	2352	2434	2494	2465	2384	2406	2358	2168	2257	2206	2345
Boone	923	1029	1153	1249	1373	1507	1647	1948	2174	2372	2477	2504	2567	2546	2514	2541	2581	2670	2451	2340
Bremer	1058	1140	1287	1385	1421	1543	1681	1834	1917	2021	2050	2060	2090	2021	2050	2018	1968	2004	1872	1895
Buchanan	1193	1332	1403	1466	1519	1712	1913	2092	2218	2305	2315	2367	2435	2295	2357	2232	2334	2447	2350	2290
Buena Vista	972	1097	1185	1274	1324	1465	1569	1836	2019	2083	2134	2110	2179	2092	2033	2055	1934	1956	1747	1035
Butler	1146	1294	1467	1475	1565	1692	1873	2064	2236	2293	2298	2361	2277	2282	2268	2244	2226	2304	2055	1975
Calhoun	899	992	1164	1216	1266	1383	1518	1738	1930	2040	2133	2097	2174	2174	2008	2060	1958	2134	1709	862
Carroll	1197	1319	1396	1422	1487	1565	1767	1896	2045	2098	2120	2119	2152	2224	2113	2087	2092	2175	2116	1721
Cass	905	942	1087	1157	1240	1398	1469	1695	1984	2135	2142	2205	2243	2198	2158	2182	2292	2395	2213	2006
Cedar	1099	1170	1323	1402	1446	1667	1723	1895	2101	2144	2188	2227	2264	2207	2204	2212	2228	2291	2206	2358
Cerro Gordo	821	929	1045	1119	1146	1331	1507	1732	1988	1979	2013	1996	2048	2004	2019	1944	1861	1957	1588	1387
Cherokee	979	1091	1214	1249	1198	1332	1410	1603	1765	1798	1854	1824	1903	1834	1871	1844	1901	1908	1873	1268
Chickasaw	1007	1054	1180	1206	1298	1403	1607	1766	1948	1960	2024	2053	2105	1979	2050	2003	2012	2197	1961	2008
Clarke	680	697	766	787	908	899	972	1124	1260	1387	1358	1450	1556	1515	1514	1488	1556	1714	1696	1576
Clay	770	877	1045	1093	1093	1287	1345	1577	1783	1796	1860	1840	1790	1800	1772	1769	1668	1684	1300	697
Clayton	1617	1705	1725	1762	1827	2100	2253	2483	2715	2813	2928	2970	3058	2992	3069	3101	3049	3318	3242	3321
Clinton	1362	1437	1570	1655	1689	1880	2098	2335	2518	2605	2641	2649	2802	2748	2719	2729	2844	2786	2593	2899
Crawford	1260	1339	1511	1590	1636	1794	1909	2121	2364	2437	2502	2507	2595	2556	2487	2444	2361	2649	2468	1702
Dallas	944	1081	1208	1268	1340	1485	1594	1786	2123	2346	2335	2448	2468	2386	2322	2320	2446	2607	2404	2307
Davis	892	921	954	958	988	1103	1247	1386	1535	1682	1810	1852	1978	1952	2008	2089	2238	2553	2331	2328
Decatur	648	715	769	791	855	981	1118	1268	1561	1744	1773	1919	2088	1969	2088	2029	2165	2508	2087	1985
Delaware	1367	1452	1481	1504	1499	1719	1901	2036	2177	2209	2223	2248	2345	2254	2245	2284	2208	2241	2109	2277
Des Moines	681	753	815	853	840	1014	1184	1311	1394	1521	1605	1726	1894	1730	1928	1926	1995	2189	2004	2271
Dickinson	554	593	652	700	749	820	906	1075	1204	1234	1291	1256	1290	1224	1167	1043	985	995	521	273
Dubuque	1653	1689	1708	1700	1759	1841	1823	1896	2042	2164	2244	2303	2482	2276	2324	2372	2403	2485	2290	2592
Emmet	557	609	714	757	790	841	952	1100	1199	1253	1262	1315	1315	1285	1279	1193	1047	1056	490	230
Fayette	1416	1510	1641	1742	1833	2044	2358	2615	2818	2964	2929	3109	3195	3038	3112	3157	3124	3261	2941	2869

Table 1. Number of Farms in Iowa Counties, 1880-1992 (continued).

County	1992	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Floyd	882	985	1097	1144	1196	1326	1409	1619	1766	1853	1844	1897	1954	1858	1947	1916	1907	2054	1874	1912
Franklin	929	1012	1168	1263	1287	1425	1653	1885	2076	2178	2146	2158	2154	2082	2080	2040	1915	1874	1697	1429
Fremont	596	719	771	827	896	976	1012	1198	1321	1545	1676	1742	1871	1921	1838	1858	2050	2394	2124	1871
Greene	851	948	1054	1132	1156	1265	1401	1682	1914	2043	2034	2159	2127	2062	2050	2059	2151	2314	2114	1694
Grundy	853	1037	1135	1224	1296	1422	1548	1683	1765	1813	1817	1788	1826	1786	1753	1725	1764	1783	1793	1872
Guthrie	946	960	1105	1154	1327	1422	1593	1800	2045	2151	2279	2394	2524	2379	2166	2315	2330	2492	2248	1722
Hamilton	873	1026	1158	1283	1293	1486	1660	1902	2046	2145	2176	2161	2263	2213	2171	2181	2219	2245	1887	1565
Hancock	939	1052	1176	1275	1330	1455	1641	1833	1974	2032	1964	1998	2035	1936	1865	1875	1636	1703	1067	539
Hardin	986	1065	1208	1278	1300	1485	1616	1941	2021	2170	2126	2062	2239	2179	2134	2129	2235	2294	2101	1930
Harrison	919	1024	1192	1278	1393	1490	1659	1891	2152	2355	2446	2637	2942	2960	2753	2881	2914	3224	2619	1960
Henry	795	893	963	1022	1047	1220	1323	1531	1703	1783	1802	1866	2060	1975	1894	1989	2145	2252	2152	2244
Howard	881	938	1055	1099	1090	1270	1400	1576	1661	1714	1743	1749	1775	1717	1735	1708	1650	1708	1403	1502
Humboldt	677	754	848	895	970	1036	1109	1291	1410	1451	1507	1425	1533	1475	1479	1380	1476	1478	1292	731
Ida	729	787	874	918	896	1061	1155	1270	1403	1454	1408	1389	1453	1425	1432	1398	1474	1493	1483	626
Iowa	977	1057	1150	1212	1235	1416	1560	1774	1939	1988	2095	2155	2247	2152	2236	2256	2309	2454	2115	2446
Jackson	1326	1354	1422	1412	1484	1618	1723	1871	1992	2083	2109	2227	2208	2207	2264	2327	2400	2637	2419	2628
Jasper	1309	1465	1589	1675	1805	1971	2097	2364	2696	2825	2848	2988	3125	3054	3025	2946	3272	3320	2994	3220
Jefferson	740	775	894	968	911	1113	1272	1395	1601	1687	1721	1782	1898	1887	1907	1960	2020	2206	1941	2239
Johnson	1242	1356	1508	1554	1444	1667	1821	2071	2244	2417	2497	2573	2566	2561	2594	2625	2653	2712	2578	2799
Jones	1112	1161	1307	1372	1412	1561	1711	1865	1959	2056	2104	2139	2222	2124	2163	2090	2110	2373	2136	2429
Keokuk	952	1036	1193	1258	1334	1521	1663	1944	2140	2319	2495	2532	2703	2665	2619	2764	2770	2927	2335	2806
Kossuth	1592	1718	1885	2034	2003	2204	2582	2906	3070	3121	3169	3106	3153	3053	2985	2928	2656	2807	1635	757
Lee	872	989	1060	1098	1104	1275	1463	1586	1751	1857	2045	2106	2186	2031	2205	2297	2360	2549	2361	2515
Linn	1529	1690	1810	1857	1926	2118	2343	2683	3133	3436	3702	3728	3848	3615	3645	3666	3619	3567	3258	3475
Louisa	554	634	699	771	776	859	944	1097	1199	1237	1311	1306	1460	1361	1542	1470	1543	1619	1395	1578
Lucas	630	690	769	800	899	938	1088	1185	1345	1482	1644	1665	1730	1594	1706	1617	1815	1892	1611	1691
Lyon	1194	1234	1391	1420	1379	1503	1674	1867	1878	1920	1874	1870	1885	1820	1846	1774	1669	1619	1210	313
Madison	1026	1059	1154	1205	1271	1353	1464	1655	1857	1967	1959	2088	2238	2152	2195	2125	2369	2600	2318	2284
Mahaska	1075	1193	1265	1344	1413	1561	1764	2052	2320	2461	2553	2728	2853	2762	2828	2784	2981	3202	2782	2943
Marion	996	1131	1231	1300	1326	1508	1599	1881	2106	2201	2320	2459	2476	2413	2326	2402	2708	2914	2665	2815
Marshall	949	1073	1201	1226	1360	1555	1696	1974	2151	2221	2292	2302	2401	2352	2253	2315	2432	2400	2178	2486
Mills	563	641	684	793	784	868	979	1114	1209	1358	1405	1500	1663	1640	1637	1571	1730	2016	1625	1578
Mitchell	825	939	1011	1065	1109	1208	1309	1515	1658	1747	1711	1738	1797	1717	1762	1770	1729	1718	1612	1814

Table 1. Number of Farms in Iowa Counties, 1880-1992 (continued).

County	1992	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Monona	822	854	933	1058	1227	1267	1371	1625	1825	1945	1985	2091	2182	2170	2121	2166	2229	2491	2053	1169
Monroe	682	736	761	768	849	916	1034	1174	1317	1416	1526	1643	1768	1695	1914	1793	1917	1987	1639	1653
Montgomery	617	701	769	796	842	984	1123	1269	1397	1516	1642	1633	1677	1615	1626	1650	1766	1940	1841	1794
Muscatine	803	901	1005	1054	1135	1272	1307	1552	1713	1683	1858	1744	1852	1843	1779	1923	1820	1976	1789	1920
O'Brien	1147	1232	1337	1368	1357	1514	1604	1796	1948	1961	1948	1986	2006	1965	1814	1903	1826	1845	1613	560
Osceola	737	731	833	857	903	949	1070	1233	1268	1306	1327	1306	1317	1278	1312	1265	1068	1088	838	495
Page	916	1015	1057	1166	1200	1443	1446	1642	1824	1980	2119	2100	2299	2181	2200	2252	2341	2643	2436	2501
Palo Alto	841	934	1015	1096	1085	1235	1393	1643	1833	1848	1873	1864	1947	1883	1812	1815	1607	1661	1139	573
Plymouth	1615	1740	1874	1942	2037	2173	2296	2595	2722	2817	2859	2842	2881	2779	2808	2699	2704	2643	2401	1212
Pocahontas	919	987	1105	1177	1239	1369	1511	1767	1907	2032	1990	2039	2094	2086	2009	1992	1932	2005	1437	654
Polk	832	1001	1110	1131	1166	1374	1578	1926	2329	2767	2831	3139	3351	3132	2962	2948	3229	3171	2464	2681
Pottawattamie	1441	1652	1828	1888	1918	2277	2501	2820	3330	3493	3665	3793	4205	4073	3736	3781	3935	4239	3765	3254
Poweshiek	933	1047	1152	1221	1350	1457	1574	1825	1991	2079	2126	2161	2263	2236	2148	2179	2253	2322	2150	2338
Ringgold	676	701	776	824	924	1042	1130	1311	1544	1670	1733	1853	2033	1940	1893	1923	2053	2356	2115	1755
Sac	967	1035	1146	1184	1319	1410	1538	1746	1894	1985	1996	2058	1995	1874	1910	1945	2014	1999	1851	1330
Scott	913	973	1097	1171	1121	1349	1549	1778	2030	2079	2363	2287	2379	2263	2269	2316	2405	2347	2205	2508
Shelby	1088	1177	1317	1368	1412	1524	1653	1832	1978	2118	2162	2148	2186	2188	2078	2049	2213	2387	2424	1946
Sioux	1998	2015	2100	2184	2105	2242	2438	2725	2842	2971	2998	3028	3037	2940	2860	2801	2715	2451	2083	908
Story	990	1138	1248	1330	1354	1424	1560	1845	2123	2210	2290	2292	2403	2348	2263	2215	2385	2436	2193	2218
Tama	1294	1404	1508	1628	1702	1929	2081	2335	2537	2579	2753	2724	2781	2700	2539	2484	2602	2753	2571	2809
Taylor	741	774	890	976	1045	1189	1395	1605	1839	2032	2096	2208	2295	2178	2159	2159	2254	2581	2281	2279
Union	671	693	772	823	854	978	1020	1176	1376	1458	1507	1603	1662	1626	1588	1631	1619	1823	1487	1425
Van Buren	752	783	883	967	1006	1113	1245	1385	1532	1666	1758	1756	1945	1893	1901	2013	2126	2242	2034	2272
Wapello	757	899	959	971	997	1190	1287	1494	1610	1794	1891	2008	2123	2013	2052	2112	2255	2311	1912	2042
Warren	1216	1310	1394	1406	1502	1576	1629	1870	2081	2243	2220	2487	2623	2521	2443	2402	2608	2926	2613	2617
Washington	1078	1158	1238	1309	1271	1441	1621	1854	2057	2172	2226	2266	2452	2337	2233	2307	2454	2511	2314	2663
Wayne	734	743	824	872	913	1106	1254	1426	1618	1728	1782	1740	1938	1863	1883	1890	1969	2285	2115	2179
Webster	1059	1235	1357	1417	1550	1681	1787	2149	2463	2546	2625	2678	2799	2637	2628	2566	2478	2564	2311	1735
Winnebago	645	742	847	929	987	1092	1296	1463	1629	1627	1645	1646	1753	1641	1696	1543	1425	1512	975	664
Winneshiek	1495	1633	1724	1826	1816	2015	2257	2442	2580	2711	2858	2887	2933	2863	2954	2915	2887	2960	2860	2720
Woodbury	1254	1360	1579	1659	1797	1970	2117	2407	2784	2873	3133	3192	3334	3227	2905	2969	2976	3231	2577	1154
Worth	642	667	798	874	924	997	1214	1354	1463	1530	1518	1533	1491	1472	1460	1461	1391	1485	1347	1145
Wright	812	882	1009	1090	1195	1353	1489	1708	1855	1983	1977	1987	1999	1983	1943	1927	1885	1878	1395	785
State of Iowa	96543	105180	115413	121339	126104	140354	154162	174707	192933	203159	208934	213318	221986	214928	213490	213439	217044	228622	201903	185351

Table 2. Average Size (Acres) of Farms in Iowa Counties, 1880-1992.

County	1992	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Adair	369	364	334	312	291	261	232	207	188	177	176	170	164	170	162	164	160	151	149	129
Adams	373	354	345	326	297	287	250	211	194	176	174	167	161	158	161	163	152	140	144	116
Allamakee	322	302	310	303	285	249	237	208	186	188	184	176	176	176	172	171	167	162	150	142
Appanoose	289	275	263	276	264	248	241	204	181	168	160	147	139	142	136	135	133	129	134	136
Audubon	363	315	314	296	264	228	206	185	168	164	159	154	150	155	157	153	148	142	142	115
Benton	322	293	279	272	267	245	225	201	182	180	182	174	166	170	172	168	169	165	160	138
Black Hawk	270	241	228	229	220	197	184	167	154	143	139	136	138	141	141	144	157	155	154	147
Boone	358	327	289	274	257	229	211	179	159	147	142	140	135	137	139	134	132	131	131	125
Bremer	224	206	195	184	177	168	158	144	141	133	131	129	129	132	128	130	136	138	141	130
Buchanan	279	253	239	233	217	195	182	168	158	154	153	150	145	152	147	153	151	146	147	143
Buena Vista	352	327	305	287	270	245	223	195	178	173	169	171	166	171	172	171	181	184	167	147
Butler	275	254	229	232	222	208	191	173	160	156	156	152	155	154	156	156	158	156	162	147
Calhoun	384	345	302	292	278	261	237	205	183	174	167	171	164	165	173	170	178	170	168	121
Carroll	301	278	260	258	248	231	209	192	176	172	169	168	166	161	164	170	168	164	155	130
Cass	384	354	318	306	284	252	238	206	180	168	166	159	156	161	159	163	155	148	146	137
Cedar	308	295	264	259	252	217	205	186	170	165	163	156	155	158	156	157	157	152	156	144
Cerro Gordo	376	342	313	306	297	261	225	197	176	174	173	175	170	172	172	173	181	180	176	155
Cherokee	343	310	281	284	282	264	250	222	202	199	196	194	191	194	187	191	190	186	172	142
Chickasaw	273	262	245	241	221	207	189	174	159	158	153	150	148	154	148	150	153	142	144	135
Clarke	348	329	309	316	272	281	255	226	206	188	191	180	170	171	168	167	168	151	148	134
Clay	409	360	333	318	308	276	257	218	196	194	190	191	193	192	182	193	201	205	199	122
Clayton	283	264	259	256	244	215	201	183	170	165	160	156	152	155	150	150	151	139	135	127
Clinton	270	262	254	256	238	211	199	179	166	160	158	157	149	149	148	154	149	152	157	145
Crawford	329	304	282	271	265	246	230	207	189	186	179	177	172	176	175	179	186	170	169	161
Dallas	331	304	286	268	264	238	223	198	169	155	158	145	148	152	149	154	146	138	143	124
Davis	309	290	292	285	292	255	237	212	197	179	171	163	156	157	152	145	139	125	130	129
Decatur	404	390	391	385	353	296	278	238	202	184	184	168	159	162	154	159	147	130	141	139
Delaware	246	244	238	231	226	194	181	172	161	160	158	155	150	157	153	152	159	159	163	140
Des Moines	283	280	276	270	257	227	197	180	159	151	145	139	130	139	125	126	125	114	120	107
Dickinson	365	356	349	346	326	284	252	221	194	189	183	187	182	190	188	200	212	223	195	149
Dubuque	208	198	198	207	197	188	192	181	175	167	163	156	147	159	151	154	152	148	154	144
Emmet	404	374	344	331	298	281	255	218	200	193	196	188	187	193	186	194	214	224	189	134
Fayette	284	279	266	254	238	208	187	171	157	152	153	144	141	146	141	139	143	136	141	126

Table 2. Average Size (Acres) of Farms in Iowa Counties, 1880-1992 (continued).

County	1992	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Floyd	326	301	275	265	257	232	213	188	171	164	167	163	158	163	155	154	157	148	145	139
Franklin	370	342	314	291	271	245	220	193	176	168	169	168	168	174	172	175	186	194	188	157
Fremont	507	429	398	378	360	328	301	260	221	203	186	179	166	159	158	153	145	137	135	154
Greene	431	373	341	326	308	272	254	211	187	174	177	165	168	171	169	165	166	158	155	125
Grundy	372	308	282	267	246	224	207	190	180	176	176	174	174	177	179	182	180	178	178	156
Guthrie	348	330	295	290	263	256	220	193	177	168	163	153	147	152	151	155	152	143	145	130
Hamilton	381	339	309	283	273	245	218	191	175	170	168	166	160	164	161	162	161	162	162	112
Hancock	351	331	299	277	264	244	214	192	180	177	181	179	174	182	185	184	208	205	192	163
Hardin	337	317	295	279	268	235	217	181	171	162	165	163	157	161	160	164	157	153	151	128
Harrison	434	378	343	320	299	282	260	219	195	184	171	160	145	145	145	144	140	131	149	130
Henry	284	259	249	244	238	213	195	171	153	147	146	140	127	133	133	127	123	121	120	120
Howard	296	287	264	251	248	226	206	186	177	170	170	166	165	166	166	164	173	170	170	150
Humboldt	415	365	325	300	282	270	248	215	190	186	181	188	180	181	180	185	182	186	184	135
Ida	374	330	297	301	289	259	235	213	192	188	192	192	188	190	187	194	183	181	177	173
Iowa	329	312	314	297	289	252	234	201	189	181	177	170	163	167	160	160	156	150	162	137
Jackson	261	255	244	247	247	232	213	197	188	181	181	170	172	174	171	169	162	150	155	140
Jasper	329	292	282	259	243	228	211	187	165	160	158	152	145	147	146	149	139	140	145	134
Jefferson	307	303	277	267	257	229	202	183	161	152	151	148	138	138	137	134	130	122	129	117
Johnson	229	225	218	213	218	202	192	171	164	155	151	145	143	146	145	143	143	142	147	126
Jones	290	278	257	250	236	215	204	188	177	172	167	164	157	163	159	162	162	150	158	137
Keokuk	339	331	294	285	262	233	212	182	168	154	144	141	133	132	137	129	129	124	142	124
Kossuth	386	349	324	304	301	274	238	211	198	195	192	194	192	197	194	196	213	209	185	146
Lee	305	269	252	251	244	219	201	186	167	159	146	141	136	141	138	132	132	123	132	120
Linn	228	211	204	198	194	180	170	151	133	124	116	115	110	114	112	114	119	121	127	117
Louisa	345	314	299	287	280	263	242	214	193	189	178	179	160	168	151	155	154	147	154	136
Lucas	348	299	285	289	253	254	233	208	190	174	159	153	153	160	154	152	145	139	150	125
Lyon	291	278	257	250	253	243	217	196	192	190	195	195	193	199	192	201	211	222	213	196
Madison	298	277	272	264	264	259	235	208	186	173	173	158	155	161	154	158	146	136	142	137
Mahaska	293	275	266	254	232	220	198	173	150	143	137	129	123	125	121	123	118	112	120	113
Marion	270	247	238	237	220	207	201	178	163	154	146	139	140	141	142	140	127	120	127	108
Marshall	330	308	281	273	261	231	206	179	164	160	153	153	149	151	154	153	147	150	157	141
Mills	422	383	372	322	322	310	274	238	214	197	194	179	159	160	153	156	151	135	155	151
Mitchell	319	288	270	268	266	242	219	187	176	169	170	168	160	164	163	157	166	168	156	141

Table 2. Average Size (Acres) of Farms in Iowa Counties, 1880-1992 (continued).

County	1992	1987	1982	1978	1974	1969	1964	1959	1954	1950	1945	1940	1935	1930	1925	1920	1910	1900	1890	1880
Monona	478	441	406	388	351	322	298	258	232	216	209	203	191	187	176	177	180	155	169	129
Monroe	328	306	292	299	261	249	235	210	192	180	175	160	148	150	131	138	135	132	146	145
Montgomery	389	354	330	328	299	264	238	210	188	174	164	163	158	165	154	157	151	140	141	128
Muscatine	274	259	237	232	220	210	194	166	154	154	144	146	136	139	139	137	142	134	143	139
O'Brien	316	294	271	276	264	243	224	199	182	182	184	181	176	182	183	183	189	195	185	133
Osceola	354	316	295	290	279	259	230	204	192	193	191	192	191	195	188	196	221	227	190	177
Page	348	333	315	294	274	239	232	202	185	170	160	158	148	151	147	146	140	128	134	121
Palo Alto	403	368	340	323	311	289	255	215	194	190	190	188	181	184	182	184	202	206	177	141
Plymouth	321	300	276	267	262	247	233	206	196	191	190	190	187	188	185	191	200	205	187	179
Pocahontas	391	354	323	308	289	265	242	203	188	179	182	177	173	174	171	175	182	182	173	123
Polk	276	238	223	228	234	199	185	154	134	115	109	102	98	105	106	111	105	117	131	122
Pottawattamie	377	329	304	293	294	246	226	202	174	166	161	152	139	142	146	150	146	142	145	126
Poweshiek	365	320	309	297	273	246	226	200	184	175	171	168	159	162	166	164	160	158	164	155
Ringgold	434	407	405	395	349	320	289	253	218	201	195	180	163	170	168	164	158	144	139	128
Sac	377	348	313	303	279	260	238	205	191	184	182	175	180	184	183	183	179	182	178	168
Scott	255	237	218	206	207	176	165	145	131	128	115	118	116	121	112	118	115	119	123	109
Shelby	325	299	271	268	267	242	224	199	183	176	172	173	169	171	174	173	167	156	103	123
Sioux	248	234	224	222	229	218	197	175	166	161	160	159	158	163	157	167	175	194	189	149
Story	335	287	271	262	251	243	223	189	166	159	154	153	147	151	152	148	147	146	149	124
Tama	311	297	278	263	248	232	211	188	173	172	163	162	160	162	172	171	169	161	163	147
Taylor	376	376	328	324	296	266	234	206	180	164	161	152	148	151	148	150	149	131	140	122
Union	352	337	305	296	297	270	255	223	190	180	176	164	159	158	157	159	156	147	154	132
Van Buren	321	313	307	289	277	253	229	203	187	173	169	163	152	152	152	145	141	134	144	128
Wapello	258	235	232	224	219	198	184	166	154	140	133	127	122	126	124	121	115	114	129	128
Warren	249	232	230	231	221	216	204	180	166	155	155	140	133	140	140	140	131	120	128	128
Washington	287	278	273	261	264	236	209	183	167	158	157	151	140	144	150	146	138	137	142	125
Wayne	385	379	352	347	331	281	255	223	201	191	184	182	168	172	168	168	164	146	150	135
Webster	386	337	309	298	278	255	240	203	178	172	166	162	156	165	163	166	171	167	159	116
Winnebago	360	327	291	269	257	242	195	172	154	154	152	152	144	151	146	158	167	158	134	111
Winneshiek	239	231	232	224	215	198	184	172	163	157	150	148	146	148	143	147	148	143	144	154
Woodbury	353	332	303	310	290	262	236	209	186	181	170	164	160	160	161	166	176	162	164	146
Worth	350	332	294	277	257	248	204	184	168	164	165	163	167	169	170	166	178	168	162	151
Wright	436	390	357	332	306	277	245	212	191	183	185	180	180	184	180	179	188	195	194	140
State of Iowa	325	301	283	274	262	239	219	194	176	169	165	160	154	158	156	157	156	151	151	134

Farm Size

While farm numbers have been declining, the average size of Iowa farms has been increasing (Table 2). Indeed, this trend has been accelerating. From 1880 to 1935, average size increased from 134 to 154 acres, a gain of 20 acres or 15 percent. From 1935 to 1954, the gain was about another 20 acres. In the next 20-year period, the increase was from 176 acres in 1954 to 262 acres in 1974, an addition of 86 acres or 49 percent. And from 1974 to 1992, another 63 acres (24%) were added and the average rose to 325 acres. In the approximately 100 years between 1890 and 1992, the average size of an Iowa farm more than doubled (Figure 3).

The greatest change in average acreage over a ten-year period occurred between 1959 and 1969, when farm size gained 45 acres from 194 to 239. This was the middle of an extended time (1954-1974) during which more acres were added to the size of the average farm than any other 20-year span. The gain of 42 acres from 1982 to 1992 is only slightly below the 1959-1969 increase.

Average farm size decreased in eight counties (Black Hawk, Bremer, Linn, Lyon, Muscatine, Polk, Wapello, Winneshiek) from 1880 to 1935, with the largest loss (-24 acres) in Polk. Fifteen others had increases of at least 40 acres, with Clay gaining more than 70 acres. From 1935 to 1992, every county had an increase in the average number of acres per farm. The increase in average size was at least 200 acres in 32 counties. Farm size more than doubled in 66 counties from 1935 to 1992. In 13 counties, the change in the average number of acres per farm was at least 150 percent, although the increase was greater than 200 percent only in Fremont.

Changes between 1987 and 1992 continue previous trends. For the state, farm size increased by 24 acres. A total of 98 counties had larger farms in 1992 than in 1987. Increases of 50 acres or more took place in Fremont, Greene, Grundy, Harrison, and Humboldt counties, and 29 others gained from 30 to 49 acres. Another 49 added 10-29 acres to their 1987 averages. The remaining 16 had changes in average acres that varied only slightly between 1987 and 1992; 15 grew by 1-9 acres and Taylor remained the same (Figure 4).

Note: These data are from the 1992 CENSUS OF AGRICULTURE (Volume 1: Geographic Area Series, Part 15: Iowa: State and County Data) published by the U.S. Bureau of the Census in 1994. Agricultural censuses from 1954 through 1987 also were used, as were general censuses from 1880 through 1950.

Figure 1. Number of farms in Iowa, 1880-1992.

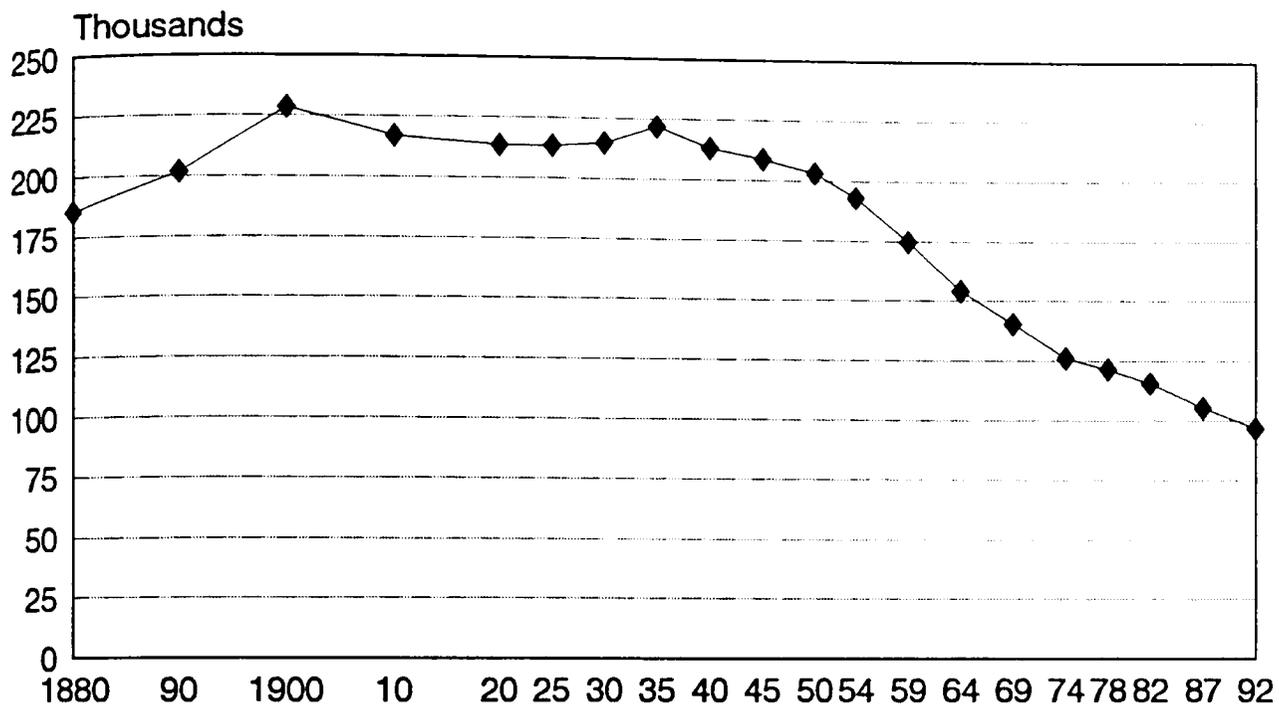


Figure 2. Change in number of farms, 1987-1992.

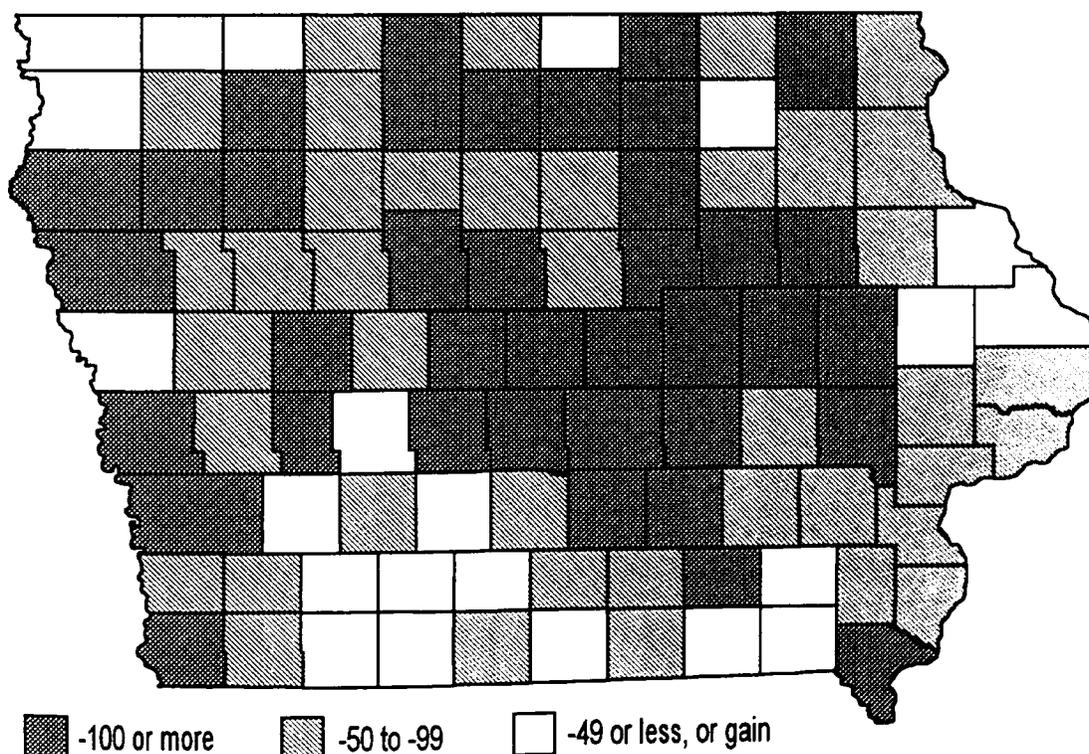


Figure 3. Average size (in acres) of farms in Iowa, 1880-1992.

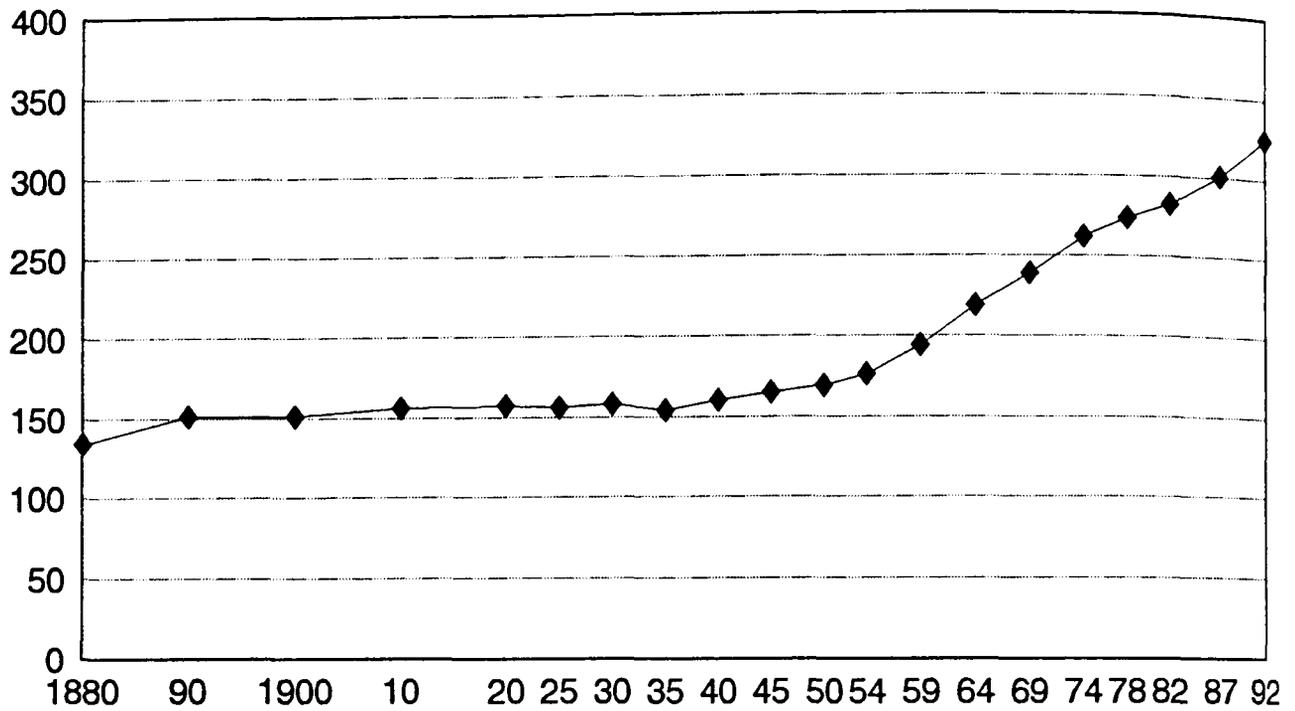
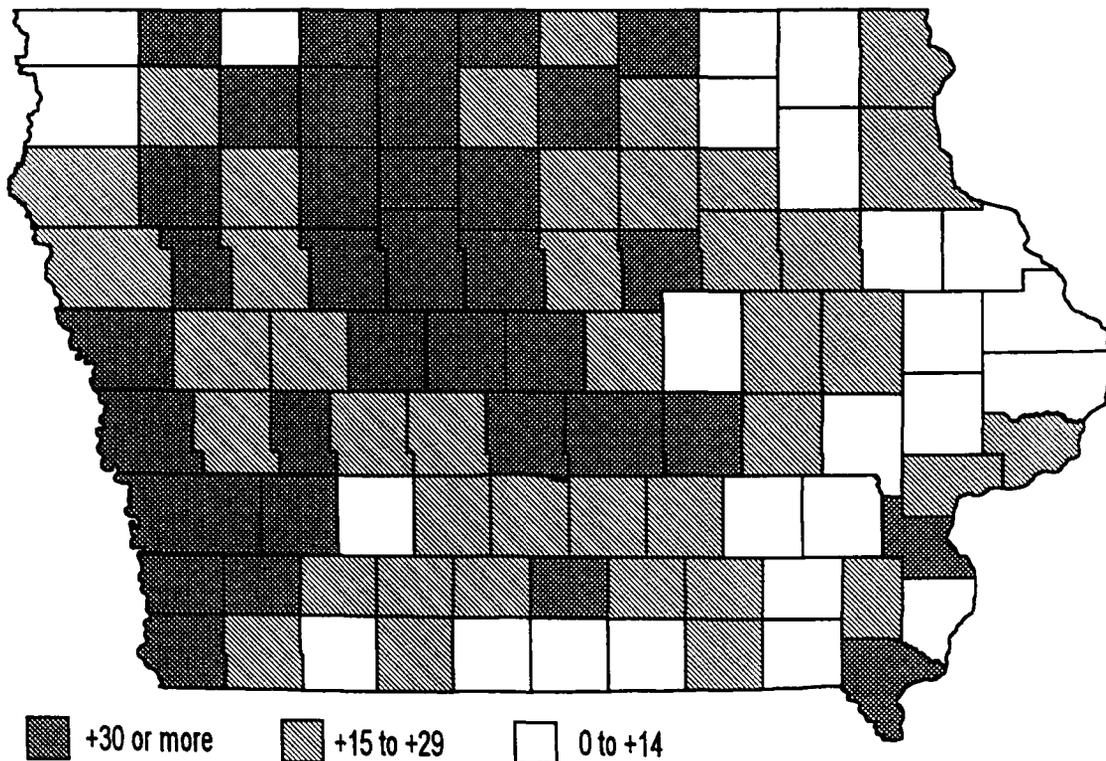


Figure 4. Change in average acres per farm, 1987-1992.



Tenure and Type of Organization of Farms in Iowa's Counties: 1978-1992

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The U.S. Bureau of the Census conducts the Census of Agriculture every five years. Data for the 1992 census began to be released in 1994. This report examines tenure and type of operation in Iowa's counties from the last four agriculture censuses: 1978, 1982, 1987, and 1992.

Tenure

Three categories of tenure are reported by the census bureau. In Iowa, 43,541 farms were operated by full owners (those who owned all the land they farmed) in 1992 (Figure 1); they accounted for 45.1 percent of the state's 96,543 farms (Table 1). Another 34,720 (36.0%) were part owners (operated land they owned and also land they rented from others). Tenants, who operated only land rented from others or worked on shares for others, accounted for the remaining 18,282 (18.9%) farms. The percentages of farms held by full owners and tenants decreased little from 1982, although the numbers in each category were somewhat larger then. In the category of part owners, the percentage increased slightly, with a higher percentage of part owners in 1992 than in 1982.

In 1992, Clayton and Dubuque counties reported more than 900 full owners. Six other counties (Delaware, Jackson, Linn, Sioux, Warren, Winneshiek) had from 700 to 899 full owners. Four counties (Dickinson, Emmet, Humboldt, Osceola) had fewer than 200 full owners. Eight counties (Benton, Fayette, Kossuth, Lyon, O'Brien, Plymouth, Pottawattamie, Sioux) had at least 500 part owners, topped by the 820 in Sioux. Sixteen had 400-499 part owners. Mills and Monroe, reported fewer than 200 part owners. Kossuth and Sioux were the only counties with at least 400 tenant farmers. Tenants numbered less than 100 in 17 counties in 1992.

Eight counties (Allamakee, Appanoose, Davis, Decatur, Monroe, Van Buren, Wapello, Warren) had at least 60 percent of their operators in the full owner category in 1992, led by Davis at 65.5 percent. Another 22 counties had at least half of their farms operated by full owners. Full owners accounted for less than 30 percent of the farm operations in five counties (Emmet, Humboldt, Kossuth, Osceola, Pocahontas) in 1992. Part owners totaled at least 40 percent of all farmers in 25 counties, with Palo Alto the highest at 45.9 percent. The lowest percentage of part owners occurred in Dubuque (25.2%), although ten other counties also were under 30 percent. Percentages of tenants were highest in Humboldt (33.1%), and Pocahontas (31.8%). Forty-four counties reported that tenants accounted for 20-29.9 percent of all farm operations in 1992. Twelve had less than 10 percent of their farms in the tenant category; Appanoose (6.5%) had the lowest percentage.

The number of counties with full owners outnumbering those in either of the two other categories totaled 67 in 1992. Part owners were more numerous than either full owners or tenants in 32 counties. Tenants and part owners both were greater in number than full owners in four counties (Humboldt, Kossuth, Osceola, Pocahontas) in 1992. In comparison, full owners exceeded the other two groups in 70 counties in 1987; the remaining 29 counties had more part owners than full owners or tenants that year. The tendency to farm land that is not owned is greater in north central and northwest Iowa than elsewhere.

Total farms declined by 18,870 (-16.3%) from 1982 to 1992; all counties reported a loss in the total farms category. Nearly half of the total loss in number of farms came from the full-owners category, which declined by 9,393 from 1982 to 1992. The only increase (+2) in full owners occurred in Madison. In

Table 1. Farms by Tenure in Iowa's Counties, 1978-1992.

County	Numbers of Farms in 1992				Numbers of Farms in 1987				Numbers of Farms in 1982				Numbers of Farms in 1978			
	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants
		Owners	Part Owners			Owners	Part Owners			Owners	Part Owners			Owners	Part Owners	
Adair	891	440	331	120	970	474	342	154	1065	531	362	172	1134	543	378	213
Adams	643	328	237	78	688	376	220	92	737	367	236	134	783	384	246	153
Allamakee	1000	601	306	93	1062	613	303	146	1134	645	333	156	1185	712	325	148
Appanoose	827	530	243	54	891	591	216	84	900	561	251	88	950	591	286	73
Audubon	740	323	277	140	851	379	293	179	905	434	282	189	1000	454	305	241
Benton	1325	536	509	280	1434	576	482	376	1585	689	544	352	1644	740	534	370
Black Hawk	1111	517	399	195	1269	620	413	236	1352	678	426	248	1377	683	445	249
Boone	923	375	350	198	1029	402	415	212	1153	445	470	238	1249	471	479	299
Bremer	1058	502	359	197	1140	566	329	245	1287	695	370	222	1385	817	334	234
Buchanan	1193	556	389	248	1332	646	387	299	1403	691	443	269	1466	785	411	270
Buena Vista	972	311	413	248	1097	360	427	310	1185	373	494	318	1274	409	467	398
Butler	1146	499	427	220	1294	572	440	282	1467	701	427	339	1475	697	445	333
Calhoun	899	278	403	218	992	324	400	268	1164	363	436	365	1216	350	439	427
Carroll	1197	444	475	278	1319	519	464	336	1396	573	461	362	1422	564	468	390
Cass	905	370	353	182	942	401	327	214	1087	472	366	249	1157	490	374	293
Cedar	1099	474	373	252	1170	532	380	258	1323	612	426	285	1402	660	410	332
Cerro Gordo	821	302	338	181	929	335	357	237	1045	423	391	231	1119	450	403	266
Cherokee	979	303	392	284	1091	381	409	301	1214	478	426	310	1249	466	421	362
Chickasaw	1007	494	370	143	1054	514	349	191	1180	612	363	205	1206	670	353	183
Clarke	680	392	204	84	697	395	212	90	766	447	204	115	787	454	220	113
Clay	770	272	322	176	877	320	347	210	1045	337	400	308	1093	366	398	329
Clayton	1617	911	471	235	1705	987	417	301	1725	1010	446	269	1762	1051	433	278
Clinton	1362	615	482	265	1437	646	439	352	1570	761	513	296	1655	792	529	334
Crawford	1260	555	434	271	1339	628	411	300	1511	688	475	348	1590	724	481	385
Dallas	944	460	307	177	1081	512	349	220	1208	517	428	263	1268	536	444	288
Davis	892	584	238	70	921	627	227	67	954	627	259	68	958	623	250	85
Decatur	648	389	208	51	715	436	192	87	769	436	220	113	791	440	247	104
Delaware	1367	731	356	280	1452	766	362	324	1481	838	388	255	1504	922	329	253
Des Moines	681	325	237	119	753	358	257	138	815	421	267	127	853	426	291	136
Dickinson	554	195	230	129	593	216	223	154	652	214	256	182	700	231	257	212
Dubuque	1653	951	417	285	1689	1022	369	298	1708	1048	391	269	1700	1100	386	214
Emmet	557	165	229	163	609	174	218	217	714	228	264	222	757	229	261	267
Fayette	1416	671	500	245	1510	766	469	275	1641	847	519	275	1742	942	512	288

Table 1. Farms by Tenure in Iowa's Counties, 1978-1992 (continued).

County	Numbers of Farms in 1992				Numbers of Farms in 1987				Numbers of Farms in 1982				Numbers of Farms in 1978			
	Total	Full Owners		Part Owners	Tenants	Total	Full Owners		Part Owners	Tenants	Total	Full Owners		Part Owners	Tenants	
		Owners	Owners				Owners	Owners				Owners	Owners			
Floyd	882	343	362	177	985	404	389	192	1097	464	431	202	1144	496	403	245
Franklin	929	311	366	252	1012	356	374	282	1168	445	424	299	1263	474	449	340
Fremont	596	241	242	113	719	310	258	151	771	282	306	183	827	287	290	250
Greene	851	292	357	202	948	320	363	265	1054	377	406	271	1132	373	420	339
Grundy	853	270	354	229	1037	349	363	325	1135	416	394	325	1224	431	418	375
Guthrie	946	447	338	161	960	486	303	171	1105	551	341	213	1154	542	377	235
Hamilton	873	284	356	233	1026	343	395	288	1158	350	460	348	1283	431	481	371
Hancock	939	293	370	276	1052	344	416	292	1176	397	444	335	1275	450	434	391
Hardin	986	343	388	255	1065	391	416	258	1208	460	431	317	1278	481	456	341
Harrison	919	412	323	184	1024	467	346	211	1192	551	374	267	1278	576	417	285
Henry	795	403	276	116	893	463	286	144	963	474	342	147	1022	515	330	177
Howard	881	478	274	129	938	501	300	137	1055	590	309	156	1099	608	307	184
Humboldt	677	196	257	224	754	230	298	226	848	280	312	256	895	286	322	287
Ida	729	264	266	199	787	267	296	224	874	347	291	236	918	323	341	254
Iowa	977	479	339	159	1057	526	343	188	1150	573	364	213	1212	611	393	208
Jackson	1326	768	365	193	1354	779	376	199	1422	851	359	212	1412	830	377	205
Jasper	1309	625	485	199	1465	690	490	285	1589	720	534	335	1675	779	537	359
Jefferson	740	424	222	94	775	440	246	89	894	482	278	134	968	549	289	130
Johnson	1242	668	380	194	1356	732	402	222	1508	803	459	246	1554	810	464	280
Jones	1112	522	356	234	1161	595	346	220	1307	665	372	270	1372	739	347	286
Keokuk	952	492	333	127	1036	510	372	154	1193	581	395	217	1258	650	399	209
Kossuth	1592	447	685	460	1718	502	704	512	1885	592	714	579	2034	642	726	666
Lee	872	482	304	86	989	578	318	93	1060	601	328	131	1098	624	353	121
Linn	1529	829	456	244	1690	955	478	257	1810	1019	503	288	1857	1067	505	285
Louisa	554	240	219	95	634	282	235	117	699	304	251	144	771	345	253	173
Lucas	630	372	212	46	690	419	189	82	769	484	219	66	800	527	216	57
Lyon	1194	419	509	266	1234	411	493	330	1391	512	504	375	1420	487	537	396
Madison	1026	612	310	104	1059	617	310	132	1154	610	363	181	1205	647	374	184
Mahaska	1075	521	372	182	1193	592	381	220	1265	593	427	245	1344	653	420	271
Marion	996	539	337	120	1131	615	333	683	1231	659	390	182	1300	682	399	219
Marshall	949	400	342	207	1073	466	384	223	1201	523	403	275	1226	538	396	292
Mills	563	248	196	119	641	292	215	134	684	302	231	151	793	346	255	192
Mitchell	825	364	319	142	939	438	330	171	1011	470	338	203	1065	495	342	228

Table 1. Farms by Tenure in Iowa's Counties, 1978-1992 (continued).

County	Numbers of Farms in 1992				Numbers of Farms in 1987				Numbers of Farms in 1982				Numbers of Farms in 1978			
	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants
		Owners	Owners			Owners	Owners			Owners	Owners					
Monona	822	324	297	201	834	347	282	225	933	334	336	263	1058	440	318	300
Monroe	682	445	173	64	736	488	184	64	761	491	210	60	768	484	209	75
Montgomery	617	274	225	118	701	330	226	145	769	348	255	166	796	338	245	213
Muscatine	803	365	283	155	901	423	309	169	1005	493	319	193	1054	506	345	203
O'Brien	1147	344	510	293	1232	380	508	344	1337	442	554	341	1368	416	582	370
Osceola	737	198	333	206	731	194	332	205	833	258	347	228	857	242	340	275
Page	916	437	348	131	1015	496	349	170	1057	473	368	216	1166	525	387	254
Palo Alto	841	252	386	203	934	302	359	273	1015	322	395	298	1096	358	407	331
Plymouth	1615	605	673	337	1740	658	665	417	1874	711	688	475	1942	728	687	527
Pocahontas	919	240	387	292	987	275	390	322	1105	280	469	356	1177	285	451	441
Polk	832	459	261	112	1001	599	264	138	1110	585	329	196	1131	527	386	218
Pottawattamie	1441	591	523	327	1652	713	552	387	1828	821	571	436	1888	776	595	517
Poweshiek	933	406	369	158	1047	472	350	225	1152	527	383	242	1221	586	382	253
Ringgold	676	395	216	65	701	397	196	108	776	400	253	123	824	390	293	141
Sac	967	329	420	218	1035	364	378	293	1146	408	400	338	1184	392	428	364
Scott	913	403	325	185	973	422	357	194	1097	467	382	248	1171	509	385	277
Shelby	1088	397	433	258	1177	432	407	338	1317	553	386	378	1368	580	397	391
Sioux	1998	763	820	415	2015	779	812	424	2100	835	815	450	2184	843	891	450
Story	990	420	368	202	1138	478	407	253	1248	521	446	281	1330	527	475	328
Tama	1294	578	479	237	1404	606	507	291	1508	638	540	330	1628	677	560	391
Taylor	741	402	254	85	774	383	266	125	890	456	281	153	976	520	305	151
Union	671	385	226	60	693	403	205	85	772	437	239	96	823	470	229	124
Van Buren	752	485	210	57	783	480	227	76	883	517	276	90	967	572	273	122
Wapello	757	458	230	69	899	581	225	93	959	576	295	88	971	599	277	95
Warren	1216	736	347	133	1310	838	322	150	1394	881	351	162	1406	855	378	173
Washington	1078	509	363	206	1158	515	392	251	1238	586	411	241	1309	670	374	265
Wayne	734	423	241	70	743	405	244	94	824	461	259	104	872	458	283	131
Webster	1059	355	442	262	1235	448	451	336	1357	455	555	347	1417	462	527	428
Winnebago	645	221	266	158	742	249	314	179	847	328	319	200	929	355	343	231
Winneshiek	1495	827	424	244	1633	928	424	281	1724	917	518	289	1826	1095	465	266
Woodbury	1254	592	409	253	1360	609	449	302	1579	732	490	357	1659	772	515	372
Worth	642	251	276	115	667	260	283	124	798	303	316	179	874	350	323	201
Wright	812	245	354	213	882	268	378	236	1009	288	437	284	1090	309	451	330
State of Iowa	96543	43541	34720	18282	105180	48226	35207	21747	115413	52934	38427	24052	121339	55682	39094	26563

Table 2. Acres Operated by Tenure in Iowa's Counties, 1978-1992.

County	Numbers of Acres in 1992				Numbers of Acres in 1987				Numbers of Acres in 1982				Numbers of Acres in 1978			
	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants
		Owners	Owners			Owners	Owners			Owners	Owners					
Adair	328970	88441	211124	29405	353365	94098	210610	48657	355269	113020	191977	50272	354070	110384	187173	56513
Adams	239800	79789	130775	29236	243607	87212	121802	34593	254071	93608	109325	51138	255463	90018	114235	51210
Allamakee	321728	143017	154604	24107	321226	145479	133982	41765	351756	164413	144596	42747	359027	173315	145170	40542
Appanoose	238609	98263	122691	17655	244661	108908	108393	27360	236501	109707	103339	23455	262469	121772	121563	19134
Audubon	268506	64436	162978	41092	268437	64802	149891	53744	283782	87705	145777	50300	295537	84976	149676	60885
Benton	427215	86929	249406	90880	419480	91377	221250	106853	441810	122761	234373	84676	447606	125878	227098	94630
Black Hawk	299502	58252	189468	51782	305516	64464	179467	61585	308845	85216	176953	46676	315533	89106	170024	56403
Boone	330080	55946	201654	72480	336666	59502	211067	66097	333139	65373	205599	62167	341673	62677	201498	77498
Bremer	236668	56630	146186	33852	235086	62021	127684	45381	250402	85579	124567	40256	254675	101620	108766	44289
Buchanan	333115	81035	196319	55761	337126	93345	178653	65128	335502	103935	177336	54231	342125	120327	167909	53889
Buena Vista	341923	51815	215094	75014	358798	60645	211328	86825	361120	70844	209592	80684	365193	73374	187400	104419
Butler	315448	67287	195291	52870	328114	77772	181461	68881	336000	104053	161541	70406	341968	103890	167826	70252
Calhoun	345567	39244	226049	80274	342160	48797	203452	89911	351373	57271	193562	100540	354925	49483	185149	120293
Carroll	359755	67145	208423	84187	366656	76074	193571	97011	363436	101001	172471	89964	366727	97699	177783	91245
Cass	347353	74976	212353	60024	333083	69295	193527	70261	345726	90141	186103	69482	354562	90243	180743	83576
Cedar	338801	72855	183585	82361	345483	81358	178878	85247	349453	101468	179781	68204	363027	106741	173031	83255
Cerro Gordo	308497	62033	186340	60124	317974	53103	185127	79744	327445	75708	194784	56953	342149	70409	196627	75113
Cherokee	336254	56131	190888	89235	338708	66209	188545	83954	340594	92670	173972	73952	354147	89437	169884	94826
Chickasaw	274905	74924	167929	32052	276216	88165	142807	45244	289542	92332	153397	43813	290704	109803	139540	41361
Clarke	236409	95102	117535	23772	229423	88448	115704	25271	236759	94729	109981	32049	248716	102669	108250	37797
Clay	314812	44863	205054	64895	315558	50758	193250	71550	347722	61672	200642	85408	347482	63577	190823	93082
Clayton	456954	187155	210093	59706	450742	191967	182323	76452	447361	203220	180565	63576	450268	213004	172059	65205
Clinton	368114	89607	216430	62077	376952	94570	195063	87319	398062	116434	218390	63238	423769	126623	221802	75344
Crawford	415104	92017	240147	82940	406895	106364	211150	89381	426523	121798	215314	89411	431385	135430	200658	95297
Dallas	312173	68166	169459	74548	328319	69568	182937	75814	346023	73326	196901	75796	340158	75038	186179	78941
Davis	275319	123730	134576	17013	266999	126970	124895	15134	278852	128461	133995	16396	273215	126934	120829	25452
Decatur	261494	100775	142909	17810	278714	106932	127774	44008	300684	123249	139142	38293	304501	105741	160237	38523
Delaware	336131	129634	141809	64688	353940	141377	143876	68687	351861	149259	149434	53168	348137	165016	127405	55716
Des Moines	192467	47715	114401	30351	210843	52715	120998	37130	224770	71127	126601	27042	230303	66390	133819	30094
Dickinson	202249	30181	126198	45870	211002	32735	115846	62421	227557	47063	125900	54594	242140	40327	138912	62901
Dubuque	343870	152645	137642	53583	334112	157506	120473	56133	338912	176228	114342	48342	351079	193666	116478	40935
Emmet	224811	27654	137605	59552	227932	28799	118891	80242	245412	45054	130698	69660	250193	47829	119715	82649
Fayette	401625	106773	230094	64758	420682	125464	218629	76589	437010	148252	225835	62923	443169	170286	203723	69160

Table 2. Acres Operated by Tenure in Iowa's Counties, 1978-1992 (continued).

County	Numbers of Acres in 1992				Numbers of Acres in 1987				Numbers of Acres in 1982				Numbers of Acres in 1978			
	Total	Full		Part Owners Tenants	Total	Full		Part Owners Tenants	Total	Full		Part Owners Tenants	Total	Full		Part Owners Tenants
		Owners	Owners			Owners	Owners			Owners	Owners			Owners	Owners	
Floyd	287586	40172	195666	51748	296488	58250	187962	50276	301722	64020	190725	46977	302628	74379	169964	58285
Franklin	343367	54710	205851	82806	346389	67333	189224	89832	366773	89904	197421	79448	367747	84465	193389	89893
Fremont	302352	53428	182341	66583	308796	53496	176296	79004	306786	63626	171665	71495	312615	61525	160375	90715
Greene	366927	59976	221152	85799	353283	48319	208841	96123	359023	74530	208464	76029	368471	61317	207420	99734
Grundy	317205	33785	208568	74852	319657	44368	182797	92492	320558	59413	178378	82767	327046	60911	170265	95870
Guthrie	328885	86680	197221	44984	316631	88365	172136	56130	326495	93393	176326	56776	334760	97725	177419	59616
Hamilton	332377	41957	200737	89683	347353	50619	201018	95716	358259	61254	205600	91405	363100	70586	204336	88178
Hancock	329151	45800	193258	90093	347774	55621	198241	93912	351156	68978	194070	88108	353537	72800	179819	100918
Hardin	332358	50753	206128	75477	337990	55770	198631	83589	355823	73622	204651	77550	356303	73217	198914	84172
Harrison	399155	95606	228018	75531	387190	92140	213773	81277	408601	123446	194432	90723	409139	108573	209210	91356
Henry	225835	62369	128397	35069	231617	72938	124904	33775	239403	69690	137990	31723	249753	73990	134349	41414
Howard	260781	88165	142921	29695	269285	92186	137592	39507	278861	105149	134760	38952	276234	108316	122475	45443
Humboldt	280797	37391	159957	83449	275393	42150	149753	83490	275422	56691	141370	77361	268537	52634	134002	81901
Ida	272831	57147	152830	62854	260103	52928	144232	62943	259676	72904	126520	60252	276075	68879	139731	67465
Iowa	321285	103991	177966	39328	329705	105337	177044	47324	361465	132060	178039	51366	359978	149744	166455	43779
Jackson	346569	140256	155214	51099	345612	140709	155425	49478	347358	152319	146937	48102	348442	145674	154513	48255
Jasper	431185	98497	263406	69282	427196	99614	241084	86498	447362	112372	244915	90075	433773	126057	217409	90307
Jefferson	227073	81966	112732	32375	234816	82201	126689	25926	247992	85892	128468	33632	258832	96803	124899	37130
Johnson	284537	84994	159017	40526	305634	92289	163775	49570	328240	106282	172460	49498	331150	102519	174103	54528
Jones	321950	87396	175356	59198	322206	104854	161199	56153	336524	122214	154456	59854	343089	129210	146473	67406
Keokuk	322401	98956	186215	37230	343164	99430	200960	42774	350693	116033	178681	55979	358368	122433	180557	55378
Kossuth	615034	97694	366225	151115	599153	93344	357463	148346	611480	128967	328752	153761	618369	121588	316728	180053
Lee	266083	79628	162506	23949	266090	91635	152661	21794	266741	99954	141734	25053	276019	102649	146208	27162
Linn	349252	94527	198279	56446	356000	104956	192614	58430	368525	117246	187740	63539	366987	123170	177789	66028
Louisa	191291	44660	117346	29285	198855	50896	114853	33106	208670	57599	110640	40431	221613	58605	116616	46392
Lucas	219370	78868	127290	13212	206519	76788	104864	24867	219497	95404	104206	19887	231571	106490	103723	21358
Lyon	347599	65708	215371	66520	342938	61300	195288	86350	357493	86798	189814	80881	355626	77461	188187	89978
Madison	305685	106354	166552	32779	293643	87061	164311	42271	313648	88173	179390	46085	318081	98158	172292	47631
Mahaska	314887	87766	171124	55997	328093	96197	166930	64966	336033	97531	174811	63691	341873	103617	164379	73877
Marion	268520	79323	158825	30372	279315	89676	145031	44608	292414	88392	153779	50243	308223	95705	149247	63271
Marshall	312858	56350	188892	67616	330012	68742	198857	62413	337775	81666	188868	67241	334260	82448	173677	78135
Mills	237862	46215	134917	56730	245380	53401	135958	56021	254238	66765	133123	54350	255328	58958	129569	66801
Mitchell	263047	55592	167669	39786	270582	69381	157819	43382	273000	86594	139131	47275	285605	94774	138200	52631

Table 2. Acres Operated by Tenure in Iowa's Counties, 1978-1992 (continued).

County	Numbers of Acres in 1992				Numbers of Acres in 1987				Numbers of Acres in 1982				Numbers of Acres in 1978			
	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants	Total	Full		Tenants
		Owners	Owners			Owners	Owners			Owners	Owners					
Monona	392835	75729	223673	93433	377030	73600	201168	102262	378621	82295	208761	87565	410285	92867	194550	122868
Monroe	223638	108204	94804	20630	225145	102704	103297	19144	222200	110876	99970	11354	229839	112915	99353	17571
Montgomery	240100	57618	138821	43661	247891	63834	128503	55554	253540	67983	130295	55262	260771	62707	127226	70838
Muscatine	219832	46280	129278	44274	233026	60521	129656	42849	238127	77780	119351	40996	244175	68041	129689	46445
O'Brien	362109	40402	234721	86986	362209	51793	220083	90333	362863	72213	210826	79824	377479	67367	224005	86107
Osceola	260780	36025	160491	64264	230671	27502	150303	52866	246057	48476	144101	53480	248102	45030	133337	69735
Page	318778	81822	188976	47980	337772	87944	184582	65246	333108	91886	177095	64127	343237	91127	178073	74037
Palo Alto	338730	48373	210255	80102	343857	60651	189867	93339	345327	68425	188902	88000	353886	70599	188520	94767
Plymouth	518247	93519	328098	96630	521469	113862	293119	114488	518018	133872	273998	110148	518273	130494	263840	123939
Pocahontas	359442	42398	215103	101941	349376	46288	199346	103742	357387	51270	205621	100496	362276	47645	188540	126091
Polk	229818	46075	149716	34027	238256	51758	143867	42631	247261	53745	145626	47890	258309	45503	159320	53486
Pottawattamie	542855	95684	315198	131973	543881	105635	304708	133538e	555348	132723	286418	136207	552414	115620	279737	157057
Poweshiek	340982	75508	213186	52288	335448	78426	189876	67146	355718	97000	200225	58493	362745	106449	185231	71065
Ringgold	293266	117927	153841	21498	285258	99026	145896	40336	313971	115946	155172	42853	325257	102789	166445	56023
Sac	364172	53044	234602	76526	359677	59748	202932	96997	359157	88721	181707	88729	358531	80167	178108	100256
Scott	233217	47414	139931	45872	230461	46776	140753	42932	239166	59190	135621	44355	241109	60437	128317	52355
Shelby	353570	65728	213319	74523	351387	66329	191417	93641	356831	105750	161466	89615	366326	106747	165054	94525
Sioux	495769	85445	313485	96839	472363	86605	290584	95174	469990	123046	259361	87583	484658	124973	270664	89021
Story	331211	49120	205209	76882	327081	52204	202959	71918	338392	63267	203435	71690	348585	60703	205629	82253
Tama	401858	91680	249725	60453	417178	95546	242399	79233	419586	104095	234886	80605	427616	112229	225508	89879
Taylor	278922	101024	154769	23129	291057	101405	148571	41081	292301	103606	143356	45339	315741	118642	149478	47621
Union	236265	79219	137360	19686	233595	85466	117992	30137	235561	92851	116440	26270	243263	88211	121710	33342
Van Buren	241422	104388	115421	21613	244939	94128	129970	20841	270672	105278	142324	23070	279620	115461	134907	29252
Wapello	195021	68407	109684	16930	211685	75524	103488	32673	222717	80890	118743	23084	217074	86564	108034	22476
Warren	302487	96645	161089	44753	303783	111745	147982	44056	320840	113444	162922	44474	325078	114560	157910	52608
Washington	309508	86026	169252	54230	321504	85525	174959	61020	337850	100094	182166	55590	341441	118306	166274	56861
Wayne	282723	96304	156636	29783	281269	101381	139528	40360	290174	117836	133075	39263	302325	108339	146197	47789
Webster	408462	58717	242113	107632	416623	70094	230002	116527	419632	65294	249998	104340	422396	58069	232648	131679
Winnebago	231977	31408	156382	44187	242430	41318	155672	45440	246550	55698	144789	46063	249879	54683	143350	51846
Winneshiek	357684	148617	155959	53108	377025	162657	155188	59180	400613	157537	182042	61034	409915	192771	161864	55280
Woodbury	442247	109327	242802	90118	451759	104409	249818	97532	478624	134614	242459	101551	513890	140451	269696	103743
Worth	224632	31650	161845	31137	221678	40434	141502	39742	234314	45530	147567	41217	242409	50042	146765	45602
Wright	353683	38432	229804	85447	344010	49295	214455	80260	360468	52045	219570	88853	362102	53841	212242	96019
State of Iowa	31346565	7480004	18208604	5657957	31638130	7963226	17255971	6418933	32611964	9348834	17113389	6149741	33258233	9573411	16756897	6927925

Table 3. Farms by Type of Organization in Iowa Counties, 1978-1992.

County	Number of Farms in 1992					Number of Farms in 1987					Number of Farms in 1982					Number of Farms in 1978				
	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other
Adair	730	110	44	3	4	816	111	38	0	5	874	160	27	1	3	947	158	22	1	6
Adams	536	87	16	1	3	573	95	18	0	2	646	69	19	1	2	671	99	11	0	2
Allamakee	838	139	15	5	3	856	188	10	3	5	935	181	13	3	2	989	181	8	0	7
Appanoose	738	70	11	1	7	782	91	13	1	4	778	101	14	4	3	807	128	11	0	4
Audubon	659	65	14	2	0	751	85	8	3	4	807	83	10	3	2	876	107	9	4	4
Benton	1113	135	69	2	6	1199	158	67	2	8	1315	194	63	2	11	1400	197	36	3	8
Black Hawk	909	117	78	1	6	1053	137	68	6	5	1106	157	76	4	9	1160	157	53	2	5
Boone	726	73	111	3	10	840	85	90	6	8	973	97	75	4	4	1086	118	34	4	7
Bremer	950	67	34	5	2	1014	84	35	1	6	1126	106	46	4	5	1223	130	26	1	5
Buchanan	1022	119	39	7	6	1137	142	40	6	7	1214	146	36	3	4	1303	143	16	2	2
Buena Vista	793	111	57	6	5	909	125	52	2	9	986	134	49	2	14	1074	160	33	0	7
Butler	1006	96	40	4	0	1129	108	48	6	3	1296	118	44	6	3	1294	141	36	1	3
Calhoun	783	75	34	1	6	851	96	38	2	5	1025	112	18	1	8	1072	128	9	0	7
Carroll	1023	114	53	2	5	1110	131	63	4	11	1192	133	56	9	6	1222	148	37	8	7
Cass	777	93	28	3	4	807	100	21	5	9	919	132	26	3	7	964	161	23	3	6
Cedar	894	109	80	9	7	976	119	71	1	3	1086	155	75	1	6	1182	166	42	2	10
Cerro Gordo	677	69	68	5	2	788	75	56	8	2	868	113	48	7	9	959	111	39	2	8
Cherokee	820	101	50	2	6	927	123	36	2	3	1045	138	24	4	3	1107	118	20	3	1
Chickasaw	869	102	31	2	3	909	107	27	3	8	1018	128	25	4	5	1054	139	11	1	1
Clarke	606	51	22	0	1	630	48	15	1	3	670	78	12	3	3	697	70	15	2	3
Clay	620	67	77	3	3	749	67	52	4	5	878	112	46	3	6	940	113	30	6	4
Clayton	1287	269	47	6	8	1347	314	34	3	7	1411	282	24	6	2	1490	250	19	2	1
Clinton	1157	125	72	2	6	1219	136	72	7	3	1322	172	65	6	5	1403	207	37	6	2
Crawford	1071	141	34	11	3	1179	118	35	3	4	1316	151	32	3	9	1393	167	22	3	5
Dallas	781	96	50	6	11	920	95	56	2	8	1027	124	49	3	5	1081	151	20	7	9
Davis	790	78	20	2	2	843	63	10	3	2	834	100	12	1	7	852	90	13	1	2
Decatur	561	63	18	3	3	627	69	16	2	1	663	83	20	1	2	684	89	16	0	2
Delaware	1140	174	41	6	6	1221	182	41	2	6	1255	184	31	2	9	1334	139	23	6	2
Des Moines	562	55	58	1	5	623	63	62	1	4	663	90	54	0	8	714	110	23	1	5
Dickinson	474	44	34	0	2	505	52	30	0	6	549	72	26	4	1	592	83	21	1	3
Dubuque	1352	263	33	2	3	1389	275	17	5	3	1436	244	13	6	9	1451	226	11	3	9
Emmet	483	51	21	2	0	543	45	18	2	1	627	61	20	3	3	641	88	20	3	5
Fayette	1197	166	44	5	4	1254	188	57	4	7	1381	198	53	4	5	1528	179	30	1	4

Table 3. Farms by Type of Organization in Iowa Counties, 1978-1992 (continued).

County	Number of Farms in 1992					Number of Farms in 1987					Number of Farms in 1982					Number of Farms in 1978				
	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other
Floyd	730	79	63	5	5	838	79	60	3	5	927	107	53	4	6	998	115	21	3	7
Franklin	779	80	66	3	1	855	92	55	5	5	995	106	54	8	5	1100	127	30	4	2
Fremont	471	67	53	3	2	568	107	35	4	5	634	101	33	1	2	670	125	28	1	3
Greene	679	96	69	3	4	771	102	67	2	6	873	106	57	7	11	973	113	39	2	5
Grundy	703	74	66	8	2	846	105	76	7	3	942	107	72	8	6	1009	151	51	11	2
Guthrie	844	74	22	1	5	837	93	22	2	6	968	108	19	3	7	1030	103	17	1	3
Hamilton	733	77	54	5	4	871	85	57	3	10	996	109	44	3	6	1110	138	28	2	5
Hancock	795	98	38	2	6	890	112	40	4	6	985	150	33	5	3	1102	139	21	4	9
Hardin	827	88	52	12	7	899	94	63	6	3	990	128	76	7	7	1073	154	35	7	9
Harrison	779	88	40	4	8	897	95	24	5	3	1045	112	26	4	5	1145	114	13	5	1
Henry	663	72	47	4	9	760	75	50	3	5	824	90	42	2	5	861	115	40	2	4
Howard	778	82	20	1	0	803	107	22	2	4	906	121	24	1	3	950	132	11	0	6
Humboldt	585	57	27	4	4	649	69	28	1	7	725	97	20	2	4	774	104	14	3	0
Ida	604	80	36	3	6	658	97	26	1	5	737	104	23	4	6	785	110	20	1	2
Iowa	834	104	31	5	3	899	113	36	1	8	974	147	22	3	4	1030	161	18	1	2
Jackson	1131	156	33	3	3	1153	161	32	2	6	1219	173	25	0	5	1204	174	30	1	3
Jasper	1044	162	90	4	9	1182	193	80	4	6	1293	215	67	9	5	1364	253	42	7	9
Jefferson	631	76	29	1	3	658	76	33	2	6	767	91	28	6	2	858	87	14	2	7
Johnson	987	177	64	9	5	1091	187	67	4	7	1216	212	71	6	3	1301	202	36	8	7
Jones	905	117	85	3	2	950	136	68	2	5	1070	164	66	3	4	1141	195	31	4	1
Keokuk	782	111	50	2	7	869	123	39	2	3	959	194	30	6	4	1052	172	27	2	5
Kossuth	1372	150	62	4	4	1501	147	57	8	5	1631	196	48	7	3	1757	240	28	4	5
Lee	729	78	58	3	4	811	124	46	3	5	891	126	36	3	4	945	136	14	1	2
Linn	1294	137	82	4	12	1450	150	79	6	5	1545	184	67	3	11	1600	198	51	3	5
Louisa	450	56	40	4	4	515	70	39	4	6	565	91	38	0	5	627	121	22	0	1
Lucas	561	51	13	1	4	602	70	14	1	3	675	85	8	0	1	701	85	11	1	2
Lyon	999	102	85	5	3	1095	89	42	3	5	1219	126	37	3	6	1276	121	17	1	5
Madison	913	77	21	6	9	924	108	20	2	5	988	142	18	2	4	1047	144	10	0	4
Mahaska	897	109	57	5	7	1004	138	43	5	3	1033	199	26	6	1	1108	217	15	1	3
Marion	842	110	37	3	4	955	140	27	5	4	1040	165	19	0	7	1097	176	19	3	5
Marshall	758	109	66	5	11	871	118	73	6	5	962	149	82	5	3	1006	156	53	4	7
Mills	471	51	35	3	3	516	88	34	0	3	545	110	24	2	3	632	136	16	2	7
Mitchell	700	97	25	0	3	807	98	27	2	5	854	125	23	3	6	927	120	11	5	2

Table 3. Farms by Type of Organization in Iowa Counties, 1978-1992 (continued).

County	Number of Farms in 1992					Number of Farms in 1987					Number of Farms in 1982					Number of Farms in 1978				
	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other
Monona	679	106	26	3	8	739	92	18	2	3	786	123	21	0	3	886	154	11	1	6
Monroe	601	64	12	5	0	646	76	7	3	4	680	71	4	6	0	682	74	6	1	5
Montgomery	514	70	25	3	5	587	87	18	2	7	627	115	20	3	4	637	142	12	2	3
Muscatine	673	74	49	4	3	755	83	58	1	4	835	103	61	1	5	886	129	31	2	6
O'Brien	977	105	57	2	6	1056	112	55	3	6	1144	134	48	5	6	1167	162	28	5	6
Osceola	605	59	70	3	0	641	48	40	1	1	734	59	33	4	3	761	83	9	3	1
Page	775	102	27	4	8	844	140	25	2	4	874	151	20	7	5	960	178	18	5	5
Palo Alto	707	71	56	0	7	815	72	41	1	5	851	103	52	3	6	932	125	31	3	5
Plymouth	1385	163	60	1	6	1516	166	50	3	5	1624	209	35	1	5	1669	231	35	1	6
Pocahontas	787	84	38	4	6	849	87	44	2	5	978	72	44	4	7	1036	97	33	5	6
Polk	681	87	50	5	9	806	112	65	4	14	916	117	56	14	7	962	115	44	4	6
Pottawattamie	1145	163	119	9	5	1376	179	80	14	3	1479	253	77	14	5	1557	285	31	9	6
Poweshiek	771	123	32	2	5	888	128	21	0	10	971	155	22	2	2	1011	184	20	1	5
Ringgold	578	80	13	0	5	608	74	12	2	5	661	96	14	4	1	685	125	9	2	3
Sac	794	120	46	4	3	840	124	57	7	7	926	161	52	6	1	988	159	26	6	5
Scott	759	76	75	1	2	839	64	64	2	4	931	99	62	4	1	1012	115	37	6	1
Shelby	927	103	55	1	2	1025	108	39	2	3	1139	132	38	5	3	1190	149	21	5	3
Sioux	1630	256	85	21	6	1694	251	58	6	6	1763	278	44	8	7	1865	270	30	7	12
Story	783	98	87	8	14	916	109	95	9	9	1042	108	81	7	10	1131	138	48	4	9
Tama	1075	163	49	1	6	1176	172	50	2	4	1272	187	45	1	3	1396	190	34	4	4
Taylor	648	69	18	1	5	666	89	15	1	3	758	106	24	0	2	828	126	15	1	6
Union	586	51	24	4	6	608	63	20	1	1	680	71	16	2	3	731	73	13	3	3
Van Buren	624	83	39	5	1	679	73	26	3	2	755	99	24	4	1	845	103	15	1	3
Wapello	687	45	23	1	1	817	60	20	0	2	857	74	25	1	2	868	78	21	0	4
Warren	1057	109	39	5	6	1119	142	40	5	4	1175	169	35	10	5	1206	166	21	8	5
Washington	810	152	101	14	1	905	149	90	10	4	954	193	73	12	6	1042	199	59	7	2
Wayne	638	77	13	2	4	642	84	9	1	7	702	101	17	1	3	768	95	8	0	1
Webster	908	97	46	6	2	1074	107	43	5	6	1172	129	39	8	9	1242	146	18	8	3
Winnebago	536	72	36	0	1	647	57	38	0	0	730	85	29	0	3	809	108	12	0	0
Winneshiek	1243	219	23	2	8	1382	222	15	2	12	1434	265	20	1	4	1554	244	19	4	5
Woodbury	1087	121	32	2	12	1200	125	25	2	8	1382	158	25	6	8	1433	194	22	7	3
Worth	561	56	22	1	2	586	59	17	1	4	680	92	15	2	9	760	102	10	2	0
Wright	682	73	46	7	4	776	58	44	1	3	864	97	42	2	4	942	120	17	3	8
State of Iowa	81127	10028	4552	372	464	89188	11088	4094	310	500	97610	13213	3725	385	480	103884	14345	2373	295	442

Table 4. Acres Operated by Type of Organization in Iowa Counties, 1978-1992.

County	Number of Acres in 1992					Number of Acres in 1987					Number of Acres in 1982					Number of Acres in 1978				
	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other
Adair	254905	38595	33016	.	.	284561	38722	29666	0	416	277695	55908	.	.	265	281598	54216	.	.	1234
Adams	188989	39019	10654	.	.	187830	42074	.	0	.	209290	30736	13438	.	.	210235	35531	.	0	.
Allamakee	249195	62918	8172	.	.	242400	69209	7954	597	1066	277288	64523	7907	.	.	284888	66348	.	0	.
Appanoose	210637	18899	6662	.	.	202268	31751	.	.	960	191720	32980	8996	1318	1487	206657	44623	9985	0	1204
Audubon	221985	.	5130	.	0	222271	39082	4954	.	.	225800	52364	3706	.	.	239573	47054	7188	.	.
Benton	325124	54359	45824	.	.	328942	48644	.	.	1030	344326	57770	.	.	2651	355233	65675	24431	668	1599
Black Hawk	219378	29126	48448	.	.	224859	29572	48366	1614	1105	212877	38352	51168	2626	3822	236541	42936	.	.	3935
Boone	214185	28108	85042	.	.	244112	27332	59910	2252	3060	254862	26590	48448	1363	1876	277475	36919	22901	1804	2574
Bremer	204955	14773	15563	.	.	200999	16633	.	.	1072	206112	19362	23732	19	1177	213954	26134	.	.	1256
Buchanan	264846	38908	27543	1277	541	271009	38286	25770	.	.	272532	37654	24531	53	732	293285	35844	12428	.	.
Buena Vista	266170	39233	35177	693	650	282863	43728	.	.	1438	277614	53432	.	.	3319	288702	56886	18196	0	1409
Butler	258461	25690	30282	1015	0	267525	28576	30132	1121	760	274205	29969	29322	.	.	286271	37125	.	.	801
Calhoun	292362	33278	19004	.	.	289783	32016	.	.	1201	298847	41997	8527	.	.	301703	49173	.	0	.
Carroll	298490	39764	20785	.	.	303309	37057	.	.	1457	298976	36825	24916	1819	900	304269	44838	15145	1545	930
Cass	277293	39736	24100	.	.	277168	37310	14871	2166	1568	274867	50958	18975	42	884	278315	55337	18575	.	.
Cedar	250403	40864	43789	2658	1087	259220	41713	.	.	757	252120	45702	51095	.	.	281497	54703	23549	.	.
Cerro Gordo	241745	29535	35409	.	.	245055	.	36892	2123	.	249559	39316	32865	3159	2546	271960	39810	.	.	1951
Cherokee	267573	38729	28762	.	.	280255	38074	19828	.	.	284521	40136	14878	498	561	301225	38296	14282	.	.
Chickasaw	218217	33713	22410	.	.	229743	25598	18576	1771	528	232310	32797	17981	4676	1778	233565	45072	.	.	.
Clarke	203261	19524	.	0	.	202375	18711	.	.	879	189933	37929	6555	1486	856	208488	30331	.	.	519
Clay	228265	34490	50914	.	.	257320	26146	30376	916	800	275514	41260	29203	.	.	292213	37602	15921	.	.
Clayton	341432	87897	24078	1718	1829	333370	95483	17717	2888	1284	346889	84818	12813	.	.	361065	74920	12368	.	.
Clinton	291225	35600	40471	.	.	299068	37187	39977	594	126	316003	46948	34062	356	693	349812	55514	16981	.	.
Crawford	338799	50491	23688	1564	562	336224	39794	24695	.	.	353173	46323	25434	51	1542	364919	50762	15170	.	.
Dallas	237474	32317	36772	3253	2357	241455	34904	.	.	1751	260620	41065	40800	2202	1336	271214	50195	14767	2365	1617
Davis	219755	36695	18521	.	.	224276	31733	10456	.	.	226440	41735	.	.	707	228498	36797	.	.	.
Decatur	198993	33300	17482	.	.	208375	45933	22078	.	.	222538	55588	19976	.	.	225572	59071	.	0	.
Delaware	261160	46426	26953	.	.	281081	47894	.	.	1111	280817	49368	19932	.	.	296793	37204	12957	.	.
Des Moines	142431	20079	29302	.	.	159093	22331	.	.	3145	167509	31859	24539	0	863	179461	39778	.	.	1323
Dickinson	156138	15509	.	0	.	164657	21104	23824	0	1417	181178	25393	20196	.	.	192061	31277	17785	.	.
Dubuque	252647	73947	12725	.	.	258134	63599	7720	3902	757	270971	55646	5476	1768	5051	285059	56275	4563	.	.
Emmet	185146	.	14689	.	0	192463	.	.	.	.	205998	23488	15425	137	364	202035	34304	13141	150	563
Fayette	317330	49660	33570	.	.	319680	57055	41198	447	2302	336237	54761	42075	.	.	363970	60202	.	.	.

^aData suppressed by the census bureau to protect confidentiality.

Table 4. Acres Operated by Type of Organization in Iowa Counties, 1978-1992 (continued).

County	Number of Acres in 1992					Number of Acres in 1987					Number of Acres in 1982					Number of Acres in 1978				
	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other
Floyd	217871	27406	39959	1590	760	227706	25206	42264	444	868	227462	32735	39514	1284	727	252915	37214	10724	861	914
Franklin	273775	36960	32115	.	.	277521	33243	28661	1973	4991	291424	37262	33115	4011	961	298623	47414	18641	.	.
Fremont	220606	36997	43845	.	.	233208	41731	29306	3015	1536	233215	41618	31298	.	.	237439	47834	.	.	476
Greene	267043	44527	54686	.	.	270859	36562	.	.	1495	270522	41476	43706	2271	1048	290667	46840	.	.	2010
Grundy	224465	30232	58312	.	.	222599	30115	64441	1820	682	222446	29977	62583	4612	940	236384	49537	34043	.	.
Guthrie	275148	33607	18419	.	.	260600	35460	18698	.	.	268332	42363	13882	406	1512	283951	36029	.	.	1125
Hamilton	249644	41702	38073	2173	785	261336	43574	40232	415	1796	281309	44736	29802	426	1986	296274	53005	.	.	605
Hancock	269852	32503	25298	.	.	281916	40154	23826	595	1283	277612	48174	24245	385	740	292571	45813	11597	1470	2086
Hardin	261042	33420	34144	1863	1889	267963	32749	35209	459	1610	263087	43422	45780	1470	2064	278716	51214	22816	1009	2548
Harrison	329043	29493	32949	187	7483	325244	33990	26573	1043	340	345173	41315	20898	.	.	358829	40426	9221	.	.
Henry	175428	20052	26249	.	.	190657	19016	19862	1615	467	192857	23407	.	.	977	202959	28919	.	.	652
Howard	219057	.	14322	.	0	222432	33432	.	.	519	226401	34744	16346	.	.	225927	38001	10422	0	1884
Humboldt	229549	30039	18401	.	.	225627	34219	.	.	1570	222470	39498	.	.	623	224644	33707	9466	720	0
Ida	212964	37065	21194	.	.	209946	36994	.	.	974	215449	32238	10932	387	670	224867	40340	10358	.	.
Iowa	245692	30558	26681	.	.	249660	41885	.	.	1172	263817	48754	23321	25175	398	260129	52455	.	.	.
Jackson	272664	51593	19309	.	.	278545	50254	.	.	209	286155	46681	.	0	.	278396	54985	.	.	390
Jasper	306395	57072	62708	.	.	317302	58443	48697	382	2372	333155	71795	39367	1660	1385	330287	76960	22297	2480	1749
Jefferson	173450	32659	20598	.	.	183485	28277	.	.	801	202403	27238	17762	.	.	222067	28529	6933	.	.
Johnson	201898	51228	29289	1455	667	219105	54185	30348	976	1020	237862	57842	31378	990	168	259046	57013	13580	846	665
Jones	226564	41330	52089	.	.	230717	47971	.	.	160	249117	47091	38067	2094	155	266546	55510	19699	.	.
Keokuk	235350	45948	37082	.	.	264629	52210	.	.	614	252325	77941	18555	.	.	274595	64521	.	.	327
Kossuth	497531	67296	48989	505	713	503232	62277	30354	2270	1020	498229	71460	39715	1406	670	510800	87268	16920	2741	640
Lee	192369	35444	35699	.	.	190025	47103	27091	587	1284	190759	45329	29054	336	1263	210135	51134	14494	.	.
Linn	258380	38010	49345	265	3252	272855	37076	44816	139	1114	275499	48711	42184	131	2000	274663	51192	38149	1531	1452
Louisa	143097	18298	26325	2883	688	149094	22334	23694	.	.	156053	32123	19674	0	820	170326	40058	.	0	.
Lucas	177361	26837	11512	.	.	172012	20649	.	.	2438	175521	35149	.	0	.	187452	33501	7613	.	.
Lyon	265629	27031	52840	.	.	287186	25406	29129	28	1189	297285	36322	23295	.	.	310124	36229	8423	.	.
Madison	245782	34312	19878	2893	2820	233648	37253	.	.	1757	250318	40255	.	.	2695	262999	40610	.	0	.
Mahaska	232269	43573	36119	1552	1374	263712	43061	19359	746	1215	251560	69507	13539	.	.	256404	71390	.	.	959
Marion	204335	40618	21823	.	.	215925	41545	20187	1142	516	225961	55464	9766	0	1223	239889	53715	12819	577	1223
Marshall	222878	35534	48456	2073	3917	242952	33721	47770	2724	2845	238801	39911	55133	.	.	256216	41237	32148	2024	2635
Mills	174421	33060	27522	.	.	179836	42099	22279	0	1166	190796	46704	.	.	2522	194517	48669	.	.	3700
Mitchell	208345	37972	.	0	.	222603	32085	15209	.	.	219909	37392	12605	.	.	235785	41784	6692	.	.

Table 4. Acres Operated by Type of Organization in Iowa Counties, 1978-1992 (continued).

County	Number of Acres in 1992					Number of Acres in 1987					Number of Acres in 1982					Number of Acres in 1978				
	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other	Ind./ Family	Part- ner- ship	Family Corp.	Other Corp.	Other
Monona	312506	48852	25655	2685	3137	313314	43306	.	.	1040	299875	51605	.	0	.	321753	71256	.	.	2064
Monroe	185524	27773	7905	2436	0	194917	25624	3070	.	.	195761	24547	1471	421	0	194030	31086	.	.	.
Montgomery	193843	24344	20013	.	.	204015	31041	.	.	1527	202616	38903	10631	.	.	198574	53014	.	.	720
Muscatine	156796	25754	36230	.	.	170968	29097	.	.	1248	171301	31952	.	.	1014	182988	41800	.	.	1531
O'Brien	292905	34412	32532	.	.	296848	35756	28491	.	.	292251	43152	25222	1532	706	305383	54295	13559	3706	536
Osceola	190510	.	46338	.	0	187896	.	.	.	.	203836	18736	22405	660	420	214529	25526	7524	.	.
Page	259741	36956	19718	732	1631	263010	53427	18579	.	.	262008	51710	14137	2968	2285	269081	57679	12842	2984	651
Palo Alto	264636	30093	42076	0	1925	281165	29146	.	.	1150	272048	36776	33495	880	2128	281423	46611	22630	.	.
Plymouth	425932	60895	29479	.	.	431664	63167	26232	180	226	432349	67597	.	.	873	438315	63174	16268	.	.
Pocahontas	295731	31588	30609	.	.	289934	30575	27076	.	.	301524	25452	29180	420	811	308730	32197	19763	.	.
Polk	157578	31307	36530	.	.	168173	27534	37242	1583	3724	177464	28151	33874	6145	1627	200063	33638	20366	2285	1957
Pottawattamie	382104	85310	68937	.	.	414547	73864	51962	3426	82	400893	104730	47328	1447	950	417639	114648	17390	.	.
Poweshiek	266897	46733	26357	.	.	267456	49219	15972	0	2801	275956	59687	18473	.	.	277101	70313	13918	.	.
Ringgold	228826	52890	10001	0	1549	227338	42098	.	.	3560	248644	51427	10976	.	.	246660	66733	8484	.	.
Sac	270199	62663	26545	.	.	270448	58836	27436	.	.	267674	62939	26653	.	.	284382	54328	12088	6224	1509
Scott	168389	19521	45212	.	.	171846	17090	.	.	2182	177218	26596	34521	.	.	188107	28413	23775	.	.
Shelby	298214	27678	27598	.	.	302075	29367	19294	.	.	295165	40287	21035	.	.	306310	45295	13574	309	838
Sioux	372631	75792	42175	4704	467	375205	68495	27836	78	749	380221	68883	18224	1808	854	404365	67166	9541	1358	2228
Story	240936	34663	49323	1445	4844	239864	31220	.	.	1025	251710	26708	55666	413	3895	266062	36675	36927	376	8545
Tama	304463	63840	32080	.	.	324359	59074	.	.	394	331842	60532	.	.	534	344743	62137	18490	1025	1221
Taylor	242081	24783	10372	.	.	240532	35679	.	.	260	226553	51487	.	0	.	248280	55344	10861	.	.
Union	183327	26054	16090	635	10159	195792	24325	13188	.	.	185360	40895	.	.	1464	190661	42036	8975	1179	412
Van Buren	181274	30339	27170	.	.	201387	30302	12445	.	.	215129	39794	13333	.	.	233144	35009	.	.	661
Wapello	169382	8155	17191	.	.	175528	21360	.	0	.	186958	20289	14821	.	.	184371	20910	11186	0	607
Warren	234000	37390	28400	1823	874	236116	39729	26427	991	520	242293	49706	26199	2258	384	249988	50141	20145	.	.
Washington	200235	44333	60459	.	.	222013	45525	49564	3647	755	226731	60206	45939	4427	547	238733	66322	34030	.	.
Wayne	236206	32294	11885	.	.	240202	33040	.	.	1234	237077	39734	11623	.	.	256777	37655	.	0	.
Webster	329454	42244	35846	.	.	340330	43199	28317	.	.	341671	47881	24199	4048	1833	355294	53500	10417	2816	369
Winnebago	169087	26826	.	0	.	197229	16299	28902	0	0	199843	19270	27257	0	180	207704	32598	9577	0	0
Winneshiek	276961	66126	13069	.	.	295329	70423	7494	.	.	315765	70748	13118	.	.	327294	69352	9396	2315	1558
Woodbury	358414	57311	24011	.	.	369256	61721	.	.	900	395088	64598	14371	3748	819	407083	80218	23534	2209	846
Worth	185598	24755	13438	.	.	184174	27333	.	.	335	186767	35990	.	.	507	200658	37550	.	.	0
Wright	289411	28668	34639	606	359	290136	21347	.	.	609	286709	39925	31424	.	.	295205	51496	11791	2010	1600
State of Iowa	3747014			136287		3802372			91558		4393079			137860		4801920			118406	
	24332657	3000013		130594	25058946		2568304		116950	25568925		2403988		108112	26718678		1503576			115653

counties with declines, five (Cherokee, Franklin, Grundy, Humboldt, Winnebago) had decreases of full owners of 30 percent or more, with Cherokee (36.6%) reporting the greatest decline in full owners from 1982 to 1992. Part owners declined in 87 counties from 1982 to 1992; the number did not change in Butler and Clarke. Among those with declines, two (Boone, -25.5%; Dallas, -28.3%) decreased by more than 25 percent. In contrast, only Shelby (+12.2%) gained more than 10 percent in this category. Among tenants, four counties (Davis, Delaware, Dubuque, Monroe) had increases, while the remaining 95 counties showed declines in the 1982 to 1992 period. In 19 counties, the percent decrease in tenants at least doubled the percentage decline in total farm numbers. Decatur (-54.9%) had the greatest decrease in tenant farmers. In contrast, no counties had gains greater than 10 percent from 1982 to 1992.

Acres Operated by Tenure Category

Farm operators reported that they worked a total of 31.3 million acres of farmland in Iowa in 1992 (Table 2, Figure 2). This ranged from 191,000 acres in Louisa to 615,000 in Kossuth, a difference of 424,000 acres.

Although full owners constituted 45.1 percent of all farm operators, they worked only 23.9 percent of the total farmland as of 1992. More than half (58.1%) of the land was operated by part owners that year, even though they accounted for little over a third (36.0%) of all farmers. The 18.9 percent of farmers who were tenants worked 18.0 percent of the land. Both full owners and tenants decreased the acres that they farmed from 1982 to 1992, while the part owners reported over 1 million more acres in the most recent census than the earlier one.

At least 60 percent of the acreage farmed in 43 counties in 1992 was handled by part owners, led by Worth's 72.0 percent. Another 45 counties had 50-59.9 percent of their farmland operated by part owners. Of the remaining 11 counties, none had less than 40 percent of their land farmed by part owners. In no county did full owners operate half of the land, although at least 40 percent was farmed by full owners in eleven counties with Monroe (48.4%) having the greatest percent. Full owners worked less than 20 percent of the land in 37 counties. In seven counties (Cherokee, Emmet, Hamilton, Hancock, Humboldt, Pocahontas, Webster), tenants farmed at least 25 percent of the acres; 13 counties had less than 10 percent of their acres farmed by tenants.

The number of acres farmed by full owners was smaller than that operated by part owners in all but two counties (Dubuque, Monroe). Part owners farmed more acres than tenants in every county; full owners had more acres than tenants in 60 of Iowa's 99 counties in 1992.

In 1992, total acres farmed decreased by 3.9 percent from 1982. In comparison, total farms decreased by 16.3 percent during the same period. This discrepancy in percentages is due to the larger farm size in 1992. Full owners farmed fewer acres in 96 counties than they had in 1982. The decrease in acres farmed by full owners was at least 30 percent in 27 counties, with five (Grundy, Muscatine, O'Brien, Sac, Winnebago) above 40 percent. Although overall acres decreased by only 3.9 percent, total full owner acres decreased by 20.0 percent from 1982 to 1992. In contrast, total part owner acres increased by 6.4 percent in the same period.

Part owners farmed more acres in 77 counties in 1992 than they had in 1982. Gains of at least 20 percent took place in nine of these counties (Butler, Carroll, Dubuque, Ida, Lucas, Mitchell, Sac, Shelby, Sioux). In 22 counties, part owners farmed fewer acres in 1992 than in 1982, although drops greater than 10 percent occurred in only four counties (Dallas, Jefferson, Van Buren, Winneshiek). Acres farmed by tenants decreased in 66 counties; decreases of at least 40 percent occurred in Adair, Adams, Allamakee, Decatur, Ringgold, and Taylor, while decreases of 30-39.9 percent occurred in three others (Keokuk, Lucas, Marion). Increases among land operated by tenants took place in 33 counties; although only in five (Cedar, Cherokee, Delaware, Monroe, Osceola) did it gain at least 20 percent. Monroe (+81.7%) nearly doubled its acres operated by tenants between 1982 and 1992. That may reflect a problem with the 1982 data, however; as indicated by the numbers for tenants from the 1978 and 1987 censuses. This indicates that caution always is necessary when examining these data and trends.

Type of Organization

In 1992, more than five of every six (84.0%, 81,127) of Iowa's farm operations were run by farmers either individually or with their families (sole proprietorships, not partnerships or corporations) (Table 3, Figure 3). The percentage of individual or family operations did not vary greatly by county; 88 of the 99 ranged from 80 percent to 89.9 percent on this factor. Only Wapello (90.8%) exceeded 90 percent. Ten counties were under 80 percent, although no counties had less than 75 percent of their farms operated by individual farmers or families.

Partnerships (including family partnerships) were observed on 10.4 percent (10,028) of Iowa's farm operations in 1992. Clayton (16.6%) and Dubuque (15.9%) had more than 15 percent of their farms operated under partnerships, while Bremer (6.3%) and Wapello (5.9%) were under 7 percent.

Two types of farm corporations were reported by the census bureau. Family-held corporations were counted on 4,552 (4.7%) farms, while corporations held by other than families numbered 372 (0.4%). Three counties (Boone, Pottawattamie, Washington) had at least 100 family held corporate farms. Sioux (21) was the only county with at least 20 corporate farms held by nonfamily entities. The remaining 464 (0.5%) of Iowa's farms were held under cooperative, estate or trust, or institutional auspices in 1992.

From 1982 to 1992, relatively little change occurred in any category of organization. Farms run by individual farmers or families declined 0.6 of a percentage point (84.6% in 1982, 84.0% in 1992), with no counties decreasing by more than 6 points and only Mills county (4.0) increasing by 4 points or more. Partnership farms decreased by a single percentage point in the 1982 (11.4%) to 1992 (10.4%) period. Mahaska (-5.6) and Mills (-7.0) were the only counties with changes greater than 5 percentage points. Family corporations had the largest overall change, increasing 1.5 percentage points from 3.2% in 1982 to 4.7% in 1992, while other corporations and other ownership each had increases of only 0.1 of a point. Families, then, controlled 88.7 percent of Iowa's farms by means of sole proprietorships or corporations in 1992, which was a slight increase from the 87.8 percent reported in 1982.

Acres Operated by Type of Organization

In 1992, individual/family farm operations worked more than 24 million acres; these 84.0 percent of all farm operations accounted for 77.6 percent of the land farmed (Table 4, Figure 4). Partnerships had more than 3.7 million acres or 12.0 percent of the state's farm land; this type of organization included 10.4 percent of all farms. Family corporations totaled 4.7 percent of all farms and 9.6 percent of all acres (3 million). Nonfamily corporations farmed over 136,000 acres (0.4%); this type of organization involved 0.4 percent of Iowa's farms. Finally, the remaining 0.5 percent of farms held under other circumstances farmed nearly 131,000 (0.4%) acres. In both 1992 and 1982, family corporations had more than double the percent of acres than they had of farms.

County comparisons of acres operated by the different types of organization are difficult because the census bureau must protect the confidentiality of individual farm operations. When data are suppressed for this reason, it affects at least two reporting categories so that subtraction cannot be used to obtain the information for one of them.

Individual/family operations worked at least 80 percent of the land in 31 counties, although it exceeded 85 percent in only five (Appanoose, Bremer, Clarke, Taylor, Wapello). Boone (64.9%), Polk (68.6%) and Washington (64.7%) were the only counties in which less than 70 percent of the land was farmed by individual/family operators; another 26 were in the 70-74.9 percent range in 1992.

The percentage of acres operated by partnerships in the 95 counties for which data were available varied from less than 10 percent in 26 counties to at least 15 percent in 12 others, with only Dubuque (21.5%) having more than a fifth of its acres operated by partnerships. Family corporations worked at least 15 percent of the acres in 13 counties among the 95 counties for which data were included. Seldom was more than one percent of the acres farmed by other corporations or units in the residual category.

Note: These data are from the CENSUS OF AGRICULTURE (Volume 1: Geographic Area Series, Part 15: Iowa: State and County Data) published by the U.S. Bureau of the Census; the 1992 data became available in 1994.

Figure 1. Farms by tenure in Iowa, 1978-1992.

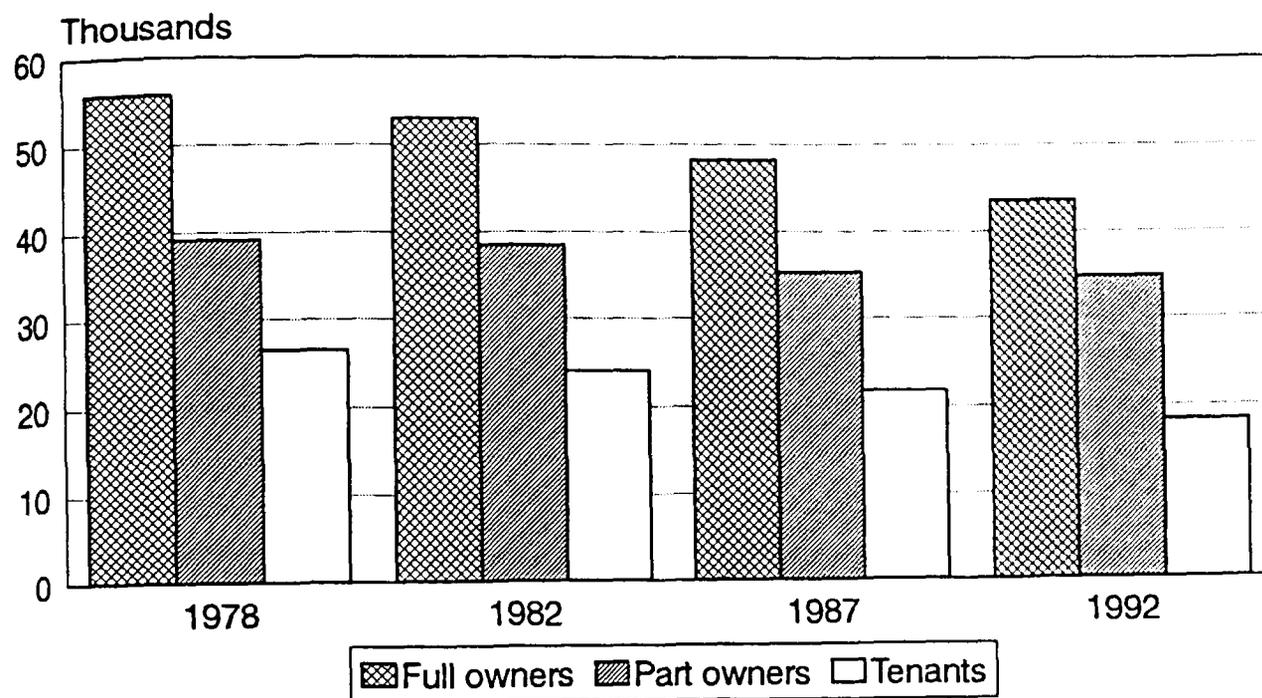


Figure 2. Acres operated by tenure in Iowa, 1978-1992.

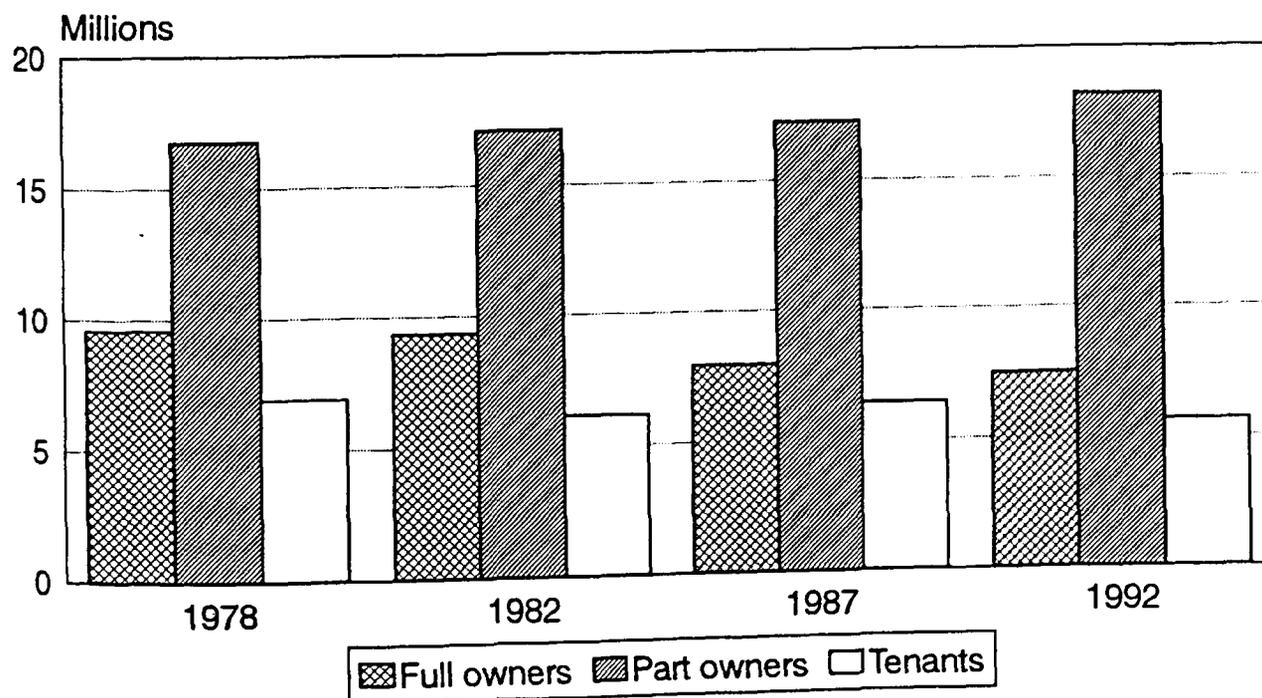


Figure 3. Farms by type of organization in Iowa, 1978-1992.

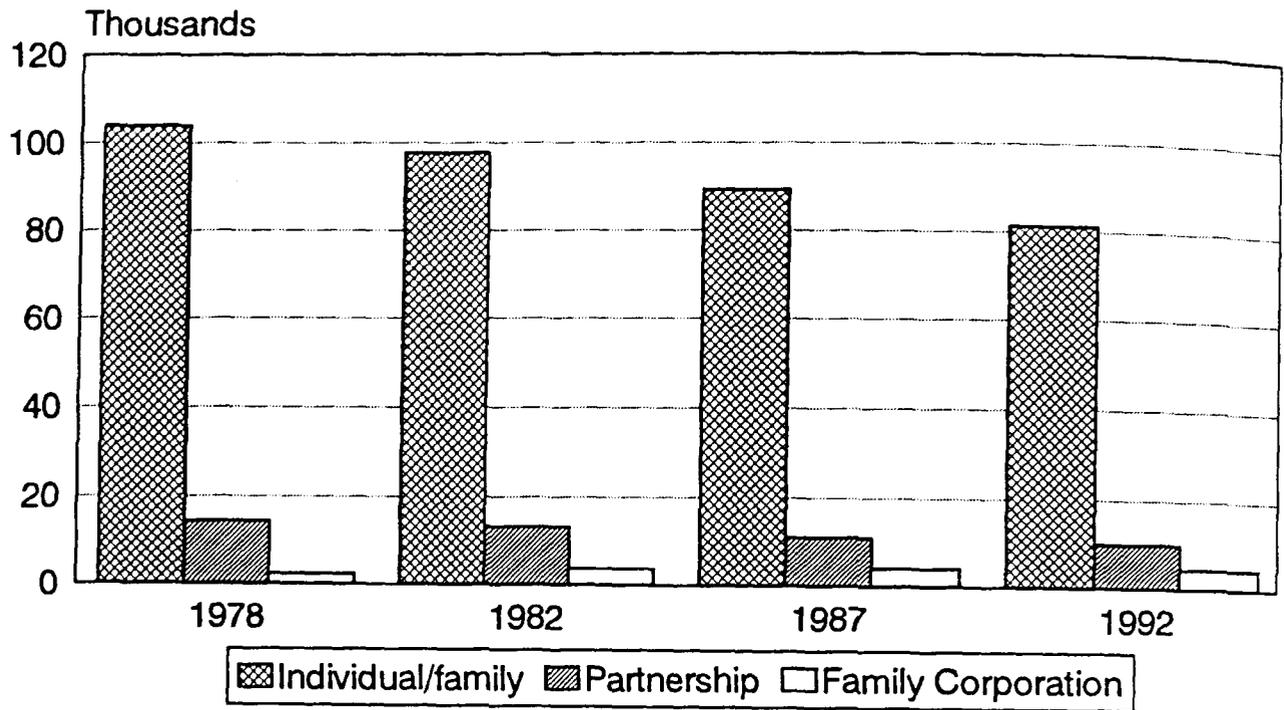
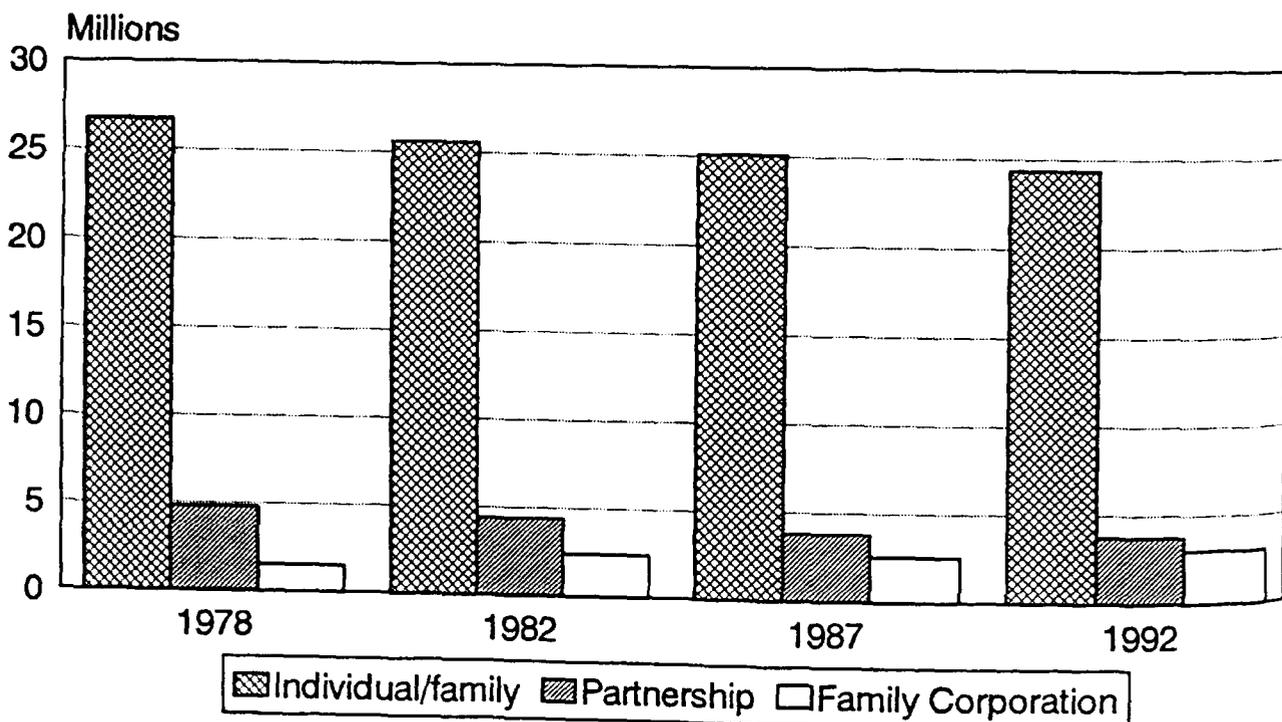


Figure 4. Acres operated by type of organization in Iowa, 1978-1992.



Selected Characteristics of Farm Operators in Iowa's Counties: 1978-1992

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The 1992 Census of Agriculture provided information on selected characteristics of farm operators throughout the United States. Principal occupation, days worked off the farm, and age of operators in Iowa's counties are reviewed in this report. Data from the 1978, 1982, and 1987 censuses are included for comparative purposes.

Principal Occupation of Farm Operators

In 1992, 66,885 of Iowa's farm operators claimed that farming was their principal occupation (Table 1, Figure 1). This was a decrease of 19,156 (-22.3%) from 1982. The number of operators stating that something other than farming was their principal occupation increased slightly from 29,372 in 1982 to 29,658 in 1992. In 1982, 74.6 percent of farm operators said that farming was their principal occupation; this declined to 69.3 percent in 1992.

Operators claiming their principal occupation to be farming varied from less than 500 in 24 counties to at least 1,000 in 9 others in 1992. Only in Kossuth county (80.5%) did at least 80 percent of the operators claim farming as their principal occupation. In contrast, 33 counties reported at least 80 percent in this category in 1982. Sixteen counties had less than 60 percent of the operators claiming farming as their principal occupation in 1992. Nonfarming occupations were listed as the principal work by at least 500 farm operators in three counties (Linn, Sioux, Warren), although Warren was the only county where nonfarm work outnumbered farming as the principal occupation among operators.

Operators claiming that nonfarm work was their principal occupation increased in 52 counties from 1982 to 1992, even though total numbers of farm operators were down almost everywhere. Gains were greater than 20 percent in 13 counties, although only Hancock (40.2%) was above 40 percent. Five counties (Appanoose, Linn, Marshall, Pottawattamie, Union) had gains among operators stating that farming was their principal occupation, although only Pottawattamie (1.3%) gained more than one percent.

Days Worked Off the Farm

A total of 47,557 (49.3%) farm operators worked no days off their farms in 1992; 42,672 (44.2%) worked off the farm at least a few days, while 6,314 (6.5%) failed to respond to this question (Table 2, Figure 2). In 73 counties, over half of the operators who answered worked no days off their farms. Among these, six (Allamakee, Buena Vista, Clay, Clayton, Delaware, Fremont) had 60 percent or more of their operators working only on the farm. At the other extreme, three counties (Black Hawk, Madison, Warren) had more than 60 percent of their farm operators working off the farm at least some of the time.

For 26 counties in 1992, farm operators working at least some days off the farm outnumbered those who did not work elsewhere. Eleven had at least 100 more farm operators working some days off the farm than those working no days elsewhere; two (Black Hawk, 225; Warren, 254) surpassed 200.

Of those responding, 25,568 (59.9%) of the 42,672 operators employed off the farm were likely to work at least 200 days elsewhere. Another 15.4 percent worked 100 to 199 days off the farm, 7.0 percent were employed elsewhere 50-99 days, and 17.7 percent worked 1-49 days off the farm. In 21 counties, at

Table 1. Principal Occupation of Farm Operators in Iowa Counties, 1978-1992.

County	1992		1987		1982		1978	
	Farming	Other than Farming	Farming	Other than Farming	Farming	Other than Farming	Farming	Other than Farming
Adair	639	252	713	257	853	212	916	218
Adams	438	205	486	202	590	147	640	143
Allamakee	772	228	851	211	938	196	989	196
Appanoose	489	338	530	361	528	372	587	363
Audubon	558	182	629	222	730	175	805	195
Benton	909	416	1007	427	1161	424	1243	401
Black Hawk	631	480	742	527	780	572	812	565
Boone	601	322	693	336	810	343	911	338
Bremer	649	409	719	421	851	436	879	506
Buchanan	817	376	968	364	1041	362	1064	402
Buena Vista	770	202	864	233	965	220	1072	202
Butler	794	352	942	352	1054	413	1105	370
Calhoun	678	221	794	198	936	228	1003	213
Carroll	914	283	1056	263	1158	238	1197	225
Cass	670	235	700	242	839	248	921	236
Cedar	795	304	907	263	1057	266	1136	266
Cerro Gordo	578	243	650	279	749	296	853	266
Cherokee	761	218	843	248	1000	214	1050	199
Chickasaw	704	303	751	303	829	351	883	323
Clarke	443	237	480	217	523	243	555	232
Clay	605	165	684	193	843	202	891	202
Clayton	1195	422	1333	372	1399	326	1455	307
Clinton	914	448	1002	435	1168	402	1249	406
Crawford	891	369	1001	338	1176	335	1319	271
Dallas	536	408	645	436	761	447	814	454
Davis	509	383	565	356	619	335	630	328
Decatur	387	261	423	292	506	263	552	239
Delaware	1079	288	1213	239	1261	220	1272	232
Des Moines	401	280	445	308	524	291	581	272
Dickinson	395	159	469	124	522	130	564	136
Dubuque	1220	433	1275	414	1324	384	1287	413
Emmet	433	124	510	99	587	127	651	106
Fayette	1085	331	1154	356	1288	353	1380	362
Floyd	585	297	682	303	793	304	829	315
Franklin	723	206	812	200	951	217	1009	254
Fremont	466	130	559	160	611	160	664	163
Greene	633	218	723	225	816	238	916	216
Grundy	617	236	762	275	870	265	971	253
Guthrie	615	331	656	304	787	318	847	307
Hamilton	619	254	760	266	947	211	1050	233
Hancock	709	230	846	206	1012	164	1075	200
Hardin	706	280	799	266	902	306	1019	259
Harrison	653	266	776	248	930	262	1021	257
Henry	490	305	569	324	661	302	710	312
Howard	654	227	733	205	847	208	909	190
Humboldt	527	150	587	167	684	164	749	146
Ida	555	174	612	175	719	155	799	119
Iowa	664	313	796	261	861	289	950	262
Jackson	895	431	909	445	1030	392	1028	384
Jasper	858	451	985	480	1157	432	1184	491

Table 1. Principal Occupation of Farm Operators in Iowa Counties, 1978-1992 (continued).

County	1992		1987		1982		1978	
	Farming	Other than Farming	Farming	Other than Farming	Farming	Other than Farming	Farming	Other than Farming
Jefferson	448	292	524	251	591	303	651	317
Johnson	799	443	887	469	1015	493	1068	486
Jones	789	323	843	318	967	340	1036	336
Keokuk	661	291	755	281	909	284	990	268
Kossuth	1281	311	1409	309	1607	278	1775	259
Lee	513	359	565	424	625	435	663	435
Linn	885	644	979	711	1044	766	1070	787
Louisa	347	207	462	172	517	182	594	177
Lucas	373	257	421	269	463	306	512	288
Lyon	925	269	1000	234	1166	225	1225	195
Madison	551	475	615	444	682	472	727	478
Mahaska	737	338	881	312	1006	259	1080	264
Marion	568	428	672	459	772	459	822	478
Marshall	661	288	763	310	833	368	869	357
Mills	393	170	469	172	505	179	582	211
Mitchell	586	239	676	263	805	206	863	202
Monona	622	200	655	199	759	174	872	186
Monroe	384	298	427	309	457	304	447	321
Montgomery	472	145	529	172	599	170	632	164
Muscatine	501	302	546	355	651	354	696	358
O'Brien	856	291	977	255	1121	216	1196	172
Osceola	581	156	581	150	709	124	777	80
Page	619	297	699	316	790	267	910	256
Palo Alto	660	181	729	205	867	148	909	187
Plymouth	1180	435	1320	420	1507	367	1598	344
Pocahontas	720	199	796	191	929	176	1022	155
Polk	448	384	520	481	620	490	646	485
Pottawattamie	1042	399	1146	506	1298	530	1408	480
Poweshiek	659	274	764	283	905	247	982	239
Ringgold	464	212	523	178	598	178	649	175
Sac	739	228	828	207	946	200	1005	179
Scott	592	321	636	337	764	333	804	367
Shelby	839	249	920	257	1097	220	1167	201
Sioux	1420	578	1490	525	1685	415	1773	411
Story	623	367	727	411	824	424	901	429
Tama	897	397	1022	382	1177	331	1302	326
Taylor	483	258	556	218	668	222	761	215
Union	427	244	436	257	488	284	538	285
Van Buren	412	340	478	305	610	273	648	319
Wapello	384	373	485	414	543	416	528	443
Warren	592	624	635	675	711	683	720	686
Washington	786	292	872	286	921	317	1001	308
Wayne	492	242	540	203	629	195	650	222
Webster	777	282	902	333	1072	285	1120	297
Winnebago	453	192	582	160	682	165	771	158
Winneshiek	1108	387	1265	368	1394	330	1479	347
Woodbury	834	420	942	418	1124	455	1242	417
Worth	451	191	519	148	620	178	698	176
Wright	622	190	701	181	821	188	934	156
State of Iowa	66885	29658	75279	29901	86041	29372	92309	29030

Table 2. Days Worked Off the Farm by Farm Operators in Iowa Counties, 1978-1992.

County	1992								1987							
	None	Any	1-49	50-99	100-149	150-199	No 200+ Report	None	Any	1-49	50-99	100-149	150-199	No 200+ Report		
Adair	470	367	63	22	28	26	228	54	491	401	101	27	17	37	219	78
Adams	307	284	41	25	17	33	168	52	301	323	74	35	27	23	164	64
Allamakee	574	345	52	27	35	33	198	81	640	358	88	22	32	41	175	64
Appanoose	357	392	46	16	25	54	251	78	396	419	50	22	33	50	264	76
Audubon	407	278	59	22	20	31	146	55	443	345	80	21	31	35	178	63
Benton	635	606	110	37	37	55	367	84	711	630	124	34	50	40	382	93
Black Hawk	415	640	93	41	23	60	423	56	512	695	109	40	37	53	456	62
Boone	443	436	74	26	26	38	272	44	508	477	96	28	35	40	278	44
Bremer	448	570	71	30	36	49	384	40	507	552	79	23	34	47	369	81
Buchanan	576	545	103	28	30	50	334	72	617	619	139	53	54	67	306	96
Buena Vista	550	362	78	39	30	37	178	60	587	439	136	34	29	35	205	71
Butler	558	524	89	38	32	46	319	64	646	548	115	52	43	42	296	100
Calhoun	438	402	84	44	32	47	195	59	483	432	109	46	59	36	182	77
Carroll	627	481	116	42	39	41	243	89	711	532	151	55	40	37	249	76
Cass	454	366	83	16	22	39	206	85	502	368	88	27	4	23	226	72
Cedar	560	476	102	31	30	32	281	63	637	452	105	36	38	34	239	81
Cerro Gordo	432	339	53	16	24	33	213	50	448	424	77	33	33	40	241	57
Cherokee	545	369	91	25	21	27	205	65	589	436	106	40	36	26	228	66
Chickasaw	524	428	61	18	19	46	284	55	551	446	80	40	22	40	264	57
Clarke	316	307	37	19	16	21	214	57	327	317	50	18	14	44	191	53
Clay	435	280	77	19	21	20	143	55	490	325	90	17	12	26	180	62
Clayton	941	585	93	32	53	57	350	91	1045	568	113	36	32	56	331	92
Clinton	650	643	92	42	44	75	390	69	641	703	142	58	57	67	379	93
Crawford	622	550	91	48	29	47	335	88	684	551	114	43	32	30	332	104
Dallas	396	497	61	44	31	37	324	51	422	586	87	36	41	60	362	73
Davis	338	492	59	27	25	73	308	62	363	486	77	35	41	46	287	72
Decatur	258	333	46	21	25	25	216	57	294	375	58	19	25	36	237	46
Delaware	817	458	87	28	23	46	274	92	874	471	125	36	29	43	238	107
Des Moines	308	337	44	11	20	31	231	36	301	397	60	21	17	25	274	55
Dickinson	287	228	51	19	13	17	128	39	299	244	71	19	19	23	112	50
Dubuque	927	627	81	34	47	74	391	99	957	628	90	38	35	56	409	104
Emmet	288	237	67	22	15	25	108	32	341	222	71	16	21	17	97	46
Fayette	787	541	103	49	41	48	300	88	853	563	129	29	54	51	300	94
Floyd	418	429	79	28	28	39	255	35	469	462	92	35	28	41	266	54
Franklin	493	369	87	44	31	24	183	67	552	393	93	42	38	34	186	67
Fremont	332	220	50	21	22	13	114	44	395	277	69	26	23	22	137	47
Greene	409	378	83	36	36	41	182	64	477	412	123	40	36	25	188	59
Grundy	418	397	99	29	28	18	223	38	498	474	129	34	36	31	244	65
Guthrie	413	447	80	27	26	51	263	86	436	436	65	38	37	46	250	88
Hamilton	438	376	63	33	18	32	230	59	498	456	119	41	33	30	233	72
Hancock	460	430	118	40	39	31	202	49	533	445	113	50	28	42	212	74
Hardin	481	463	100	35	41	42	245	42	547	464	112	34	34	38	246	54
Harrison	463	381	53	31	26	37	234	75	537	410	106	31	36	34	203	77
Henry	353	394	55	24	23	35	257	48	366	460	73	34	24	47	282	67
Howard	466	355	58	17	30	35	215	60	494	381	95	26	45	24	191	63
Humboldt	348	287	65	32	24	38	128	42	374	307	69	38	25	17	158	73
Ida	371	297	55	23	29	39	151	61	434	309	67	38	19	25	160	44
Iowa	461	451	70	26	25	44	286	65	554	435	88	30	35	35	247	68
Jackson	639	593	82	44	43	42	382	94	670	608	90	25	45	62	386	76
Jasper	626	591	109	38	32	57	355	92	675	700	139	59	38	36	428	90

Table 2. Days Worked Off the Farm by Farm Operators in Iowa Counties, 1978-1992 (continued).

County	1992								1987							
	None	Any	1-49	50-99	100-149	150-199	200+	No Report	None	Any	1-49	50-99	100-149	150-199	200+	No Report
Jefferson	322	378	61	32	17	40	228	40	351	375	74	21	24	31	225	49
Johnson	565	578	83	42	26	35	392	99	607	678	115	45	39	55	424	71
Jones	578	476	79	27	35	46	289	58	611	486	87	46	26	39	288	64
Keokuk	475	391	60	20	26	39	246	86	547	393	79	36	21	38	219	96
Kossuth	897	608	159	64	72	61	252	87	912	687	202	76	71	67	271	119
Lee	376	432	45	20	24	33	310	64	422	513	59	21	34	42	357	54
Linn	636	796	83	47	33	67	566	97	683	906	120	57	59	55	615	101
Louisa	273	254	35	16	23	22	158	27	314	267	55	23	17	26	146	53
Lucas	277	299	28	10	20	28	213	54	292	344	51	15	25	27	226	54
Lyon	623	483	118	29	39	37	260	88	692	458	121	43	29	49	216	84
Madison	377	573	81	25	27	59	381	76	423	568	92	32	32	48	364	68
Mahaska	541	453	90	26	30	28	279	81	568	512	117	46	33	43	273	113
Marion	414	517	71	20	30	30	366	65	483	592	85	27	36	51	393	56
Marshall	475	432	90	22	32	24	264	42	529	482	110	36	29	44	263	62
Mills	293	223	49	7	12	19	136	47	320	272	59	15	25	12	161	49
Mitchell	419	356	67	19	12	27	231	50	471	417	107	37	21	38	214	51
Monona	433	322	72	36	16	38	160	67	428	363	105	39	18	43	158	63
Monroe	281	349	36	8	20	35	250	52	328	344	33	21	28	24	238	64
Montgomery	338	241	58	20	18	23	122	38	349	302	83	23	24	28	144	50
Muscatine	361	397	56	21	20	22	278	45	366	480	56	33	19	35	337	55
O'Brien	607	480	119	34	35	34	258	60	645	498	146	61	42	33	216	89
Osceola	406	295	81	28	20	23	143	36	389	294	78	31	26	31	128	48
Page	430	420	75	29	19	36	261	66	460	494	104	34	38	46	272	61
Palo Alto	459	334	92	40	27	38	137	48	485	381	115	58	25	22	161	68
Plymouth	840	629	119	44	34	56	376	146	900	706	167	50	47	72	370	134
Pocahontas	474	384	94	52	31	34	173	61	503	401	121	44	41	46	149	83
Polk	321	462	55	33	19	41	314	49	350	579	77	33	39	47	383	72
Pottawattamie	798	567	106	43	31	51	336	76	832	724	136	65	58	54	411	96
Poweshiek	476	411	61	25	27	36	262	46	529	454	103	26	23	39	263	64
Ringgold	352	275	52	29	27	20	147	49	364	270	64	16	11	29	150	67
Sac	508	391	89	31	37	32	202	68	568	375	105	34	30	24	182	92
Scott	433	430	52	25	26	39	288	50	428	475	74	21	41	32	307	70
Shelby	600	408	100	41	31	30	206	80	623	470	142	34	43	29	222	84
Sioux	950	895	173	67	54	73	528	153	986	873	189	75	62	71	476	156
Story	444	485	76	26	26	39	318	61	505	554	95	26	28	38	367	79
Tama	634	577	118	44	32	44	339	83	690	629	134	54	57	42	342	85
Taylor	359	331	53	19	20	31	208	51	369	341	67	22	22	27	203	64
Union	307	322	46	21	30	26	199	42	291	353	61	21	26	43	202	49
Van Buren	302	406	44	30	20	45	267	44	336	404	53	32	40	42	237	43
Wapello	294	418	48	19	25	27	299	45	368	478	47	18	32	28	353	53
Warren	452	697	67	24	38	63	505	67	466	778	86	29	45	66	552	66
Washington	574	426	92	33	23	38	240	78	594	470	90	34	36	44	266	94
Wayne	334	339	45	24	24	31	215	61	324	328	84	19	26	24	175	91
Webster	505	489	119	53	36	26	255	65	590	545	129	57	54	37	268	100
Winnebago	321	286	58	24	22	16	166	38	386	304	73	30	34	26	141	52
Winneshiek	823	574	97	54	41	40	342	98	939	586	125	43	41	65	312	108
Woodbury	583	575	83	42	33	50	367	96	665	607	116	48	49	55	339	88
Worth	317	290	60	17	18	25	170	35	338	276	68	25	25	21	137	53
Wright	421	335	84	35	35	27	154	56	454	382	130	47	31	29	145	46
State of Iowa	47557	42672	7543	2983	2803	3775	25568	6314	51753	46229	9615	3489	3325	3872	25928	7198

Table 2. Days Worked Off the Farm by Farm Operators in Iowa Counties, 1978-1992 (continued).

County	1982								1978							
	None	Any	1-49	50-99	100-149	150-199	200+	No Report	None	Any	1-49	50-99	100-149	150-199	200+	No Report
Adair	556	412	144	33	22	34	179	97	608	445	166	45	21	32	181	81
Adams	359	283	70	33	25	27	128	95	436	287	101	13	17	34	122	60
Allamakee	649	373	126	18	19	40	170	112	706	417	159	25	24	44	165	62
Appanoose	354	461	66	17	32	46	300	85	405	466	84	23	35	40	284	79
Audubon	471	329	105	33	21	32	138	105	571	369	142	39	17	20	151	60
Benton	784	661	171	56	40	48	346	140	853	702	226	47	39	41	349	89
Black Hawk	514	752	112	33	42	55	510	86	564	739	131	29	39	61	479	74
Boone	557	498	113	32	31	44	278	98	587	585	173	41	23	34	314	77
Bremer	530	660	140	40	44	50	386	97	598	717	132	40	37	43	465	70
Buchanan	672	619	146	42	41	64	326	112	697	675	185	44	31	53	362	94
Buena Vista	664	419	144	29	39	34	173	102	712	483	202	48	28	35	170	79
Butler	674	663	177	44	49	51	342	130	720	670	195	43	47	42	343	85
Calhoun	576	452	160	42	34	31	185	136	647	490	202	45	39	35	169	79
Carroll	744	496	201	32	36	33	194	156	796	535	214	60	27	29	205	91
Cass	564	415	114	32	22	32	215	108	654	414	146	34	31	21	182	89
Cedar	745	451	139	30	29	38	215	127	809	505	172	30	27	35	241	88
Cerro Gordo	483	466	121	21	38	32	254	96	570	490	141	44	27	35	243	59
Cherokee	640	441	138	41	26	25	211	133	737	430	166	32	32	24	176	82
Chickasaw	540	518	102	37	44	41	294	122	590	552	139	33	45	50	285	64
Clarke	331	367	73	30	23	40	201	68	361	379	102	30	29	24	194	47
Clay	557	397	131	34	31	20	181	91	600	421	156	29	29	20	187	72
Clayton	1009	581	183	42	27	53	276	135	1053	591	174	45	34	68	270	118
Clinton	738	699	170	45	51	59	374	133	877	688	188	43	43	46	368	90
Crawford	703	651	203	57	34	39	318	157	817	639	249	48	43	51	248	134
Dallas	502	613	107	45	44	45	372	93	544	656	149	48	36	48	375	68
Davis	379	494	92	27	38	38	299	81	440	458	90	26	23	34	285	60
Decatur	313	384	89	29	27	32	207	72	359	379	104	25	26	39	185	53
Delaware	868	466	150	30	38	35	213	147	887	515	188	39	30	40	218	102
Des Moines	334	408	83	21	24	50	230	73	399	404	102	29	19	27	227	50
Dickinson	349	246	89	16	21	15	105	57	375	284	99	28	22	23	112	41
Dubuque	891	642	138	56	53	66	329	175	939	642	131	32	39	60	380	119
Emmet	391	247	76	19	27	31	94	76	447	267	113	16	18	13	107	43
Fayette	867	613	186	39	44	46	298	161	964	681	236	45	34	47	319	97
Floyd	501	503	134	29	44	53	243	93	553	530	134	38	36	47	275	61
Franklin	607	433	137	31	23	34	208	128	714	483	160	42	37	32	212	66
Fremont	414	281	81	26	14	30	130	76	469	300	103	27	21	16	133	58
Greene	507	446	150	36	18	33	209	101	605	443	138	44	41	38	182	84
Grundy	518	512	170	40	33	20	249	105	647	489	184	44	29	39	193	88
Guthrie	504	497	105	36	40	38	278	104	557	531	144	33	49	37	268	66
Hamilton	599	446	158	37	28	28	195	113	706	520	197	61	52	24	186	57
Hancock	617	446	214	39	21	27	145	113	701	497	191	50	47	31	178	77
Hardin	603	521	156	42	34	36	253	84	666	540	186	40	28	46	240	72
Harrison	639	430	120	39	27	33	211	123	671	503	171	39	46	20	227	104
Henry	435	445	83	27	40	36	259	83	480	479	99	33	25	49	273	63
Howard	590	375	91	42	35	42	165	90	622	408	138	23	30	37	180	69
Humboldt	410	368	119	55	27	14	153	70	511	317	120	23	29	15	130	67
Ida	453	307	113	29	24	16	125	114	541	307	140	24	23	12	108	70
Iowa	582	473	110	31	30	32	270	95	663	479	142	30	34	52	221	70
Jackson	668	645	151	47	49	72	326	109	680	655	155	48	38	50	364	77
Jasper	754	697	187	38	48	38	386	138	759	820	234	57	41	61	427	96

Table 2. Days Worked Off the Farm by Farm Operators in Iowa Counties, 1978-1992 (continued).

County	1982								1978							
	None	Any	1-49	50-99	100-149	150-199	No 200+ Report	None	Any	1-49	50-99	100-149	150-199	No 200+ Report		
Jefferson	363	470	94	35	24	40	277	61	425	493	108	34	29	39	283	50
Johnson	652	725	158	34	35	54	444	131	734	742	174	44	28	52	444	78
Jones	661	548	146	32	29	39	302	98	745	558	157	30	29	46	296	69
Keokuk	602	448	113	39	30	33	233	143	709	446	126	34	29	36	221	103
Kossuth	1019	667	262	64	43	55	243	199	1183	736	299	87	69	59	222	115
Lee	448	548	81	24	36	31	376	64	445	583	109	29	40	37	368	70
Linn	711	979	136	59	55	65	664	120	770	1004	168	37	42	49	708	83
Louisa	351	283	61	24	16	27	155	65	410	316	99	23	23	18	153	45
Lucas	309	384	56	17	29	38	244	76	357	392	70	27	18	33	244	51
Lyon	746	495	207	38	29	28	193	150	868	487	209	53	30	16	179	65
Madison	442	632	117	40	37	48	390	80	463	686	148	55	32	54	397	56
Mahaska	645	465	133	47	24	32	229	155	728	537	201	46	34	26	230	79
Marion	527	598	98	30	30	45	395	106	570	651	121	48	28	53	401	79
Marshall	513	586	158	24	34	42	328	102	575	583	167	32	20	46	318	68
Mills	325	278	69	16	19	20	154	81	434	312	75	19	18	22	178	47
Mitchell	519	379	115	33	26	38	167	113	597	405	146	30	25	23	181	63
Monona	484	351	125	34	26	31	135	98	614	367	128	31	31	31	146	77
Monroe	295	397	56	32	22	24	263	69	292	426	77	28	18	42	261	50
Montgomery	376	303	113	29	19	19	123	90	440	302	102	35	28	13	124	54
Muscatine	448	472	77	22	27	35	311	85	504	494	87	25	30	32	320	56
O'Brien	719	494	192	46	37	28	191	124	830	460	222	42	34	27	135	78
Osceola	453	297	104	31	29	22	111	83	538	276	133	27	24	20	72	43
Page	508	452	133	35	24	23	237	97	624	473	160	33	35	39	206	69
Palo Alto	547	358	153	37	27	26	115	110	602	434	189	32	25	26	162	60
Plymouth	1034	633	191	57	27	36	322	207	1118	701	248	57	43	36	317	123
Pocahontas	593	417	166	43	20	31	157	95	672	427	196	52	21	30	128	78
Polk	392	617	98	43	33	43	400	101	450	618	118	28	28	55	389	63
Pottawattamie	917	766	173	45	47	68	433	145	958	813	246	68	50	39	410	117
Poweshiek	604	441	160	22	21	30	208	107	682	460	150	34	27	39	210	79
Ringgold	393	292	87	22	14	19	150	91	452	335	116	22	40	28	129	37
Sac	603	385	141	24	28	34	158	158	689	417	184	42	28	27	136	78
Scott	490	508	94	26	37	50	301	99	605	512	86	18	33	35	340	54
Shelby	683	478	166	47	42	30	193	156	794	494	201	49	28	39	177	80
Sioux	1008	845	270	63	62	53	397	247	1245	814	285	55	69	47	358	125
Story	539	599	125	32	24	39	379	110	613	657	142	38	39	61	377	60
Tama	741	622	178	45	45	37	317	145	866	649	232	64	46	33	274	113
Taylor	413	368	100	27	23	27	191	109	520	389	124	34	25	30	176	67
Union	319	395	88	23	20	29	235	58	378	404	91	24	21	33	235	41
Van Buren	377	414	89	31	31	42	221	92	404	494	119	38	31	40	266	69
Wapello	374	494	59	25	20	29	361	91	385	537	75	37	24	44	357	49
Warren	474	833	108	40	43	70	572	87	489	848	125	26	44	54	599	69
Washington	612	513	151	25	33	32	272	113	692	522	129	45	32	29	287	95
Wayne	398	316	81	24	25	15	171	110	450	364	115	28	12	28	181	58
Webster	658	558	171	40	57	43	247	141	704	613	202	43	35	60	273	100
Winnebago	418	325	104	26	25	26	144	104	511	365	140	42	29	21	133	53
Winneshiek	925	618	196	48	44	55	275	181	997	709	247	60	50	77	275	120
Woodbury	710	701	162	50	38	50	401	168	853	686	193	37	36	68	352	120
Worth	381	338	125	25	18	22	148	79	418	395	143	33	37	28	154	61
Wright	530	393	149	39	24	20	161	86	621	395	166	41	28	27	133	74
State of Iowa	55958	48480	12927	3473	3159	3681	25240	10975	62890	51057	15341	3750	3192	3701	25073	7392

Table 3. Age of Farm Operators in Iowa Counties, 1978-1992.

County	1992								1987							
	Under 25	25- 34	35- 44	45- 54	55- 59	60- 64	65- 69	70+ Age	Avg. Age	Under 25	25- 34	35- 44	45- 54	55- 64	65+ Age	Avg. Age
Adair	22	110	172	169	97	100	102	119	52.2	25	154	188	195	238	170	50.2
Adams	8	53	113	126	68	87	75	113	55.0	19	99	112	120	179	159	52.1
Allamakee	21	125	241	209	106	108	84	106	50.4	10	207	238	223	217	167	48.5
Appanoose	11	76	150	145	75	89	87	194	55.4	12	103	128	172	200	276	54.7
Audubon	21	117	163	133	88	76	60	82	49.8	30	164	184	174	193	106	47.5
Benton	32	201	312	297	144	132	97	110	48.9	48	257	307	321	313	188	47.8
Black Hawk	24	153	248	246	137	129	82	92	49.9	36	181	274	290	326	162	48.9
Boone	23	93	256	175	72	120	77	107	50.9	17	155	222	192	277	166	50.0
Bremer	30	153	289	243	109	104	61	69	47.7	39	208	260	259	233	141	47.2
Buchanan	27	220	298	240	131	105	75	97	47.8	46	245	305	276	291	169	47.6
Buena Vista	30	134	266	160	94	139	79	70	49.0	22	208	234	195	283	155	48.6
Butler	37	155	265	246	121	126	80	116	49.6	53	218	258	277	307	181	48.4
Calhoun	20	111	263	166	110	91	65	73	49.1	19	175	212	196	251	139	48.8
Carroll	37	208	309	229	99	147	86	82	47.7	46	293	273	245	314	148	46.7
Cass	23	114	217	180	98	72	84	117	50.7	45	152	190	183	197	175	49.2
Cedar	21	139	290	244	114	108	86	97	49.6	31	194	271	238	267	169	48.7
Cerro Gordo	16	117	215	175	74	103	50	71	49.0	35	165	213	182	238	96	47.4
Cherokee	22	157	289	152	93	114	82	70	48.3	24	218	217	212	286	134	48.1
Chickasaw	25	170	244	195	103	116	63	91	48.8	41	222	198	196	254	143	47.8
Clarke	10	63	131	140	66	76	90	104	53.9	18	84	126	141	183	145	51.9
Clay	7	91	194	151	71	95	72	89	51.0	14	166	178	172	224	123	48.7
Clayton	38	208	445	355	178	160	113	120	48.8	48	329	364	356	366	242	48.0
Clinton	32	203	320	294	150	150	99	114	49.3	59	258	307	337	312	164	47.2
Crawford	35	184	286	252	152	135	86	130	49.7	56	234	272	289	297	191	48.2
Dallas	6	107	221	195	97	114	83	121	52.0	27	143	221	211	278	201	50.8
Davis	25	115	167	157	107	94	94	133	52.3	22	146	165	202	193	193	50.9
Decatur	5	46	141	140	53	101	56	106	54.2	9	75	135	151	201	144	52.7
Delaware	55	274	329	280	155	128	67	79	46.6	60	320	286	343	314	129	46.1
Des Moines	21	72	141	136	75	63	57	116	52.4	30	103	156	155	143	166	50.3
Dickinson	25	66	133	87	68	66	51	58	50.4	20	94	118	118	151	92	49.3
Dubuque	41	315	336	380	201	180	95	105	48.0	26	319	369	417	375	183	47.6
Emmet	10	72	159	116	59	50	49	42	48.9	14	112	154	104	144	81	48.0
Fayette	48	197	344	320	142	164	86	115	48.8	37	253	309	358	358	195	48.6
Floyd	17	132	203	205	78	89	64	94	49.8	26	162	195	208	244	150	49.2
Franklin	42	102	238	185	105	96	87	74	49.3	27	185	187	210	268	135	49.0
Fremont	18	51	129	107	62	62	65	102	53.1	14	107	131	127	183	157	51.7
Greene	22	103	214	153	85	103	94	77	50.6	22	165	185	171	258	147	49.7
Grundy	17	115	199	215	111	83	48	65	49.2	26	178	232	246	234	121	48.0
Guthrie	13	121	192	176	97	126	97	124	52.2	21	128	200	176	243	192	51.2
Hamilton	16	120	206	173	88	110	66	94	50.3	24	192	204	199	263	144	48.8
Hancock	36	153	222	180	108	104	70	66	48.3	31	192	211	237	258	123	48.1
Hardin	23	149	244	193	94	117	69	97	49.4	29	186	214	227	238	171	48.9
Harrison	12	143	217	174	81	104	82	106	50.3	18	169	204	183	244	206	50.7
Henry	9	80	149	196	77	99	66	119	52.9	15	126	199	180	202	171	50.7
Howard	32	160	169	161	92	89	79	99	49.6	26	169	166	197	237	143	49.3
Humboldt	12	84	176	142	66	82	61	54	50.0	13	125	143	163	195	115	49.6
Ida	27	112	178	136	71	76	65	64	48.8	28	155	165	129	222	88	48.0
Iowa	17	155	221	210	96	87	72	119	49.9	37	189	185	214	250	182	49.3
Jackson	30	199	275	289	149	135	103	146	50.2	50	245	252	333	295	179	48.2
Jasper	22	153	286	263	158	159	108	160	51.7	38	206	299	303	355	264	50.2

Table 3. Age of Farm Operators in Iowa Counties, 1978-1992 (continued).

County	1992								1987							
	Under 25	25- 34	35- 44	45- 54	55- 59	60- 64	65- 69	70+ 70+	Avg. Age	Under 25	25- 34	35- 44	45- 54	55- 64	65+ 65+	Avg. Age
Jefferson	13	80	191	111	82	75	67	121	52.2	14	110	148	153	196	154	51.2
Johnson	26	158	260	267	134	114	117	166	51.4	43	190	295	294	310	224	49.6
Jones	29	156	264	262	117	117	75	92	49.1	29	149	278	269	268	168	49.5
Keokuk	17	127	214	192	94	90	102	116	51.2	15	184	205	195	259	178	50.1
Kossuth	36	225	375	320	203	197	120	116	49.5	72	325	355	359	436	171	47.3
Lee	18	94	187	194	97	94	82	106	51.8	16	130	205	235	224	179	50.5
Linn	35	152	342	323	178	174	129	196	51.9	29	204	355	385	390	327	51.2
Louisa	12	64	136	100	66	63	36	77	51.3	18	93	124	136	157	106	50.2
Lucas	11	59	99	123	72	73	85	108	55.1	11	59	134	140	171	175	53.9
Lyon	49	209	270	245	116	138	80	87	47.7	62	279	223	237	273	160	46.6
Madison	17	92	215	221	128	117	94	142	52.9	13	123	225	231	242	225	51.9
Mahaska	17	148	257	209	101	122	86	135	50.7	36	206	236	215	265	235	49.8
Marion	15	126	197	211	107	108	94	138	52.1	37	140	201	263	279	211	51.1
Marshall	11	119	194	192	119	105	84	125	52.1	16	156	206	246	256	193	50.6
Mills	12	58	117	130	65	51	57	73	52.2	15	84	150	120	152	120	50.7
Mitchell	32	149	206	158	91	85	52	52	47.2	32	172	193	211	211	120	48.0
Monona	13	107	171	182	81	94	68	106	51.6	19	151	151	183	199	151	49.8
Monroe	12	68	115	155	70	67	88	107	53.6	14	83	129	149	195	166	52.5
Montgomery	12	60	151	107	48	73	63	103	52.9	13	109	135	117	173	154	51.0
Muscatine	12	124	137	210	87	84	59	90	50.6	25	123	165	228	227	133	49.7
O'Brien	36	175	301	229	127	138	82	59	48.0	39	249	230	231	356	127	47.8
Osceola	22	123	184	150	80	86	52	40	47.6	30	182	138	156	178	47	45.5
Page	16	109	185	171	98	104	90	143	52.7	24	144	196	183	247	221	51.6
Palo Alto	25	140	193	152	81	103	81	66	49.1	28	183	180	166	260	117	48.4
Plymouth	59	241	438	308	148	196	104	121	48.1	55	323	401	343	391	227	47.7
Pocahontas	28	140	221	171	95	96	82	86	49.2	22	183	202	194	256	130	48.3
Polk	20	77	163	199	101	111	58	103	52.2	20	113	184	220	260	204	52.1
Pottawattamie	30	184	323	314	137	174	146	133	50.8	46	279	338	323	434	232	49.1
Poweshiek	19	111	195	219	97	99	74	119	51.3	29	171	215	226	229	177	49.3
Ringgold	5	70	136	116	58	82	75	134	54.7	16	96	110	125	186	168	52.8
Sac	22	155	215	185	97	115	86	92	49.7	38	189	196	197	258	157	48.7
Scott	21	116	197	221	98	102	63	95	50.5	24	156	199	219	224	151	49.3
Shelby	29	193	245	208	104	129	77	103	48.7	42	245	264	204	274	148	47.0
Sioux	64	345	535	404	205	194	139	112	47.0	80	410	435	407	499	184	46.6
Story	12	112	234	236	101	109	71	115	51.1	15	181	236	213	287	206	50.3
Tama	37	168	273	279	144	139	120	134	50.5	37	208	286	295	349	229	49.9
Taylor	18	88	155	135	67	72	69	137	52.9	15	121	164	142	155	177	50.7
Union	17	61	129	146	72	72	57	117	53.5	14	102	132	143	151	151	51.3
Van Buren	12	80	149	162	91	68	80	110	52.8	14	103	152	165	173	176	51.6
Wapello	19	70	174	155	96	61	66	116	52.4	12	93	183	194	193	224	52.8
Warren	14	117	232	265	151	131	121	185	53.5	20	139	247	339	335	230	51.7
Washington	27	176	234	233	115	98	80	115	49.6	42	214	232	246	260	164	48.1
Wayne	12	81	107	159	81	68	90	136	54.2	22	71	145	131	194	180	53.0
Webster	21	143	272	182	116	143	97	85	50.1	22	204	249	253	337	170	49.5
Winnebago	15	94	151	134	64	80	49	58	49.8	25	132	137	153	192	103	48.6
Winneshiek	35	260	362	276	164	146	109	143	48.7	48	314	310	327	379	255	48.7
Woodbury	31	146	301	262	120	129	110	155	51.2	31	205	300	267	330	227	49.8
Worth	17	98	171	119	65	59	49	64	48.9	18	116	128	120	183	102	49.7
Wright	21	101	162	176	108	87	72	85	50.9	12	129	164	193	242	142	50.5
State of Iowa	2276	13100	22200	19769	10262	10595	7956	10385	50.3	2852	17458	21282	21744	25287	16557	49.3

Table 3. Age of Farm Operators in Iowa Counties, 1978-1992 (continued).

County	1982						1978							
	Under 25	25- 34	35- 44	45- 54	55- 64	65+ Avg. Age	Under 25	25- 34	35- 44	45- 54	55- 64	65+ Avg. Age		
Adair	65	171	191	236	258	144	48.2	70	183	202	273	268	138	47.7
Adams	47	97	143	147	184	119	49.2	43	113	136	208	174	109	48.8
Allamakee	43	217	230	270	264	110	47.0	46	194	255	301	268	121	47.4
Appanoose	22	139	159	179	249	152	50.3	35	128	151	233	250	153	50.4
Audubon	63	167	172	207	203	93	46.5	64	190	200	238	227	81	46.0
Benton	78	262	355	370	347	173	47.1	95	262	345	410	369	163	46.7
Black Hawk	68	197	288	325	327	147	47.9	43	183	316	365	352	118	48.0
Boone	42	200	218	241	322	130	48.5	64	184	224	348	305	124	47.7
Bremer	63	220	321	290	275	118	46.4	70	221	344	338	287	125	46.4
Buchanan	90	300	269	294	310	140	45.9	84	239	326	348	319	150	46.9
Buena Vista	62	239	183	264	314	123	47.4	94	218	186	338	316	122	46.8
Butler	85	279	324	310	354	115	46.0	74	253	312	364	378	94	46.5
Calhoun	63	241	185	285	279	111	46.7	84	190	227	305	295	115	47.0
Carroll	79	284	239	316	345	133	46.7	79	242	279	376	322	124	46.6
Cass	57	202	195	225	264	144	47.6	65	209	229	247	250	157	47.6
Cedar	59	260	277	283	312	132	46.8	64	243	263	357	355	120	47.1
Cerro Gordo	58	187	205	234	264	97	46.9	54	199	207	295	265	99	47.0
Cherokee	78	254	182	274	308	118	46.5	87	199	212	342	305	104	46.8
Chickasaw	62	242	229	275	268	104	46.0	78	195	236	327	268	102	46.5
Clarke	35	105	152	176	188	110	49.0	39	92	162	210	179	105	49.0
Clay	45	204	212	207	273	104	47.0	61	205	162	288	294	83	47.0
Clayton	82	340	352	399	367	185	46.6	78	292	389	466	368	169	46.7
Clinton	74	278	354	387	341	136	46.4	69	266	373	421	383	143	47.0
Crawford	90	263	306	332	377	143	46.7	92	278	317	358	392	153	47.0
Dallas	48	188	240	259	300	173	49.0	72	163	228	305	348	152	48.8
Davis	42	159	186	209	211	147	48.6	30	160	193	229	204	142	48.7
Decatur	39	113	145	186	159	127	49.1	24	105	149	209	184	120	49.7
Delaware	91	309	302	362	317	100	45.3	85	260	371	390	308	90	45.3
Des Moines	34	113	145	155	211	157	50.7	49	117	135	189	224	139	49.8
Dickinson	33	141	121	145	148	64	46.2	52	116	122	180	167	63	46.6
Dubuque	54	292	423	444	320	175	46.7	41	277	438	454	353	137	46.7
Emmet	30	153	144	139	173	75	46.6	60	152	139	165	181	60	45.5
Fayette	90	303	362	385	344	157	46.3	88	296	396	430	368	164	46.5
Floyd	41	209	231	242	256	118	47.4	56	199	239	267	259	124	47.0
Franklin	50	222	222	250	310	114	47.2	73	210	234	332	290	124	47.1
Fremont	30	121	129	175	205	111	49.3	38	106	144	197	229	113	49.8
Greene	43	194	157	227	290	143	49.0	65	166	192	265	300	144	48.8
Grundy	54	194	259	261	260	107	46.8	55	182	265	306	312	104	47.5
Guthrie	45	189	218	229	257	167	48.7	61	177	225	264	267	160	48.5
Hamilton	40	196	231	255	299	137	48.4	82	166	237	343	333	122	48.0
Hancock	69	221	221	277	282	106	46.5	84	208	271	307	295	110	46.4
Hardin	56	210	251	260	303	128	47.5	88	199	225	325	324	117	47.1
Harrison	62	189	197	265	318	161	48.8	72	212	236	326	309	123	47.1
Henry	32	156	226	184	225	140	48.7	46	181	201	213	267	114	47.8
Howard	39	188	201	242	263	122	47.9	50	175	212	293	265	104	47.5
Humboldt	44	133	165	188	231	87	48.0	42	142	150	239	254	68	47.8
Ida	52	157	138	216	230	81	47.2	65	145	161	255	216	76	46.7
Iowa	56	186	243	270	272	123	47.4	60	196	257	303	297	99	47.1
Jackson	88	236	351	346	264	137	46.1	58	248	336	379	246	145	46.4
Jasper	85	252	316	382	362	192	47.7	87	266	337	394	434	157	47.5

Table 3. Age of Farm Operators in Iowa Counties, 1978-1992 (continued).

County	1982						1978							
	Under 25	25- 34	35- 44	45- 54	55- 64	65+ Avg. Age	Under 25	25- 34	35- 44	45- 54	55- 64	65+ Avg. Age		
Jefferson	46	173	155	199	211	110	47.4	57	156	196	226	242	91	47.2
Johnson	52	251	305	350	350	200	48.5	65	256	312	403	332	186	47.7
Jones	57	241	285	284	305	135	46.9	54	255	305	317	327	114	46.6
Keokuk	85	222	223	229	265	169	47.2	81	196	219	311	282	169	48.0
Kossuth	113	358	347	466	456	145	46.2	119	360	416	523	495	121	45.9
Lee	35	181	220	229	247	148	48.5	35	166	238	251	276	132	48.8
Linn	54	268	371	446	416	255	49.2	62	255	396	479	431	234	48.8
Louisa	36	117	127	175	147	97	48.1	38	118	150	185	173	107	48.5
Lucas	30	99	143	181	186	130	50.3	23	92	164	214	183	124	50.0
Lyon	108	272	253	320	334	104	45.4	92	228	262	367	374	97	46.5
Madison	42	171	256	259	268	158	48.6	49	171	256	294	278	157	48.6
Mahaska	64	242	239	254	304	162	47.7	77	229	257	303	320	158	47.4
Marion	41	156	262	291	302	179	49.7	66	173	296	311	313	141	48.0
Marshall	49	180	215	306	307	144	48.7	59	164	238	325	325	115	48.3
Mills	26	111	147	156	163	81	48.0	38	122	159	186	186	102	48.3
Mitchell	46	222	202	214	226	101	46.3	73	196	221	244	221	110	45.9
Monona	55	149	169	207	229	124	48.2	45	148	184	250	279	152	49.5
Monroe	32	99	167	147	193	123	49.7	23	108	151	194	184	108	49.2
Montgomery	28	147	134	170	160	130	48.8	51	131	131	195	184	104	47.6
Muscatine	27	129	247	249	238	115	48.5	36	144	267	262	239	106	47.8
O'Brien	75	272	210	345	334	101	46.3	85	196	250	416	316	105	47.0
Osceola	62	182	146	196	188	59	45.0	72	129	149	234	208	65	46.6
Page	62	174	170	231	251	169	48.9	70	166	163	287	300	180	49.5
Palo Alto	62	176	175	252	261	89	47.0	62	180	189	339	253	73	46.6
Plymouth	104	388	330	447	412	193	46.6	116	352	330	521	430	193	46.8
Pocahontas	67	232	184	241	294	87	46.3	74	186	210	288	313	106	47.4
Polk	43	140	211	279	267	170	49.8	43	153	197	292	296	150	49.7
Pottawattamie	85	300	357	419	452	215	48.0	101	299	361	465	484	178	47.5
Poweshiek	55	195	222	263	273	144	48.1	58	191	227	280	327	138	48.2
Ringgold	29	136	133	167	176	135	49.6	36	138	146	205	178	121	48.5
Sac	68	212	188	274	298	106	47.1	70	177	227	312	299	99	47.3
Scott	34	187	257	255	264	100	47.3	57	178	252	284	288	112	47.4
Shelby	83	248	225	298	355	108	46.7	112	209	243	363	326	115	46.6
Sioux	107	441	430	469	501	152	45.6	133	388	464	579	476	144	45.8
Story	35	235	241	271	312	154	48.1	57	232	234	311	347	149	48.0
Tama	82	243	302	331	383	167	47.7	79	248	329	407	392	173	47.9
Taylor	52	157	173	166	197	145	48.2	57	162	174	192	242	149	48.6
Union	24	140	137	187	171	113	48.7	45	106	174	184	186	128	48.7
Van Buren	34	162	186	155	197	149	48.7	58	174	193	188	204	150	47.7
Wapello	27	148	177	219	225	163	49.9	19	145	177	233	241	156	50.1
Warren	50	174	307	322	336	205	49.6	58	190	328	337	325	168	48.3
Washington	58	226	259	277	272	146	47.2	70	211	284	288	333	123	47.3
Wayne	36	133	133	164	216	142	49.8	39	130	139	218	212	134	49.5
Webster	64	236	216	332	357	152	48.3	82	197	261	367	350	160	48.1
Winnebago	53	160	135	200	220	79	47.1	64	147	168	236	237	77	46.8
Winneshiek	95	310	336	413	412	158	46.8	79	294	389	450	424	190	47.6
Woodbury	80	271	336	332	373	187	47.5	68	245	305	410	446	185	48.7
Worth	51	158	138	168	200	83	46.5	62	174	175	213	178	72	45.4
Wright	42	150	202	220	287	108	48.5	55	138	216	287	281	113	48.4
State of Iowa	5602	20346	22548	26104	27594	13219	47.6	6339	19205	23918	30341	28959	12577	47.5

least 65 percent of the operators employed elsewhere worked 200 or more days off their farms, with Warren (72.5%) having the highest percentage. In only 13 counties did farm operators working 200 or more days off the farm account for less than half of those working elsewhere.

Ninety-seven counties reported a decrease from 1982 to 1992 in the number of farm operators working no days off the farm; 21 had declines of at least 20 percent, with Harrison the highest at -27.5 percent. Only Appanoose (+0.8%) and Dubuque (+4.0%) reported increases in the number of operators not working off the farm. In contrast, 55 counties had more farmers working at least 200 days off the farm in 1992 than in 1982. Eight gained at least 30 percent among such operators, led by Hancock (39.3%); 13 counties had increases in the range of 20-29 percent. Declines among those working off the farm at least 200 days occurred in 44 counties. Decreases were greater than 15.0 percent in 13 counties, led by a 22.4 percent drop in Pottawattamie.

In contrast to those with at least 200 days of work off the farm, those working 1-49 days decreased in every county from 1982 to 1992. Of course, many of these operators moved into the categories with more days of off-farm employment. For example, Hancock had a decline of 44.9 percent among those working 1-49 days elsewhere and an increase of 39.3 percent among those employed at least 200 days off the farm.

Age of Farm Operator

The average age of Iowa's farm operators was 50.3 in 1992, an increase of 2.7 years from the 1982 figure of 47.6 (Table 3). Those aged 35-44 included the greatest number of farm operators in 1992. This is a significant change from 1982 and 1987, when those aged 55-64 yielded the greatest number. Other major changes also occurred in the 10-year period. In 1982, 11.5 percent of the operators were 65 or older; this increased to 19.0 percent in 1992 (Figure 3). As older operators increased, younger ones declined. In 1982, 17.6 percent of Iowa's operators were age 25-34, but only 13.6 percent were in this category in 1992. The age category with the greatest percentage change included operators under 25, which declined by 59.4 percent (-3,326) between 1982 and 1992. But numerical declines were much greater among those 25-34, 45-54, and 55-64; each of these age categories had about 6,000-7,000 fewer members in 1992 than in 1982. The only category that increased during this period included operators 65 or older; more than 5,000 (+38.7%) were added.

The average age of farm operators was at least 50 in 55 counties as of 1992. The oldest average age (55.4) was reported for Appanoose. The youngest average age was 46.6 in Delaware. Eighty of Iowa's 99 counties had averages from 48.0 through 52.9.

In 1992, farm operators aged 35-44 were the largest group in 51 counties. In Mills the number aged 45-54 was identical to those 65 or older. Of the remaining 47 counties, 10 had more 45-54 than in any other age category, 15 had more 55-64, and 22 had their largest numbers in the 65 or older category.

In five counties (Adams, Appanoose, Lucas, Ringgold, Wayne), at least 50 percent of the farm operators were 55 or older in 1992. In contrast, six others (Bremer, Buchanan, Carroll, Delaware, Mitchell, Sioux) had less than 35 percent aged 55 or older. Ten years earlier, no county had more than 50 percent of its operators 55 or older, and five counties had less than 30 percent of their operators that old.

Operators under the age of 25 did not account for as much as five percent of the farmers in any county in 1992. Those 25-34 ranged from a low of 7.1 percent to a high of 20.0 percent when counties were compared. Among those 35-44, percentages varied from 14.6 to 29.5 across Iowa's 99 counties. Operators aged 45-54 ranged from 15.0 to 26.2 percent; the range was similar for those 55-64 (18.7%-25.5%). Finally, farmers 65 or older varied from 10.7 to 34.0 percent of all operators in 1992.

From 1982 to 1992, percentage declines were relatively great among farm operators under the age of 25. For Iowa, the drop was 59.4 percent. In 10 years, this age group decreased by two-thirds (-66.7%) or more in 33 counties; seven of these had declines of at least 80 percent. Some of these counties had few farmers in this age group in 1982; thus, a relatively small numeric decline yielded a large percentage change in some instances. Still, many counties had few young operators taking over during

that period. Declines were under 40 percent in 11 counties, with Franklin (-16.0%) having the smallest drop.

Operators age 25-34 declined in all but one county (Dubuque) between 1982 and 1992. Percentage changes, although less dramatic than for those under 25 years of age, still was substantial. Five counties (Clay, Decatur, Fremont, Montgomery, Union) lost at least 55 percent in this age group.

Among those 35-44, the category with the greatest number of operators in 1992, percentage changes were not as large. In the 43 counties with increases, gains ranged from 0.5 percent to 58.8 percent. Declines occurred in 55 counties, with losses of at least 10 percent in 32 counties. Drops greater than 30 percent took place among those 35-44 in four counties (Henry, Lucas, Monroe, Muscatine). One county (Fremont) reported no change in the number of farm operators 35-44 between the 1982 and 1992 agricultural censuses.

In contrast to trends for younger and middle-aged operators, the category of those 65 or older recorded increases in all but one county (Polk) from 1982 to 1992. Gains of at least 50 percent occurred in 33 counties, with three of these (Appanoose, Jackson, Pocahontas) above 80 percent.

Note: These data are from the CENSUS OF AGRICULTURE (Volume 1: Geographic Area Series, Part 15: Iowa: State and County Data) published by the U.S. Bureau of the Census; the 1992 data became available in 1994.

Figure 1. Principal occupation of farm operators in Iowa, 1978-1992.

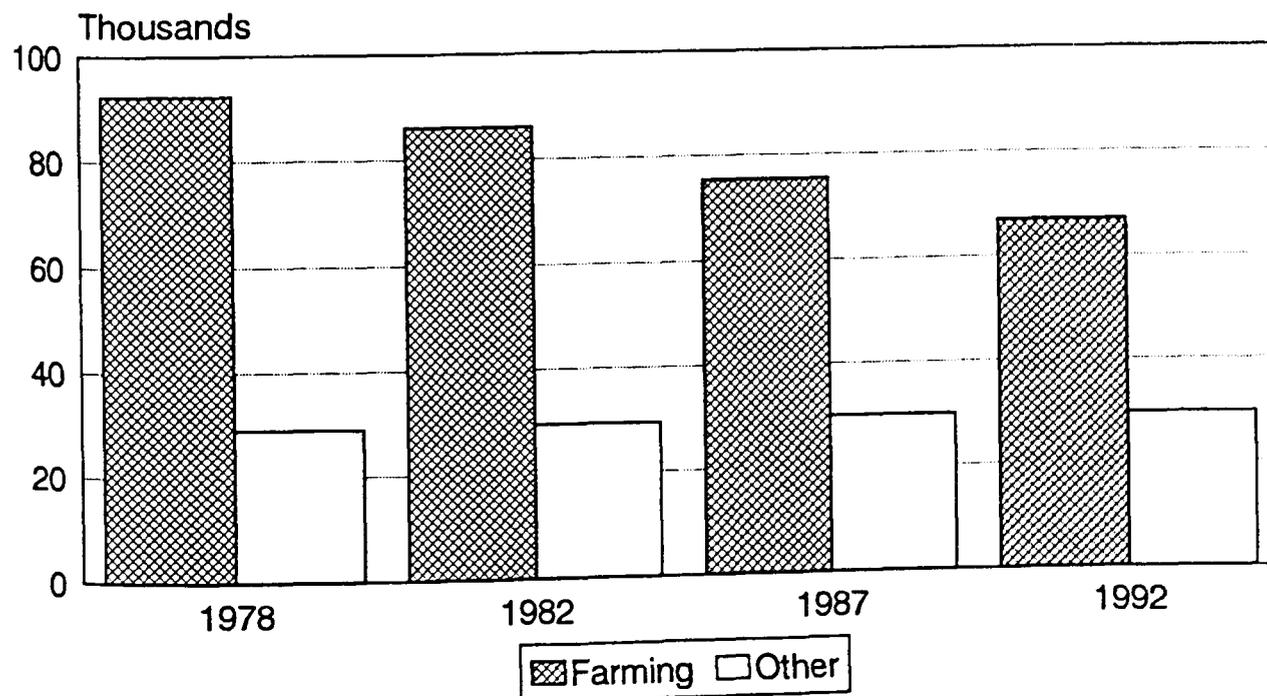


Figure 2. Days worked off the farm by farm operators in Iowa, 1978-1992.

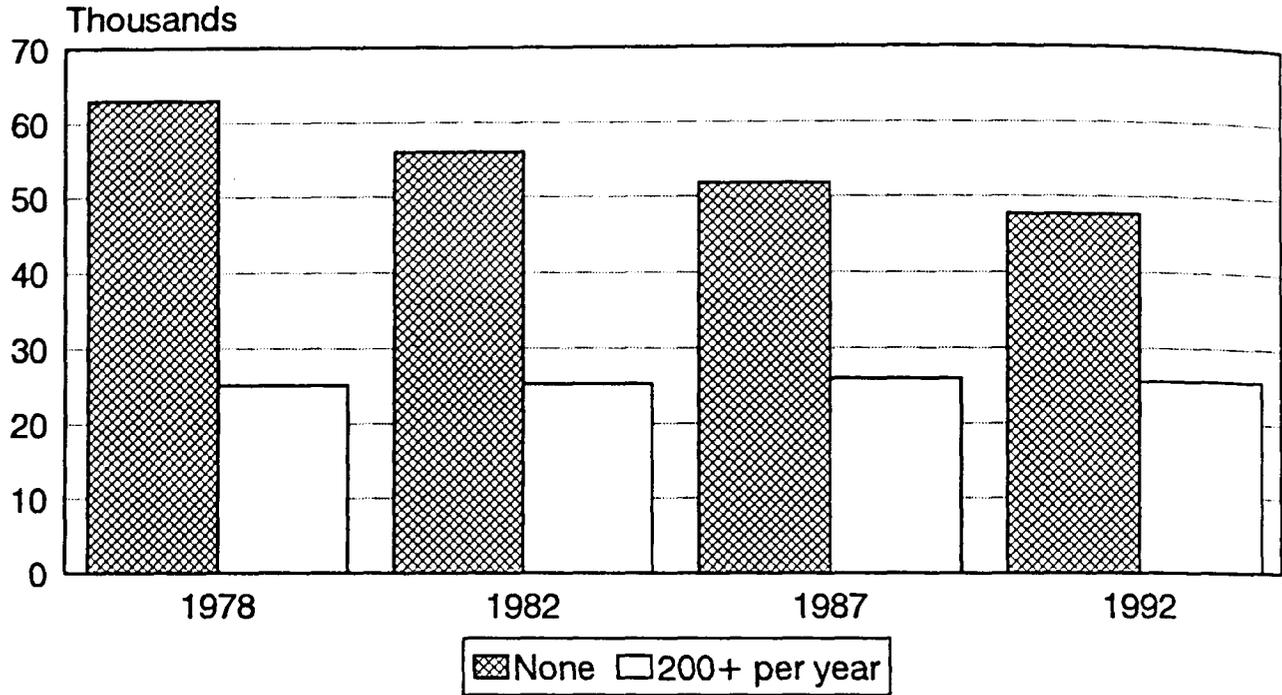
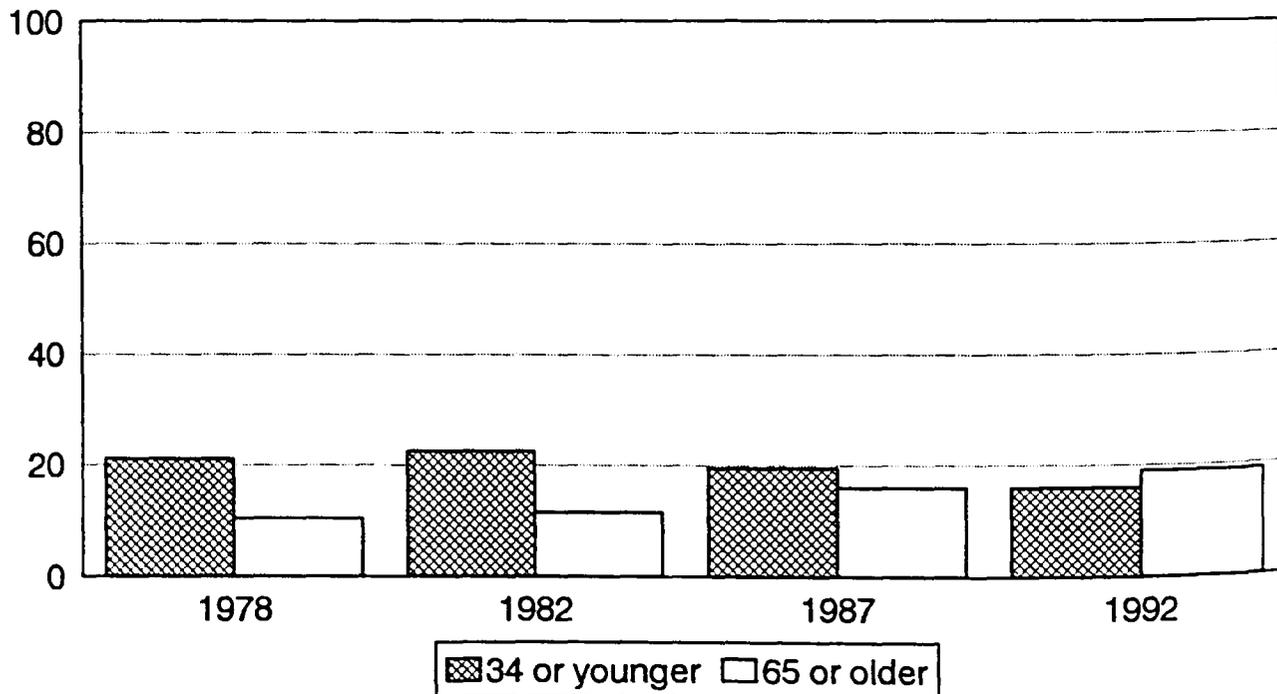


Figure 3. Percent of all farm operators in selected age categories in Iowa, 1978-1992.



Hogs and Pigs Sold in Iowa's Counties:

1978-1992

Willis Goudy, Iowa State University
Paul Lasley, Iowa State University
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The Census of Agriculture includes information on a variety of agricultural products sold during the census year. A question listed in 1978, 1982, 1987, and 1992 asked farm operators how many hogs and pigs had been sold from their farms and the value of those sales.

Hogs and Pigs Sold in 1992

In 1992, the value of hogs and pigs sold in Iowa was more than \$2.5 billion for the 26.8 million head sold (Table 1). More than 34,000 farms—or 35.3 percent of all farms in the state—sold hogs and pigs in 1992.

Nineteen counties had sales greater than 400,000 head in 1992, led by Sioux (1.2 million); the only county to exceed 1 million (Figure 1). Delaware (813,000), Plymouth (748,000) and Washington (709,000) were the only other selling more than 700,000 head. Fourteen counties reported sales of fewer than 100,000 head in 1992, although only Appanoose (19,900) reported less than 50,000 sold.

The value of hogs and pigs sold varied from less than \$10 million in 17 counties to more than \$50 million in six (Carroll, Delaware, Dubuque, Plymouth, Sioux, Washington). Sioux (\$111 million) and Delaware (\$79 million) topped the state, while Appanoose (\$2 million) had the lowest figure.

The number of farms selling hogs and pigs varied considerably across the state. For example, Sioux (1,014 farms), Delaware (858), Plymouth (830), and Dubuque (795) had more farms selling hogs and pigs than other counties. In contrast, eight counties (Appanoose, Decatur, Des Moines, Fremont, Lucas, Mills, Monroe, Polk) had fewer than 150 farms selling hogs and pigs; only Appanoose (91) had fewer than 100 in 1992.

Farms selling fewer than 200 hogs and pigs accounted for only 809,000 (3.0%) of the total sold in 1992. More farms sold from 200 to 499 hogs and pigs than any other category reported by the census bureau (Tables 2, 3). The farms with sales in this category sold more than 2.7 million head. The 8,383 farms selling at least 1,000 head accounted for more sold (17.8 million) than all other categories combined.

Comparisons by county on the numbers of hogs and pigs sold are somewhat difficult because the census bureau must protect the confidentiality of individual operations; when data are suppressed, it affects at least two reporting categories so that subtraction cannot be used to obtain information for one of them. Sioux leads in the 200-499, the 500-999, and the 1,000 or more categories. The 912,000 head sold from farms selling at least 1,000 in Sioux were 334,000 more than the number in the county in second place (Delaware, 578,000).

Another way to examine concentration of production is to compare the percentage of farms and percentage of hogs and pigs sold. In 1992, nearly half (47.5%) of the farms sold at least 500 head (Table 4; these farms sold more than four-fifths (86.8%) of all hogs and pigs that year. Nearly one-fourth (24.6%) of the farms sold 1,000 or more hogs and pigs, but they accounted for two-thirds (66.5%) of those sold.

Farms selling at least 1,000 hogs and pigs accounted for 70 or more percent of those sold in 30 counties, with 80 percent exceeded in two of these (Hamilton, Washington). In nine counties, farms with sales of at least 1,000 head had less than 50 percent of all sold; two of these (Adair, Appanoose) reported figures below 40 percent.

In only Appanoose did farms with sales of 500 or more hogs and pigs account for less than half of all sold in 1992. Clarke (66.4%) also was somewhat less concentrated, while 17 counties had at least 90 percent of hogs and pigs sold by producers selling at least 500; the levels were highest in Hamilton (94.3%) and Hardin (94.1%).

Change in Hogs and Pigs Sold from 1982 to 1992

In the areas of farms and sales, the figures for 1992 were lower than those reported in the 1982 Census of Agriculture (Table 1). The number of farms selling hogs and pigs dropped by nearly 15,000 (or -30.5%) (Figure 2). Although sales dropped by more than \$48 million (-1.9%), the number of hogs and pigs sold increased by 3 million (or 12.7%) (Figure 3). The decline in the total number of farms in Iowa between 1982 and 1992 was 16.3 percent. Thus, the percentage decrease in the number of farms selling hogs and pigs was greater than that for all farms in the state; but the receipts from those sales dropped only minimally in terms of percentage, and the total number sold increased from 1982 to 1992.

In 1982, farms selling at least 1,000 hogs and pigs accounted for nearly half (47.7%) of all sold that year. The percentage of all hogs and pigs sold by farms selling at least 1,000 increased to 66.5 percent in 1992. Indeed, the percentage nearly doubled from 1978 to 1992 (Figure 4).

All counties had fewer farms selling hogs and pigs in 1992 than in 1982. Declines of less than 100 farms occurred in 14 counties. Another 18 had at least 200 fewer farms selling hogs and pigs in 1992 than ten years earlier.

Although the number of farms selling hogs and pigs decreased in all counties, the number of head sold increased in 61 counties. Increases greater than 200,000 head took place in Delaware, Dubuque, and Sioux. Seven others (Carroll, Clayton, Jones, Lyon, Plymouth, Sac, Shelby) had gains of 100,000-199,000 head. A total of 38 counties reported fewer head sold in 1992 than in 1982, led by Marion, which was the only county with at least 60,000 fewer sold. Four counties (Iowa, Madison, Warren, Wright) dropped by 40,000-59,000 sold.

Increases between 1982 and 1992 in the value of hogs and pigs sold exceeded \$10 million in Carroll, Delaware, Dubuque, and Sioux. Thirty-five counties had greater receipts in 1992 than in 1982. In the 64 counties with declines, sales dropped from less than \$1 million in nine counties to more than \$5 million in 16.

Note: These data are from the CENSUS OF AGRICULTURE (Volume 1: Geographic Area Series, Part 15: Iowa: State and County Data) published by the U.S. Bureau of the Census; the 1992 data became available in 1994.

Table 1. Hogs and Pigs Sold in Iowa Counties, 1978-1992.

County	1992			1987			1982			1978		
	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)
Adair	316	156365	14808	395	152345	16454	543	171719	18558	657	183462	17351
Adams	177	95170	9153	229	88680	9332	335	115733	12676	445	127449	12454
Allamakee	356	257244	22951	426	169181	17951	484	203344	19144	650	186770	16211
Appanoose	91	19874	2122	143	31233	3207	209	35133	3614	299	48574	4554
Audubon	313	276003	25231	361	238820	23803	476	257140	26109	612	244829	21602
Benton	503	313768	30956	573	296578	33721	748	309340	34351	894	299296	28764
Black Hawk	374	318461	30481	416	275866	30363	473	232341	25585	526	196800	19148
Boone	233	185745	17529	270	177753	18559	362	186624	20459	449	187507	17178
Bremer	345	197125	18104	366	180944	18688	472	173871	18698	542	142977	13859
Buchanan	510	388110	33617	574	373171	37214	652	339428	35592	765	285761	26599
Buena Vista	408	455914	42868	468	388304	42058	566	383355	41111	685	318778	30139
Butler	474	399648	36902	562	367816	38444	720	330621	35972	811	286807	27099
Calhoun	290	232428	22566	295	203838	21710	449	212202	22318	491	179472	16359
Carroll	613	609937	55999	714	510765	52683	807	433469	45250	874	410743	36804
Cass	316	189685	16943	353	167856	17465	475	180962	19769	615	181920	17872
Cedar	454	426423	38922	518	355042	39699	644	359099	40855	871	402206	40044
Cerro Gordo	264	233951	21761	303	253333	24288	411	246861	28266	495	241323	23929
Cherokee	423	360996	33923	463	315806	34361	588	320646	35501	644	261551	23702
Chickasaw	364	274193	25706	404	236486	23635	495	230707	24042	612	212328	20259
Clarke	163	62189	5480	209	73511	8132	277	74796	7688	361	88421	7773
Clay	257	201603	20673	299	194631	22439	387	198220	22653	430	182959	17360
Clayton	688	516862	49148	791	474860	52187	876	380483	41541	1056	375898	35605
Clinton	564	318670	30280	616	271236	29631	757	321925	35303	1004	350077	33745
Crawford	507	347870	32975	608	271314	29247	800	301065	32031	971	306646	28276
Dallas	173	93628	8921	224	111556	12417	323	127958	14054	417	120164	11245
Davis	238	116081	9789	245	88454	9235	322	84616	8431	382	84587	7162
Decatur	124	71881	6640	157	89435	8403	226	77878	7870	307	73130	6014
Delaware	858	813394	79012	930	747477	82525	1004	601584	66327	1103	507641	49638
Des Moines	142	118195	10085	174	91237	9172	250	107426	10900	346	116503	10549
Dickinson	157	102515	9791	179	102886	11822	242	109195	12071	315	99049	9481
Dubuque	795	642169	59625	892	517669	54171	982	415762	45429	1113	373974	35386
Emmet	167	110838	10718	182	102578	10940	222	117776	12232	314	114239	10835
Fayette	564	455013	42940	611	368889	39880	731	383763	42196	860	309253	29504

Table 1. Hogs and Pigs Sold in Iowa Counties, 1978-1992 (continued).

County	1992			1987			1982			1978		
	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)
Floyd	329	251937	22570	311	199066	20139	377	189183	20248	448	169273	15478
Franklin	339	361087	33134	400	353402	36557	516	324355	37964	649	287161	26931
Fremont	131	73545	7665	166	89328	9875	193	72925	8015	260	76068	7294
Greene	204	163277	16035	207	161714	17974	317	158153	17685	412	197181	19046
Grundy	334	262536	25712	403	282242	29918	496	287986	31341	592	246551	23196
Guthrie	276	183759	17189	318	160645	17018	415	167310	17657	517	144006	12875
Hamilton	262	384527	37443	340	296597	32318	444	330776	35871	553	253708	24126
Hancock	389	328647	30186	401	271442	28671	509	301863	33051	616	265692	24642
Hardin	364	428513	40265	406	398460	42300	493	352307	39074	587	300717	27679
Harrison	217	164419	11716	260	132658	12240	385	175574	15179	531	133612	11140
Henry	220	191345	17102	275	177634	18878	365	210844	21976	502	213207	19382
Howard	358	195012	18206	366	163639	17427	461	150731	16274	587	143921	13471
Humboldt	215	218792	18515	219	182114	18662	305	202832	20302	369	184599	17371
Ida	324	220866	20819	347	168106	19425	408	181930	19936	523	178944	17382
Iowa	396	265337	26253	462	253035	29627	615	311149	34384	752	285426	27603
Jackson	541	293288	26771	581	244383	24761	683	232138	24591	852	237772	21458
Jasper	458	413277	40102	510	349763	38270	687	390840	42665	811	345851	32534
Jefferson	217	195665	15601	255	144528	14121	345	158328	15272	511	184075	15755
Johnson	521	365138	35435	594	350424	37802	747	389509	40773	858	328382	30525
Jones	514	460454	41643	534	360436	37865	648	327586	36711	834	325515	31562
Keokuk	405	382018	35438	486	350450	37209	658	395304	42112	777	365518	33437
Kossuth	516	422333	40200	647	392010	43210	816	453134	49465	1037	421392	40094
Lee	257	248783	24558	285	187062	20227	363	198754	20406	478	180867	17066
Linn	432	232380	22180	508	208731	23876	611	203365	23352	763	205614	20333
Louisa	171	118462	9870	228	114918	12750	295	139839	15091	395	130395	12283
Lucas	110	57173	5359	142	46575	4796	240	63384	6357	314	73789	6903
Lyon	549	477954	42516	599	404640	39883	768	364117	38757	864	300195	28036
Madison	238	117089	11702	297	123559	12792	441	160842	16901	539	154055	14114
Mahaska	477	429094	41945	534	407094	44745	688	446177	48316	821	410861	37993
Marion	304	217257	20212	402	227507	23307	549	280905	28181	684	277029	23677
Marshall	246	232322	22207	315	191669	21256	389	199017	21938	484	168353	15687
Mills	146	86562	7558	170	77324	8627	246	105463	11109	308	99621	8672
Mitchell	388	322154	30130	406	273074	29681	464	250435	27903	515	219221	20916

Table 1. Hogs and Pigs Sold in Iowa Counties, 1978-1992 (continued).

County	1992			1987			1982			1978		
	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)	Farms Selling Hogs/Pigs	Number of Hogs/Pigs Sold	Sales (in \$1,000s)
Monona	256	134317	13115	247	101724	11173	321	117707	12647	441	132745	12194
Monroe	126	75117	6627	163	75059	6561	254	93014	8791	353	85464	6893
Montgomery	205	104062	10484	250	99489	11511	303	109818	12905	408	123560	12428
Muscatine	261	181310	17219	289	152451	16996	421	185168	20657	517	180201	17983
O'Brien	526	497663	48154	574	409093	44297	616	401409	43694	725	287948	27639
Osceola	259	248582	24878	271	178655	18340	376	191191	19640	410	159172	14983
Page	293	147214	14836	332	147801	15553	436	172527	18639	601	182893	17207
Palo Alto	333	273073	24794	370	219650	23642	438	227269	24732	523	215544	20881
Plymouth	830	748248	69032	897	626498	63878	1093	579929	60306	1259	518564	46992
Pocahontas	286	241494	23212	323	224380	24436	408	230934	23224	498	205143	18141
Polk	129	72032	6731	169	73131	7991	242	85284	9037	292	75335	7052
Pottawattamie	436	281712	25238	546	239278	24946	666	258641	26843	818	256122	23668
Poweshiek	333	218675	21612	385	210829	23108	512	210659	23708	655	229158	21156
Ringgold	203	87603	8065	221	89820	9831	295	86629	9107	392	108534	10243
Sac	430	461236	42905	447	384947	40883	549	349174	37182	643	326727	29466
Scott	308	252871	24806	353	218118	25721	465	234250	27649	591	239647	25172
Shelby	513	402092	37099	514	300106	30518	629	298996	31180	759	272208	25663
Sioux	1014	1180718	110971	1070	873187	90993	1198	711065	75776	1290	581187	53625
Story	251	206763	20012	290	221283	24026	392	208755	22442	496	177984	17100
Tama	427	270876	23278	491	249542	27920	655	270181	30158	787	278342	26482
Taylor	205	110120	11002	231	98679	10543	345	106484	11052	515	117816	10439
Union	154	89296	8532	186	74186	7430	281	90089	9675	383	95928	8739
Van Buren	172	137386	10247	206	132498	11075	342	134395	12674	461	151522	12114
Wapello	150	84710	8717	197	83003	8934	293	96970	10449	355	88288	8104
Warren	239	124678	11890	310	163172	16511	405	180192	18361	529	158114	14509
Washington	580	709307	62134	605	574390	56567	738	633853	62568	845	563112	49163
Wayne	163	78475	6715	178	70369	7080	251	82202	8623	333	74073	6906
Webster	258	237054	22794	270	178275	19605	358	196058	20735	432	168521	15611
Winnebago	205	133178	11921	252	142260	15178	331	147479	15781	393	133529	12783
Winneshiek	635	351038	32797	743	320287	34265	843	291478	31036	1073	271360	26121
Woodbury	391	257732	23297	470	251467	25691	639	283541	29361	777	280185	25631
Worth	220	127767	12759	245	122653	13754	332	133097	15059	416	141430	12914
Wright	198	159387	13321	219	143753	15234	340	200582	21342	436	192290	18137
State of Iowa	34058	26812736	2502048	38638	23483812	2494231	49012	23801117	2550488	60065	22082311	2061298

Table 2. Number of Farms and Hogs/Pigs Sold by Categories of Hogs/Pigs Sold in Iowa Counties, 1987-1992.

Farms Selling Selected Numbers of Hogs/Pigs and Total Number of Hogs/Pigs Sold by Such Farms: 1992														
County	1-24 Sold		25-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500-999 Sold		1,000+ Sold	
	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs
Adair	18	241	9	334	25	1869	41	5545	107	33842	79	54768	37	59766
Adams	10	136	8	275	20	1459	24	3180	57	19670	30	21133	28	49317
Allamakee	13	188	26	960	34	2361	49	6853	101	32314	71	48707	62	165861
Appanoose	16	189	11	401	14	1066	17	2720	24	7591	5	3272	4	4635
Audubon	5	40	13	476	16	1126	28	3975	86	27732	73	51785	92	190869
Benton	25	318	22	789	37	2599	70	10178	130	41304	117	81309	102	177271
Black Hawk	26	285	9	302	31	2138	44	6204	75	25037	87	59449	102	225046
Boone	19	161	17	649	16	1078	20	2857	54	18279	57	39848	50	122873
Bremer	27	284	22	746	37	2622	37	5251	79	25517	83	56116	60	106589
Buchanan	29	392	24	890	28	1923	74	10598	138	46255	89	61032	128	267020
Buena Vista	13	168	14	564	19	1270	27	3814	70	22469	111	76877	154	350752
Butler	22	272	10	344	35	2566	50	7384	105	35058	130	90583	122	263441
Calhoun	15	191	6	210	24	1806	19	2772	77	24507	68	47999	81	154943
Carroll	11	159	6	216	23	1745	49	6964	144	44725	180	130815	200	425313
Cass	19	312	15	565	27	1849	46	6579	76	23709	80	52866	53	103805
Cedar	8	119	13	442	30	2137	53	7648	105	36587	116	79041	129	300449
Cerro Gordo	12	167	9	295	10	751	20	2962	69	23361	64	45791	80	160624
Cherokee	6	83	8	276	18	1248	44	6247	103	33421	119	84875	125	234846
Chickasaw	17	262	22	761	21	1409	54	7723	96	30192	66	45213	88	188633
Clarke	16	141	10	352	24	1766	37	5237	44	13414	16	11519	16	29760
Clay	10	168	7	244	10	817	33	4800	60	19937	76	53087	61	122550
Clayton	33	467	26	973	45	3188	92	13031	169	54634	154	107424	169	337145
Clinton	25	360	22	815	43	3067	87	12066	156	49228	155	108612	76	144522
Crawford	15	201	14	571	49	3335	64	8670	136	42513	129	89195	100	203385
Dallas	11	93	21	779	27	1890	16	2019	37	10922	31	21790	30	56135
Davis	20	243	15	555	23	1600	41	6247	65	20124	39	27127	35	60185
Decatur	8	134	12	469	12	810	10	1456	39	11230	22	14830	21	42952
Delaware	13	125	22	782	47	3478	52	7464	193	62064	221	161174	310	578307
Des Moines	13	131	10	322	14	950	15	2105	36	10807	22	14587	32	89293
Dickinson	11	^a	1	.	10	670	24	3503	47	14400	37	24923	27	58826
Dubuque	25	381	27	987	34	2375	85	11869	198	62328	216	153158	210	411071
Emmet	5	75	11	362	5	398	23	3303	46	15738	42	27017	35	63945
Fayette	25	307	26	958	53	3598	76	11009	128	39559	114	80936	142	318646
Floyd	16	251	20	712	20	1373	41	6093	89	28472	62	43404	81	171632
Franklin	14	205	9	274	17	1112	30	4357	73	22401	92	63008	104	269730
Fremont	10	99	8	359	9	651	17	2190	50	16366	21	13366	16	40514
Greene	18	223	8	314	17	1161	27	3640	44	15629	39	25129	51	117181
Grundy	19	323	9	339	17	1239	33	4826	77	24978	89	64795	90	166036
Guthrie	24	294	20	696	26	1790	37	5451	73	23323	42	27888	54	124317
Hamilton	10	129	9	325	12	783	11	1595	58	19213	64	45035	98	317447
Hancock	20	287	21	746	26	1818	45	6442	80	25826	93	66352	104	227176
Hardin	15	235	15	522	22	1582	31	4277	51	18470	98	69618	132	333809
Harrison	15	247	18	693	26	1847	26	3545	62	20486	31	21694	39	115907
Henry	16	217	13	431	15	976	21	2926	43	13186	50	35424	62	138185
Howard	11	110	12	454	32	2301	53	7335	116	34670	86	59000	48	91142
Humboldt	14	229	7	251	16	1194	20	2824	42	12780	48	32981	68	168533
Ida	9	144	5	151	34	2538	37	5434	104	32444	69	48922	66	131233
Iowa	18	193	20	718	27	2027	54	7738	101	33549	87	60591	89	160521
Jackson	25	301	24	868	45	3073	81	11667	165	53688	115	77138	86	146553
Jasper	13	160	17	644	24	1540	41	5870	99	31190	117	83523	147	290350

^aData suppressed by the census bureau to protect confidentiality.

Table 2. Number of Farms and Hogs/Pigs Sold by Categories of Hogs/Pigs Sold in Iowa Counties, 1987-1992 (cont.).

Farms Selling Selected Numbers of Hogs/Pigs and Total Number of Hogs/Pigs Sold by Such Farms: 1992														
County	1-24 Sold		25-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500-999 Sold		1,000+ Sold	
	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs
Jefferson	11	111	12	440	17	1184	37	4793	45	12848	43	29820	52	146469
Johnson	20	247	21	706	22	1609	72	11190	146	49680	119	82682	121	219024
Jones	28	211	13	454	30	2080	47	6837	154	49613	103	72618	139	328641
Keokuk	14	215	17	619	23	1602	48	6556	78	24188	93	66500	132	282338
Kossuth	10	128	18	619	27	1858	56	7728	152	49049	129	92283	124	270668
Lee	17	215	7	283	31	2143	21	2913	49	15118	54	38007	78	190104
Linn	23	237	40	1398	28	1816	64	9287	114	35882	92	67235	71	116525
Louisa	12	163	8	262	15	1091	24	3579	43	14333	42	27981	27	71053
Lucas	12	114	8	306	10	770	19	2673	27	8206	17	12226	17	32878
Lyon	10	123	13	484	36	2457	58	7953	146	46437	136	95955	150	324545
Madison	21	261	20	665	25	1778	40	5586	65	20103	32	21976	35	66720
Mahaska	15	245	17	569	24	1647	45	6533	97	29777	122	85984	157	304339
Marion	21	243	16	549	30	2211	24	3155	77	24755	63	44469	73	141875
Marshall	8	87	11	379	16	1148	31	4670	58	18818	46	31225	76	175995
Mills	11	112	12	431	12	778	27	3676	42	13642	22	13223	20	54700
Mitchell	12	205	18	619	34	2379	44	6090	80	26429	84	58271	116	228161
Monona	22	258	11	369	18	1357	41	5889	73	22273	55	36592	36	67579
Monroe	16	243	7	302	16	1124	15	2206	41	13980	14	9702	17	47560
Montgomery	11	158	8	272	18	1296	34	4953	70	22952	33	23181	31	51250
Muscatine	15	248	15	507	16	1165	38	5533	69	22148	54	37794	54	113915
O'Brien	18	233	14	510	27	1983	51	7030	130	41173	129	89710	157	357024
Osceola	3	48	7	256	23	1771	30	4129	70	21902	57	39972	69	180504
Page	8	123	9	314	27	1980	64	8523	87	29092	63	43352	35	63830
Palo Alto	8	72	13	455	18	1296	38	5318	77	26572	94	64184	85	175176
Plymouth	15	204	42	1501	38	2843	92	12755	180	57367	192	136047	271	537531
Pocahontas	16	185	12	441	19	1292	28	3970	73	23147	62	44408	76	168051
Polk	16	.	5	.	5	408	11	1612	39	12766	34	23374	19	33571
Pottawattamie	23	264	30	1082	36	2623	56	7853	131	42316	91	63802	69	163772
Poweshiek	7	82	18	692	16	1123	44	6244	92	30253	92	66570	64	113711
Ringgold	18	242	14	557	26	1729	34	5014	58	17785	25	17529	28	44747
Sac	10	138	9	350	21	1552	41	5533	97	31873	102	72655	150	349135
Scott	12	180	7	254	24	1833	46	6651	66	21194	65	47191	88	175568
Shelby	13	147	15	552	24	1669	44	6286	163	51010	136	95662	118	246766
Sioux	15	202	17	576	49	3373	66	9540	204	65184	268	189740	395	912103
Story	15	195	10	341	14	1069	30	4246	53	17604	60	41524	69	141784
Tama	23	273	36	1332	31	2320	61	8402	108	33168	98	65488	70	159893
Taylor	16	240	6	222	17	1163	28	4215	75	21958	40	27120	23	55202
Union	5	54	10	342	16	1161	26	3723	36	11474	30	20677	31	51865
Van Buren	9	107	12	419	19	1350	34	4594	49	15212	25	18029	24	97675
Wapello	8	101	16	553	15	1022	25	3312	27	8936	27	19046	32	51740
Warren	28	308	21	774	15	1002	40	5648	74	23333	31	22039	30	71574
Washington	17	244	10	362	33	2254	30	4249	127	40968	125	88276	238	572954
Wayne	11	124	10	361	31	2312	26	4070	37	12227	34	22920	14	36461
Webster	13	183	11	438	13	933	29	4113	59	20021	59	39903	74	171463
Winnebago	8	81	7	279	15	1081	24	3351	46	15894	63	44744	42	67748
Winneshiek	29	388	28	949	57	4179	95	13337	165	52368	150	101351	111	178466
Woodbury	21	276	19	693	42	3038	49	6609	85	28599	86	58352	89	160165
Worth	19	297	11	397	19	1322	19	2717	54	17624	57	39315	41	66095
Wright	20	238	4	159	18	1376	27	3514	46	13788	34	23500	49	116812
State of Iowa	1541	19807	1438	51735	2402	170519	3999	566801	8511	2730178	7784	5438930	8383	17834766

Table 2. Number of Farms and Hogs/Pigs Sold by Categories of Hogs/Pigs Sold in Iowa Counties, 1987-1992 (cont.).

County	Farms Selling Selected Numbers of Hogs/Pigs and Total Number of Hogs/Pigs Sold by Such Farms: 1987													
	1-24 Sold		25-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500-999 Sold		1,000+ Sold	
	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs
Adair	19	217	27	903	52	3964	71	9820	117	35870	80	53489	29	48082
Adams	13	142	14	485	32	2304	39	5466	78	24626	40	27054	13	28603
Allamakee	31	367	17	587	49	3330	88	12986	133	40344	71	50585	37	60982
Appanoose	22	229	24	889	23	1673	27	. ^a	29	.	13	8799	5	7140
Audubon	9	117	15	517	32	2220	58	8392	93	29629	85	57614	69	140331
Benton	30	450	39	1407	51	3804	84	11747	155	48965	126	88360	88	141845
Black Hawk	23	251	26	962	36	2615	49	7177	97	32366	101	71376	84	161119
Boone	29	251	14	474	18	1248	28	4230	77	23774	52	35644	52	112132
Bremer	37	419	24	894	39	2773	55	7878	93	30411	63	42742	55	95827
Buchanan	39	448	32	1107	55	4095	68	9966	160	53385	102	71500	118	232670
Buena Vista	16	262	21	744	28	1991	38	5575	119	40674	112	79982	134	259076
Butler	35	458	28	999	53	3775	66	9232	153	50398	110	75879	117	227075
Calhoun	13	243	10	393	26	1949	29	4207	68	22504	78	54678	71	119864
Carroll	21	319	20	726	39	2819	69	9588	194	62702	217	148338	154	286273
Cass	34	470	17	560	40	2697	55	7569	95	30146	71	51111	41	75303
Cedar	26	336	17	649	35	2614	62	9289	152	47672	133	94292	93	200190
Cerro Gordo	21	277	15	563	25	1823	39	5543	58	19470	83	57885	62	167772
Cherokee	19	216	13	486	44	3325	51	6839	134	43889	99	68669	103	192382
Chickasaw	32	394	21	743	30	2131	61	8271	115	35711	77	53640	68	135596
Clarke	13	164	16	573	34	2498	38	5426	63	19999	24	15382	21	29469
Clay	11	133	16	542	30	2156	31	4809	83	26415	68	48526	60	112050
Clayton	45	576	50	1802	67	4851	110	15448	202	66447	177	123795	140	261941
Clinton	42	486	36	1345	74	5503	103	14671	188	60248	108	73694	65	115289
Crawford	40	563	38	1441	56	3924	107	14968	185	58180	117	81585	65	110653
Dallas	16	157	20	674	27	1967	31	.	60	.	29	20135	41	65269
Davis	24	329	27	962	35	2442	43	6234	56	18640	39	25440	21	34407
Decatur	17	205	6	187	22	1547	23	3128	50	15979	16	11687	23	56702
Delaware	33	402	26	911	36	2577	93	13236	214	67581	267	192545	261	470225
Des Moines	21	265	15	515	21	1550	31	4010	35	10947	29	19956	22	53994
Dickinson	6	66	6	190	16	1178	23	3184	64	21162	39	27026	25	50080
Dubuque	42	496	40	1450	62	4334	114	16179	285	90062	201	139211	148	265937
Emmet	12	165	10	401	19	1364	25	3504	45	13957	31	22283	40	60904
Fayette	40	520	37	1384	54	3895	88	.	150	.	130	89259	112	212065
Floyd	33	397	25	860	16	1158	37	5429	78	25726	69	46755	53	118741
Franklin	19	271	14	511	33	2393	54	7847	94	30323	99	70261	87	241796
Fremont	17	237	13	506	17	1217	25	3433	49	14463	19	13671	26	55801
Greene	18	201	6	218	25	1801	29	3962	52	16928	28	19125	49	119479
Grundy	12	194	18	671	32	2243	39	5569	107	33312	108	75754	87	164499
Guthrie	31	344	21	736	28	2068	51	7194	91	26711	55	37239	41	86353
Hamilton	20	234	11	401	11	763	38	5562	92	29543	80	57212	88	202882
Hancock	23	284	15	504	26	1826	49	6936	102	33875	97	67907	89	160110
Hardin	14	175	13	452	31	2138	34	5049	90	31247	98	69438	126	289961
Harrison	20	216	19	642	27	1896	53	7168	75	22956	33	21592	33	78188
Henry	25	212	29	1067	21	1420	26	.	69	.	41	29048	64	120255
Howard	19	263	24	824	38	2806	67	.	109	.	66	44653	43	72083
Humboldt	10	141	9	297	21	1531	31	4060	52	16934	44	31476	52	127675
Ida	12	163	15	517	39	2928	57	7849	95	28918	87	58672	42	69059
Iowa	26	318	26	979	44	3087	64	9184	122	40365	110	75881	70	123221
Jackson	43	515	43	1526	66	4743	81	11290	186	58285	104	68983	58	99041
Jasper	22	297	21	756	19	1323	60	8394	146	47496	129	92954	113	198543

^aData suppressed by the census bureau to protect confidentiality.

Table 2. Number of Farms and Hogs/Pigs Sold by Categories of Hogs/Pigs Sold in Iowa Counties, 1987-1992 (cont.).

Farms Selling Selected Numbers of Hogs/Pigs and Total Number of Hogs/Pigs Sold by Such Farms: 1987														
County	1-24 Sold		25-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500-999 Sold		1,000+ Sold	
	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs
Jefferson	29	436	16	553	33	2359	32	4430	62	19491	44	32524	39	84735
Johnson	31	297	26	955	47	3373	81	11565	183	59464	120	82295	106	192475
Jones	27	380	20	771	53	3740	92	13221	133	42977	110	73081	99	226266
Keokuk	22	275	16	571	40	2954	53	7310	122	39470	112	76541	121	223329
Kossuth	24	261	26	895	53	3851	96	13514	197	61447	128	90531	123	221511
Lee	26	298	14	534	25	1703	35	.	73	.	49	38132	63	118855
Linn	57	596	44	1502	55	3936	78	11287	132	40132	80	54594	62	96684
Louisa	16	171	16	544	15	1055	38	5244	47	15017	64	42372	32	50515
Lucas	15	169	11	386	20	1426	24	3459	43	13707	21	14953	8	12475
Lyon	20	267	17	627	32	2202	91	.	188	.	130	89690	121	239454
Madison	33	489	24	853	42	3035	42	5824	78	24307	54	39743	24	49308
Mahaska	24	298	23	871	35	2658	65	9318	135	43502	120	87244	132	263203
Marion	17	212	27	935	35	2503	54	7888	124	39946	75	51129	70	124894
Marshall	28	348	17	581	28	2005	33	4513	84	25378	63	43669	62	115175
Mills	11	113	11	.	14	.	41	5752	48	15075	30	18806	15	36351
Mitchell	23	286	25	893	47	3411	57	7848	95	30224	74	51437	85	178975
Monona	20	188	25	860	28	2138	40	5636	64	20029	52	36262	18	36611
Monroe	20	228	12	.	28	.	22	.	47	13594	18	12181	16	43598
Montgomery	22	294	16	593	30	2319	45	6222	80	24405	30	21205	27	44451
Muscatine	19	282	22	831	26	1883	43	5870	68	21220	67	46749	44	75616
O'Brien	12	168	13	506	52	3859	94	13132	153	49870	133	93176	117	248382
Osceola	9	88	8	290	21	1576	39	5372	92	30327	53	35704	49	105298
Page	28	431	19	635	27	1952	67	9217	101	32847	55	37458	35	65261
Palo Alto	25	302	11	430	21	1400	45	6142	122	40703	78	52100	68	118573
Plymouth	26	361	33	1238	67	4782	94	13509	235	75643	213	148855	229	382110
Pocahontas	13	153	19	706	14	1082	45	6408	84	27618	78	54492	70	133921
Polk	15	188	14	479	13	946	24	3334	58	18479	29	19489	16	30216
Pottawattamie	53	582	35	1275	76	5744	82	11634	155	49040	100	68078	45	102925
Poweshiek	18	216	19	637	34	2476	69	9590	94	29475	94	65890	57	102545
Ringgold	14	230	21	709	17	.	31	.	87	26877	31	21935	20	34037
Sac	8	114	14	540	27	1904	48	6952	118	38798	111	77447	121	259192
Scott	25	277	18	662	21	1623	44	6227	96	31357	73	50550	76	127422
Shelby	14	166	32	1193	39	2935	77	10892	156	49580	113	77269	83	158071
Sioux	28	319	22	795	59	4214	108	15166	307	97782	260	184643	286	570268
Story	20	220	11	455	18	1345	38	5210	80	25341	63	44095	60	144617
Tama	36	481	22	742	47	3448	82	11766	141	46685	93	64323	70	122097
Taylor	16	197	22	798	22	1482	38	5441	77	23023	42	27725	14	40013
Union	18	251	12	400	22	1517	28	4263	52	17059	37	26244	17	24452
Van Buren	21	226	16	632	25	1812	27	3966	62	18998	38	27253	17	79611
Wapello	29	326	18	610	18	1321	29	4140	44	13711	33	22660	26	40235
Warren	41	478	24	890	40	2768	39	5415	78	23889	50	36292	38	93440
Washington	24	290	24	800	38	2651	56	8030	123	40631	153	106813	187	415175
Wayne	16	224	22	752	15	1020	37	5199	55	18461	14	8745	19	35968
Webster	21	274	11	362	23	1606	27	4024	73	22619	65	44284	50	105106
Winnebago	3	22	10	352	19	1350	38	5401	75	23328	67	48519	40	63288
Winneshiek	50	679	42	1400	86	6422	123	16799	230	73038	141	95603	71	126346
Woodbury	37	430	31	1137	46	3144	53	7594	130	41289	91	62008	82	135865
Worth	12	126	16	543	21	1531	28	4018	79	25734	60	42350	29	48351
Wright	9	127	14	526	21	1510	26	3575	59	18538	51	35457	39	84020
State of Iowa	2320	28689	2040	72957	3389	244473	5290	747604	10628	3394492	8115	5645377	6856	13350220

Table 3. Number of Farms by Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1982.

County	Farms Selling Selected Numbers of Hogs/Pigs: 1982						
	1-24 Sold	25-49 Sold	50-99 Sold	100-199 Sold	200-499 Sold	500-999 Sold	1,000+ Sold
Adair	15	53	59	126	175	84	31
Adams	7	32	52	70	113	43	18
Allamakee	15	53	66	97	145	69	39
Appanoose	24	47	49	44	28	12	5
Audubon	3	38	54	73	152	87	69
Benton	17	72	77	151	217	137	77
Black Hawk	14	62	51	81	108	92	65
Boone	7	37	42	68	92	61	55
Bremer	22	68	70	73	138	60	41
Buchanan	24	57	69	110	183	110	99
Buena Vista	7	33	50	85	147	121	123
Butler	20	70	65	132	204	154	75
Calhoun	16	44	52	64	126	83	64
Carroll	5	33	66	125	275	186	117
Cass	7	55	61	100	147	72	33
Cedar	11	45	51	94	201	149	93
Cerro Gordo	10	32	42	61	112	88	66
Cherokee	12	24	40	106	189	124	93
Chickasaw	22	46	62	94	137	74	60
Clarke	10	42	33	64	82	34	12
Clay	5	35	39	41	116	95	56
Clayton	19	103	95	160	244	149	106
Clinton	20	86	103	145	219	116	68
Crawford	15	88	84	164	249	137	63
Dallas	14	46	34	57	94	45	33
Davis	24	77	43	70	59	37	12
Decatur	9	30	36	32	68	35	16
Delaware	5	63	81	131	285	258	181
Des Moines	10	42	37	47	64	24	26
Dickinson	5	16	26	32	93	41	29
Dubuque	11	88	96	186	317	198	86
Emmet	6	24	34	23	64	36	35
Fayette	21	75	91	123	194	112	115
Floyd	14	48	41	67	99	52	56
Franklin	5	42	47	97	147	100	78
Fremont	8	24	26	43	50	21	21
Greene	7	39	32	48	91	56	44
Grundy	12	27	50	75	155	104	73
Guthrie	14	50	51	86	126	53	35
Hamilton	6	34	21	64	120	103	96
Hancock	2	32	47	63	160	109	96
Hardin	7	34	44	65	132	104	107
Harrison	21	43	59	80	88	60	34
Henry	13	39	42	43	84	71	73
Howard	21	58	59	91	131	72	29
Humboldt	7	24	27	52	84	57	54
Ida	8	19	43	77	140	79	42
Iowa	9	29	52	103	200	136	86
Jackson	25	82	71	139	218	107	41
Jasper	15	57	64	74	206	159	112

Table 3. Number of Farms by Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1982 (continued).

Farms Selling Selected Numbers of Hogs/Pigs: 1982							
County	1-24 Sold	25-49 Sold	50-99 Sold	100-199 Sold	200-499 Sold	500-999 Sold	1,000+ Sold
Jefferson	14	39	35	80	78	51	48
Johnson	16	72	61	113	240	127	118
Jones	14	66	66	105	176	136	85
Keokuk	20	52	51	84	181	151	119
Kossuth	16	55	79	117	274	138	137
Lee	18	39	49	49	73	69	66
Linn	26	105	78	116	141	102	43
Louisa	3	36	31	50	70	67	38
Lucas	11	36	40	41	77	26	9
Lyon	8	58	76	126	269	152	79
Madison	13	74	52	83	127	57	35
Mahaska	10	46	49	94	154	202	133
Marion	8	61	64	80	165	97	74
Marshall	10	47	32	68	97	75	60
Mills	4	32	33	37	88	36	16
Mitchell	14	42	47	72	133	92	64
Monona	9	46	46	55	87	50	28
Monroe	7	37	43	46	73	29	19
Montgomery	5	34	29	70	102	42	21
Muscatine	12	51	41	70	123	76	48
O'Brien	7	33	40	94	183	151	108
Osceola	2	28	31	79	126	68	42
Page	3	61	53	92	118	71	38
Palo Alto	4	25	44	71	131	98	65
Plymouth	13	56	98	138	344	280	164
Pocahontas	6	31	38	61	118	98	56
Polk	9	40	31	42	66	39	15
Pottawattamie	23	87	100	117	188	98	53
Poweshiek	10	48	44	90	172	104	44
Ringgold	10	40	49	64	81	37	14
Sac	11	29	38	87	165	122	97
Scott	10	39	35	83	150	77	71
Shelby	14	54	73	120	191	111	66
Sioux	13	49	96	165	361	310	204
Story	6	34	48	58	105	87	54
Tama	25	76	62	115	190	118	69
Taylor	10	51	53	58	127	34	12
Union	13	40	39	51	78	45	15
Van Buren	24	57	44	64	82	45	26
Wapello	26	50	44	50	66	39	18
Warren	18	59	57	74	102	53	42
Washington	9	53	42	77	204	151	202
Wayne	3	33	42	55	69	33	16
Webster	7	42	47	50	93	65	54
Winnebago	6	27	40	54	105	61	38
Winneshiek	14	86	123	181	265	113	61
Woodbury	24	87	66	103	189	103	67
Worth	15	39	39	51	99	60	29
Wright	5	31	39	54	92	64	55
State of Iowa	1204	4810	5243	8250	14256	9076	6173

Table 3. Number of Farms by Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1982 (continued).

Farms Selling Selected Numbers of Hogs/Pigs: 1978							
County	1-24 Sold	25-49 Sold	50-99 Sold	100-199 Sold	200-499 Sold	500-999 Sold	1,000+ Sold
Adair	14	54	92	157	247	77	16
Adams	15	38	64	103	157	52	16
Allamakee	15	98	98	131	212	69	27
Appanoose	19	66	61	76	^a	25	1
Audubon	4	46	52	145	206	111	48
Benton	16	112	100	182	293	134	57
Black Hawk	19	82	60	106	138	75	46
Boone	19	55	65	67	142	53	48
Bremer	23	95	81	106	153	64	20
Buchanan	24	90	84	125	271	120	51
Buena Vista	8	55	53	122	227	147	73
Butler	20	112	97	175	210	146	51
Calhoun	8	37	62	102	163	77	42
Carroll	2	38	70	159	332	188	85
Cass	21	76	99	130	191	72	26
Cedar	14	59	67	130	321	190	90
Cerro Gordo	10	47	50	104	132	88	64
Cherokee	10	47	63	131	237	101	55
Chickasaw	19	82	92	119	176	88	36
Clarke	14	39	57	92	124	26	9
Clay	4	41	51	65	145	78	46
Clayton	21	120	134	220	325	154	82
Clinton	16	101	132	214	351	139	51
Crawford	16	101	111	235	324	145	39
Dallas	16	72	70	77	120	38	24
Davis	30	93	48	62	105	32	12
Decatur	20	50	54	61	79	31	12
Delaware	13	91	86	148	376	282	107
Des Moines	11	50	61	74	95	41	14
Dickinson	4	34	45	66	112	34	20
Dubuque	15	102	116	212	432	181	55
Emmet	7	42	39	65	93	45	23
Fayette	29	109	122	185	214	125	76
Floyd	19	54	55	90	121	72	37
Franklin	11	63	77	122	214	98	64
Fremont	2	49	45	60	69	21	14
Greene	9	44	61	79	97	72	50
Grundy	8	52	75	114	201	97	45
Guthrie	18	60	90	122	154	54	19
Hamilton	4	44	65	116	156	112	56
Hancock	14	58	60	105	210	116	53
Hardin	6	44	91	98	170	100	78
Harrison	20	92	91	131	133	45	19
Henry	19	58	68	89	139	69	60
Howard	33	93	97	137	149	59	19
Humboldt	7	39	34	68	125	51	45
Ida	7	41	76	99	185	88	27
Iowa	9	70	87	124	272	144	46
Jackson	26	117	110	174	287	106	32
Jasper	18	86	107	118	238	165	79

^aData suppressed by the census bureau to protect confidentiality.

Table 3. Number of Farms by Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1982 (continued).

Farms Selling Selected Numbers of Hogs/Pigs: 1978							
County	1-24 Sold	25-49 Sold	50-99 Sold	100-199 Sold	200-499 Sold	500-999 Sold	1,000+ Sold
Jefferson	23	72	45	118	135	82	36
Johnson	22	62	84	150	318	158	64
Jones	20	91	86	145	288	144	60
Keokuk	10	71	74	114	252	165	91
Kossuth	16	72	100	219	354	182	94
Lee	25	71	63	87	106	76	50
Linn	40	147	119	141	185	92	39
Louisa	9	55	56	66	124	62	23
Lucas	10	53	52	70	88	34	7
Lyon	12	75	100	168	332	126	51
Madison	24	67	78	117	166	68	19
Mahaska	11	58	80	131	248	186	107
Marion	19	75	81	113	208	141	47
Marshall	13	43	67	113	157	56	35
Mills	7	38	49	69	94	36	15
Mitchell	15	64	56	86	167	83	44
Monona	15	47	85	92	138	45	19
Monroe	14	63	72	76	89	30	9
Montgomery	2	57	59	95	133	43	19
Muscatine	17	55	50	111	173	75	36
O'Brien	15	62	72	132	260	120	64
Osceola	6	26	54	90	150	55	29
Page	5	73	74	127	227	70	25
Palo Alto	5	43	77	106	153	90	49
Plymouth	16	114	105	191	462	266	105
Pocahontas	8	39	54	102	158	86	51
Polk	15	64	40	60	72	31	10
Pottawattamie	33	109	128	151	271	88	38
Poweshiek	17	73	72	103	238	119	33
Ringgold	10	39	62	90	138	38	15
Sac	7	46	55	114	214	118	89
Scott	17	66	57	118	179	97	57
Shelby	8	87	101	145	241	131	46
Sioux	8	93	114	220	447	279	129
Story	19	79	46	101	136	79	36
Tama	23	79	89	151	278	121	46
Taylor	8	90	92	112	162	44	7
Union	15	51	71	83	112	36	15
Van Buren	20	77	62	90	142	46	24
Wapello	16	81	62	59	85	38	14
Warren	28	90	87	111	128	55	30
Washington	19	57	67	95	255	186	166
Wayne	14	51	60	72	101	30	5
Webster	21	47	57	74	132	59	42
Winnebago	10	41	55	88	105	69	25
Winneshiek	24	128	149	267	373	109	23
Woodbury	23	105	103	121	254	120	51
Worth	6	54	52	93	128	56	27
Wright	5	36	52	85	142	71	45
State of Iowa	1811	7205	7790	11794	19342	9288	4327

Table 4. Percentages of Farms and of Total Hogs/Pigs Sold in Selected Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1992.

County	% of Farms Selling 100 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms				% of Farms Selling 500 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms				% of Farms Selling 1,000 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms											
	1992		1987		1982		1978		1992		1987		1982		1978					
	Farms	Hogs	Farms	Hogs	Farms	Farms	Farms	Hogs	Farms	Hogs	Farms	Farms	Farms	Hogs	Farms	Hogs				
Adair	83.5	98.4	75.2	96.7	76.6	75.6	36.7	73.2	27.6	66.7	21.2	14.2	11.7	38.2	7.3	31.6	5.7	22.2	2.4	13.0
Adams	78.5	98.0	74.2	96.7	72.8	73.7	32.8	74.0	23.1	62.8	18.2	15.3	15.8	51.8	5.7	32.3	5.4	32.7	3.6	18.6
Allamakee	79.5	98.6	77.2	97.5	72.3	67.5	37.4	83.4	25.4	65.9	22.3	14.8	17.4	64.5	8.7	36.0	8.1	44.6	4.2	25.1
Appanoose	54.9	91.7	51.7	^a	42.6	.	9.9	39.8	12.6	51.0	8.1	8.7	4.4	23.3	3.5	22.9	2.4	18.5	0.3	.
Audubon	89.1	99.4	84.5	98.8	80.0	83.3	52.7	87.9	42.7	82.9	32.8	26.0	29.4	69.2	19.1	58.8	14.5	52.4	7.8	33.4
Benton	83.3	98.8	79.1	98.1	77.8	74.5	43.5	82.4	37.3	77.6	28.6	21.4	20.3	56.5	15.4	47.8	10.3	37.8	6.4	27.5
Black Hawk	82.4	99.1	79.6	98.6	73.2	69.4	50.5	89.3	44.5	84.3	33.2	23.0	27.3	70.7	20.2	58.4	13.7	50.6	8.7	39.3
Boone	77.7	99.0	77.4	98.9	76.2	69.0	45.9	87.6	38.5	83.1	32.0	22.5	21.5	66.2	19.3	63.1	15.2	54.2	10.7	48.5
Bremer	75.1	98.1	72.7	97.7	66.1	63.3	41.4	82.5	32.2	76.6	21.4	15.5	17.4	54.1	15.0	53.0	8.7	41.2	3.7	23.0
Buchanan	84.1	99.2	78.0	98.5	77.0	74.1	42.5	84.5	38.3	81.5	32.1	22.4	25.1	68.8	20.6	62.3	15.2	54.4	6.7	33.1
Buena Vista	88.7	99.6	86.1	99.2	84.1	83.1	65.0	93.8	52.6	87.3	43.1	32.1	37.7	76.9	28.6	66.7	21.7	60.0	10.7	39.4
Butler	85.9	99.2	79.4	98.6	78.5	71.8	53.2	88.6	40.4	82.4	31.8	24.3	25.7	65.9	20.8	61.7	10.4	41.4	6.3	31.4
Calhoun	84.5	99.1	83.4	98.7	75.1	78.2	51.4	87.3	50.5	85.6	32.7	24.2	27.9	66.7	24.1	58.8	14.3	47.2	8.6	32.2
Carroll	93.5	99.7	88.8	99.2	87.1	87.4	62.0	91.2	52.0	85.1	37.5	31.2	32.6	69.7	21.6	56.0	14.5	44.7	9.7	36.5
Cass	80.7	98.6	74.2	97.8	74.1	68.1	42.1	82.6	31.7	75.3	22.1	15.9	16.8	54.7	11.6	44.9	6.9	37.4	4.2	25.2
Cedar	88.8	99.4	84.9	99.0	83.4	83.9	54.0	89.0	43.6	82.9	37.6	32.1	28.4	70.5	18.0	56.4	14.4	48.8	10.3	36.9
Cerro Gordo	88.3	99.5	79.9	98.9	79.6	78.4	54.5	88.2	47.9	89.1	37.5	30.7	30.3	68.7	20.5	66.2	16.1	55.1	12.9	47.7
Cherokee	92.4	99.6	83.6	98.7	87.1	81.4	57.7	88.6	43.6	82.7	36.9	24.2	29.6	65.1	22.2	60.9	15.8	50.4	8.5	37.7
Chickasaw	83.5	99.1	79.5	98.6	73.7	68.5	42.3	85.3	35.9	80.0	27.1	20.3	24.2	68.8	16.8	57.3	12.1	50.6	5.9	32.6
Clarke	69.3	96.4	69.9	95.6	69.3	69.5	19.6	66.4	21.5	61.0	16.6	9.7	9.8	47.9	10.0	40.1	4.3	19.4	2.5	16.4
Clay	89.5	99.4	80.9	98.5	79.6	77.7	53.3	87.1	42.8	82.5	39.0	28.8	23.7	60.8	20.1	57.6	14.5	43.0	10.7	38.1
Clayton	84.9	99.1	79.5	98.5	75.2	74.0	46.9	86.0	40.1	81.2	29.1	22.3	24.6	65.2	17.7	55.2	12.1	44.1	7.8	32.4
Clinton	84.0	98.7	75.3	97.3	72.4	75.2	41.0	79.4	28.1	69.7	24.3	18.9	13.5	45.4	10.6	42.5	9.0	45.0	5.1	29.5
Crawford	84.6	98.8	78.0	97.8	76.6	76.5	45.2	84.1	29.9	70.9	25.0	18.9	19.7	58.5	10.7	40.8	7.9	34.1	4.0	22.1
Dallas	65.9	97.1	71.9	.	70.9	62.1	35.3	83.2	31.3	76.6	24.1	14.9	17.3	60.0	18.3	58.5	10.2	42.7	5.8	32.2
Davis	75.6	97.9	64.9	95.8	55.3	55.2	31.1	75.2	24.5	67.7	15.2	11.5	14.7	51.8	8.6	38.9	3.7	30.5	3.1	21.4
Decatur	74.2	98.0	71.3	97.8	66.8	59.6	34.7	80.4	24.8	76.5	22.6	14.0	16.9	59.8	14.6	63.4	7.1	31.6	3.9	21.8
Delaware	90.4	99.5	89.8	99.5	85.2	82.8	61.9	90.9	56.8	88.7	43.7	35.3	36.1	71.1	28.1	62.9	18.0	49.3	9.7	32.8
Des Moines	73.9	98.8	67.2	97.4	64.4	64.7	38.0	87.9	29.3	81.1	20.0	15.9	22.5	75.5	12.6	59.2	10.4	57.1	4.0	34.6
Dickinson	86.0	99.2	84.4	98.6	80.6	73.7	40.8	81.7	35.8	74.9	28.9	17.1	17.2	57.4	14.0	48.7	12.0	40.6	6.3	28.1
Dubuque	89.2	99.4	83.9	98.8	80.1	79.1	53.6	87.9	39.1	78.3	28.9	21.2	26.4	64.0	16.6	51.4	8.8	34.6	4.9	21.0
Emmet	87.4	99.2	77.5	98.1	71.2	72.0	46.1	82.1	39.0	81.1	32.0	21.7	21.0	57.7	22.0	59.4	15.8	57.1	7.3	36.7
Fayette	81.6	98.9	78.6	.	74.4	69.8	45.4	87.8	39.6	81.7	31.1	23.4	25.2	70.0	18.3	57.5	15.7	56.6	8.8	39.7

^aData suppressed by the census bureau to protect confidentiality.

Table 4. Percentages of Farms and of Total Hogs/Pigs Sold in Selected Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1992 (continued).

County	% of Farms Selling 100 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms				% of Farms Selling 500 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms				% of Farms Selling 1,000 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms											
	1992		1987		1982		1978		1992		1987		1982		1978					
	Farms	Hogs	Farms	Hogs	Farms	Farms	Farms	Hogs	Farms	Hogs	Farms	Farms	Farms	Hogs	Farms	Hogs				
Floyd	83.0	99.1	76.2	98.8	72.7	71.4	43.5	85.4	39.2	83.1	28.6	24.3	24.6	68.1	17.0	59.6	14.9	56.0	8.3	38.3
Franklin	88.2	99.6	83.5	99.1	81.8	76.7	57.8	92.1	46.5	88.3	34.5	25.0	30.7	74.7	21.8	68.4	15.1	59.0	9.9	45.5
Fremont	79.4	98.5	71.7	97.8	69.9	63.1	28.2	73.3	27.1	77.8	21.8	13.5	12.2	55.1	15.7	62.5	10.9	48.3	5.4	34.1
Greene	78.9	99.0	76.3	98.6	75.4	72.3	44.1	87.2	37.2	85.7	31.5	29.6	25.0	71.8	23.7	73.9	13.9	50.3	12.1	50.1
Grundy	86.5	99.3	84.6	98.9	82.1	77.2	53.6	87.9	48.4	85.1	35.7	24.0	26.9	63.2	21.6	58.3	14.7	52.4	7.6	37.4
Guthrie	74.6	98.5	74.8	98.0	72.3	67.5	34.8	82.8	30.2	76.9	21.2	14.1	19.6	67.7	12.9	53.8	8.4	44.8	3.7	24.7
Hamilton	88.2	99.7	87.6	99.5	86.3	79.6	61.8	94.3	49.4	87.7	44.8	30.4	37.4	82.6	25.9	68.4	21.6	64.0	10.1	40.1
Hancock	82.8	99.1	84.0	99.0	84.1	78.6	50.6	89.3	46.4	84.0	40.3	27.4	26.7	69.1	22.2	59.0	18.9	53.1	8.6	38.0
Hardin	85.7	99.5	85.7	99.3	82.8	76.0	63.2	94.1	55.2	90.2	42.8	30.3	36.3	77.9	31.0	72.8	21.7	64.7	13.3	52.0
Harrison	72.8	98.3	74.6	97.9	68.1	61.8	32.3	83.7	25.4	75.2	24.4	12.1	18.0	70.5	12.7	58.9	8.8	52.2	3.6	25.1
Henry	80.0	99.2	72.7	.	74.2	71.1	50.9	90.7	38.2	84.1	39.5	25.7	28.2	72.2	23.3	67.7	20.0	60.2	12.0	48.1
Howard	84.6	98.5	77.9	.	70.1	62.0	37.4	77.0	29.8	71.3	21.9	13.3	13.4	46.7	11.7	44.1	6.3	29.3	3.2	19.6
Humboldt	82.8	99.2	81.7	98.9	81.0	78.3	54.0	92.1	43.8	87.4	36.4	26.0	31.6	77.0	23.7	70.1	17.7	62.3	12.2	53.1
Ida	85.2	98.7	81.0	97.9	82.8	76.3	41.7	81.6	37.2	76.0	29.7	22.0	20.4	59.4	12.1	41.1	10.3	38.7	5.2	25.1
Iowa	83.6	98.9	79.2	98.3	85.4	77.9	44.4	83.3	39.0	78.7	36.1	25.3	22.5	60.5	15.2	48.7	14.0	42.6	6.1	25.6
Jackson	82.6	98.6	73.8	97.2	73.9	70.3	37.2	76.3	27.9	68.8	21.7	16.2	15.9	50.0	10.0	40.5	6.0	28.0	3.8	19.7
Jasper	88.2	99.4	87.8	99.3	80.2	74.0	57.6	90.5	47.5	83.3	39.4	30.1	32.1	70.3	22.2	56.8	16.3	50.9	9.7	38.2
Jefferson	81.6	99.1	69.4	97.7	74.5	72.6	43.8	90.1	32.5	81.1	28.7	23.1	24.0	74.9	15.3	58.6	13.9	54.8	7.0	35.0
Johnson	87.9	99.3	82.5	98.7	80.1	80.4	46.1	82.6	38.0	78.4	32.8	25.9	23.2	60.0	17.8	54.9	15.8	52.2	7.5	28.8
Jones	86.2	99.4	81.3	98.6	77.5	76.4	47.1	87.1	39.1	83.1	34.1	24.5	27.0	71.4	18.5	62.8	13.1	46.7	7.2	32.9
Keokuk	86.7	99.4	84.0	98.9	81.3	80.1	55.6	91.3	47.9	85.6	41.0	32.9	32.6	73.9	24.9	63.7	18.1	54.2	11.7	39.6
Kossuth	89.3	99.4	84.1	98.7	81.6	81.9	49.0	85.9	38.8	79.6	33.7	26.6	24.0	64.1	19.0	56.5	16.8	54.2	9.1	35.7
Lee	78.6	98.9	77.2	.	70.8	66.7	51.4	91.7	39.3	83.9	37.2	26.4	30.4	76.4	22.1	63.5	18.2	58.2	10.5	42.5
Linn	78.9	98.5	69.3	97.1	65.8	59.9	37.7	79.1	28.0	72.5	23.7	17.2	16.4	50.1	12.2	46.3	7.0	32.7	5.1	25.9
Louisa	79.5	98.7	79.4	98.5	76.3	69.6	40.4	83.6	42.1	80.8	35.6	21.5	15.8	60.0	14.0	44.0	12.9	42.9	5.8	26.7
Lucas	72.7	97.9	67.6	95.7	63.8	63.4	30.9	78.9	20.4	58.9	14.6	13.1	15.5	57.5	5.6	26.8	3.8	16.8	2.2	14.4
Lyon	89.3	99.4	88.5	.	81.5	78.4	52.1	88.0	41.9	81.3	30.1	20.5	27.3	67.9	20.2	59.2	10.3	41.2	5.9	27.9
Madison	72.3	97.7	66.7	96.5	68.5	68.6	28.2	75.8	26.3	72.1	20.9	16.1	14.7	57.0	8.1	39.9	7.9	40.0	3.5	21.3
Mahaska	88.3	99.4	84.6	99.1	84.7	81.9	58.5	91.0	47.2	86.1	48.7	35.7	32.9	70.9	24.7	64.7	19.3	52.6	13.0	42.0
Marion	78.0	98.6	80.3	98.4	75.8	74.4	44.7	85.8	36.1	77.4	31.1	27.5	24.0	65.3	17.4	54.9	13.5	51.7	6.9	34.0
Marshall	85.8	99.3	76.8	98.5	77.1	74.6	49.6	89.2	39.7	82.9	34.7	18.8	30.9	75.8	19.7	60.1	15.4	51.2	7.2	34.7
Mills	76.0	98.5	78.8	98.3	72.0	69.5	28.8	78.5	26.5	71.3	21.1	16.6	13.7	63.2	8.8	47.0	6.5	42.9	4.9	34.4
Mitchell	83.5	99.0	76.6	98.3	77.8	73.8	51.5	88.9	39.2	84.4	33.6	24.7	29.9	70.8	20.9	65.5	13.8	50.8	8.5	41.6

Table 4. Percentages of Farms and of Total Hogs/Pigs Sold in Selected Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1992 (continued).

County	% of Farms Selling 100 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms				% of Farms Selling 500 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms				% of Farms Selling 1,000 or More Hogs/Pigs and % of Total Hogs/Pigs Sold by These Farms											
	1992		1987		1982	1978	1992		1987		1982	1978	1992		1987		1982		1978	
	Farms	Hogs	Farms	Hogs	Farms	Farms	Farms	Hogs	Farms	Hogs	Farms	Farms	Farms	Hogs	Farms	Hogs	Farms	Hogs	Farms	Hogs
Monona	80.1	98.5	70.4	96.9	68.5	66.7	35.5	77.6	28.3	71.6	24.3	14.5	14.1	50.3	7.3	36.0	8.7	38.4	4.3	28.6
Monroe	69.0	97.8	63.2	.	65.7	57.8	24.6	76.2	20.9	74.3	18.9	11.0	13.5	63.3	9.8	58.1	7.5	42.8	2.5	23.7
Montgomery	82.0	98.3	72.8	96.8	77.6	71.1	31.2	71.5	22.8	66.0	20.8	15.2	15.1	49.2	10.8	44.7	6.9	33.0	4.7	27.5
Muscatine	82.4	98.9	76.8	98.0	75.3	76.4	41.4	83.7	38.4	80.3	29.5	21.5	20.7	62.8	15.2	49.6	11.4	43.3	7.0	29.2
O'Brien	88.8	99.5	86.6	98.9	87.0	79.4	54.4	89.8	43.6	83.5	42.0	25.4	29.8	71.7	20.4	60.7	17.5	54.2	8.8	34.7
Osceola	87.3	99.2	86.0	98.9	83.8	79.0	48.6	88.7	37.6	78.9	29.3	20.5	26.6	72.6	18.1	58.9	11.2	48.8	7.1	37.2
Page	85.0	98.4	77.7	98.0	73.2	74.7	33.4	72.8	27.1	69.5	25.0	15.8	11.9	43.4	10.5	44.2	8.7	39.0	4.2	24.3
Palo Alto	88.3	99.3	84.6	99.0	83.3	76.1	53.8	87.7	39.5	77.7	37.2	26.6	25.5	64.1	18.4	54.0	14.8	46.0	9.4	38.7
Plymouth	88.6	99.4	86.0	99.0	84.7	81.3	55.8	90.0	49.3	84.8	40.6	29.5	32.7	71.8	25.5	61.0	15.0	43.2	8.3	30.2
Pocahontas	83.6	99.2	85.8	99.1	81.6	79.7	48.3	88.0	45.8	84.0	37.7	27.5	26.6	69.6	21.7	59.7	13.7	49.8	10.2	37.6
Polk	79.8	99.0	75.1	97.8	66.9	59.2	41.1	79.1	26.6	68.0	22.3	14.0	14.7	46.6	9.5	41.3	6.2	33.4	3.4	24.4
Pottawattamie	79.6	98.6	70.0	96.8	68.5	67.0	36.7	80.8	26.6	71.5	22.7	15.4	15.8	58.1	8.2	43.0	8.0	41.5	4.6	31.0
Poweshiek	87.7	99.1	81.6	98.4	80.1	75.3	46.8	82.4	39.2	79.9	28.9	23.2	19.2	52.0	14.8	48.6	8.6	32.8	5.0	22.3
Ringgold	71.4	97.1	76.5	.	66.4	71.7	26.1	71.1	23.1	62.3	17.3	13.5	13.8	51.1	9.0	37.9	4.7	25.6	3.8	21.7
Sac	90.7	99.6	89.0	99.3	85.8	83.2	58.6	91.4	51.9	87.5	39.9	32.2	34.9	75.7	27.1	67.3	17.7	54.8	13.8	48.1
Scott	86.0	99.1	81.9	98.8	81.9	76.3	49.7	88.1	42.2	81.6	31.8	26.1	28.6	69.4	21.5	58.4	15.3	50.8	9.6	38.8
Shelby	89.9	99.4	83.5	98.6	77.6	74.2	49.5	85.2	38.1	78.4	28.1	23.3	23.0	61.4	16.1	52.7	10.5	45.8	6.1	29.4
Sioux	92.0	99.6	89.8	99.4	86.8	83.3	65.4	93.3	51.0	86.5	42.9	31.6	39.0	77.2	26.7	65.3	17.0	49.3	10.0	36.0
Story	84.5	99.2	83.1	99.1	77.6	71.0	51.4	88.7	42.4	85.3	36.0	23.2	27.5	68.6	20.7	65.4	13.8	48.7	7.3	34.5
Tama	78.9	98.6	78.6	98.1	75.1	75.7	39.3	83.2	33.2	74.7	28.5	21.2	16.4	59.0	14.3	48.9	10.5	37.9	5.8	27.6
Taylor	81.0	98.5	74.0	97.5	67.0	63.1	30.7	74.8	24.2	68.6	13.3	9.9	11.2	50.1	6.1	40.5	3.5	28.6	1.4	10.8
Union	79.9	98.3	72.0	97.1	67.3	64.2	39.6	81.2	29.0	68.3	21.4	13.3	20.1	58.1	9.1	33.0	5.3	24.9	3.9	18.5
Van Buren	76.7	98.6	69.9	98.0	63.5	65.5	28.5	84.2	26.7	80.7	20.8	15.2	14.0	71.1	8.3	60.1	7.6	47.2	5.2	38.2
Wapello	74.0	98.0	67.0	97.3	59.0	55.2	39.3	83.6	29.9	75.8	19.5	14.6	21.3	61.1	13.2	48.5	6.1	38.5	3.9	22.0
Warren	73.2	98.3	66.1	97.5	66.9	61.2	25.5	75.1	28.4	79.5	23.5	16.1	12.6	57.4	12.3	57.3	10.4	52.6	5.7	36.0
Washington	89.7	99.6	85.8	99.3	85.9	83.1	62.6	93.2	56.2	90.9	47.8	41.7	41.0	80.8	30.9	72.3	27.4	70.4	19.6	58.3
Wayne	68.1	96.4	70.2	97.2	68.9	62.5	29.4	75.7	18.5	63.5	19.5	10.5	8.6	46.5	10.7	51.1	6.4	31.7	1.5	8.0
Webster	85.7	99.3	79.6	98.7	73.2	71.1	51.6	89.2	42.6	83.8	33.2	23.4	28.7	72.3	18.5	59.0	15.1	55.6	9.7	43.2
Winnebago	85.4	98.9	87.3	98.8	77.9	73.0	51.2	84.5	42.5	78.6	29.9	23.9	20.5	50.9	15.9	44.5	11.5	41.0	6.4	26.5
Winneshiak	82.0	98.4	76.0	97.3	73.5	71.9	41.1	79.7	28.5	69.3	20.6	12.3	17.5	50.8	9.6	39.4	7.2	33.0	2.1	12.5
Woodbury	79.0	98.4	75.7	98.1	72.3	70.3	44.8	84.8	36.8	78.7	26.6	22.0	22.8	62.1	17.4	54.0	10.5	47.3	6.6	34.1
Worth	77.7	98.4	80.0	98.2	72.0	73.1	44.5	82.5	36.3	73.9	26.8	20.0	18.6	51.7	11.8	39.4	8.7	38.4	6.5	31.2
Wright	78.8	98.9	79.9	98.5	77.9	78.7	41.9	88.0	41.1	83.1	35.0	26.6	24.7	73.3	17.8	58.4	16.2	58.6	10.3	41.6
State of Iowa	84.2	99.1	79.9	98.5	77.0	74.5	47.5	86.8	38.7	80.9	31.1	22.7	24.6	66.5	17.7	56.8	12.6	47.7	7.2	33.6

Figure 1. Number of hogs sold in 1992.

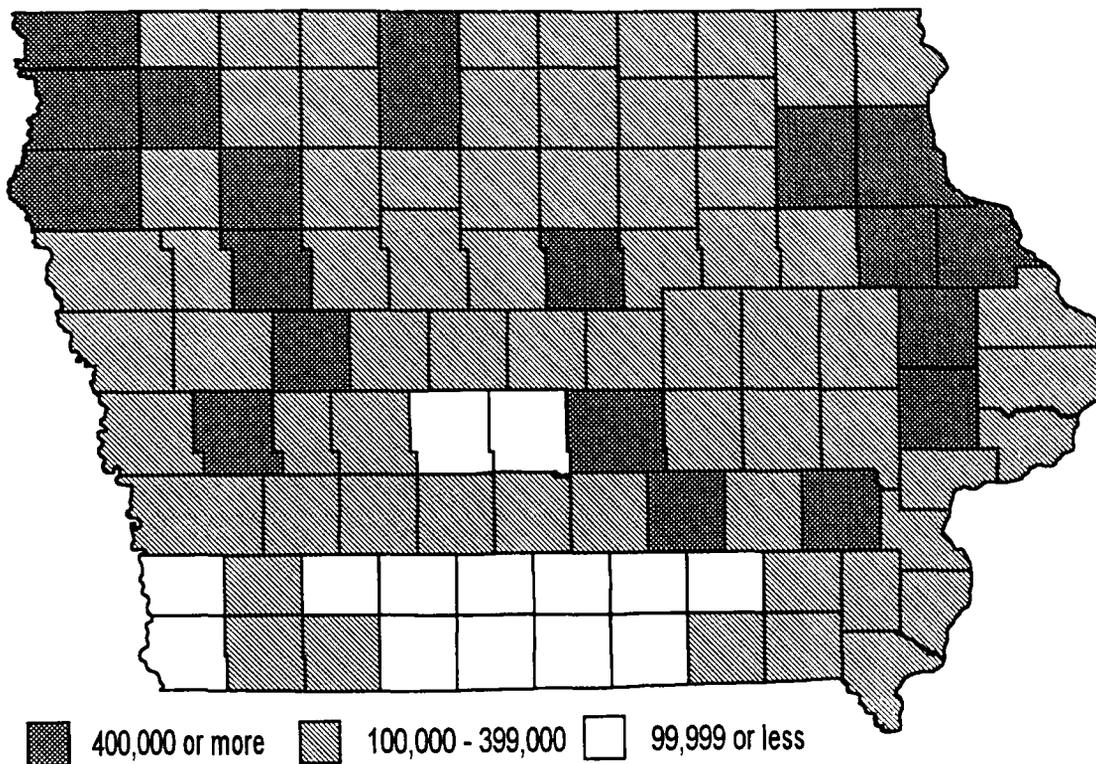


Figure 2. Number of farms selling hogs/pigs in Iowa, 1978-1992.

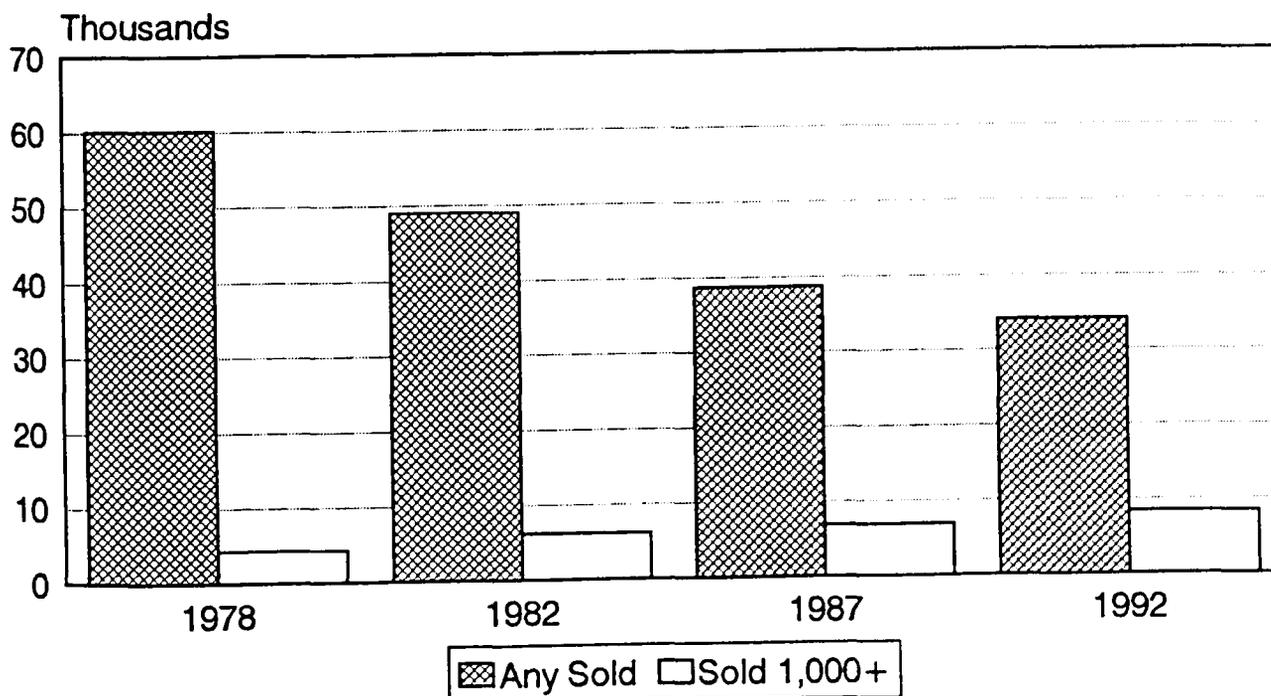


Figure 3. Number of hogs/pigs sold in Iowa, 1978-1992.

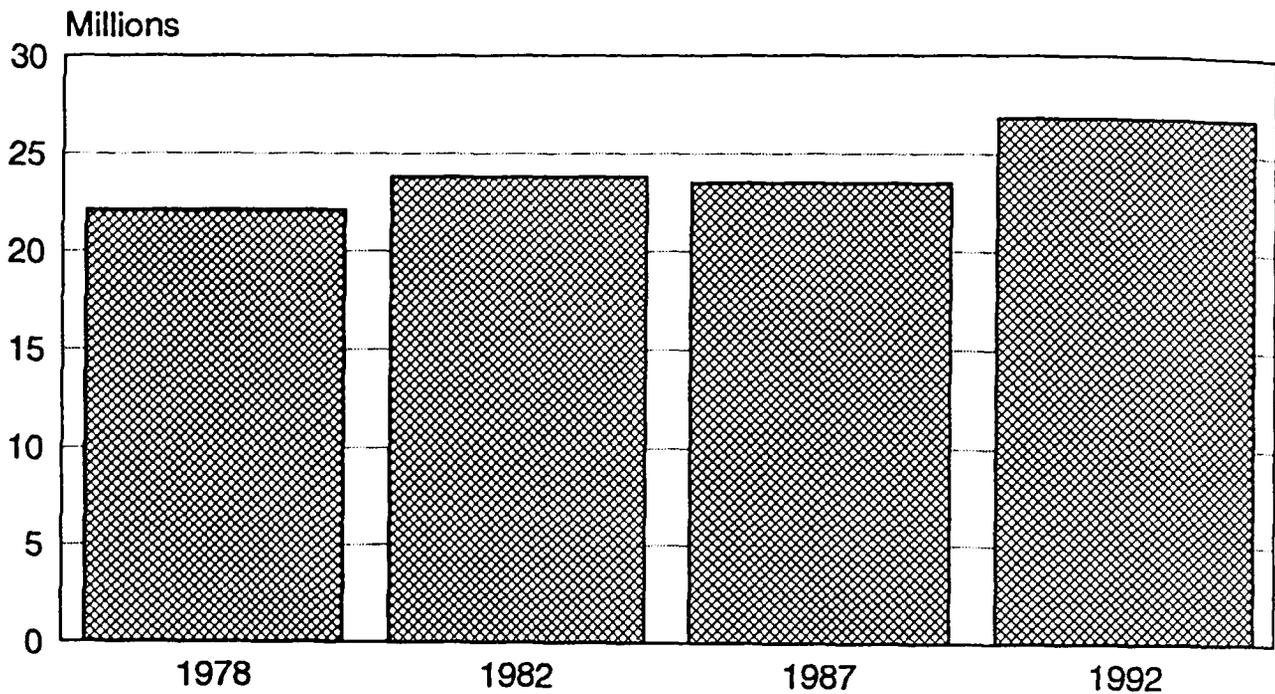
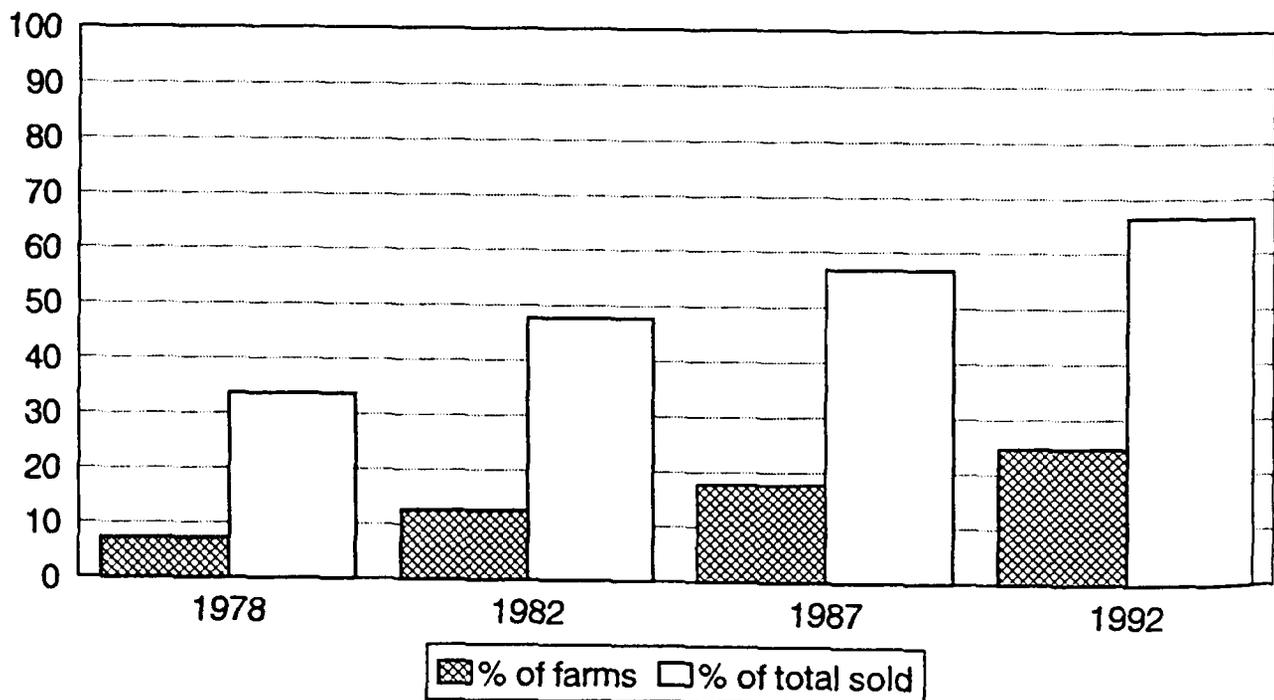


Figure 4. Percent of farms selling 1,000 or more hogs/pigs and percent of total hogs/pigs sold by these farms in Iowa, 1978-1992.



Fattened Cattle Sold for Slaughter in Iowa's Counties: 1978-1992

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The Census of Agriculture, conducted every five years, includes information on cattle sold for slaughter that had been fattened on grain and concentrates. The question was worded as follows: Of all cattle sold, how many were fattened on this place on grain or concentrates for 30 days or more and sold for slaughter?

Fattened Cattle Sold for Slaughter in 1992

In 1992, about 16,700 farms in Iowa sold cattle that had been fattened on grain and concentrates (Table 1). More than 1.9 million cattle were sold, with sales of nearly \$1.6 billion.

At least 350 farms sold cattle in each of five counties (Clinton, Dubuque, Jackson, Plymouth, Sioux), with Dubuque and Sioux exceeding 400. Twenty-five counties had fewer than 100 farms selling cattle, although only Decatur reported fewer than 50 farms selling cattle in 1992.

Sales of at least 50,000 cattle occurred in six counties (Carroll, Lyon, Plymouth, Pottawattamie, Sioux, Woodbury), led by Sioux's sales of 193,000. This was more than twice the number reported in any other county. Carroll was next with 84,000, followed by Plymouth which sold more than 72,000 cattle in the census year. Sales were less than 10,000 head in 32 counties in 1992 (Figure 1).

Receipts totaled more than \$158 million in Sioux; Carroll, Lyon, Plymouth, and Woodbury reported sales worth from \$50 million to \$69 million. Sales were in the \$40-\$49 million range in Pottawattamie. Sales from these six counties, all located in the western section of Iowa, accounted for more than a quarter (28.1%) of all sales of fattened cattle in the state in 1992. Sales of less than \$5 million occurred in 21 counties; the lowest total (\$1.5 million) was reported for Winnebago, while Appanoose, Cerro Gordo, Clarke, Davis, Lucas, Monroe, Ringgold, Van Buren, Wapello, and Wayne ranged from \$1.8 million to \$2.8 million in sales. All but 2 of the 11 counties with relatively low sales are in the southern section of the state.

Although there were more farms (4,349) selling from 20 through 49 cattle than any other category reported by the census bureau (Table 2), those selling at least 500 head accounted for the greatest number sold in the state (1 million). The category with sales of 20-49 head included more farms than did other sales categories in 55 counties; 29 counties had more farms selling fewer than 10 head in 1992 than in any other category reported. Sioux was the only county in which there were more farms selling at least 500 head than any of the smaller categories. In fact, Sioux had nearly three times the number of farms with at least 500 head and more than twice as many farms with 200-499 head than any other county.

County comparisons of the actual number of cattle sold are more difficult because the census bureau must protect the confidentiality of individual operations. The data generally are suppressed when small numbers of farms are reported in particular categories; this always is done in two categories so that subtraction cannot be used to obtain the suppressed information for one of them. But Sioux leads in sales in the 100-199, 200-499, and 500 or more categories. Sioux's sales of 150,000 cattle from farms selling at

least 500 head in 1992 was more than 80,000 greater than the total in Carroll, which was in second place with 68,000.

Farms selling 100 or more head accounted for at least 90 percent of all cattle sold in eight (Buena Vista, Carroll, Dickinson, Humboldt, Plymouth, Sac, Sioux, Woodbury) of the 67 counties for which data were reported (Table 3) and for 80-89.9 percent of the cattle sold in 26 others. In only Davis and Louisa were less than half of the cattle sold from farms with sales of 100 head or more.

Among the 66 counties in which some farms sold at least 500 head for which data were reported, the percentage of all cattle sold in the county by these relatively large operations varied from less than 20 percent in five (Fayette, Hancock, Lee, Poweshiek, Winneshiek) to more than 70 percent in seven others (Carroll, Dickinson, Grundy, Hamilton, Sac, Sioux, Woodbury). Another 22 of the 66 counties for which data were available had from 50 to 69 percent of all cattle sold coming from farms selling at least 500 head.

Change in Fattened Cattle Sold for Slaughter from 1982 to 1992

The figures on cattle sold in 1992 were substantially lower than those reported in the 1982 Census of Agriculture (Table 1). The number of farms selling cattle dropped by nearly 12,000 (or -41.5%) (Figure 2), and the number of cattle sold decreased by nearly 1.2 million (-37.8%) (Figure 3). Sales dropped by more than \$378 million (-19.2%) from 1982 to 1992. The decline in the total number of farms in Iowa between 1992 and 1982 was 16.3 percent. Thus, the percentage drops in the numbers related to farms selling cattle and cattle sold were greater than the percentage decline of all farms in the state.

In 1982, farms selling at least 500 cattle and calves accounted for 44.2 percent of the number sold that year (Figure 4). The percentage of all cattle and calves sold by farms selling at least 500 increased slightly to 51.6 percent in 1992.

All counties had fewer farms selling cattle in 1992 than in 1982. Declines of at least 100 farms selling cattle occurred in 54 counties, although only Plymouth and Sioux were down by more than 300 farms. In percentage terms, declines among the number of farms selling cattle were 50 percent or greater in 28 counties. Three (Hamilton, Lucas, Mills) reported declines of more than 60 percent.

The number of cattle sold in 1992 was higher than in 1982 for five counties (Decatur, Delaware, Dubuque, Harrison, Jones), although the increase was above 5,000 only in Decatur. Declines of at least 10,000 were noted in 46 counties; Carroll, O'Brien, Pottawattamie, and Sioux had numbers at least 50,000 lower in the 1992 census than in the one conducted for 1982. Percentage gains of at least 15 percent occurred only in Decatur, which increased 150 percent (from 6,038 in 1982 to 15,088 in 1992). Decreases of at least 50 percent took place in 37 counties, with five (Cerro Gordo, Hamilton, O'Brien, Ringgold, Winnebago) reporting declines in the number of cattle sold of at least 70 percent.

Although the value of sales declined for the state as a whole, 21 counties reported higher receipts for cattle sold in 1992 than in 1982. Sales were up by at least \$10 million in Dubuque and Woodbury. Decreases of at least \$10 million occurred in 11 counties, with four (Cherokee, O'Brien, Pottawattamie, Sac) showing declines greater than \$20 million. Percentage declines in receipts from sales of cattle were at least 50 percent in 15 counties, including drops exceeding 60 percent in Cerro Gordo, Hamilton, O'Brien, and Winnebago. Gains greater than 25 percent occurred in nine counties (Benton, Chickasaw, Decatur, Delaware, Dubuque, Grundy, Harrison, Jones, Linn).

A noticeable change occurred from 1978 to 1992 in the concentration of cattle produced. This change becomes especially visible in farms selling 500 or more head of cattle (Table 3). In 1978, the 4.0 percent of all farms selling at least 500 cattle accounted for 41.6 percent (or 2 of every 5) of all cattle sold. In 1992, these figures changed to 4.5 percent (farms) and 51.6 percent (cattle sold), or 1 of every 2 cattle were sold from farms selling at least 500 head that year. This occurred as the number of farms selling at least 500 head declined from 1,320 in 1978 to 750 in 1992.

Table 1. Cattle Sold That Had Been Fattened on Grain and Concentrates in Iowa Counties, 1978-1992.

County	1992			1987			1982			1978		
	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)
Adair	220	18814	15227	305	22410	14874	397	27733	16393	422	28247	13886
Adams	110	9645	7613	144	11638	7991	214	18149	11967	236	14601	7090
Allamakee	172	9941	7554	213	12367	7895	216	12687	7113	213	14341	6853
Appanoose	67	3912	2618	101	3992	2260	106	4309	2371	115	4992	2209
Audubon	169	27286	22679	237	33228	22295	331	42795	27677	400	49841	25877
Benton	277	41477	33582	358	50721	35574	459	42172	26000	541	56522	28877
Black Hawk	169	10446	8514	219	10583	7175	301	16402	10059	380	22859	11557
Boone	100	15751	12987	172	18196	12718	243	24757	15474	268	31202	16259
Bremer	229	8335	6386	244	11179	7473	297	11248	7224	299	12455	6422
Buchanan	206	9818	7861	272	18978	12889	339	21547	13753	383	28006	14362
Buena Vista	112	25936	21833	171	30384	21733	273	38353	24980	326	41504	20526
Butler	200	13204	11243	331	18668	13531	384	21600	13357	406	23880	12316
Calhoun	104	15125	12575	128	21194	14538	236	41408	24756	263	45361	21710
Carroll	223	84066	68954	375	93848	61040	483	134875	82642	474	143228	70223
Cass	200	28827	23298	284	34783	23591	374	40607	25121	446	49652	25418
Cedar	209	16396	13238	340	26408	17905	367	26919	17527	457	43500	22801
Cerro Gordo	77	2773	2108	136	6074	4209	178	9483	5948	216	15925	7756
Cherokee	243	31966	26554	311	51240	34833	428	71244	49096	533	92816	48782
Chickasaw	223	19530	16709	269	22266	15707	263	20924	12741	277	19841	10075
Clarke	87	3681	2720	118	4815	2981	126	7616	4046	126	6949	3151
Clay	116	16347	13687	150	22412	15466	271	44641	29328	292	52348	27580
Clayton	303	16937	13473	342	19683	13371	315	18272	11334	321	22161	11123
Clinton	366	42948	34127	476	50447	33695	571	60367	37763	722	87864	45635
Crawford	299	30143	23608	420	43126	29180	570	54957	34342	661	64884	33426
Dallas	108	9336	7724	165	11549	8052	224	23645	14645	262	25174	12306
Davis	93	3077	2317	101	3054	1883	151	4567	2488	119	4189	1889
Decatur	49	15088	10659	73	5988	4045	86	6038	3006	113	6033	2783
Delaware	298	26220	21366	336	23794	15812	368	23176	13330	360	24918	12859
Des Moines	110	5087	3997	144	8039	5418	172	9912	5765	211	13481	6544
Dickinson	90	26021	21676	114	26160	18535	157	42988	27365	214	46178	22817
Dubuque	450	42367	35127	493	41271	28159	529	38779	24083	519	46893	24179
Emmet	83	11659	9601	105	12561	8716	148	22133	14005	181	30736	15571
Fayette	310	16910	13627	384	16187	10900	393	29955	19204	437	36819	19341

Table 1. Cattle Sold That Had Been Fattened on Grain and Concentrates in Iowa Counties, 1978-1992 (continued).

County	1992			1987			1982			1978		
	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)
Floyd	146	12177	11062	209	11326	8164	231	14400	8953	260	18016	9375
Franklin	129	11597	9807	177	14341	10046	262	32500	19870	354	36839	18494
Fremont	79	19997	16646	109	25352	17508	170	32211	20636	193	38772	20421
Greene	108	10925	8402	128	15205	9928	213	27939	16823	266	37488	19656
Grundy	158	28993	23712	227	36986	26625	283	29605	18547	359	50298	25878
Guthrie	120	12242	10122	146	15303	10440	249	28231	17421	290	26888	13678
Hamilton	66	7049	6117	85	8865	6325	173	24701	15810	213	32231	16879
Hancock	143	12064	9884	191	15581	10598	238	21357	13499	302	27658	14286
Hardin	141	15029	12350	236	21153	14122	288	43880	27899	332	54813	27263
Harrison	143	16145	12736	217	18845	12427	237	14735	8651	300	21931	10367
Henry	108	4499	3267	149	7965	5178	181	10582	6351	200	11424	5630
Howard	160	11038	9090	205	11842	8115	222	13830	8139	257	16803	8892
Humboldt	66	10073	8573	92	16978	11739	136	20426	12934	165	25154	12690
Ida	179	21020	17539	277	38238	26192	386	50766	32168	456	64002	33311
Iowa	237	25184	20664	325	29173	19788	363	40658	25357	424	39937	20433
Jackson	393	38271	30865	503	44949	31123	541	40720	25446	561	43325	22264
Jasper	281	25907	21304	395	31745	22168	460	39390	24761	528	41779	20987
Jefferson	116	7032	5233	153	7677	4876	203	9539	5389	212	10095	4737
Johnson	234	11926	9885	314	17923	12063	321	19103	11931	383	22245	10761
Jones	287	40652	33703	360	43576	29615	369	39836	24298	465	51407	26109
Keokuk	144	8540	6424	222	12047	7952	253	16301	9164	292	20601	10290
Kossuth	205	22313	18129	266	28862	20031	369	43417	27527	444	51576	26530
Lee	174	11966	9463	252	17877	11550	252	16602	9959	272	19395	9646
Linn	307	21584	17428	354	23528	16089	404	22018	13782	380	19865	10012
Louisa	99	4451	3221	139	5985	3894	180	9307	5606	216	14162	6719
Lucas	63	3486	2606	95	6090	3416	163	8827	4872	113	6829	3158
Lyon	335	67119	54151	379	59142	41788	489	75294	47661	557	74154	38589
Madison	126	5754	4656	157	7828	5420	210	16694	9965	271	15693	7721
Mahaska	221	30107	24837	310	33711	23410	376	37584	23468	453	47222	24487
Marion	124	6148	4708	173	9536	6124	247	14477	8551	282	18036	8863
Marshall	172	14329	11971	249	20085	13952	330	26118	16790	375	34873	18296
Mills	67	12494	10061	107	18102	12293	178	27686	17740	213	39429	20731
Mitchell	173	23615	19907	208	24011	17290	237	27577	17671	285	32748	16658
Monona	119	21015	16789	144	23626	16922	178	32115	22671	247	38695	20804

Table 1. Cattle Sold That Had Been Fattened on Grain and Concentrates in Iowa Counties, 1978-1992 (continued).

County	1992			1987			1982			1978		
	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)	Farms Selling Cattle	Number of Cattle Sold	Sales (in \$1,000s)
Monroe	65	3659	2735	99	4843	3103	108	5868	3195	101	4420	2074
Montgomery	96	10466	7723	163	13911	9514	234	28379	17488	263	34532	17200
Muscatine	161	6746	5288	215	10529	6978	263	17447	10607	271	18168	9153
O'Brien	169	24696	20707	243	74482	51666	344	96010	60398	454	120078	63726
Osceola	131	20178	15748	171	21757	15195	247	36743	22475	311	45230	23191
Page	158	14738	11295	258	22032	15248	329	28749	17493	404	33811	17714
Palo Alto	138	16182	12524	154	16661	11247	226	28287	17273	263	34316	17307
Plymouth	353	72286	62055	455	71250	50291	682	91326	59204	764	109485	56292
Pocahontas	106	11921	9792	113	19311	13204	187	25385	16410	276	33583	17143
Polk	95	4718	3699	124	6362	4241	158	7697	4782	206	10633	5253
Pottawattamie	315	55885	45128	460	65455	44427	608	118689	74692	733	157603	79749
Poweshiek	211	14233	11310	292	18354	12517	365	24299	14699	389	27123	13612
Ringgold	59	3484	2822	121	9408	5670	137	11900	6741	150	11675	5506
Sac	153	38701	29334	210	53509	34407	358	80322	51406	403	85692	44968
Scott	189	13781	10516	268	24293	16687	317	27597	17942	377	32181	16924
Shelby	218	25938	21140	373	39355	27701	450	48420	30585	559	57458	30435
Sioux	435	192564	158233	567	216084	149468	807	247159	160019	899	279012	151195
Story	110	10379	8003	159	21030	14648	220	18564	12193	291	24643	11944
Tama	230	14383	11457	330	19626	13097	444	29389	16674	524	38548	19476
Taylor	93	5417	4235	129	6150	4275	211	12459	7201	232	10823	5280
Union	72	4926	3810	97	6303	4048	159	13601	8226	168	10755	5258
Van Buren	72	2538	1843	104	4055	2386	115	6047	3324	155	6441	2864
Wapello	67	3667	2647	130	6766	4361	152	7469	4134	169	10296	5078
Warren	180	9073	6944	222	9551	6148	250	14061	8295	259	10972	5124
Washington	200	11639	8899	267	14098	9402	325	21351	12716	335	22544	11142
Wayne	65	2722	1852	113	6695	4110	128	5853	3207	112	6084	2633
Webster	81	4463	3494	110	6681	4115	166	14135	7665	197	19715	9495
Winnebago	54	1812	1453	86	3323	2157	115	7350	4443	148	11437	6080
Winneshiek	323	18154	14986	354	20607	13799	369	21405	12312	391	25345	12416
Woodbury	220	67309	57185	296	62836	43803	391	73305	46551	441	86428	45059
Worth	103	6943	4969	138	8037	5629	165	11735	7458	200	17948	9126
Wright	76	7025	5471	98	11619	8020	143	17227	11098	192	21133	10783
State of Iowa	16693	1954436	1587844	22503	2405669	1643176	28535	3140912	1966120	32750	3729895	1910016

Table 2. Number of Farms and Cattle Sold by Categories of Cattle Sold in Iowa Counties, 1987-1992.

Farms Selling Selected Numbers of Cattle and Total Number of Cattle Sold by Such Farms: 1992														
County	1-9 Sold		10-19 Sold		20-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500+ Sold	
	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle
Adair	30	156	35	497	54	1733	51	3566	29	3698	17	4712	4	4452
Adams	25	121	19	266	28	814	21	1474	6	880	6	1717	5	4373
Allamakee	33	175	38	. ^a	34	1052	36	2339	21	2506	9	2377	1	.
Appanoose	17	50	22	.	10	280	13	834	3	363	1	.	1	.
Audubon	26	122	18	246	40	1219	32	2205	18	2392	20	6216	15	14886
Benton	65	266	49	714	90	2746	23	1539	21	3065	19	5891	10	27256
Black Hawk	60	246	24	306	44	1308	19	1311	13	1802	5	1429	4	4044
Boone	26	105	14	179	10	279	18	1170	7	758	16	5020	9	8240
Bremer	62	298	62	.	66	1858	25	1544	10	1094	3	892	1	.
Buchanan	60	284	42	.	61	1886	19	1333	15	1966	7	1993	2	.
Buena Vista	27	126	11	142	22	696	12	909	24	3455	9	2759	7	17849
Butler	52	241	36	500	61	1824	29	1857	12	1766	6	1897	4	5119
Calhoun	15	66	25	346	24	828	13	878	9	1176	9	2393	9	9438
Carroll	26	125	21	302	64	2030	29	2027	19	2911	29	8374	35	68297
Cass	23	116	35	451	54	1605	33	2349	20	2714	24	7484	11	14108
Cedar	35	144	23	285	60	1854	57	3919	19	2657	12	3345	3	4192
Cerro Gordo	22	93	22	.	21	599	11	770	0	0	0	0	1	.
Cherokee	44	194	33	450	45	1508	49	3388	27	4073	24	6971	21	15382
Chickasaw	49	228	38	510	72	2091	26	1817	14	1796	17	4748	7	8340
Clarke	24	97	15	.	31	945	10	652	2	.	5	1530	0	0
Clay	30	144	20	277	24	791	14	1009	11	1396	10	3518	7	9212
Clayton	64	293	63	860	95	2745	45	3108	21	2669	9	2971	6	4291
Clinton	75	322	50	657	83	2483	47	3207	54	7383	33	10721	24	18175
Crawford	39	190	51	689	100	3108	54	3659	19	2501	22	6673	14	13323
Dallas	33	157	17	228	24	720	14	921	8	1061	7	2262	5	3987
Davis	43	191	11	157	26	817	6	388	4	635	3	889	0	0
Decatur	20	85	4	.	11	374	6	414	4	540	3	1114	1	.
Delaware	52	282	52	743	87	2580	51	3541	23	3185	24	7242	9	8647
Des Moines	39	156	22	.	20	582	17	1217	7	957	4	1170	1	.
Dickinson	26	106	12	182	15	475	11	785	8	1188	6	1659	12	21626
Dubuque	79	359	54	750	140	4139	78	5286	51	6783	31	8218	17	16832
Emmet	29	138	7	108	11	330	13	803	11	1618	6	1607	6	7055
Fayette	63	323	62	845	87	2590	58	4091	24	3118	13	4151	3	1792
Floyd	42	228	33	417	26	835	17	1060	8	1092	14	4506	6	4039
Franklin	34	132	24	355	31	911	12	920	12	1533	13	3369	3	4377
Fremont	18	97	10	143	26	822	16	1054	5	671	2	.	2	.
Greene	42	171	14	185	13	342	20	1259	6	917	7	1980	6	6071
Grundy	34	191	34	470	43	1356	18	1210	11	1679	9	3089	9	20998
Guthrie	26	108	15	222	34	1047	22	1673	13	1773	7	1759	3	5660
Hamilton	19	85	21	289	14	421	4	241	2	.	1	.	5	5513
Hancock	33	153	28	368	33	1007	13	1038	17	2382	16	5098	3	2018
Hardin	35	141	29	427	39	1207	8	545	7	881	13	3419	10	8409
Harrison	27	149	21	256	37	1159	23	1538	13	1659	15	3984	7	7400
Henry	33	134	16	.	21	666	26	1799	11	1431	1	.	0	0
Howard	34	150	38	555	43	1294	17	1109	15	2081	9	2338	4	3511
Humboldt	15	41	9	125	13	457	5	358	12	1689	7	2155	5	5248
Ida	20	102	15	211	60	1996	29	2034	27	3465	20	6555	8	6657
Iowa	50	240	29	381	66	2194	40	2697	25	3256	19	5862	8	10554
Jackson	49	254	50	744	125	3851	82	5832	46	6077	31	9472	10	12041
Jasper	56	246	46	660	68	2134	49	3220	33	4292	19	5319	10	10036

^aData suppressed by the census bureau to protect confidentiality.

Table 2. Number of Farms and Cattle Sold by Categories of Cattle Sold in Iowa Counties, 1987-1992 (continued).

Farms Selling Selected Numbers of Cattle and Total Number of Cattle Sold by Such Farms: 1992														
County	1-9 Sold		10-19 Sold		20-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500+ Sold	
	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle
Jefferson	31	144	24	.	31	916	15	991	6	818	7	1983	2	.
Johnson	72	338	50	.	62	1816	26	1775	13	1791	9	2939	2	.
Jones	52	254	42	595	65	2079	50	3550	27	3943	30	9078	21	21153
Keokuk	35	173	28	407	38	1210	24	1676	13	1787	3	863	3	2424
Kossuth	45	227	35	503	64	2089	19	1282	19	2506	14	4195	9	11511
Lee	32	146	29	423	48	1547	35	2454	18	2435	9	3155	3	1806
Linn	102	450	72	991	84	2519	23	1483	10	1258	11	3194	5	11689
Louisa	27	125	8	121	37	1196	14	963	10	1359	3	687	0	0
Lucas	24	77	2	.	16	512	12	833	5	651	3	832	1	.
Lyon	28	157	37	545	89	2839	66	4542	45	6204	39	12321	31	40511
Madison	36	109	24	.	38	1112	17	1295	4	456	6	1898	1	.
Mahaska	32	151	30	412	57	1812	31	2166	31	4560	30	8124	10	12882
Marion	36	131	20	.	35	1026	15	1077	12	1592	5	1338	1	.
Marshall	44	210	40	540	32	974	22	1520	16	2142	14	3711	4	5232
Mills	19	106	3	.	24	761	8	623	5	627	5	1760	3	.
Mitchell	31	145	13	166	40	1195	34	2462	18	2499	27	7861	10	9287
Monona	16	76	14	194	34	1169	17	1049	18	2559	12	3864	8	12104
Monroe	18	75	13	.	11	290	14	982	5	736	3	907	1	.
Montgomery	19	94	14	214	32	964	16	1094	6	706	4	1192	5	6202
Muscatine	59	271	32	.	36	1229	21	1450	9	1197	3	963	1	.
O'Brien	37	222	15	222	40	1177	28	2012	20	2593	20	6126	9	12344
Osceola	18	78	23	299	40	1277	13	973	15	2238	17	5412	5	9901
Page	30	122	17	222	45	1570	34	2499	12	1667	16	5407	4	3251
Palo Alto	28	123	12	172	30	974	23	1743	22	3009	16	5191	7	4970
Plymouth	56	277	56	763	74	2456	49	3263	46	6654	35	10425	37	48448
Pocahontas	19	94	14	189	27	855	17	1317	12	1678	10	3057	7	4731
Polk	38	117	20	.	17	542	7	511	6	755	5	1270	2	.
Pottawattamie	60	295	47	646	70	2117	40	2937	34	4743	43	12436	21	32711
Poweshiek	34	154	27	402	75	2277	40	2698	20	2731	11	3271	4	2700
Ringgold	13	56	10	.	19	605	9	563	4	660	3	933	1	.
Sac	23	101	31	469	29	880	20	1442	15	1856	19	5944	16	28009
Scott	48	225	37	523	50	1461	28	2022	9	1050	11	3307	6	5193
Shelby	31	146	45	627	55	1745	43	2874	21	2715	14	3899	9	13932
Sioux	31	139	27	361	71	2262	59	4129	59	8510	87	27479	101	149684
Story	26	124	26	372	22	621	11	703	8	1062	13	3748	4	3749
Tama	45	222	53	.	65	2163	40	2577	20	2682	5	1556	2	.
Taylor	17	79	10	152	28	918	29	1886	6	676	2	.	1	.
Union	7	37	14	183	19	558	19	1330	9	1032	2	.	2	.
Van Buren	27	96	9	.	18	599	12	784	4	494	2	.	0	0
Wapello	24	87	12	.	17	480	5	375	7	1043	1	.	1	.
Warren	77	295	25	.	45	1488	13	986	15	2073	4	862	1	.
Washington	51	204	35	.	51	1698	34	2497	14	1978	13	3630	2	.
Wayne	20	81	7	.	25	837	7	448	4	525	1	.	1	.
Webster	27	101	14	188	17	519	9	536	8	1090	6	2029	0	0
Winnebago	16	63	19	275	12	344	3	211	2	.	2	.	0	0
Winneshiek	46	193	51	664	118	3613	65	4421	25	3283	15	4330	3	1650
Woodbury	43	170	27	350	42	1293	36	2316	28	3851	20	5793	24	53536
Worth	28	126	28	.	29	920	9	677	4	599	4	1016	1	.
Wright	28	103	12	.	20	535	6	443	4	454	2	.	4	4662
State of Iowa	3586	16210	2692	37155	4349	134627	2528	174337	1540	209251	1248	373913	750	1008943

Table 2. Number of Farms and Cattle Sold by Categories of Cattle Sold in Iowa Counties, 1987-1992 (continued).

Farms Selling Selected Numbers of Cattle and Total Number of Cattle Sold by Such Farms: 1987														
County	1-9 Sold		10-19 Sold		20-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500+ Sold	
	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle
Adair	34	145	36	518	112	3588	66	4681	37	5249	15	4220	5	4009
Adams	21	105	16	236	58	1823	26	1786	10	1184	7	1817	6	4687
Allamakee	32	155	37	510	71	2204	41	3029	20	2528	11	. ^a	1	.
Appanoose	34	144	17	256	19	572	20	1298	6	643	5	1079	0	0
Audubon	32	184	26	359	78	2654	38	2639	24	3453	20	5454	19	18485
Benton	64	304	69	992	113	3458	61	4033	17	2191	21	6400	13	33343
Black Hawk	67	330	53	748	48	1350	31	2208	10	1248	8	.	2	.
Boone	50	222	27	376	32	1024	16	1302	18	2352	21	6228	8	6692
Bremer	74	336	65	880	67	2033	20	1241	8	1105	6	2060	4	3524
Buchanan	83	375	53	708	60	1793	25	1656	31	4411	16	4572	4	5463
Buena Vista	39	183	24	349	36	1205	24	1641	19	2710	19	5968	10	18328
Butler	82	433	79	1066	97	3043	39	2744	14	.	15	.	5	4988
Calhoun	35	163	14	171	28	853	16	1162	9	1233	12	3466	14	14146
Carroll	29	143	42	575	93	2853	77	5368	50	6906	49	14080	35	63923
Cass	44	181	44	633	73	2365	57	4260	30	4390	19	5380	17	17574
Cedar	70	335	54	772	76	2450	82	5549	30	.	24	.	4	5425
Cerro Gordo	42	189	24	305	48	1439	12	851	6	808	2	.	2	.
Cherokee	39	219	41	593	87	2729	46	3041	40	5150	38	11735	20	27773
Chickasaw	72	368	63	869	63	1842	32	2206	16	2277	14	4703	9	10001
Clarke	23	75	20	269	45	1368	22	1452	5	694	3	957	0	0
Clay	23	86	24	349	44	1444	16	1115	19	2614	10	2807	14	13997
Clayton	81	414	73	1071	96	2963	44	2854	31	3797	13	3905	4	4679
Clinton	70	322	78	1035	119	3675	79	5541	55	8014	58	18116	17	13744
Crawford	45	244	86	1203	125	4032	64	4455	46	5914	41	12472	13	14806
Dallas	52	186	33	465	35	1171	23	1558	7	917	10	3273	5	3979
Davis	41	162	21	278	21	694	12	772	4	.	2	.	0	0
Decatur	18	84	17	255	16	547	15	1053	3	516	2	.	2	.
Delaware	63	354	72	1028	81	2496	59	4052	31	4285	25	7528	5	4051
Des Moines	45	248	31	441	27	842	19	1276	14	1923	6	.	2	.
Dickinson	27	125	12	161	26	726	16	1076	11	1498	14	4119	8	18455
Dubuque	91	387	83	1180	147	4591	88	5733	38	4736	33	10300	13	14344
Emmet	24	109	17	249	26	754	15	996	8	1199	8	2353	7	6901
Fayette	82	418	86	1221	136	4112	42	2886	28	3832	8	.	2	.
Floyd	60	286	42	589	55	1675	25	1619	12	1661	14	.	1	.
Franklin	35	162	42	595	45	1269	24	1668	18	2597	10	3130	3	4920
Fremont	14	68	14	189	44	1474	21	1410	7	1009	3	839	6	20363
Greene	31	151	24	344	30	913	11	695	12	1538	11	2869	9	8695
Grundy	53	258	40	581	64	1983	33	2170	15	2222	11	3968	11	25804
Guthrie	35	138	18	241	47	1473	18	1224	12	1805	11	3362	5	7060
Hamilton	22	92	16	230	19	638	10	690	10	.	3	.	5	5246
Hancock	45	206	47	646	32	974	18	1318	27	3904	18	5920	4	2613
Hardin	54	269	38	546	65	1975	36	2408	18	2637	16	4759	9	8559
Harrison	29	136	29	411	63	2074	50	3510	26	3541	14	4350	6	4823
Henry	42	181	15	200	40	1210	28	2030	14	1766	10	2578	0	0
Howard	43	230	43	605	60	1790	31	2025	17	2358	7	1864	4	2970
Humboldt	18	94	18	250	16	489	12	835	6	980	11	2944	11	11386
Ida	33	155	35	493	67	2237	47	3353	42	5879	37	11057	16	15064
Iowa	41	166	47	683	104	3400	74	5115	30	3966	20	5564	9	10279
Jackson	80	402	78	1120	162	5119	86	6326	51	6567	32	8924	14	16491
Jasper	81	379	67	956	107	3433	64	4285	37	5034	33	9325	6	8333

^aData suppressed by the census bureau to protect confidentiality.

Table 2. Number of Farms and Cattle Sold by Categories of Cattle Sold in Iowa Counties, 1987-1992 (continued).

Farms Selling Selected Numbers of Cattle and Total Number of Cattle Sold by Such Farms: 1987														
County	1-9 Sold		10-19 Sold		20-49 Sold		50-99 Sold		100-199 Sold		200-499 Sold		500+ Sold	
	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle
Jefferson	41	162	22	318	47	1514	22	1540	16	2273	3	.	2	.
Johnson	74	323	69	883	99	3043	36	2587	18	.	13	.	5	5327
Jones	56	286	62	867	77	2476	73	5292	43	6040	26	7674	23	20941
Keokuk	25	122	49	700	82	2617	36	2462	22	2773	6	.	2	.
Kossuth	62	312	46	616	67	2067	23	1632	30	3842	25	6758	13	13635
Lee	47	179	43	595	87	2762	33	2336	16	2219	23	7659	3	2127
Linn	98	442	94	1319	85	2601	40	2555	24	3316	9	2683	4	10612
Louisa	31	154	33	429	42	1331	18	1182	10	1260	4	.	1	.
Lucas	23	97	12	168	29	815	17	1099	5	762	8	.	1	.
Lyon	49	243	62	878	85	2689	70	4909	48	6623	41	12597	24	31203
Madison	43	147	31	438	49	1567	21	1444	6	824	5	.	2	.
Mahaska	37	164	48	679	96	3055	53	3743	36	5168	30	8310	10	12592
Marion	39	158	35	466	53	1499	19	1368	12	1535	15	4510	0	0
Marshall	55	258	39	512	83	2589	29	1903	25	3272	11	3118	7	8433
Mills	21	99	9	140	29	900	20	1406	5	700	16	5278	7	9579
Mitchell	34	135	30	419	53	1744	39	2852	21	2926	22	7494	9	8441
Monona	15	78	18	255	34	1022	32	2160	16	2313	19	5510	10	12288
Monroe	33	182	19	259	22	719	13	884	7	830	3	.	2	.
Montgomery	18	81	37	530	52	1659	31	2237	11	1676	8	2327	6	5401
Muscatine	56	272	38	524	66	2050	31	1982	11	1487	11	.	2	.
O'Brien	48	241	41	543	51	1743	38	2503	22	3246	27	8088	16	58118
Osceola	39	184	23	322	44	1442	23	1444	18	2428	15	4339	9	11598
Page	29	152	45	617	92	2873	50	3566	17	2347	17	5670	8	6807
Palo Alto	32	156	16	214	39	1248	24	1569	20	2770	15	4861	8	5843
Plymouth	74	336	55	725	114	3803	75	5236	58	7491	46	13980	33	39679
Pocahontas	20	104	18	256	16	562	16	1149	22	3005	12	3761	9	10474
Polk	46	176	20	262	32	917	10	715	10	.	2	.	4	2299
Pottawattamie	83	322	64	906	113	3795	80	5521	39	5267	51	14919	30	34725
Poweshiek	37	183	43	612	114	3644	49	3540	36	5135	10	3262	3	1978
Ringgold	13	50	23	329	29	1022	31	2022	12	1697	12	.	1	.
Sac	37	197	34	502	44	1337	29	1995	20	3025	18	5669	28	40784
Scott	54	284	58	797	73	2271	33	2295	21	2679	18	5312	11	10655
Shelby	47	240	52	733	120	3973	73	5084	48	6459	21	6064	12	16802
Sioux	68	335	42	588	104	3174	72	5013	74	10193	94	29687	113	167094
Story	35	156	31	419	38	1214	18	1221	16	2317	13	3915	8	11788
Tama	62	287	71	957	112	3511	47	3195	21	2736	14	4340	3	4600
Taylor	14	61	23	294	60	1799	18	1184	11	1438	2	.	1	.
Union	16	55	12	162	25	913	25	1676	12	1388	6	.	1	.
Van Buren	27	125	13	161	44	1430	12	867	6	.	2	.	0	0
Wapello	46	192	22	302	34	1064	12	930	5	599	10	.	1	.
Warren	75	268	32	451	72	2169	24	1539	14	2061	4	.	1	.
Washington	63	270	41	559	76	2269	48	3391	28	3675	8	2107	3	1827
Wayne	29	99	15	201	40	1294	20	1294	4	658	3	.	2	.
Webster	41	203	21	285	18	539	10	646	14	1813	4	.	2	.
Winnebago	27	113	19	264	28	828	5	362	4	591	2	.	1	.
Winneshiek	71	354	74	1050	122	3717	48	3211	23	2824	12	3666	4	5785
Woodbury	42	200	43	563	96	2947	37	2636	24	3246	30	8571	24	44673
Worth	44	214	32	447	42	1274	8	601	6	909	5	.	1	.
Wright	27	153	18	262	18	569	11	753	8	1090	9	2746	7	6046
State of Iowa	4447	20705	3847	53578	6270	196879	3433	236926	2044	278518	1596	477160	866	1141903

Table 3. Percentages of Farms and of Total Cattle Sold in Selected Categories of Cattle Sold in Iowa Counties, 1978-1992.

County	% of Farms Selling 100 or More Cattle and % of Total Cattle Sold by These Farms				% of Farms Selling 200 or More Cattle and % of Total Cattle Sold by These Farms				% of Farms Selling 500 or More Cattle and % of Total Cattle Sold by These Farms							
	1992		1987		1992		1987		1992		1987		1982		1978	
	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle
Adair	22.7	68.4	18.7	60.1	9.5	48.7	6.6	36.7	1.8	23.7	1.6	17.9	1.3	14.6	1.2	13.1
Adams	15.5	72.3	16.0	66.1	10.0	63.1	9.0	55.9	4.5	45.3	4.2	40.3	3.7	39.8	0.8	. ^a
Allamakee	18.0	.	15.0	.	5.8	.	5.6	.	0.6	.	0.5	.	0.0	0.0	0.9	.
Appanoose	7.5	.	10.9	43.1	3.0	.	5.0	27.0	1.5	.	0.0	0.0	0.0	0.0	0.9	.
Audubon	31.4	86.1	26.6	82.4	20.7	77.3	16.5	72.0	8.9	54.6	8.0	55.6	5.4	44.1	4.8	40.6
Benton	18.1	87.3	14.2	82.7	10.5	79.9	9.5	78.4	3.6	65.7	3.6	65.7	3.5	40.5	3.7	43.0
Black Hawk	13.0	69.6	9.1	.	5.3	52.4	4.6	.	2.4	38.7	0.9	.	1.7	26.8	1.8	31.3
Boone	32.0	89.0	27.3	83.9	25.0	84.2	16.9	71.0	9.0	52.3	4.7	36.8	3.7	40.0	6.3	45.8
Bremer	6.1	.	7.4	59.8	1.7	.	4.1	50.0	0.4	.	1.6	31.5	1.7	35.2	1.3	23.6
Buchanan	11.7	.	18.8	76.1	4.4	.	7.4	52.9	1.0	.	1.5	28.8	1.8	18.2	2.1	21.2
Buena Vista	35.7	92.8	28.1	88.9	14.3	79.5	17.0	80.0	6.3	68.8	5.8	60.3	6.2	51.9	6.1	40.1
Butler	11.0	66.5	10.3	.	5.0	53.1	6.0	.	2.0	38.8	1.5	26.7	1.6	22.9	1.7	22.0
Calhoun	26.0	86.0	27.3	88.9	17.3	78.2	20.3	83.1	8.7	62.4	10.9	66.7	8.5	65.1	8.0	55.9
Carroll	37.2	94.7	35.7	90.5	28.7	91.2	22.4	83.1	15.7	81.2	9.3	68.1	10.6	70.3	8.9	72.7
Cass	27.5	84.3	23.2	78.6	17.5	74.9	12.7	66.0	5.5	48.9	6.0	50.5	3.7	37.5	4.0	39.5
Cedar	16.3	62.2	17.1	.	7.2	46.0	8.2	.	1.4	25.6	1.2	20.5	1.6	20.4	1.8	17.6
Cerro Gordo	.	.	7.4	.	.	.	2.9	.	1.3	.	1.5	.	1.7	23.9	0.9	.
Cherokee	29.6	82.7	31.5	87.2	18.5	69.9	18.6	77.1	8.6	48.1	6.4	54.2	7.9	46.0	9.0	47.1
Chickasaw	17.0	76.2	14.5	76.3	10.8	67.0	8.6	66.0	3.1	42.7	3.3	44.9	2.7	37.3	2.9	30.1
Clarke	.	.	6.8	34.3	.	41.6	2.5	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clay	24.1	86.4	28.7	86.6	14.7	77.9	16.0	75.0	6.0	56.4	9.3	62.5	8.1	56.1	9.2	47.3
Clayton	11.9	58.6	14.0	62.9	5.0	42.9	5.0	43.6	2.0	25.3	1.2	23.8	1.3	27.1	2.2	24.8
Clinton	30.3	84.5	27.3	79.0	15.6	67.3	15.8	63.2	6.6	42.3	3.6	27.2	3.9	25.7	3.6	26.5
Crawford	18.4	74.6	23.8	77.0	12.0	66.3	12.9	63.3	4.7	44.2	3.1	34.3	2.6	25.3	3.0	24.7
Dallas	18.5	78.3	13.3	70.7	11.1	66.9	9.1	62.8	4.6	42.7	3.0	34.5	5.4	50.7	3.8	40.4
Davis	.	49.5	5.9	.	.	28.9	2.0	.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Decatur	16.3	.	9.6	.	8.2	.	5.5	.	2.0	.	2.7	.	2.3	.	0.0	0.0
Delaware	18.8	72.7	18.2	66.7	11.1	60.6	8.9	48.7	3.0	33.0	1.5	17.0	0.8	9.6	0.8	7.6
Des Moines	10.9	.	15.3	.	4.5	.	5.6	.	0.9	.	1.4	.	1.2	.	2.4	20.3
Dickinson	28.9	94.1	28.9	92.0	20.0	89.5	19.3	86.3	13.3	83.1	7.0	70.5	10.8	65.7	11.2	67.4
Dubuque	22.0	75.1	17.0	71.2	10.7	59.1	9.3	59.7	3.8	39.7	2.6	34.8	2.6	26.2	3.9	35.2
Emmet	27.7	88.2	21.9	83.2	14.5	74.3	14.3	73.7	7.2	60.5	6.7	54.9	8.1	55.0	8.8	45.3
Fayette	12.9	53.6	9.9	.	5.2	35.1	2.6	.	1.0	10.6	0.5	.	2.5	35.3	1.6	32.9

^aData suppressed by the census bureau to protect confidentiality.

Table 3. Percentages of Farms and of Total Cattle Sold in Selected Categories of Cattle Sold in Iowa Counties, 1978-1992 (continued).

County	% of Farms Selling 100 or More Cattle and % of Total Cattle Sold by These Farms				% of Farms Selling 200 or More Cattle and % of Total Cattle Sold by These Farms				% of Farms Selling 500 or More Cattle and % of Total Cattle Sold by These Farms							
	1992		1987		1992		1987		1992		1987		1982		1978	
	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle
Floyd	19.2	79.1	12.9	.	13.7	70.2	7.2	.	4.1	33.2	0.5	.	2.2	24.1	1.9	18.3
Franklin	21.7	80.0	17.5	74.2	12.4	66.8	7.3	56.1	2.3	37.7	1.7	34.3	4.6	50.8	3.4	29.2
Fremont	11.4	.	14.7	87.6	5.1	.	8.3	83.6	2.5	.	5.5	80.3	2.9	69.2	2.6	64.9
Greene	17.6	82.1	25.0	86.2	12.0	73.7	15.6	76.1	5.6	55.6	7.0	57.2	5.2	66.7	6.0	57.0
Grundy	18.4	88.9	16.3	86.5	11.4	83.1	9.7	80.5	5.7	72.4	4.8	69.8	4.6	49.7	5.8	56.7
Guthrie	19.2	75.1	19.2	79.9	8.3	60.6	11.0	68.1	2.5	46.2	3.4	46.1	3.2	40.5	4.1	43.7
Hamilton	12.1	.	21.2	.	9.1	.	9.4	.	7.6	78.2	5.9	59.2	6.9	63.5	6.6	46.8
Hancock	25.2	78.7	25.7	79.8	13.3	59.0	11.5	54.8	2.1	16.7	2.1	16.8	4.2	27.7	2.6	19.8
Hardin	21.3	84.6	18.2	75.4	16.3	78.7	10.6	63.0	7.1	56.0	3.8	40.5	8.3	55.6	9.3	50.1
Harrison	24.5	80.8	21.2	67.5	15.4	70.5	9.2	48.7	4.9	45.8	2.8	25.6	0.4	.	0.7	.
Henry	.	.	16.1	54.5	.	.	6.7	32.4	0.0	0.0	0.0	0.0	0.6	.	0.0	0.0
Howard	17.5	71.8	13.7	60.7	8.1	53.0	5.4	40.8	2.5	31.8	2.0	25.1	2.3	21.4	1.2	25.9
Humboldt	36.4	90.3	30.4	90.2	18.2	73.5	23.9	84.4	7.6	52.1	12.0	67.1	7.4	49.4	5.5	35.4
Ida	30.7	79.3	34.3	83.7	15.6	62.9	19.1	68.3	4.5	31.7	5.8	39.4	5.4	36.0	5.7	37.4
Iowa	21.9	78.1	18.2	67.9	11.4	65.2	8.9	54.3	3.4	41.9	2.8	35.2	3.0	43.4	1.4	32.0
Jackson	22.1	72.1	19.3	71.2	10.4	56.2	9.1	56.5	2.5	31.5	2.8	36.7	2.4	25.8	1.4	15.3
Jasper	22.1	75.8	19.2	71.5	10.3	59.3	9.9	55.6	3.6	38.7	1.5	26.2	2.6	28.2	1.9	22.4
Jefferson	12.9	.	13.7	.	7.8	.	3.3	.	1.7	.	1.3	.	1.0	.	0.9	.
Johnson	10.3	.	11.5	.	4.7	.	5.7	.	0.9	.	1.6	29.7	1.9	23.0	1.6	18.0
Jones	27.2	84.1	25.6	79.5	17.8	74.4	13.6	65.7	7.3	52.0	6.4	48.1	3.0	23.3	3.9	29.1
Keokuk	13.2	59.4	13.5	.	4.2	38.5	3.6	.	2.1	28.4	0.9	.	1.2	18.2	1.0	23.2
Kossuth	20.5	81.6	25.6	84.0	11.2	70.4	14.3	70.7	4.4	51.6	4.9	47.2	4.9	46.4	4.1	36.0
Lee	17.2	61.8	16.7	67.2	6.9	41.5	10.3	54.7	1.7	15.1	1.2	11.9	1.6	20.5	1.8	15.7
Linn	8.5	74.8	10.5	70.6	5.2	69.0	3.7	56.5	1.6	54.2	1.1	45.1	0.7	31.6	1.3	24.8
Louisa	.	46.0	10.8	.	.	15.4	3.6	.	0.0	0.0	0.7	.	0.6	.	1.4	17.8
Lucas	14.3	.	14.7	.	6.3	.	9.5	.	1.6	.	1.1	.	1.2	.	1.8	.
Lyon	34.3	88.0	29.8	85.3	20.9	78.7	17.2	74.1	9.3	60.4	6.3	52.8	6.1	45.1	5.4	37.1
Madison	8.7	.	8.3	.	5.6	.	4.5	.	0.8	.	1.3	.	2.4	38.4	1.5	27.4
Mahaska	32.1	84.9	24.5	77.3	18.1	69.8	12.9	62.0	4.5	42.8	3.2	37.4	1.9	22.5	2.4	22.6
Marion	14.5	.	15.6	63.4	4.8	.	8.7	47.3	0.8	.	0.0	0.0	0.4	.	1.1	9.8
Marshall	19.8	77.4	17.3	73.8	10.5	62.4	7.2	57.5	2.3	36.5	2.8	42.0	3.6	32.8	3.5	36.1
Mills	19.4	.	26.2	85.9	11.9	.	21.5	82.1	4.5	.	6.5	52.9	7.3	61.4	7.0	73.4
Mitchell	31.8	83.2	25.0	78.6	21.4	72.6	14.9	66.4	5.8	39.3	4.3	35.2	4.2	34.8	3.9	28.4
Monona	31.9	88.2	31.3	85.1	16.8	76.0	20.1	75.3	6.7	57.6	6.9	52.0	3.4	48.0	4.5	47.3

Table 3. Percentages of Farms and of Total Cattle Sold in Selected Categories of Cattle Sold in Iowa Counties, 1978-1992 (continued).

County	% of Farms Selling 100 or More Cattle and % of Total Cattle Sold by These Farms				% of Farms Selling 200 or More Cattle and % of Total Cattle Sold by These Farms				% of Farms Selling 500 or More Cattle and % of Total Cattle Sold by These Farms							
	1992		1987		1992		1987		1992		1987		1982		1978	
	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle	Farms	Cattle
Monroe	13.8	.	12.1	.	6.2	.	5.1	.	1.5	.	2.0	.	0.9	.	0.0	0.0
Montgomery	15.6	77.4	15.3	67.6	9.4	70.6	8.6	55.6	5.2	59.3	3.7	38.8	4.3	36.5	3.4	36.0
Muscatine	8.1	.	11.2	.	2.5	.	6.0	.	0.6	.	0.9	.	3.0	29.7	2.2	25.5
O'Brien	29.0	85.3	26.7	93.2	17.2	74.8	17.7	88.9	5.3	50.0	6.6	78.0	9.3	70.2	10.1	64.6
Osceola	28.2	87.0	24.6	84.4	16.8	75.9	14.0	73.2	3.8	49.1	5.3	53.3	6.1	52.4	7.4	49.0
Page	20.3	70.1	16.3	67.3	12.7	58.7	9.7	56.6	2.5	22.1	3.1	30.9	3.3	32.2	2.2	21.8
Palo Alto	32.6	81.4	27.9	80.9	16.7	62.8	14.9	64.2	5.1	30.7	5.2	35.1	6.2	36.5	4.6	25.7
Plymouth	33.4	90.6	30.1	85.8	20.4	81.4	17.4	75.3	10.5	67.0	7.3	55.7	5.3	44.1	4.3	46.2
Pocahontas	27.4	79.4	38.1	89.3	16.0	65.3	18.6	73.7	6.6	39.7	8.0	54.2	7.0	48.2	5.1	29.0
Polk	13.7	.	12.9	.	7.4	.	4.8	.	2.1	.	3.2	36.1	1.3	.	1.5	25.3
Pottawattamie	31.1	89.3	26.1	83.9	20.3	80.8	17.6	75.8	6.7	58.5	6.5	53.1	8.4	63.6	8.6	62.5
Poweshiek	16.6	61.1	16.8	56.5	7.1	42.0	4.5	28.5	1.9	19.0	1.0	10.8	1.1	10.7	1.8	14.5
Ringgold	13.6	.	20.7	.	6.8	.	10.7	.	1.7	.	0.8	.	3.6	30.1	2.7	31.5
Sac	32.7	92.5	31.4	92.5	22.9	87.7	21.9	86.8	10.5	72.4	13.3	76.2	12.0	71.3	9.7	63.3
Scott	13.8	69.3	18.7	76.8	9.0	61.7	10.8	65.7	3.2	37.7	4.1	43.9	2.8	25.5	2.9	24.7
Shelby	20.2	79.2	21.7	74.5	10.6	68.7	8.8	58.1	4.1	53.7	3.2	42.7	4.4	40.8	3.8	33.2
Sioux	56.8	96.4	49.6	95.8	43.2	92.0	36.5	91.1	23.2	77.7	19.9	77.3	18.5	69.5	15.7	67.5
Story	22.7	82.5	23.3	85.7	15.5	72.2	13.2	74.7	3.6	36.1	5.0	56.1	3.2	29.6	3.4	38.3
Tama	11.7	.	11.5	59.5	3.0	.	5.2	45.6	0.9	.	0.9	23.4	1.1	21.1	1.7	16.4
Taylor	9.7	.	10.9	.	3.2	.	2.3	.	1.1	.	0.8	.	1.4	13.6	0.0	0.0
Union	18.1	.	19.6	.	5.6	.	7.2	.	2.8	.	1.0	.	2.5	26.2	1.8	17.8
Van Buren	.	.	7.7	.	.	.	1.9	.	0.0	0.0	0.0	0.0	0.9	.	0.6	.
Wapello	13.4	.	12.3	.	3.0	.	8.5	.	1.5	.	0.8	.	2.0	30.4	3.6	47.5
Warren	11.1	.	8.6	.	2.8	.	2.3	.	0.6	.	0.5	.	0.8	.	0.8	.
Washington	14.5	.	14.6	54.0	7.5	.	4.1	27.9	1.0	.	1.1	13.0	1.2	21.7	1.5	16.0
Wayne	9.2	.	8.0	.	3.1	.	4.4	.	1.5	.	1.8	.	0.0	0.0	0.9	.
Webster	.	69.9	18.2	.	.	45.5	5.5	.	0.0	0.0	1.8	.	2.4	33.8	4.1	47.8
Winnebago	.	.	8.1	.	.	.	3.5	.	0.0	0.0	1.2	.	1.7	.	4.1	35.5
Winneshiek	13.3	51.0	11.0	59.6	5.6	32.9	4.5	45.9	0.9	9.1	1.1	28.1	1.1	24.0	1.3	27.9
Woodbury	32.7	93.9	26.4	89.9	20.0	88.1	18.2	84.7	10.9	79.5	8.1	71.1	9.0	58.3	9.1	63.0
Worth	8.7	.	8.7	.	4.9	.	4.3	.	1.0	.	0.7	.	1.2	.	0.5	.
Wright	13.2	.	24.5	85.1	7.9	.	16.3	75.7	5.3	66.4	7.1	52.0	7.7	54.2	5.2	44.8
State of Iowa	21.2	81.5	20.0	78.9	12.0	70.8	10.9	67.3	4.5	51.6	3.8	47.5	4.1	44.2	4.0	41.6

Note: These data are from the CENSUS OF AGRICULTURE (Volume 1: Geographic Area Series, Part 15: Iowa: State and County Data) published by the U.S. Bureau of the Census; the 1992 data became available in 1994.

Figure 1. Number of fattened cattle sold for slaughter in 1992.

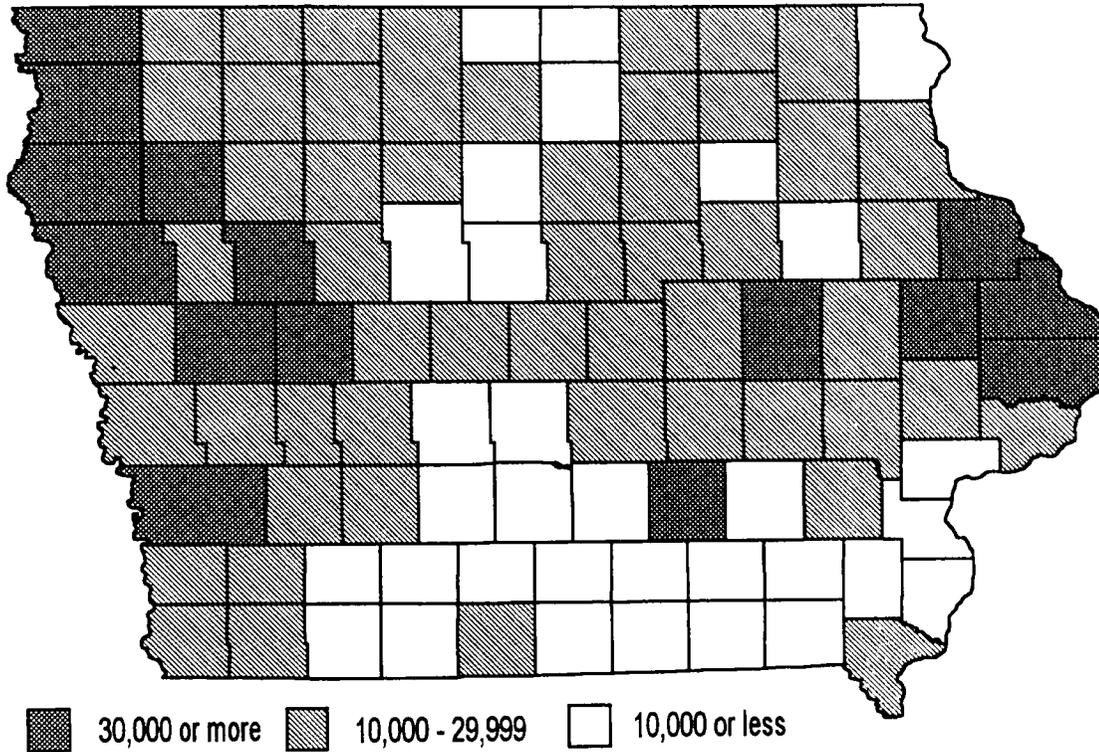


Figure 2. Number of farms selling cattle/calves in Iowa, 1978-1992.

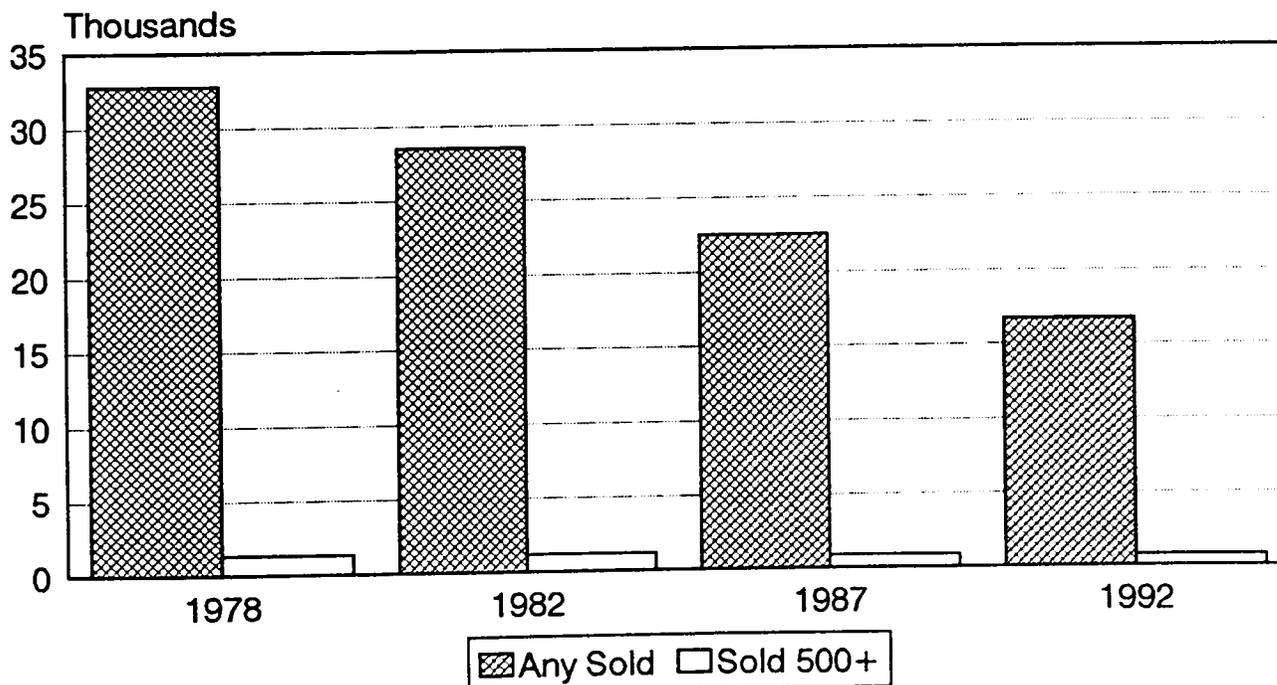


Figure 3. Number of cattle/calves sold in Iowa, 1978-1992.

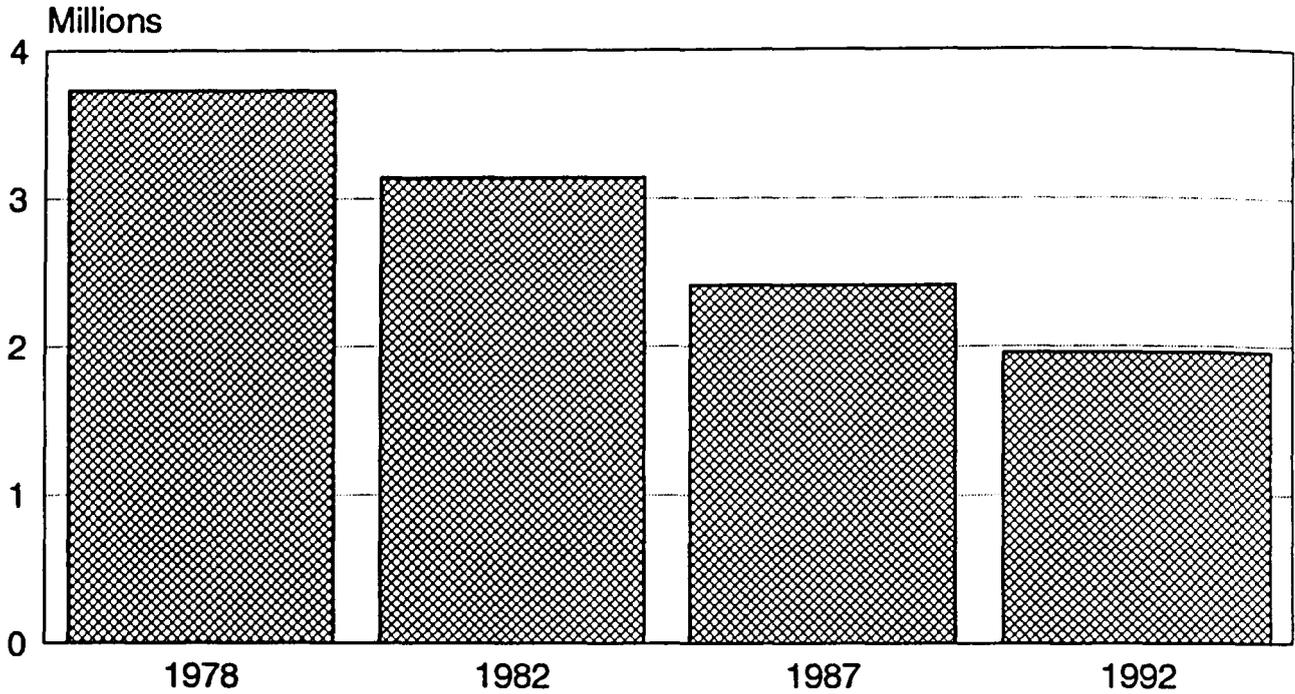
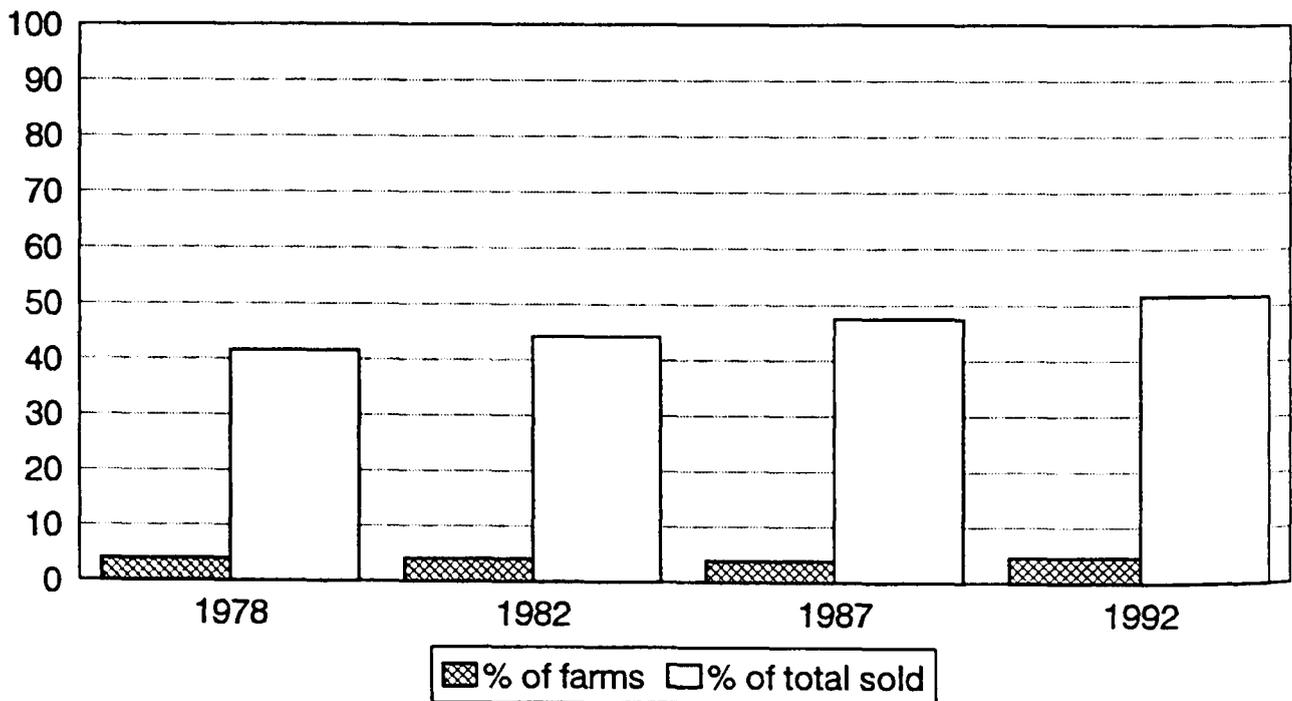


Figure 4. Percent of farms selling 500 or more cattle/calves and percent of total cattle/calves sold by these farms in Iowa, 1978-1992.



Corn and Soybeans Grown in Iowa's Counties: 1978-1992

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The Census of Agriculture, last conducted for calendar year 1992, asked farm operators for information about Iowa's two major field crops—corn and soybeans. In that year, sales of these crops accounted for \$4.5 billion (44.2%) of the \$10.1 billion in total agricultural sales. Corn and soybeans were 40.7 percent (\$4.0 billion) of the \$9.8 billion from 1982 sales of agricultural products.

In 1992, 75.4 percent (72,756) of Iowa's 96,543 farms raised corn for grain or seed (Table 1), and 62.1 percent (59,945) grew soybeans (Table 2). Nearly 21 million acres were planted in these two crops, 12.5 million in corn and 8.2 million in soybeans. They accounted for 90.9 percent of the total acres of harvested cropland in 1992.

Corn

At least 1,000 farms raised corn for grain or seed in 12 counties in 1992, led by the 1,473 farms in Sioux and the 1,435 in Kossuth. Fewer than 400 farms grew corn in Appanoose, Clarke, Decatur, Lucas, and Monroe counties. These counties tended to have fewer farms overall. The acres planted in corn varied from less than 50,000 in nine counties (Appanoose, Clarke, Davis, Decatur, Lucas, Monroe, Ringgold, Union, Van Buren) to more than 200,000 in four others (Kossuth, Plymouth, Pottawattamie, Sioux).

In 1992, more than 1.7 billion bushels of corn were harvested. Four counties (Kossuth, Plymouth, Pottawattamie, Sioux) reported at least 30 million bushels, with Kossuth the only one exceeding 40 million bushels. Fewer than 10 million bushels were noted in 15 counties. Monroe's total of just more than 3 million was lowest.

Sales receipts from corn sold for grain totaled \$2.7 billion in 1992. Sales varied from less than \$10 million in 11 counties to more than \$70 million in Kossuth, although Pottawattamie (\$58 million) was the only other county to have sales greater than \$50 million. Thirteen counties had sales ranging from \$40 million to \$49 million. Sales could be of corn raised in 1992 or earlier years, of course.

The figures on number of farms and acres related to corn were lower in 1992 than in 1982 for the state, although caution is suggested in examining figures for individual years as well as change from one census to the next. Weather, government programs, and other factors can influence planting decisions, yields, and the timing of sales of agricultural products, for example. The number of farms planting corn dropped by 21.3 percent, while the number of acres declined by 2.9 percent. In contrast, the number of bushels and sales related to corn were higher in 1992 than 10 years before. Bushels showed a 19.6 percent increase, and sales increased 9.3 percent from 1982. The total number of farms in Iowa decreased by 16.3 percent from 1982 to 1992.

Every county had fewer farms growing corn in 1992 than in 1982. In contrast, 40 counties had more acres planted in 1992 than 1982. Six counties (Fremont, Harrison, Kossuth, Pottawattamie, Shelby, Sioux) increased by at least 10,000 acres of corn planted. Sixteen counties harvested fewer bushels of corn in 1992 than in 1982; Clinton, Iowa, Jackson, Johnson, and Washington declined by at least 2 million bushels between the two censuses. Increases of at least 2 million bushels were far more common; this

Table 1. Corn Grown and Sold in Iowa Counties, 1978-1992.

County	1992				1987				1982				1978 ^a		
	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels
Adair	677	102811	13502866	19169	798	93246	11527532	16606	900	107781	10350588	15347	981	102997	9879411
Adams	451	60843	7769782	11419	516	51424	6143315	8538	580	62254	5496845	8038	645	66106	5833952
Allamakee	689	70111	8601752	8960	842	61451	7918552	8118	928	82443	8829375	10016	981	74780	8505502
Appanoose	396	30657	3441291	5070	480	26382	2836759	3975	499	31651	2645243	4108	553	32384	2721002
Audubon	575	110355	15543035	22373	674	89190	11444514	15560	744	112767	11646059	16595	842	121018	12368926
Benton	1036	178600	24399018	39538	1183	144170	19409044	30432	1328	188670	22099370	38804	1422	183782	20828614
Black Hawk	849	151856	22483724	36365	996	120536	16646615	28305	1074	146916	17815328	33971	1125	145380	16068206
Boone	724	144447	22148282	36002	825	112738	15534064	26352	931	141511	17333411	33111	1038	150041	17628373
Bremer	835	117562	17369527	27922	890	93017	12379993	19395	1057	116766	13654093	23973	1161	104195	12094673
Buchanan	975	176119	25272487	41436	1136	139845	19024742	30117	1193	176718	21468464	36817	1267	155281	17914769
Buena Vista	818	154306	22561472	34932	953	125356	15880096	24271	1056	163381	19128081	32456	1148	166053	19131263
Butler	889	150633	21966616	33131	1024	121799	15823601	24579	1195	154661	17987647	30752	1278	147042	16217970
Calhoun	767	153415	24359259	39511	872	111282	15303730	26402	1008	148119	17999607	33753	1081	149024	17319985
Carroll	986	160115	23451686	32258	1105	132252	17304749	24998	1159	152727	16712864	24525	1208	152674	16299850
Cass	721	132785	18520747	26835	783	106962	13504527	19472	870	129355	13117123	20197	973	132416	13544625
Cedar	849	169694	24009947	38100	953	138757	16395191	26102	1113	192257	25190085	43985	1224	180796	22048461
Cerro Gordo	681	161220	22088779	38220	757	123528	15908537	28317	847	158200	19103648	38757	920	150237	17397038
Cherokee	820	140647	20294392	30134	928	111626	13914353	19972	1016	137628	16198419	23286	1091	147446	16961656
Chickasaw	781	128632	17237293	25847	869	99779	12785975	19809	958	130415	13451087	21973	1023	113609	12750657
Clarke	382	35482	4017143	5570	459	37261	3462983	4689	525	47634	3487164	5227	583	43909	4120356
Clay	652	134837	18952200	28986	750	103766	13480814	21767	882	146191	16086229	28228	940	141178	15557272
Clayton	1211	162965	20954330	26632	1383	130350	17251649	19438	1428	158460	18436475	22608	1525	145962	16506417
Clinton	1073	182501	24468631	38158	1183	165946	17740345	27648	1329	225437	27944257	48420	1445	203274	22652366
Crawford	944	163348	22533198	32886	1050	132197	15865611	23453	1236	162571	16789928	23190	1357	165954	17748825
Dallas	661	133558	19348871	33347	776	108578	14777623	24952	886	145678	17589876	33867	999	140366	14473843
Davis	478	43091	5304929	7058	569	40121	3532975	4884	650	56371	5211412	8325	692	48198	4144063
Decatur	293	27998	3382919	4306	402	33659	3456175	5002	448	47354	3942426	6254	502	46204	4362335
Delaware	1134	176359	23820937	24212	1247	152360	20436465	21480	1303	184224	22956796	28663	1335	160714	18932207
Des Moines	491	72638	10239175	18918	596	70934	7752886	14297	634	95773	12103320	25171	682	91834	9634996
Dickinson	425	82755	10687952	17227	474	67152	8680549	14280	550	91610	10272578	18202	596	94323	10272304
Dubuque	1257	124324	15917137	12196	1367	103204	13034171	10073	1440	122836	14830558	13300	1468	113306	12582671
Emmet	467	99213	13959038	23823	523	76262	10513999	17840	617	107116	12916187	24513	687	103170	12287534
Fayette	1140	181493	24968718	36847	1271	152228	20745603	31745	1376	189247	20846810	32839	1528	172983	19979500

^aSales figures were not reported separately for corn in 1978.

Table 1. Corn Grown and Sold in Iowa Counties, 1978-1992 (continued).

County	1992				1987				1982				1978 ^a		
	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels
Floyd	697	134445	18442786	30812	811	108155	13898599	23833	894	132029	15091739	29105	978	123054	14197822
Franklin	785	172740	26089978	41775	870	130089	17768732	30932	1022	172074	20827413	38861	1128	166153	19048208
Fremont	474	116365	17164062	30035	567	87155	9823386	16643	605	97807	8725670	17953	691	111183	10498147
Greene	710	155469	25097189	41485	789	112576	16013687	28551	882	148325	17624475	35635	993	152148	17684535
Grundy	700	157377	24257243	41906	886	128793	18051570	31292	954	160873	19687197	36877	1076	159343	18304698
Guthrie	658	108494	15136795	23959	737	82343	10291912	16192	841	107907	11360563	17989	938	104143	10600034
Hamilton	729	157833	24820722	41249	883	126152	17603314	30098	990	165668	20614069	39394	1104	166521	18886372
Hancock	812	170059	24434863	38725	940	128403	17048320	29208	1050	166870	20170740	37328	1158	161787	19180875
Hardin	792	165980	26165456	42727	872	128885	17937064	29512	983	167179	21145166	35453	1078	166825	19425405
Harrison	714	160373	23697759	40670	835	124451	16261726	27284	956	148222	15315138	28721	1088	156464	17626814
Henry	556	88721	12409536	20664	670	76628	7780010	13495	765	104574	12564266	23566	804	97896	10004952
Howard	676	110243	12841876	19507	790	86835	10708944	15869	879	109104	10854823	18824	932	98412	10843599
Humboldt	588	132946	21056659	34033	679	96411	13484942	21366	749	124196	15813697	29028	811	117543	13978249
Ida	591	119617	17025671	25056	651	92054	11032148	16267	725	111238	12682001	17135	824	130484	14921914
Iowa	735	126689	15437381	27509	863	118279	14285398	23120	950	153884	17707102	27584	1045	137945	14184650
Jackson	902	98101	11095970	10757	1032	86001	9565228	11147	1130	116534	13723345	17041	1148	98635	10300733
Jasper	981	172180	24563637	35775	1104	140825	18812791	28199	1245	177296	21054371	32763	1401	171928	18761925
Jefferson	485	69702	9295383	14339	570	63756	6364526	10038	679	81451	9023779	15619	746	72771	7496729
Johnson	880	113861	14789964	20500	1020	108975	11784648	15907	1160	145747	17586784	27699	1216	131073	14047718
Jones	830	144168	18741223	24756	941	115264	13718597	18257	1082	152719	19351320	29087	1173	139090	15963072
Keokuk	695	114181	14649702	20164	828	109327	13610959	20212	955	138528	16229762	25762	1032	131465	14139357
Kossuth	1435	302923	45409171	72897	1556	212709	30307429	50674	1691	273362	34888272	63622	1830	264765	31200924
Lee	593	83928	11753910	16257	707	67487	6070069	8341	762	84397	9785050	14708	772	79412	7552406
Linn	1038	142449	19338493	29719	1260	124735	15227689	22783	1375	157295	19259510	35215	1426	144712	15953767
Louisa	434	80765	10802648	17997	537	72324	7168836	12847	586	94241	11895481	22833	640	97350	10192803
Lucas	298	27861	3335836	4506	400	28860	2908261	3850	458	38653	2941910	4579	526	41349	3643247
Lyon	923	144479	18493448	23884	1016	117416	13619698	17923	1185	149090	15102970	20130	1233	150803	15108640
Madison	660	74784	10045059	16180	698	58576	6955682	10304	761	71220	6706904	11171	891	73891	7159475
Mahaska	800	123143	17119766	21390	954	107872	14344045	18453	1030	127705	14086859	17944	1124	128579	13169003
Marion	667	79467	10441414	14788	801	70865	8764911	12596	868	81644	8138926	11565	1017	89024	8823633
Marshall	745	149890	22158940	37526	833	121035	16830774	28986	961	155054	18972614	34761	1029	148991	16072024
Mills	424	99293	14904460	25773	513	80324	9796784	16286	526	94974	9143749	16442	632	99118	10431764
Mitchell	667	126071	16498024	23991	763	96111	11770471	18309	842	117903	13667001	20860	911	116628	13728425
Monona	647	161113	22148419	35723	738	127574	15077846	24374	778	155575	16765786	31796	941	170957	18424818

Table 1. Corn Grown and Sold in Iowa Counties, 1978-1992 (continued).

County	1992				1987				1982				1978 ^a		
	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels
Monroe	335	27399	3039084	4058	447	26349	2665907	3081	481	32211	2527481	3652	520	32841	2690690
Montgomery	494	84282	12176184	18626	575	73645	8730435	13420	592	84492	7856659	12999	681	93718	9448583
Muscatine	589	92569	12401552	19651	684	81722	7955200	12600	796	104558	12902533	21782	846	99750	10869649
O'Brien	948	156380	21602540	32470	1056	124897	16222003	25524	1138	155057	17144500	27332	1219	161825	18668912
Osceola	619	110386	14268380	23367	616	77922	10347932	16171	720	102719	11764594	19884	783	104041	11736741
Page	699	100327	14180949	21087	812	84480	9291092	13097	818	94960	8257952	13063	958	103380	9441263
Palo Alto	725	154748	22770028	36209	838	118241	15586249	25750	918	154733	18779488	34105	986	152903	17254247
Plymouth	1232	223661	30908110	40094	1452	188164	20983864	26269	1575	226503	23682167	29055	1685	230678	25013221
Pocahontas	829	165258	25063386	39735	910	118510	15779661	26384	1002	157764	19706823	37205	1085	157849	19071419
Polk	534	97081	14878392	25345	653	80518	11274889	19598	724	100893	11940107	24267	822	102727	10904236
Pottawattamie	1128	242311	36053220	58150	1287	190703	25187379	38743	1401	231146	25299252	42992	1536	237932	27779905
Poweshiek	712	122666	15842341	24255	818	100151	12586370	19414	917	129984	15053738	25117	1042	129370	13344763
Ringgold	419	47187	5502285	7577	482	40969	4248023	5691	524	51306	3927821	5745	610	57792	5302706
Sac	800	154463	22931866	33431	897	119558	15021139	21321	964	149270	16488523	26594	1057	149682	15876863
Scott	695	128200	18175509	31037	763	111372	13407266	21073	878	148128	19310273	34380	982	134280	15718813
Shelby	897	175692	24218298	36161	984	132411	16173496	25558	1130	163575	18089977	27329	1203	166856	18606914
Sioux	1473	237825	32900770	41566	1561	194424	22031184	27713	1689	226736	23940261	27891	1843	233429	24204342
Story	784	151920	23212655	40499	885	116748	16455650	27893	986	152049	19136567	37812	1097	156648	17658844
Tama	971	174699	24071148	40659	1137	146615	19327395	31675	1228	173412	20382661	36039	1395	179393	20296562
Taylor	528	66630	8014094	11882	581	55044	5868957	8598	653	64316	4986346	7943	755	68152	5579439
Union	437	49369	6143927	9268	473	40799	4545259	6556	521	49811	4211312	7040	598	51408	4379069
Van Buren	463	44565	5768183	8789	553	41462	4100414	6283	652	58885	5885896	9328	718	55162	5036870
Wapello	406	51736	6815170	10494	511	49900	5287674	8117	628	60987	6668944	11866	639	55488	5512569
Warren	694	79661	10284074	15943	793	69880	8380487	12025	847	84363	8010793	12767	959	85333	8489929
Washington	812	127681	16655738	22166	932	116371	13290292	18194	1018	153099	19016996	27720	1084	148483	16153251
Wayne	435	52001	6003312	8654	505	43055	4557377	7092	557	60140	4554293	7748	636	57227	5081564
Webster	883	181453	28419824	49701	1048	138143	19331951	35125	1140	182890	23057388	46291	1206	176140	21685767
Winnebago	530	121575	17000885	28847	640	87427	11820656	20818	711	112432	13198676	27735	798	102864	11763578
Winneshiek	1158	121761	14463240	15820	1290	103614	13335146	14623	1425	132345	13478416	15573	1547	126590	13814866
Woodbury	859	192504	26663576	38502	1020	162688	18991273	29202	1178	214962	22589745	35961	1342	240314	26320556
Worth	504	108012	14258316	25029	552	77320	10020057	17554	669	104574	12557015	23954	724	103216	12035942
Wright	716	167733	26222277	43984	798	119346	16476936	30351	903	163690	20396041	41578	992	162247	19843822
State of Iowa	72756	12512815	1754149889	2687476	83301	10147051	1274388346	1961527	92462	12880050	1466953043	2459061	102828	12751062	1399073749

Table 2. Soybeans Grown and Sold in Iowa Counties, 1978-1992.

County	1992				1987				1982				1978 ^a		
	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels
Adair	580	65152	2643985	13359	667	66704	2824823	13551	724	60861	1963818	10479	783	52144	1677077
Adams	388	42275	1662940	8148	451	42173	1603229	7429	513	46894	1359648	7312	504	36194	1057115
Allamakee	115	4327	162674	878	120	3726	156073	728	93	3881	127430	646	92	3155	108418
Appanoose	337	24881	910574	4394	401	25860	914278	4242	462	27523	678723	3711	566	35877	946594
Audubon	521	73681	3238961	16252	607	65109	2752156	13093	589	60722	2213337	11820	647	50340	1870114
Benton	941	135331	5835440	30452	1062	126534	5712984	28043	1159	125859	4949326	26928	1208	114771	4524313
Black Hawk	733	94301	4231089	21522	867	88213	4010768	18850	903	89027	3342554	18656	965	84593	3103224
Boone	667	126604	5622987	27857	795	122615	5406176	25716	869	117640	4613391	24033	956	107431	4341460
Bremer	688	59245	2694201	13396	692	52660	2283773	10848	801	54571	1903151	10032	929	61534	2161704
Buchanan	776	79520	3486801	18647	870	71922	3242621	15296	831	70965	2536562	13742	967	77181	2797607
Buena Vista	789	133787	6060492	29966	924	130258	5335671	25720	975	128265	4754154	25347	1062	121545	4793825
Butler	773	88938	3984848	20118	926	86141	3689973	17468	1008	87484	3074173	16933	1124	86659	2933860
Calhoun	743	145174	6444799	31726	853	144293	6418023	30865	982	142903	5444739	28253	1030	136637	5147692
Carroll	932	122952	5511668	26458	1037	115659	4939438	23206	1058	105362	3917008	20519	1046	88333	3503774
Cass	652	89909	3706504	17953	724	84078	3381709	15976	768	79903	2675778	14185	756	60552	2064412
Cedar	746	83827	3682418	19812	772	71248	3170044	15248	727	65194	2766003	15166	854	68128	2696835
Cerro Gordo	609	97497	4003973	21381	683	98942	4077185	19852	762	108511	3849075	20372	857	115354	3896087
Cherokee	784	108195	4915902	25131	860	100873	4296210	20420	931	94917	3665347	19589	947	86202	3406685
Chickasaw	628	66195	2702009	14157	691	59084	2461583	11845	751	68068	2089898	10990	831	65067	2139515
Clarke	301	22815	796250	4020	347	24717	810789	3824	413	31031	855044	4279	477	31406	949057
Clay	623	121194	5232764	25804	725	114582	4687610	22640	841	122931	4282755	22747	899	114820	4018745
Clayton	211	17427	758889	3852	170	10851	470117	2215	103	4774	159641	837	148	6633	215773
Clinton	796	76478	3463361	18424	790	63428	2843390	13954	735	61018	2544219	14246	873	63878	2316476
Crawford	836	101847	4346150	21981	946	98070	3728789	18274	1085	95097	3581513	18422	1059	67244	2633691
Dallas	608	106710	4564019	22953	713	103628	4548961	22277	821	110491	4360271	23433	870	94779	3211945
Davis	332	27567	1112304	5630	424	31948	1021541	4897	481	39280	1069729	5566	559	41083	1206772
Decatur	235	21608	729106	3667	349	31224	1110698	5604	409	38795	1110730	5741	446	37541	1122156
Delaware	469	28857	1266958	6783	473	26262	1209472	5723	342	23128	859791	4648	405	26286	942847
Des Moines	455	58167	2572017	13577	521	50976	1927508	9901	524	50035	1979636	10932	585	49847	1779558
Dickinson	409	73268	2919157	14954	463	74062	2903116	13789	511	79497	2722856	14090	560	74558	2617393
Dubuque	130	5817	228774	1264	101	4133	190367	974	49	2576	95904	473	48	1831	65458
Emmet	435	85631	3590459	17704	502	84899	3648321	17858	593	93139	3402627	17682	659	93484	3441185
Fayette	713	71972	3009908	15873	772	67824	3026716	14365	774	69751	2378462	12835	926	75554	2680252

^aSales figures were not reported separately for soybeans in 1978.

Table 2. Soybeans Grown and Sold in Iowa Counties, 1978-1992 (continued).

County	1992				1987				1982				1978 ^a		
	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels
Floyd	638	92524	3841602	19632	739	93208	3800357	18490	829	100532	3333829	17274	915	95764	3285103
Franklin	730	115613	4990597	25537	799	111856	4815151	23650	917	117185	4365184	23481	1003	115201	4008579
Fremont	466	107307	4517695	22775	577	107022	3991260	19588	627	109574	3536275	18812	674	96784	3049181
Greene	697	145964	6742552	33349	781	139225	6162505	29670	862	135875	5325461	28820	943	124482	5049739
Grundy	678	116583	5501079	28381	828	103749	5036510	24373	858	102338	4198442	22679	977	100155	4008467
Guthrie	587	77719	3201502	16170	643	72201	2943678	13756	713	68067	2484422	12707	771	63989	2265063
Hamilton	695	131490	6051647	30291	841	133655	5584073	27110	942	140524	5166533	27705	1045	131341	4892771
Hancock	742	113878	4586171	23090	872	120801	4940656	23290	969	125373	4600447	24052	1061	123166	4290147
Hardin	712	108001	4924807	24828	819	105352	4775850	23494	874	111782	4235612	22706	939	98216	3857861
Harrison	673	121278	5291972	26007	783	113656	4448314	21282	902	119347	4282323	22178	917	92089	3415194
Henry	481	58009	2587985	13105	571	49029	1825532	9231	584	50970	1978114	10717	661	53704	1909545
Howard	544	66955	2223899	12100	618	63110	2485619	11675	676	68818	2012431	10265	731	63053	2024744
Humboldt	573	112373	5104867	26177	651	111004	4940795	23337	737	110578	4294879	22293	787	104645	3748959
Ida	561	80300	3480110	17437	605	69740	2642609	12911	668	63284	2433934	12641	652	53021	2110777
Iowa	575	50270	1974300	10210	670	48725	2119747	10002	620	42773	1535573	8378	644	39013	1234099
Jackson	193	8890	361996	1982	250	9467	384426	1942	165	8978	332713	1727	180	8678	275212
Jasper	845	104081	4646848	23532	965	102143	4539434	21259	1078	100764	3854115	20756	1089	79324	2890243
Jefferson	438	52899	2231406	10827	492	54787	2011235	9889	576	55406	1844494	9995	655	52879	1716055
Johnson	634	57227	2318277	12127	705	54296	2117402	10355	696	52853	1990388	10758	787	51808	1755491
Jones	514	45045	1902785	10204	527	40219	1763211	8560	508	37353	1519228	8625	568	36835	1392883
Keokuk	592	61882	2508961	13044	709	64470	2684142	12953	718	62613	2367841	12531	751	56247	1921833
Kossuth	1329	226397	9445398	47375	1489	233034	10015719	48449	1605	242744	9106277	47036	1781	243082	8131561
Lee	537	60541	2644265	12834	648	60580	1831319	9274	706	60020	2247209	11716	763	57159	1797370
Linn	817	89318	3755015	19192	946	81631	3458797	16839	1030	93015	3545750	18982	1072	80915	2954262
Louisa	396	55621	2358933	11919	451	50482	1772175	9100	462	51568	1986002	10815	536	50503	1730662
Lucas	233	18711	702313	3401	298	19978	715510	3299	364	23885	651139	3411	416	23764	647596
Lyon	882	112706	4481809	22908	939	105550	4264389	19741	1038	100781	3672931	18762	1027	80216	3097785
Madison	556	54995	2329063	11824	583	51363	2104554	10190	678	55647	1772094	9323	727	49281	1647664
Mahaska	700	78645	3312531	16843	858	79429	3294041	16052	897	77354	2945590	15810	935	68914	2365865
Marion	582	58986	2470255	12010	688	58702	2435855	11330	749	55091	1878454	9881	800	49685	1704562
Marshall	624	83474	3862406	20306	744	81281	3909328	18889	809	88522	3434854	18618	828	74784	2924916
Mills	410	84285	3590627	18102	487	80845	2992822	14872	505	85552	2894094	15008	577	72403	2567274
Mitchell	563	75467	2986614	15818	664	72951	3024302	14535	724	78877	2656646	14330	812	79428	2850793
Monona	563	110765	4751636	22943	630	97936	3594035	17550	649	99942	3612148	18189	686	90573	3051667

Table 2. Soybeans Grown and Sold in Iowa Counties, 1978-1992 (continued).

County	1992				1987				1982				1978 ^a		
	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels	Sales (in \$1,000s)	Farms	Acres	Bushels
Monroe	255	15675	547125	2759	333	19212	705634	3363	381	22490	555787	2847	421	22062	593888
Montgomery	456	71154	2991085	14825	532	72597	2646499	12744	564	74660	2353467	12906	587	61827	2114147
Muscatine	487	56839	2305151	12254	556	54102	1986587	10020	582	52162	1975763	10886	625	47786	1643859
O'Brien	935	145046	6237170	32135	999	132665	5610722	26852	1092	133676	4586410	24121	1127	123644	4596275
Osceola	621	107196	4210212	21162	624	91774	3803501	18184	708	93454	3395507	17484	744	85774	3262197
Page	672	89871	3778184	18157	785	94261	3335358	16006	823	92283	2774462	14289	878	79156	2458332
Palo Alto	694	129639	5611434	28192	802	126240	5266410	26386	874	132729	4951144	25385	955	131011	4841464
Plymouth	1123	151940	6697405	32872	1287	137600	5594158	26213	1300	122453	4685018	24245	1277	95141	3750831
Pocahontas	818	152808	6644547	31932	878	142055	5258627	25497	984	149489	5684972	29626	1070	144508	5800733
Polk	487	81765	3571654	17612	608	79880	3515595	16886	694	82108	3123411	16011	761	81855	2926840
Pottawattamie	1016	168779	7317541	36568	1126	159046	6246430	30746	1215	157244	5813859	30595	1271	130257	4950392
Poweshiek	622	78149	3270771	16885	731	76368	3315883	15671	811	77013	2888838	15593	852	63371	2204791
Ringgold	356	33620	1201579	5933	439	42819	1460253	6915	531	54693	1415334	7325	549	49423	1409910
Sac	762	126791	5586906	27083	867	117882	4875822	23367	905	117232	4354795	22546	939	99100	3543183
Scott	562	50011	2304683	12631	603	38786	1761863	8858	534	35178	1509739	8509	657	39131	1516789
Shelby	806	95989	4131874	20405	881	90028	3630359	17613	944	82038	3130415	16639	915	64407	2540159
Sioux	1287	148868	6583633	32787	1339	118683	5156590	24541	1295	109644	4191548	21564	1223	83523	3321282
Story	737	125600	5723470	28471	848	117965	5334137	25619	926	125147	4800904	26245	963	113739	4505315
Tama	840	100454	4257560	21956	989	100936	4631128	22167	1072	100989	3752509	19898	1152	93853	3643245
Taylor	464	51422	1917682	9425	560	59816	1976558	9243	661	63893	1696764	8825	672	57625	1513799
Union	363	33191	1270116	6221	425	32681	1230031	6013	472	33724	940801	5109	497	27980	808267
Van Buren	381	36824	1511190	7527	505	40843	1388369	6713	540	44727	1410581	7453	628	44689	1291713
Wapello	339	42352	1721757	8802	470	46721	1800536	8221	533	47582	1571269	8156	568	42553	1350546
Warren	593	56485	2275847	10938	640	53371	2100582	10036	733	57448	1762082	9491	799	52914	1718268
Washington	705	77777	3390420	17654	769	66723	2818021	13558	756	68946	2799350	15679	816	63665	2265144
Wayne	355	37444	1294169	6062	426	38334	1378703	6747	502	47368	1194036	6439	570	48797	1385778
Webster	863	173398	7663843	38394	1039	170666	7272652	36091	1111	172392	6747605	35656	1175	166113	6740053
Winnebago	449	71897	2794128	15267	581	82268	3070284	15206	656	88800	3036708	15703	768	95807	2827790
Winneshiek	348	17569	609512	3162	411	18580	773018	3590	378	16997	531735	2719	385	15436	492597
Woodbury	690	97748	4243826	20837	763	86671	3358177	16385	811	98143	3601675	18240	755	75226	2606059
Worth	464	73918	2875019	14996	517	72543	2918118	13955	592	82707	2849302	14559	676	82233	2929413
Wright	680	143500	6277200	32398	777	137106	5631282	28136	873	148818	5681381	31237	956	146514	5372086
State of Iowa	59945	8243067	352590997	1780675	68278	7903395	326081351	1573168	73175	8044305	291189890	1541608	79967	7475989	267882402

occurred in 62 counties. Increases greater than 8 million bushels were reported in five counties (Fremont, Harrison, Kossuth, Pottawattamie, Sioux).

Soybeans

The number of farms planting soybeans in 1992 varied from more than 1,000 in four counties (Kossuth, Plymouth, Pottawattamie, Sioux) to less than 300 in seven (Allamakee, Clayton, Decatur, Dubuque, Jackson, Lucas, Monroe) (Table 2). As in corn, Kossuth led in the number of acres planted in soybeans with 226,000; indeed, Kossuth had 53,000 more acres in soybeans than did Webster, which was in second place with over 173,000 acres. Another 32 counties had at least 100,000 acres of soybeans in 1992.

Kossuth was the only county harvesting more than 9 million bushels of soybeans in 1992. Twenty-one others raised from 5.0 to 7.7 million bushels that year. Ten reported less than 1 million bushels. Sales from soybeans exceeded \$47 million in Kossuth but less than \$1 million in Allamakee in 1992. Another 18 counties reported sales ranging from \$1.0-\$9.9 million. Twenty-eight had sales from \$20 million through \$29 million, and eleven others were in the \$30-\$39 million range.

As with corn, the figures on the number of farms related to soybeans dropped in Iowa from 1982 to 1992. Farms growing soybeans declined by 18.1 percent. In contrast, acres related to soybeans increased by 2.5 percent between the two years. Nine counties had more farms planting soybeans in 1992 than in 1982; but declines of more than 200 farms growing soybeans occurred in 17 counties. Increases in the number of acres took place in 54 counties, led by a jump of more than 39,000 acres in Sioux; 18 other counties added at least 10,000 acres of soybeans between 1982 and 1992. Declines in acres surpassed 10,000 in eight counties.

The number of bushels and sales also increased between the two censuses. Bushels were up 21.1 percent and sales grew by 15.5 percent from 1982 to 1992. Bushels harvested increased in all but six counties (Clarke, Decatur, Hancock, Monroe, Ringgold, Winnebago); sales figures were down in nine, although they increased in the remaining 90 counties. The caution on interpreting data from a single year and change from one census to another must be reiterated, of course.

Note: These data are from the CENSUS OF AGRICULTURE (Volume 1: Geographic Area Series, Part 15: Iowa: State and County Data) published by the U.S. Bureau of the Census; the 1992 data became available in 1994. The data in this section vary from those reported in Corn and Soybean Production in Iowa's Counties: 1975-1993 on pages 183-204. The numbers from the Census of Agriculture are based on forms completed by farm operators shortly after the year designated for the census was completed. The numbers on pages 183-204 are estimated by the Iowa Department of Agriculture and Land Stewardship based on sample surveys and other information available to that unit.

Market Value of Agricultural Products Sold in Iowa's Counties: 1978-1992

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The Census of Agriculture includes questions on the value of agricultural products sold by farm operators. In Iowa, the primary contributors to the total value of sales are corn (for grain), hogs and pigs (including feeder pigs), cattle and calves (including calves, fattened cattle, and other cattle), and soybeans. The category including dairy products contributes to the total only slightly less than a composite "other" category.

Sales of Selected Agricultural Products

In 1992, sales of agricultural products totaled more than \$10 billion in Iowa (Table 1). Three product areas had sales of at least \$2.2 billion. Corn sold for grain accounted for nearly \$2.7 billion of the total (Figure 1). Hogs and pigs (\$2.5 billion) and cattle and calves (\$2.2 billion) followed. Soybeans accounted for \$1.8 billion in sales, dairy products totaled about \$422 million, and sales of other agricultural commodities were reported to be nearly \$473 million.

Iowa's counties varied substantially on agricultural sales (Table 1). Forty-eight counties topped \$100 million in sales of agricultural products. Sioux (\$422 million) was the only one above \$300 million; Carroll, Delaware, Dubuque, Kossuth, Plymouth, and Pottawattamie had sales ranging between \$175 and \$225 million. Sales in 14 counties were less than \$50 million; Appanoose, Clarke, Lucas, and Monroe, located in south-central Iowa, were the only counties with sales of less than \$30 million in 1992.

Sioux had the highest market value on sales of hogs and pigs (\$111 million) and cattle and calves (\$200 million). For hogs and pigs, the figure in Sioux was \$32 million higher than the next county (Delaware, \$79 million). Four others (Carroll, Dubuque, Plymouth, Washington) had sales of hogs and pigs of at least \$50 million in 1992. Seventeen counties had receipts from hogs and pigs of less than \$10 million; only Appanoose (\$2 million) had sales of less than \$5 million, however. On cattle and calves, Sioux's total sales exceeded the second-ranking county (Carroll, \$78 million) by \$122 million; Lyon, Plymouth, Pottawattamie, and Woodbury also had cattle and calf sales in excess of \$50 million. Farm operators received less than \$10 million in sales of cattle and calves in 15 counties, with four (Cerro Gordo, Louisa, Webster, Winnebago) under \$5 million.

A total of \$188 million was received from the sale of feeder pigs in 1992 (Table 2), while \$2.3 billion came from the sale of other hogs and pigs. Cattle fattened on grain or concentrates and sold for slaughter accounted for nearly \$1.6 billion of the \$2.2 billion received for the sale of cattle and calves (Table 3). Another \$127 million came from the sale of calves, while the remaining \$520 million was obtained from the sale of other cattle. In 15 counties, sales from the other cattle category were greater than the sales from fattened cattle sold for slaughter. All but one of these counties are in south-central Iowa. Many cattle in these counties are pastured and then sold to other farm operators elsewhere in Iowa or in other states for final finishing. Cattle fattened on pastureland or sold to other operators before final finishing are included in the "other cattle" category.

Table 1. Market Value (in \$1,000s) of Agricultural Products Sold in Iowa Counties, 1978-1992.

County	1992							1987						
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other
Adair	75248	14808	24859	19169	13359	1231	1822	71079	16454	22192	16606	13551	1051	1225
Adams	46160	9153	14129	11419	8148	251	3060	39893	9332	13645	8538	7429	230	719
Allamakee	89509	22951	22714	8960	878	29412	4594	77437	17951	19271	8118	728	29620	1749
Appanoose	27455	2122	13310	5070	4394	475	2084	25508	3207	12051	3975	4242	680	1353
Audubon	93751	25231	27864	22373	16252	230	1801	80178	23803	25608	15560	13093	492	1622
Benton	151713	30956	41002	39538	30452	3771	5994	140932	33721	40876	30432	28043	3210	4650
Black Hawk	112562	30481	11022	36365	21522	3433	9739	99933	30363	9813	28305	18850	4284	8318
Boone	102944	17529	15634	36002	27857	432	5490	91247	18559	14859	26352	25716	517	5244
Bremer	89215	18104	11251	27922	13396	14692	3850	75029	18688	10664	19395	10848	12875	2559
Buchanan	116558	33617	12901	41436	18647	6848	3109	109025	37214	16911	30117	15296	7327	2160
Buena Vista	157282	42868	24913	34932	29966	656	23947	132273	42058	23787	24271	25720	573	15864
Butler	114274	36902	14645	33131	20118	5110	4368	105209	38444	16683	24579	17468	4529	3506
Calhoun	112277	22566	15148	39511	31726	99	3227	98179	21710	16338	26402	30865	137	2727
Carroll	196002	55999	77586	32258	26458	563	3138	170623	52683	67065	24998	23206	646	2025
Cass	96388	16943	31239	26835	17953	485	2933	83023	17465	28169	19472	15976	896	1045
Cedar	117793	38922	17361	38100	19812	1519	2079	104711	39699	20473	26102	15248	1663	1526
Cerro Gordo	91286	21761	4286	38220	21381	657	4981	83002	24288	5684	28317	19852	934	3927
Cherokee	127906	33923	32610	30134	25131	2124	3984	119253	34361	39977	19972	20420	1724	2799
Chickasaw	100101	25706	24358	25847	14157	8149	1884	85162	23635	19660	19809	11845	7775	2438
Clarke	27874	5480	11244	5570	4020	455	1105	27280	8132	9629	4689	3824	268	738
Clay	105076	20673	17139	28986	25804	132	12342	93702	22439	20793	21767	22640	210	5853
Clayton	155641	49148	25933	26632	3852	44069	6007	144817	52187	24903	19438	2215	41947	4127
Clinton	135458	30280	41243	38158	18424	4720	2633	115717	29631	38945	27648	13954	3511	2028
Crawford	124295	32975	32650	32886	21981	1440	2363	111095	29247	35785	23453	18274	1369	2967
Dallas	87356	8921	10410	33347	22953	301	11424	78495	12417	11787	24952	22277	343	6719
Davis	40022	9789	12591	7058	5630	2482	2472	33396	9235	9673	4884	4897	2032	2675
Decatur	41090	6640	24669	4306	3667	515	1293	35571	8403	14994	5002	5604	776	792
Delaware	178922	79012	30970	24212	6783	35771	2174	167550	82525	22261	21480	5723	32549	3012
Des Moines	51482	10085	6186	18918	13577	1383	1333	43779	9172	7553	14297	9901	1137	1719
Dickinson	71649	9791	24764	17227	14954	775	4138	64239	11822	20381	14280	13789	1146	2821
Dubuque	184886	59625	49129	12196	1264	57572	5100	153085	54171	37927	10073	974	46212	3728
Emmet	64882	10718	11965	23823	17704	. ^a	.	56925	10940	9587	17840	17858	.	.
Fayette	151654	42940	25114	36847	15873	26729	4151	135367	39880	20348	31745	14365	25100	3929

^aData suppressed by the census bureau to protect confidentiality.

Table 1. Market Value (in \$1,000s) of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1992							1987						
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other
Floyd	92274	22570	12878	30812	19632	718	5664	78949	20139	10582	23833	18490	1613	4292
Franklin	118120	33134	11202	41775	25537	1237	5235	110938	36557	11741	30932	23650	927	7131
Fremont	82603	7665	20222	30035	22775	282	1624	67911	9875	20154	16643	19588	408	1243
Greene	104736	16035	12631	41485	33349	.	.	89981	17974	12391	28551	29670	0	1395
Grundy	128227	25712	27999	41906	28381	1276	2953	120898	29918	29779	31292	24373	1997	3539
Guthrie	84268	17189	17097	23959	16170	607	9246	64788	17018	16397	16192	13756	325	1100
Hamilton	142414	37443	8131	41249	30291	658	24642	133865	32318	10534	30098	27110	402	33403
Hancock	108638	30186	11567	38725	23090	805	4265	97752	28671	12386	29208	23290	1740	2457
Hardin	143724	40265	16492	42727	24828	252	19160	115469	42300	16562	29512	23494	443	3158
Harrison	100625	11716	20207	40670	26007	124	1901	81515	12240	18857	27284	21282	358	1494
Henry	65017	17102	5973	20664	13105	642	7531	55693	18878	7656	13495	9231	395	6038
Howard	73822	18206	12956	19507	12100	8071	2982	66773	17427	11296	15869	11675	7883	2623
Humboldt	91258	18515	10501	34033	26177	611	1421	77786	18662	12859	21366	23337	456	1106
Ida	88403	20819	22772	25056	17437	707	1612	80294	19425	29593	16267	12911	500	1598
Iowa	95539	26253	27826	27509	10210	1673	2068	91299	29627	24533	23120	10002	1750	2267
Jackson	103597	26771	49760	10757	1982	11637	2690	93723	24761	41701	11147	1942	11395	2777
Jasper	135428	40102	30449	35775	23532	2713	2857	119686	38270	27746	28199	21259	1909	2303
Jefferson	52919	15601	9333	14339	10827	856	1963	44126	14121	7925	10038	9889	973	1180
Johnson	99531	35435	16313	20500	12127	4921	10235	94864	37802	16738	15907	10355	4761	9301
Jones	128284	41643	43107	24756	10204	6708	1866	109533	37865	36401	18257	8560	7119	1331
Keokuk	83181	35438	11530	20164	13044	339	2666	85338	37209	11886	20212	12953	424	2654
Kossuth	190116	40200	21848	72897	47375	2857	4939	173436	43210	22384	50674	48449	3324	5395
Lee	73550	24558	13433	16257	12834	3380	3088	56758	20227	14784	8341	9274	2449	1683
Linn	102380	22180	22466	29719	19192	3886	4937	92818	23876	20228	22783	16839	4976	4116
Louisa	46151	9870	4948	17997	11919	.	.	42271	12750	5113	12847	9100	278	2183
Lucas	25372	5359	10300	4506	3401	627	1179	23117	4796	9272	3850	3299	757	1143
Lyon	173419	42516	73784	23884	22908	6188	4139	135613	39883	50398	17923	19741	5763	1905
Madison	69453	11702	13918	16180	11824	.	.	57338	12792	12392	10304	10190	.	.
Mahaska	115975	41945	29433	21390	16843	2766	3598	111789	44745	27465	18453	16052	1836	3238
Marion	65241	20212	11691	14788	12010	2159	4381	63716	23307	11080	12596	11330	1853	3550
Marshall	101491	22207	15664	37526	20306	1429	4359	90288	21256	17309	28986	18889	929	2919
Mills	64817	7558	12671	25773	18102	142	571	55111	8627	14611	16286	14872	117	598
Mitchell	106680	30130	26558	23991	15818	5299	4884	96194	29681	21730	18309	14535	5291	6648
Monona	99592	13115	25678	35723	22943	200	1933	75040	11173	20299	24374	17550	167	1477

Table 1. Market Value (in \$1,000s) of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1992							1987						
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other
Monroe	29670	6627	13643	4058	2759	1306	1277	27469	6561	12621	3081	3363	963	880
Montgomery	63351	10484	12783	18626	14825	419	6214	54168	11511	13426	13420	12744	397	2670
Muscatine	65427	17219	7696	19651	12254	2567	6040	54308	16996	9958	12600	10020	2182	2552
O'Brien	146180	48154	28025	32470	32135	1347	4049	156715	44297	56229	25524	26852	1969	1844
Osceola	94627	24878	20326	23367	21162	3084	1810	74371	18340	17821	16171	18184	2055	1800
Page	81768	14836	17449	21087	18157	449	9790	72822	15553	19578	13097	16006	451	8137
Palo Alto	107772	24794	16326	36209	28192	504	1747	91667	23642	13181	25750	26386	870	1838
Plymouth	221185	69032	72771	40094	32872	3224	3192	183614	63878	60132	26269	26213	2209	4913
Pocahontas	110051	23212	11641	39735	31932	425	3106	94124	24436	14502	26384	25497	329	2976
Polk	61720	6731	6240	25345	17612	580	5212	55492	7991	5902	19598	16886	440	4675
Pottawattamie	180073	25238	54493	58150	36568	675	4949	148757	24946	49870	38743	30746	424	4028
Poweshiek	86384	21612	19209	24255	16885	1253	3170	81132	23108	19454	19414	15671	1467	2018
Ringgold	38279	8065	14185	7577	5933	.	.	38620	9831	14909	5691	6915	638	636
Sac	146389	42905	37279	33431	27083	1125	4566	129941	40883	38285	21321	23367	1543	4542
Scott	91084	24806	12976	31037	12631	4357	5277	81530	25721	18414	21073	8858	3911	3553
Shelby	124076	37099	27533	36161	20405	584	2294	108594	30518	32001	25558	17613	742	2162
Sioux	422040	110971	200399	41566	32787	17515	18802	348597	90993	173008	27713	24541	14176	18166
Story	106178	20012	9761	40499	28471	2020	5415	101788	24026	17669	27893	25619	1242	5339
Tama	109630	23278	18800	40659	21956	1920	3017	105643	27920	18728	31675	22167	2398	2755
Taylor	46692	11002	12600	11882	9425	668	1115	40437	10543	10769	8598	9243	201	1083
Union	48481	8532	13895	9268	6221	255	10310	39630	7430	11903	6556	6013	205	7523
Van Buren	36654	10247	7679	8789	7527	921	1491	32952	11075	7133	6283	6713	519	1229
Wapello	38168	8717	7363	10494	8802	675	2117	35435	8934	8400	8117	8221	729	1034
Warren	56996	11890	13991	15943	10938	2243	1991	54969	16511	12591	12025	10036	1553	2253
Washington	128948	62134	12483	22166	17654	1987	12524	113286	56567	12043	18194	13558	1419	11505
Wayne	33912	6715	10706	8654	6062	428	1347	34630	7080	12099	7092	6747	784	828
Webster	126924	22794	4627	49701	38394	590	10818	112144	19605	5171	35125	36091	296	15856
Winnebago	60515	11921	2288	28847	15267	1180	1012	57541	15178	3721	20818	15206	1742	876
Winneshiek	125003	32797	29136	15820	3162	37432	6656	120561	34265	26527	14623	3590	35091	6465
Woodbury	150949	23297	63531	38502	20837	314	4468	127445	25691	49702	29202	16385	285	6180
Worth	65724	12759	6682	25029	14996	552	5706	56004	13754	6903	17554	13955	1314	2524
Wright	99379	13321	6728	43984	32398	229	2719	85033	15234	8919	30351	28136	334	2059
State of Iowa	10099786	2502048	2235422	2687476	1780675	421556	472609	8926799	2494231	2124641	1961527	1573168	392284	380948

Table 1. Market Value (in \$1,000s) of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1982							1978					
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Grains ^a	Dairy Products	Other
Adair	71042	18558	23897	15347	10479	1377	1384	58760	17351	21097	17810	1381	1121
Adams	47363	12676	17915	8038	7312	491	931	37464	12454	13110	10859	521	520
Allamakee	78152	19144	17904	10016	646	28957	1485	62637	16211	17251	6800	19465	2910
Appanoose	23296	3614	9742	4108	3711	923	1198	25521	4554	9423	8542	541	2461
Audubon	92606	26109	34965	16595	11820	946	2171	77322	21602	32265	20396	1022	2037
Benton	138182	34351	31399	38804	26928	3651	3049	116668	28764	34765	48421	3131	1587
Black Hawk	103234	25585	12837	33971	18656	5474	6711	86145	19148	14999	40867	4188	6943
Boone	102853	20459	18409	33111	24033	773	6068	83894	17178	19022	42291	444	4959
Bremer	80646	18698	10464	23973	10032	14420	3059	65531	13859	10107	27756	10554	3255
Buchanan	112935	35592	16930	36817	13742	7497	2357	89326	26599	17824	37984	5141	1778
Buena Vista	138266	41111	27429	32456	25347	865	11058	113606	30139	23139	49755	586	9987
Butler	110495	35972	16587	30752	16933	6298	3953	88046	27099	17347	35825	4725	3050
Calhoun	115921	22318	28124	33753	28253	359	3114	93571	16359	26473	48472	257	2010
Carroll	186526	45250	91858	24525	20519	.	.	151986	36804	80626	31100	1031	2425
Cass	88165	19769	30968	20197	14185	1379	1667	75244	17872	30932	24439	1069	932
Cedar	125868	40855	21454	43985	15166	2846	1562	112232	40044	26582	41908	2271	1427
Cerro Gordo	100262	28266	8285	38757	20372	792	3790	85197	23929	9899	46807	994	3568
Cherokee	139215	35501	56014	23286	19589	1840	2985	116196	23702	55597	33331	1598	1968
Chickasaw	84906	24042	17822	21973	10990	7454	2625	70427	20259	15042	26853	5790	2483
Clarke	28742	7688	10379	5227	4279	409	760	27310	7773	9593	8610	278	1056
Clay	113976	22653	32716	28228	22747	700	6932	94803	17360	32409	40539	514	3981
Clayton	132447	41541	22446	22608	837	41643	3372	103865	35605	23416	14612	26897	3335
Clinton	147280	35303	42858	48420	14246	4301	2152	128793	33745	51310	38448	3177	2113
Crawford	121565	32031	42395	23190	18422	2055	3472	106064	28276	44293	29502	1929	2064
Dallas	96457	14054	18598	33867	23433	.	.	66865	11245	15483	35121	466	4550
Davis	37351	8431	9554	8325	5566	3080	2395	29878	7162	8051	10578	2201	1886
Decatur	37804	7870	16283	6254	5741	627	1029	33930	6014	15604	10945	509	858
Delaware	153387	66327	20399	28663	4648	30027	3323	117070	49638	20978	20503	21723	4228
Des Moines	57886	10900	8145	25171	10932	767	1971	46862	10549	8806	25760	524	1223
Dickinson	78289	12071	29234	18202	14090	926	3766	63098	9481	25665	25282	550	2120
Dubuque	135663	45429	33067	13300	473	41150	2244	105702	35386	32277	7227	27975	2837
Emmet	70747	12232	15689	24513	17682	173	458	64040	10835	18220	33202	491	1292
Fayette	146466	42196	28485	32839	12835	25345	4766	119072	29504	28013	38691	18165	4699

^aSales figures were not reported separately for corn and soybeans in 1978.^bData suppressed by the census bureau to protect confidentiality.

Table 1. Market Value (in \$1,000s) of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1982							1978					
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Grains ^a	Dairy Products	Other
Floyd	87316	20248	11838	29105	17274	2425	6426	74190	15478	11778	38476	1705	6753
Franklin	130341	37964	21866	38861	23481	1568	6601	104392	26931	25466	46084	1444	4467
Fremont	70257	8015	23173	17953	18812	350	1954	65547	7294	23549	31403	339	2962
Greene	106260	17685	21832	35635	28820	71	2217	92329	19046	23522	48390	.	.
Grundy	120734	31341	23833	36877	22679	2562	3442	105399	23196	29561	49084	2065	1493
Guthrie	76955	17657	24070	17989	12707	592	3940	59490	12875	19898	23654	642	2421
Hamilton	151257	35871	21109	39394	27705	336	26842	113216	24126	18552	48558	258	21722
Hancock	115130	33051	16008	37328	24052	2466	2225	95190	24642	17408	50036	1760	1344
Hardin	133094	39074	31407	35453	22706	840	3614	108759	27679	31653	45380	710	3337
Harrison	85100	15179	15510	28721	22178	1064	2448	69041	11140	16613	39603	661	1024
Henry	72834	21976	9212	23566	10717	572	6791	60158	19382	9377	25467	427	5505
Howard	70388	16274	12770	18824	10265	10623	1632	61644	13471	13652	23570	8748	2203
Humboldt	88363	20302	14996	29028	22293	634	1110	75738	17371	16474	39825	585	1483
Ida	88454	19936	35893	17135	12641	987	1862	82981	17382	39102	24459	1063	975
Iowa	106795	34384	31736	27584	8378	2881	1832	81832	27603	26592	24124	1915	1598
Jackson	91759	24591	35280	17041	1727	10813	2307	72662	21458	31421	8987	8458	2338
Jasper	135838	42665	33089	32763	20756	4028	2537	102155	32534	29282	35165	3315	1859
Jefferson	53290	15272	9847	15619	9995	1233	1324	44540	15755	9084	17438	742	1521
Johnson	106156	40773	16648	27699	10758	4111	6167	82373	30525	16387	26040	2934	6487
Jones	113757	36711	30934	29087	8625	7025	1375	93929	31562	32732	22953	5259	1423
Keokuk	98034	42112	13946	25762	12531	737	2946	75920	33437	15598	24178	764	1943
Kossuth	202307	49465	32943	63622	47036	3378	5863	164856	40094	31484	85404	2615	5259
Lee	64933	20406	13018	14708	11716	2727	2358	51536	17066	12793	17577	2478	1622
Linn	104388	23352	17582	35215	18982	5891	3366	79100	20333	14654	35995	4587	3531
Louisa	57699	15091	7179	22833	10815	.	.	47579	12283	8943	25306	.	.
Lucas	27495	6357	11063	4579	3411	637	1448	24666	6903	9204	7056	543	960
Lyon	144235	38757	57335	20130	18762	7129	2122	113814	28036	48953	29556	5436	1833
Madison	56581	16901	17387	11171	9323	375	1424	44812	14114	13556	15724	425	993
Mahaska	116208	48316	28434	17944	15810	2736	2968	95776	37993	28901	23490	1865	3527
Marion	71958	28181	15265	11565	9881	2917	4149	60537	23677	15492	15247	2350	3771
Marshall	99555	21938	20169	34761	18618	1155	2914	77386	15687	23211	35128	691	2669
Mills	63442	11109	19754	16442	15008	265	864	59461	8672	23328	26406	252	803
Mitchell	95936	27903	20657	20860	14330	5765	6421	83872	20916	20806	31432	5335	5383
Monona	92682	12647	27930	31796	18189	356	1764	80830	12194	28008	39733	374	521

Table 1. Market Value (in \$1,000s) of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1982							1978					
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Grains ^a	Dairy Products	Other
Monroe	29142	8791	11589	3652	2847	1199	1064	23953	6893	9732	5552	907	869
Montgomery	64125	12905	21564	12999	12906	601	3150	57232	12428	21329	20680	482	2313
Muscatine	71741	20657	13087	21782	10886	2605	2724	60156	17983	13063	24962	.	.
O'Brien	165422	43694	65380	27332	24121	2419	2476	148232	27639	69802	46659	2082	2050
Osceola	88273	19640	25843	19884	17484	2051	3371	76759	14983	27917	30602	1660	1597
Page	80273	18639	22983	13063	14289	457	10842	71927	17207	23387	22773	373	8187
Palo Alto	106680	24732	19428	34105	25385	1044	1986	92718	20881	21005	48303	930	1599
Plymouth	190741	60306	68420	29055	24245	3887	4828	159243	46992	67644	38613	2660	3334
Pocahontas	112692	23224	19648	37205	29626	478	2511	94825	18141	19816	54298	363	2207
Polk	59999	9037	6765	24267	16011	887	3032	50597	7052	7190	31914	1141	3300
Pottawattamie	188499	26843	82126	42992	30595	1277	4666	171211	23668	88208	55921	826	2588
Poweshiek	90797	23708	21983	25117	15593	1739	2657	73336	21156	20432	26780	1867	3101
Ringgold	41990	9107	17394	5745	7325	1217	1202	38514	10243	15120	11727	567	857
Sac	148176	37182	56826	26594	22546	1509	3519	118361	29466	50194	35151	1289	2261
Scott	98658	27649	20059	34380	8509	4383	3678	80241	25172	19705	28933	3656	2775
Shelby	115195	31180	37295	27329	16639	876	1876	95937	25663	37186	30470	1109	1509
Sioux	323993	75776	175356	27891	21564	15568	7838	283840	53625	175471	37127	11528	6089
Story	109993	22442	15244	37812	26245	1140	7110	80500	17100	14216	44108	1045	4031
Tama	114344	30158	22658	36039	19898	2425	3166	101128	26482	25456	44633	1907	2650
Taylor	43595	11052	13945	7943	8825	338	1492	38620	10439	13174	13678	429	900
Union	39080	9675	15701	7040	5109	331	1224	32158	8739	13263	8804	717	635
Van Buren	39525	12674	8314	9328	7453	696	1060	34019	12114	8329	11997	519	1060
Wapello	41589	10449	8528	11866	8156	625	1965	33511	8104	9042	14874	505	986
Warren	60626	18361	14379	12767	9491	2480	3148	47817	14509	11467	17518	1699	2624
Washington	134252	62568	16568	27720	15679	1450	10267	102225	49163	15408	30198	890	6566
Wayne	39027	8623	13582	7748	6439	1175	1460	36875	6906	14244	13434	989	1302
Webster	124776	20735	10052	46291	35656	648	11394	104719	15611	11395	66212	543	10958
Winnebago	67561	15781	5539	27735	15703	.	.	56565	12783	7149	34429	1417	787
Winneshiek	117583	31036	24551	15573	2719	39266	4438	95400	26121	24419	13963	26271	4626
Woodbury	146119	29361	54838	35961	18240	1082	6637	136287	25631	57112	45101	1015	7428
Worth	68431	15059	11186	23954	14559	2059	1614	62139	12914	12295	32790	1335	2805
Wright	108508	21342	12378	41578	31237	363	1610	91077	18137	13121	58481	337	1001
State of Iowa	9828932	2550488	2500175	2459061	1541608	426730	350870	8172960	2061298	2483937	3020845	313780	293100

Table 2. Market Value (in \$1,000s) of Selected Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1992.

County	1992			1987			1982			1978		
	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs
Adair	14808	680	14128	16454	1137	15317	18558	1269	17288	17351	1307	16044
Adams	9153	448	8705	9332	519	8813	12676	904	11773	12454	750	11705
Allamakee	22951	2279	20672	17951	1919	16033	19144	3293	15852	16211	2643	13569
Appanoose	2122	68	2054	3207	209	2998	3614	221	3394	4554	306	4247
Audubon	25231	2070	23161	23803	2749	21054	26109	2498	23611	21602	2483	19119
Benton	30956	1630	29326	33721	1892	31828	34351	2173	32177	28764	1894	26869
Black Hawk	30481	1534	28947	30363	1850	28513	25585	1287	24299	19148	1117	18031
Boone	17529	1596	15933	18559	2247	16311	20459	1805	18654	17178	1547	15631
Bremer	18104	1475	16629	18688	1559	17129	18698	1286	17412	13859	817	13042
Buchanan	33617	3510	30107	37214	4100	33114	35592	3403	32189	26599	2038	24561
Buena Vista	42868	2707	40161	42058	3066	38991	41111	3447	37664	30139	2199	27940
Butler	36902	3119	33783	38444	3055	35389	35972	2528	33444	27099	2199	24900
Calhoun	22566	1076	21491	21710	1657	20053	22318	1660	20659	16359	1609	14749
Carroll	55999	5220	50779	52683	4998	47684	45250	4371	40879	36804	3848	32956
Cass	16943	1486	15457	17465	1400	16064	19769	1242	18527	17872	759	17113
Cedar	38922	3206	35716	39699	2133	37566	40855	2452	38403	40044	2155	37889
Cerro Gordo	21761	1978	19783	24288	3676	20612	28266	1274	26992	23929	1436	22493
Cherokee	33923	2334	31589	34361	2389	31972	35501	2118	33383	23702	2108	21594
Chickasaw	25706	2178	23529	23635	2421	21214	24042	2388	21654	20259	1389	18870
Clarke	5480	577	4903	8132	571	7561	7688	845	6843	7773	861	6912
Clay	20673	481	20193	22439	579	21860	22653	941	21712	17360	1052	16308
Clayton	49148	2936	46211	52187	3248	48939	41541	2939	38602	35605	2193	33413
Clinton	30280	1822	28458	29631	2264	27367	35303	3120	32183	33745	2122	31622
Crawford	32975	2071	30905	29247	2346	26901	32031	2707	29324	28276	2272	26004
Dallas	8921	522	8399	12417	550	11866	14054	889	13165	11245	881	10364
Davis	9789	1203	8586	9235	1135	8100	8431	1087	7344	7162	1020	6142
Decatur	6640	528	6112	8403	1788	6615	7870	862	7008	6014	902	5112
Delaware	79012	3635	75377	82525	4250	78205	66327	3873	62454	49638	2589	47049
Des Moines	10085	1565	8520	9172	1230	7942	10900	1369	9531	10549	1173	9376
Dickinson	9791	478	9313	11822	612	11210	12071	635	11437	9481	858	8623
Dubuque	59625	4770	54855	54171	5001	49170	45429	2994	42435	35386	2278	33108
Emmet	10718	684	10035	10940	649	10291	12232	1225	11007	10835	998	9838
Fayette	42940	2958	39982	39880	3081	36800	42196	2569	39627	29504	2172	27331

Table 2. Market Value (in \$1,000s) of Selected Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1992 (continued).

County	1992			1987			1982			1978		
	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs
Floyd	22570	2375	20194	20139	2541	17597	20248	1819	18430	15478	1493	13984
Franklin	33134	2789	30345	36557	4011	32546	37964	2648	35316	26931	1960	24971
Fremont	7665	165	7500	9875	488	9387	8015	505	7510	7294	447	6847
Greene	16035	1283	14752	17974	1024	16950	17685	948	16737	19046	1155	17892
Grundy	25712	1269	24442	29918	2740	27178	31341	2306	29036	23196	1767	21428
Guthrie	17189	1504	15684	17018	1764	15254	17657	1633	16024	12875	1404	11471
Hamilton	37443	1722	35721	32318	2600	29718	35871	3605	32266	24126	1770	22356
Hancock	30186	2282	27904	28671	2147	26524	33051	1554	31498	24642	1845	22797
Hardin	40265	2912	37353	42300	3753	38547	39074	2606	36468	27679	2865	24814
Harrison	11716	3657	8059	12240	2115	10124	15179	2847	12332	11140	1536	9605
Henry	17102	1865	15237	18878	1405	17473	21976	1962	20014	19382	1927	17455
Howard	18206	998	17207	17427	1314	16113	16274	1238	15036	13471	893	12579
Humboldt	18515	2043	16472	18662	1939	16723	20302	2613	17689	17371	1262	16109
Ida	20819	1330	19489	19425	786	18639	19936	1159	18777	17382	997	16385
Iowa	26253	1051	25203	29627	1321	28305	34384	2077	32307	27603	1991	25613
Jackson	26771	2423	24348	24761	2817	21945	24591	2218	22373	21458	1856	19601
Jasper	40102	2315	37786	38270	2517	35754	42665	2980	39686	32534	2569	29965
Jefferson	15601	2151	13449	14121	1960	12161	15272	2132	13140	15755	2150	13605
Johnson	35435	2549	32886	37802	3092	34709	40773	4431	36342	30525	3112	27413
Jones	41643	4400	37243	37865	3566	34298	36711	2195	34516	31562	1885	29677
Keokuk	35438	2735	32703	37209	3484	33725	42112	3009	39102	33437	2908	30529
Kossuth	40200	2547	37653	43210	2623	40587	49465	2811	46654	40094	2647	37447
Lee	24558	1340	23217	20227	1430	18796	20406	1931	18476	17066	1220	15845
Linn	22180	1174	21006	23876	1135	22741	23352	1373	21979	20333	1062	19270
Louisa	9870	1458	8412	12750	725	12026	15091	1163	13928	12283	966	11317
Lucas	5359	415	4945	4796	355	4441	6357	619	5738	6903	545	6358
Lyon	42516	4905	37611	39883	4839	35044	38757	3092	35665	28036	2646	25391
Madison	11702	818	10884	12792	1119	11672	16901	1872	15029	14114	1331	12782
Mahaska	41945	1745	40200	44745	2484	42262	48316	3282	45033	37993	2918	35076
Marion	20212	1699	18513	23307	3232	20074	28181	3891	24290	23677	3906	19771
Marshall	22207	1725	20481	21256	1070	20186	21938	1590	20349	15687	1297	14390
Mills	7558	895	6662	8627	304	8323	11109	1033	10076	8672	1068	7604
Mitchell	30130	1941	28190	29681	2321	27360	27903	1378	26524	20916	767	20150
Monona	13115	535	12580	11173	799	10374	12647	929	11718	12194	1053	11141

Table 2. Market Value (in \$1,000s) of Selected Categories of Hogs/Pigs Sold in Iowa Counties, 1978-1992 (continued).

County	1992			1987			1982			1978		
	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs	Total	Feeder Pigs	Other Hogs and Pigs
Monroe	6627	888	5739	6561	1174	5387	8791	1416	7376	6893	1095	5798
Montgomery	10484	383	10100	11511	346	11165	12905	274	12630	12428	529	11899
Muscatine	17219	1035	16184	16996	572	16424	20657	733	19924	17983	801	17183
O'Brien	48154	2202	45952	44297	3228	41069	43694	3324	40370	27639	1901	25738
Osceola	24878	1227	23652	18340	1690	16650	19640	1737	17903	14983	1083	13899
Page	14836	358	14478	15553	955	14598	18639	1099	17539	17207	993	16214
Palo Alto	24794	2020	22773	23642	1340	22302	24732	1570	23161	20881	952	19929
Plymouth	69032	5566	63466	63878	6602	57276	60306	5594	54712	46992	4786	42205
Pocahontas	23212	1561	21650	24436	1699	22737	23224	2808	20416	18141	2083	16057
Polk	6731	481	6249	7991	415	7576	9037	851	8185	7052	488	6564
Pottawattamie	25238	2515	22723	24946	2238	22708	26843	3002	23841	23668	2693	20975
Poweshiek	21612	749	20863	23108	1779	21330	23708	1088	22621	21156	1671	19486
Ringgold	8065	822	7243	9831	777	9054	9107	631	8476	10243	1033	9210
Sac	42905	3137	39768	40883	3482	37401	37182	3240	33942	29466	2971	26495
Scott	24806	810	23996	25721	583	25138	27649	775	26874	25172	1017	24156
Shelby	37099	2690	34409	30518	3711	26808	31180	2716	28464	25663	1814	23849
Sioux	110971	7383	103588	90993	8310	82682	75776	5849	69928	53625	4894	48731
Story	20012	961	19051	24026	2133	21893	22442	1475	20966	17100	1347	15754
Tama	23278	2922	20356	27920	1606	26314	30158	1887	28270	26482	1626	24856
Taylor	11002	509	10493	10543	1001	9543	11052	973	10079	10439	1262	9177
Union	8532	352	8181	7430	824	6606	9675	875	8800	8739	782	7956
Van Buren	10247	2866	7381	11075	3545	7530	12674	2438	10236	12114	2738	9375
Wapello	8717	281	8436	8934	707	8227	10449	929	9520	8104	537	7567
Warren	11890	607	11283	16511	2198	14313	18361	2791	15570	14509	1687	12822
Washington	62134	8099	54035	56567	7472	49094	62568	9243	53326	49163	6866	42297
Wayne	6715	683	6032	7080	759	6321	8623	737	7886	6906	478	6428
Webster	22794	1866	20929	19605	1174	18431	20735	1994	18741	15611	1416	14195
Winnebago	11921	989	10932	15178	1321	13857	15781	1342	14439	12783	708	12076
Winneshiek	32797	1944	30853	34265	2327	31938	31036	2581	28456	26121	1832	24289
Woodbury	23297	2223	21074	25691	2862	22829	29361	3446	25916	25631	3099	22531
Worth	12759	462	12297	13754	560	13195	15059	825	14234	12914	995	11918
Wright	13321	1802	11519	15234	1757	13477	21342	1963	19379	18137	1224	16913
State of Iowa	2502048	188232	2313816	2494231	209249	2284913	2550488	207325	2343163	2061298	170594	1890705

Table 3. Market Value (in \$1,000s) of Selected Categories of Cattle Sold in Iowa Counties, 1978-1992.

County	1992				1987				1982				1978			
	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle
Adair	24859	1997	15227	7635	22192	1628	14874	5690	23897	2049	16393	5455	21097	2927	13886	4284
Adams	14129	1734	7613	4782	13645	1570	7991	4084	17915	1733	11967	4215	13110	1784	7090	4236
Allamakee	22714	2844	7554	12316	19271	2246	7895	9130	17904	2475	7113	8316	17251	2802	6853	7596
Appanoose	13310	2473	2618	8219	12051	2850	2260	6941	9742	2677	2371	4694	9423	3134	2209	4080
Audubon	27864	1386	22679	3799	25608	725	22295	2588	34965	1278	27677	6010	32265	1932	25877	4456
Benton	41002	1066	33582	6354	40876	815	35574	4487	31399	1290	26000	4109	34765	1613	28877	4275
Black Hawk	11022	644	8514	1864	9813	831	7175	1807	12837	540	10059	2238	14999	1148	11557	2294
Boone	15634	573	12987	2074	14859	295	12718	1846	18409	602	15474	2333	19022	626	16259	2137
Bremer	11251	1307	6386	3558	10664	455	7473	2736	10464	496	7224	2744	10107	857	6422	2828
Buchanan	12901	985	7861	4055	16911	793	12889	3229	16930	726	13753	2451	17824	1084	14362	2378
Buena Vista	24913	380	21833	2700	23787	192	21733	1862	27429	472	24980	1977	23139	1063	20526	1550
Butler	14645	874	11243	2528	16683	556	13531	2596	16587	796	13357	2434	17347	1361	12316	3670
Calhoun	15148	542	12575	2031	16338	349	14538	1451	28124	569	24756	2799	26473	666	21710	4097
Carroll	77586	2977	68954	5655	67065	2170	61040	3855	91858	2421	82642	6795	80626	2622	70223	7781
Cass	31239	1834	23298	6107	28169	1165	23591	3413	30968	1353	25121	4494	30932	2025	25418	3489
Cedar	17361	855	13238	3268	20473	547	17905	2021	21454	851	17527	3076	26582	1068	22801	2713
Cerro Gordo	4286	209	2108	1969	5684	175	4209	1300	8285	431	5948	1906	9899	738	7756	1405
Cherokee	32610	974	26554	5082	39977	618	34833	4526	56014	969	49096	5949	55597	1413	48782	5402
Chickasaw	24358	765	16709	6884	19660	534	15707	3419	17822	863	12741	4218	15042	1647	10075	3320
Clarke	11244	1818	2720	6706	9629	2283	2981	4365	10379	1878	4046	4455	9593	2767	3151	3675
Clay	17139	387	13687	3065	20793	730	15466	4597	32716	896	29328	2492	32409	764	27580	4065
Clayton	25933	3336	13473	9124	24903	2789	13371	8743	22446	2864	11334	8248	23416	3423	11123	8870
Clinton	41243	1163	34127	5953	38945	880	33695	4370	42858	1021	37763	4074	51310	1759	45635	3916
Crawford	32650	2405	23608	6637	35785	1553	29180	5052	42395	2144	34342	5909	44293	3343	33426	7524
Dallas	10410	575	7724	2111	11787	606	8052	3129	18598	870	14645	3083	15483	1408	12306	1769
Davis	12591	2164	2317	8110	9673	2340	1883	5450	9554	2161	2488	4905	8051	2449	1889	3713
Decatur	24669	2079	10659	11931	14994	2172	4045	8777	16283	2174	3006	11103	15604	4089	2783	8732
Delaware	30970	1933	21366	7671	22261	1120	15812	5329	20399	1131	13330	5938	20978	1718	12859	6401
Des Moines	6186	497	3997	1692	7553	305	5418	1830	8145	458	5765	1922	8806	761	6544	1501
Dickinson	24764	279	21676	2809	20381	237	18535	1609	29234	551	27365	1318	25665	815	22817	2033
Dubuque	49129	3577	35127	10425	37927	2226	28159	7542	33067	2109	24083	6875	32277	2100	24179	5998
Emmet	11965	316	9601	2048	9587	176	8716	695	15689	644	14005	1040	18220	786	15571	1863
Fayette	25114	1816	13627	9671	20348	1818	10900	7630	28485	1443	19204	7838	28013	1838	19341	6834

Table 3. Market Value (in \$1,000s) of Selected Categories of Cattle Sold in Iowa Counties, 1978-1992 (continued).

County	1992				1987				1982				1978			
	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle
Floyd	12878	302	11062	1514	10582	330	8164	2088	11838	550	8953	2335	11778	730	9375	1673
Franklin	11202	252	9807	1143	11741	247	10046	1448	21866	428	19870	1568	25466	1075	18494	5897
Fremont	20222	1084	16646	2492	20154	497	17508	2149	23173	860	20636	1677	23549	1355	20421	1773
Greene	12631	1383	8402	2846	12391	732	9928	1731	21832	1041	16823	3968	23522	1307	19656	2559
Grundy	27999	485	23712	3802	29779	1010	26625	2144	23833	1136	18547	4150	29561	982	25878	2701
Guthrie	17097	2450	10122	4525	16397	1844	10440	4113	24070	1738	17421	4911	19898	2295	13678	3925
Hamilton	8131	450	6117	1564	10534	688	6325	3521	21109	475	15810	4824	18552	459	16879	1214
Hancock	11567	326	9884	1357	12386	246	10598	1542	16008	361	13499	2148	17408	636	14286	2486
Hardin	16492	405	12350	3737	16562	437	14122	2003	31407	781	27899	2727	31653	850	27263	3540
Harrison	20207	940	12736	6531	18857	1079	12427	5351	15510	1724	8651	5135	16613	2179	10367	4067
Henry	5973	783	3267	1923	7656	680	5178	1798	9212	904	6351	1957	9377	1194	5630	2553
Howard	12956	710	9090	3156	11296	540	8115	2641	12770	731	8139	3900	13652	1025	8892	3735
Humboldt	10501	348	8573	1580	12859	274	11739	846	14996	775	12934	1287	16474	1358	12690	2426
Ida	22772	525	17539	4708	29593	267	26192	3134	35893	582	32168	3143	39102	1040	33311	4751
Iowa	27826	1220	20664	5942	24533	1450	19788	3295	31736	1728	25357	4651	26592	2297	20433	3862
Jackson	49760	3093	30865	15802	41701	1553	31123	9025	35280	2364	25446	7470	31421	2486	22264	6671
Jasper	30449	2148	21304	6997	27746	1334	22168	4244	33089	2003	24761	6325	29282	2153	20987	6142
Jefferson	9333	1267	5233	2833	7925	928	4876	2121	9847	1095	5389	3363	9084	1854	4737	2493
Johnson	16313	1086	9885	5342	16738	1015	12063	3660	16648	1303	11931	3414	16387	1672	10761	3954
Jones	43107	992	33703	8412	36401	935	29615	5851	30934	1377	24298	5259	32732	1667	26109	4956
Keokuk	11530	1375	6424	3731	11886	1237	7952	2697	13946	1566	9164	3216	15598	2013	10290	3295
Kossuth	21848	791	18129	2928	22384	589	20031	1764	32943	1220	27527	4196	31484	1611	26530	3343
Lee	13433	1207	9463	2763	14784	1248	11550	1986	13018	908	9959	2151	12793	1484	9646	1663
Linn	22466	1031	17428	4007	20228	765	16089	3374	17582	933	13782	2867	14654	1231	10012	3411
Louisa	4948	356	3221	1371	5113	465	3894	754	7179	386	5606	1187	8943	690	6719	1534
Lucas	10300	2183	2606	5511	9272	2078	3416	3778	11063	2066	4872	4125	9204	2675	3158	3371
Lyon	73784	2491	54151	17142	50398	1181	41788	7429	57335	1314	47661	8360	48953	2246	38589	8118
Madison	13918	2657	4656	6605	12392	1901	5420	5071	17387	2624	9965	4798	13556	2627	7721	3208
Mahaska	29433	1209	24837	3387	27465	1200	23410	2855	28434	1153	23468	3813	28901	1542	24487	2872
Marion	11691	1457	4708	5526	11080	1254	6124	3702	15265	1589	8551	5125	15492	2087	8863	4542
Marshall	15664	882	11971	2811	17309	538	13952	2819	20169	773	16790	2606	23211	1166	18296	3749
Mills	12671	615	10061	1995	14611	425	12293	1893	19754	517	17740	1497	23328	741	20731	1856
Mitchell	26558	3295	19907	3356	21730	2065	17290	2375	20657	721	17671	2265	20806	1081	16658	3067
Monona	25678	1014	16789	7875	20299	591	16922	2786	27930	1081	22671	4178	28008	1752	20804	5452

Table 3. Market Value (in \$1,000s) of Selected Categories of Cattle Sold in Iowa Counties, 1978-1992 (continued).

County	1992				1987				1982				1978			
	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle	Total	Calves	Fattened Cattle	Other Cattle
Monroe	13643	1975	2735	8933	12621	2061	3103	7457	11589	2418	3195	5976	9732	3001	2074	4657
Montgomery	12783	898	7723	4162	13426	721	9514	3191	21564	1199	17488	2877	21329	1063	17200	3066
Muscatine	7696	643	5288	1765	9958	620	6978	2360	13087	893	10607	1587	13063	1488	9153	2422
O'Brien	28025	725	20707	6593	56229	493	51666	4070	65380	887	60398	4095	69802	1496	63726	4580
Osceola	20326	659	15748	3919	17821	574	15195	2052	25843	499	22475	2869	27917	1646	23191	3080
Page	17449	1366	11295	4788	19578	1079	15248	3251	22983	1444	17493	4046	23387	1676	17714	3997
Palo Alto	16326	172	12524	3630	13181	94	11247	1840	19428	663	17273	1492	21005	1170	17307	2528
Plymouth	72771	1927	62055	8789	60132	1029	50291	8812	68420	2122	59204	7094	67644	2744	56292	8608
Pocahontas	11641	336	9792	1513	14502	130	13204	1168	19648	327	16410	2911	19816	609	17143	2064
Polk	6240	542	3699	1999	5902	296	4241	1365	6765	461	4782	1522	7190	671	5253	1266
Pottawattamie	54493	1797	45128	7568	49870	1515	44427	3928	82126	1194	74692	6240	88208	2309	79749	6150
Poweshiek	19209	1572	11310	6327	19454	1434	12517	5503	21983	1522	14699	5762	20432	2453	13612	4367
Ringgold	14185	1311	2822	10052	14909	2318	5670	6921	17394	2443	6741	8210	15120	3604	5506	6010
Sac	37279	647	29334	7298	38285	342	34407	3536	56826	826	51406	4594	50194	1631	44968	3595
Scott	12976	433	10516	2027	18414	243	16687	1484	20059	279	17942	1838	19705	658	16924	2123
Shelby	27533	1484	21140	4909	32001	443	27701	3857	37295	1662	30585	5048	37186	1733	30435	5018
Sioux	200399	4131	158233	38035	173008	1968	149468	21572	175356	2011	160019	13326	175471	4030	151195	20246
Story	9761	440	8003	1318	17669	254	14648	2767	15244	437	12193	2614	14216	690	11944	1582
Tama	18800	2093	11457	5250	18728	1200	13097	4431	22658	1734	16674	4250	25456	2213	19476	3767
Taylor	12600	1820	4235	6545	10769	1456	4275	5038	13945	1496	7201	5248	13174	2615	5280	5279
Union	13895	1478	3810	8607	11903	1754	4048	6101	15701	2137	8226	5338	13263	2141	5258	5864
Van Buren	7679	1862	1843	3974	7133	1706	2386	3041	8314	1601	3324	3389	8329	2372	2864	3093
Wapello	7363	1029	2647	3687	8400	904	4361	3135	8528	1084	4134	3310	9042	1423	5078	2541
Warren	13991	1848	6944	5199	12591	1630	6148	4813	14379	2195	8295	3889	11467	2379	5124	3964
Washington	12483	970	8899	2614	12043	662	9402	1979	16568	1127	12716	2725	15408	1270	11142	2996
Wayne	10706	1938	1852	6916	12099	2701	4110	5288	13582	2470	3207	7905	14244	3890	2633	7721
Webster	4627	189	3494	944	5171	209	4115	847	10052	575	7665	1812	11395	528	9495	1372
Winnebago	2288	257	1453	578	3721	218	2157	1346	5539	297	4443	799	7149	290	6080	779
Winneshiek	29136	2889	14986	11261	26527	2308	13799	10420	24551	2626	12312	9613	24419	2400	12416	9603
Woodbury	63531	1431	57185	4915	49702	1207	43803	4692	54838	1456	46551	6831	57112	3000	45059	9053
Worth	6682	291	4969	1422	6903	154	5629	1120	11186	377	7458	3351	12295	432	9126	2737
Wright	6728	296	5471	961	8919	255	8020	644	12378	227	11098	1053	13121	1259	10783	1079
State of Iowa	2235422	127024	1587844	520554	2124641	101352	1643176	380113	2500175	122433	1966120	411622	2483937	168976	1910016	404945

Table 4. Percentage of Market Value of Agricultural Products Sold in Iowa Counties, 1978-1992.

County	1992							1987						
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other
Adair	100.0 ^a	19.7	33.0	25.5	17.8	1.6	2.4	100.0	23.1	31.2	23.4	19.1	1.5	1.7
Adams	100.0	19.8	30.6	24.7	17.7	0.5	6.6	100.0	23.4	34.2	21.4	18.6	0.6	1.8
Allamakee	100.0	25.6	25.4	10.0	1.0	32.9	5.1	100.0	23.2	24.9	10.5	0.9	38.3	2.3
Appanoose	100.0	7.7	48.5	18.5	16.0	1.7	7.6	100.0	12.6	47.2	15.6	16.6	2.7	5.3
Audubon	100.0	26.9	29.7	23.9	17.3	0.2	1.9	100.0	29.7	31.9	19.4	16.3	0.6	2.0
Benton	100.0	20.4	27.0	26.1	20.1	2.5	4.0	100.0	23.9	29.0	21.6	19.9	2.3	3.3
Black Hawk	100.0	27.1	9.8	32.3	19.1	3.0	8.7	100.0	30.4	9.8	28.3	18.9	4.3	8.3
Boone	100.0	17.0	15.2	35.0	27.1	0.4	5.3	100.0	20.3	16.3	28.9	28.2	0.6	5.7
Bremer	100.0	20.3	12.6	31.3	15.0	16.5	4.3	100.0	24.9	14.2	25.9	14.5	17.2	3.4
Buchanan	100.0	28.8	11.1	35.5	16.0	5.9	2.7	100.0	34.1	15.5	27.6	14.0	6.7	2.0
Buena Vista	100.0	27.3	15.8	22.2	19.1	0.4	15.2	100.0	31.8	18.0	18.3	19.4	0.4	12.0
Butler	100.0	32.3	12.8	29.0	17.6	4.5	3.8	100.0	36.5	15.9	23.4	16.6	4.3	3.3
Calhoun	100.0	20.1	13.5	35.2	28.3	0.1	2.9	100.0	22.1	16.6	26.9	31.4	0.1	2.8
Carroll	100.0	28.6	39.6	16.5	13.5	0.3	1.6	100.0	30.9	39.3	14.7	13.6	0.4	1.2
Cass	100.0	17.6	32.4	27.8	18.6	0.5	3.0	100.0	21.0	33.9	23.5	19.2	1.1	1.3
Cedar	100.0	33.0	14.7	32.3	16.8	1.3	1.8	100.0	37.9	19.6	24.9	14.6	1.6	1.5
Cerro Gordo	100.0	23.8	4.7	41.9	23.4	0.7	5.5	100.0	29.3	6.8	34.1	23.9	1.1	4.7
Cherokee	100.0	26.5	25.5	23.6	19.6	1.7	3.1	100.0	28.8	33.5	16.7	17.1	1.4	2.3
Chickasaw	100.0	25.7	24.3	25.8	14.1	8.1	1.9	100.0	27.8	23.1	23.3	13.9	9.1	2.9
Clarke	100.0	19.7	40.3	20.0	14.4	1.6	4.0	100.0	29.8	35.3	17.2	14.0	1.0	2.7
Clay	100.0	19.7	16.3	27.6	24.6	0.1	11.7	100.0	23.9	22.2	23.2	24.2	0.2	6.2
Clayton	100.0	31.6	16.7	17.1	2.5	28.3	3.9	100.0	36.0	17.2	13.4	1.5	29.0	2.8
Clinton	100.0	22.4	30.4	28.2	13.6	3.5	1.9	100.0	25.6	33.7	23.9	12.1	3.0	1.8
Crawford	100.0	26.5	26.3	26.5	17.7	1.2	1.9	100.0	26.3	32.2	21.1	16.4	1.2	2.7
Dallas	100.0	10.2	11.9	38.2	26.3	0.3	13.1	100.0	15.8	15.0	31.8	28.4	0.4	8.6
Davis	100.0	24.5	31.5	17.6	14.1	6.2	6.2	100.0	27.7	29.0	14.6	14.7	6.1	8.0
Decatur	100.0	16.2	60.0	10.5	8.9	1.3	3.1	100.0	23.6	42.2	14.1	15.8	2.2	2.2
Delaware	100.0	44.2	17.3	13.5	3.8	20.0	1.2	100.0	49.3	13.3	12.8	3.4	19.4	1.8
Des Moines	100.0	19.6	12.0	36.7	26.4	2.7	2.6	100.0	21.0	17.3	32.7	22.6	2.6	3.9
Dickinson	100.0	13.7	34.6	24.0	20.9	1.1	5.8	100.0	18.4	31.7	22.2	21.5	1.8	4.4
Dubuque	100.0	32.2	26.6	6.6	0.7	31.1	2.8	100.0	35.4	24.8	6.6	0.6	30.2	2.4
Emmet	100.0	16.5	18.4	36.7	27.3	. ^b	.	100.0	19.2	16.8	31.3	31.4	.	.
Fayette	100.0	28.3	16.6	24.3	10.5	17.6	2.7	100.0	29.5	15.0	23.5	10.6	18.5	2.9

^aPercentages may not add to 100.0 due to rounding error.^bData suppressed by the census bureau to protect confidentiality.

Table 4. Percentage of Market Value of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1992							1987						
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other
Floyd	100.0	24.5	14.0	33.4	21.3	0.8	6.1	100.0	25.5	13.4	30.2	23.4	2.0	5.4
Franklin	100.0	28.1	9.5	35.4	21.6	1.0	4.4	100.0	33.0	10.6	27.9	21.3	0.8	6.4
Fremont	100.0	9.3	24.5	36.4	27.6	0.3	2.0	100.0	14.5	29.7	24.5	28.8	0.6	1.8
Greene	100.0	15.3	12.1	39.6	31.8	.	.	100.0	20.0	13.8	31.7	33.0	0.0	1.6
Grundy	100.0	20.1	21.8	32.7	22.1	1.0	2.3	100.0	24.7	24.6	25.9	20.2	1.7	2.9
Guthrie	100.0	20.4	20.3	28.4	19.2	0.7	11.0	100.0	26.3	25.3	25.0	21.2	0.5	1.7
Hamilton	100.0	26.3	5.7	29.0	21.3	0.5	17.3	100.0	24.1	7.9	22.5	20.3	0.3	25.0
Hancock	100.0	27.8	10.6	35.6	21.3	0.7	3.9	100.0	29.3	12.7	29.9	23.8	1.8	2.5
Hardin	100.0	28.0	11.5	29.7	17.3	0.2	13.3	100.0	36.6	14.3	25.6	20.3	0.4	2.7
Harrison	100.0	11.6	20.1	40.4	25.8	0.1	1.9	100.0	15.0	23.1	33.5	26.1	0.4	1.8
Henry	100.0	26.3	9.2	31.8	20.2	1.0	11.6	100.0	33.9	13.7	24.2	16.6	0.7	10.8
Howard	100.0	24.7	17.6	26.4	16.4	10.9	4.0	100.0	26.1	16.9	23.8	17.5	11.8	3.9
Humboldt	100.0	20.3	11.5	37.3	28.7	0.7	1.6	100.0	24.0	16.5	27.5	30.0	0.6	1.4
Ida	100.0	23.6	25.8	28.3	19.7	0.8	1.8	100.0	24.2	36.9	20.3	16.1	0.6	2.0
Iowa	100.0	27.5	29.1	28.8	10.7	1.8	2.2	100.0	32.5	26.9	25.3	11.0	1.9	2.5
Jackson	100.0	25.8	48.0	10.4	1.9	11.2	2.6	100.0	26.4	44.5	11.9	2.1	12.2	3.0
Jasper	100.0	29.6	22.5	26.4	17.4	2.0	2.1	100.0	32.0	23.2	23.6	17.8	1.6	1.9
Jefferson	100.0	29.5	17.6	27.1	20.5	1.6	3.7	100.0	32.0	18.0	22.7	22.4	2.2	2.7
Johnson	100.0	35.6	16.4	20.6	12.2	4.9	10.3	100.0	39.8	17.6	16.8	10.9	5.0	9.8
Jones	100.0	32.5	33.6	19.3	8.0	5.2	1.5	100.0	34.6	33.2	16.7	7.8	6.5	1.2
Keokuk	100.0	42.6	13.9	24.2	15.7	0.4	3.2	100.0	43.6	13.9	23.7	15.2	0.5	3.1
Kossuth	100.0	21.1	11.5	38.3	24.9	1.5	2.6	100.0	24.9	12.9	29.2	27.9	1.9	3.1
Lee	100.0	33.4	18.3	22.1	17.4	4.6	4.2	100.0	35.6	26.0	14.7	16.3	4.3	3.0
Linn	100.0	21.7	21.9	29.0	18.7	3.8	4.8	100.0	25.7	21.8	24.5	18.1	5.4	4.4
Louisa	100.0	21.4	10.7	39.0	25.8	.	.	100.0	30.2	12.1	30.4	21.5	0.7	5.2
Lucas	100.0	21.1	40.6	17.8	13.4	2.5	4.6	100.0	20.7	40.1	16.7	14.3	3.3	4.9
Lyon	100.0	24.5	42.5	13.8	13.2	3.6	2.4	100.0	29.4	37.2	13.2	14.6	4.2	1.4
Madison	100.0	16.8	20.0	23.3	17.0	.	.	100.0	22.3	21.6	18.0	17.8	.	.
Mahaska	100.0	36.2	25.4	18.4	14.5	2.4	3.1	100.0	40.0	24.6	16.5	14.4	1.6	2.9
Marion	100.0	31.0	17.9	22.7	18.4	3.3	6.7	100.0	36.6	17.4	19.8	17.8	2.9	5.6
Marshall	100.0	21.9	15.4	37.0	20.0	1.4	4.3	100.0	23.5	19.2	32.1	20.9	1.0	3.2
Mills	100.0	11.7	19.5	39.8	27.9	0.2	0.9	100.0	15.7	26.5	29.6	27.0	0.2	1.1
Mitchell	100.0	28.2	24.9	22.5	14.8	5.0	4.6	100.0	30.9	22.6	19.0	15.1	5.5	6.9
Monona	100.0	13.2	25.8	35.9	23.0	0.2	1.9	100.0	14.9	27.1	32.5	23.4	0.2	2.0

Table 4. Percentage of Market Value of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1992							1987						
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other
Monroe	100.0	22.3	46.0	13.7	9.3	4.4	4.3	100.0	23.9	45.9	11.2	12.2	3.5	3.2
Montgomery	100.0	16.5	20.2	29.4	23.4	0.7	9.8	100.0	21.3	24.8	24.8	23.5	0.7	4.9
Muscatine	100.0	26.3	11.8	30.0	18.7	3.9	9.2	100.0	31.3	18.3	23.2	18.5	4.0	4.7
O'Brien	100.0	32.9	19.2	22.2	22.0	0.9	2.8	100.0	28.3	35.9	16.3	17.1	1.3	1.2
Osceola	100.0	26.3	21.5	24.7	22.4	3.3	1.9	100.0	24.7	24.0	21.7	24.5	2.8	2.4
Page	100.0	18.1	21.3	25.8	22.2	0.5	12.0	100.0	21.4	26.9	18.0	22.0	0.6	11.2
Palo Alto	100.0	23.0	15.1	33.6	26.2	0.5	1.6	100.0	25.8	14.4	28.1	28.8	0.9	2.0
Plymouth	100.0	31.2	32.9	18.1	14.9	1.5	1.4	100.0	34.8	32.7	14.3	14.3	1.2	2.7
Pocahontas	100.0	21.1	10.6	36.1	29.0	0.4	2.8	100.0	26.0	15.4	28.0	27.1	0.3	3.2
Polk	100.0	10.9	10.1	41.1	28.5	0.9	8.4	100.0	14.4	10.6	35.3	30.4	0.8	8.4
Pottawattamie	100.0	14.0	30.3	32.3	20.3	0.4	2.7	100.0	16.8	33.5	26.0	20.7	0.3	2.7
Poweshiek	100.0	25.0	22.2	28.1	19.5	1.5	3.7	100.0	28.5	24.0	23.9	19.3	1.8	2.5
Ringgold	100.0	21.1	37.1	19.8	15.5	.	.	100.0	25.5	38.6	14.7	17.9	1.7	1.6
Sac	100.0	29.3	25.5	22.8	18.5	0.8	3.1	100.0	31.5	29.5	16.4	18.0	1.2	3.5
Scott	100.0	27.2	14.2	34.1	13.9	4.8	5.8	100.0	31.5	22.6	25.8	10.9	4.8	4.4
Shelby	100.0	29.9	22.2	29.1	16.4	0.5	1.8	100.0	28.1	29.5	23.5	16.2	0.7	2.0
Sioux	100.0	26.3	47.5	9.8	7.8	4.2	4.5	100.0	26.1	49.6	7.9	7.0	4.1	5.2
Story	100.0	18.8	9.2	38.1	26.8	1.9	5.1	100.0	23.6	17.4	27.4	25.2	1.2	5.2
Tama	100.0	21.2	17.1	37.1	20.0	1.8	2.8	100.0	26.4	17.7	30.0	21.0	2.3	2.6
Taylor	100.0	23.6	27.0	25.4	20.2	1.4	2.4	100.0	26.1	26.6	21.3	22.9	0.5	2.7
Union	100.0	17.6	28.7	19.1	12.8	0.5	21.3	100.0	18.7	30.0	16.5	15.2	0.5	19.0
Van Buren	100.0	28.0	20.9	24.0	20.5	2.5	4.1	100.0	33.6	21.6	19.1	20.4	1.6	3.7
Wapello	100.0	22.8	19.3	27.5	23.1	1.8	5.5	100.0	25.2	23.7	22.9	23.2	2.1	2.9
Warren	100.0	20.9	24.5	28.0	19.2	3.9	3.5	100.0	30.0	22.9	21.9	18.3	2.8	4.1
Washington	100.0	48.2	9.7	17.2	13.7	1.5	9.7	100.0	49.9	10.6	16.1	12.0	1.3	10.2
Wayne	100.0	19.8	31.6	25.5	17.9	1.3	4.0	100.0	20.4	34.9	20.5	19.5	2.3	2.4
Webster	100.0	18.0	3.6	39.2	30.2	0.5	8.5	100.0	17.5	4.6	31.3	32.2	0.3	14.1
Winnebago	100.0	19.7	3.8	47.7	25.2	1.9	1.7	100.0	26.4	6.5	36.2	26.4	3.0	1.5
Winneshiek	100.0	26.2	23.3	12.7	2.5	29.9	5.3	100.0	28.4	22.0	12.1	3.0	29.1	5.4
Woodbury	100.0	15.4	42.1	25.5	13.8	0.2	3.0	100.0	20.2	39.0	22.9	12.9	0.2	4.8
Worth	100.0	19.4	10.2	38.1	22.8	0.8	8.7	100.0	24.6	12.3	31.3	24.9	2.3	4.5
Wright	100.0	13.4	6.8	44.3	32.6	0.2	2.7	100.0	17.9	10.5	35.7	33.1	0.4	2.4
State of Iowa	100.0	24.8	22.1	26.6	17.6	4.2	4.7	100.0	27.9	23.8	22.0	17.6	4.4	4.3

Table 4. Percentage of Market Value of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1982							1978					
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Grains ^a	Dairy Products	Other
Adair	100.0 ^b	26.1	33.6	21.6	14.8	1.9	1.9	100.0	29.5	35.9	30.3	2.4	1.9
Adams	100.0	26.8	37.8	17.0	15.4	1.0	2.0	100.0	33.2	35.0	29.0	1.4	1.4
Allamakee	100.0	24.5	22.9	12.8	0.8	37.1	1.9	100.0	25.9	27.5	10.9	31.1	4.6
Appanoose	100.0	15.5	41.8	17.6	15.9	4.0	5.1	100.0	17.8	36.9	33.5	2.1	9.6
Audubon	100.0	28.2	37.8	17.9	12.8	1.0	2.3	100.0	27.9	41.7	26.4	1.3	2.6
Benton	100.0	24.9	22.7	28.1	19.5	2.6	2.2	100.0	24.7	29.8	41.5	2.7	1.4
Black Hawk	100.0	24.8	12.4	32.9	18.1	5.3	6.5	100.0	22.2	17.4	47.4	4.9	8.1
Boone	100.0	19.9	17.9	32.2	23.4	0.8	5.9	100.0	20.5	22.7	50.4	0.5	5.9
Bremer	100.0	23.2	13.0	29.7	12.4	17.9	3.8	100.0	21.1	15.4	42.4	16.1	5.0
Buchanan	100.0	31.5	15.0	32.6	12.2	6.6	2.1	100.0	29.8	20.0	42.5	5.8	2.0
Buena Vista	100.0	29.7	19.8	23.5	18.3	0.6	8.0	100.0	26.5	20.4	43.8	0.5	8.8
Butler	100.0	32.6	15.0	27.8	15.3	5.7	3.6	100.0	30.8	19.7	40.7	5.4	3.5
Calhoun	100.0	19.3	24.3	29.1	24.4	0.3	2.7	100.0	17.5	28.3	51.8	0.3	2.1
Carroll	100.0	24.3	49.2	13.1	11.0	. ^c	.	100.0	24.2	53.0	20.5	0.7	1.6
Cass	100.0	22.4	35.1	22.9	16.1	1.6	1.9	100.0	23.8	41.1	32.5	1.4	1.2
Cedar	100.0	32.5	17.0	34.9	12.0	2.3	1.2	100.0	35.7	23.7	37.3	2.0	1.3
Cerro Gordo	100.0	28.2	8.3	38.7	20.3	0.8	3.8	100.0	28.1	11.6	54.9	1.2	4.2
Cherokee	100.0	25.5	40.2	16.7	14.1	1.3	2.1	100.0	20.4	47.8	28.7	1.4	1.7
Chickasaw	100.0	28.3	21.0	25.9	12.9	8.8	3.1	100.0	28.8	21.4	38.1	8.2	3.5
Clarke	100.0	26.7	36.1	18.2	14.9	1.4	2.6	100.0	28.5	35.1	31.5	1.0	3.9
Clay	100.0	19.9	28.7	24.8	20.0	0.6	6.1	100.0	18.3	34.2	42.8	0.5	4.2
Clayton	100.0	31.4	16.9	17.1	0.6	31.4	2.5	100.0	34.3	22.5	14.1	25.9	3.2
Clinton	100.0	24.0	29.1	32.9	9.7	2.9	1.5	100.0	26.2	39.8	29.9	2.5	1.6
Crawford	100.0	26.3	34.9	19.1	15.2	1.7	2.9	100.0	26.7	41.8	27.8	1.8	1.9
Dallas	100.0	14.6	19.3	35.1	24.3	.	.	100.0	16.8	23.2	52.5	0.7	6.8
Davis	100.0	22.6	25.6	22.3	14.9	8.2	6.4	100.0	24.0	26.9	35.4	7.4	6.3
Decatur	100.0	20.8	43.1	16.5	15.2	1.7	2.7	100.0	17.7	46.0	32.3	1.5	2.5
Delaware	100.0	43.2	13.3	18.7	3.0	19.6	2.2	100.0	42.4	17.9	17.5	18.6	3.6
Des Moines	100.0	18.8	14.1	43.5	18.9	1.3	3.4	100.0	22.5	18.8	55.0	1.1	2.6
Dickinson	100.0	15.4	37.3	23.2	18.0	1.2	4.8	100.0	15.0	40.7	40.1	0.9	3.4
Dubuque	100.0	33.5	24.4	9.8	0.3	30.3	1.7	100.0	33.5	30.5	6.8	26.5	2.7
Emmet	100.0	17.3	22.2	34.6	25.0	0.2	0.6	100.0	16.9	28.5	51.8	0.8	2.0
Fayette	100.0	28.8	19.4	22.4	8.8	17.3	3.3	100.0	24.8	23.5	32.5	15.3	3.9

^aSales figures were not reported separately for corn and soybeans in 1978.^bPercentages may not add to 100.0 due to rounding error.^cData suppressed by the census bureau to protect confidentiality.

Table 4. Percentage of Market Value of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1982							1978					
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Grains ^a	Dairy Products	Other
Floyd	100.0	23.2	13.6	33.3	19.8	2.8	7.4	100.0	20.9	15.9	51.9	2.3	9.1
Franklin	100.0	29.1	16.8	29.8	18.0	1.2	5.1	100.0	25.8	24.4	44.1	1.4	4.3
Fremont	100.0	11.4	33.0	25.6	26.8	0.5	2.8	100.0	11.1	35.9	47.9	0.5	4.5
Greene	100.0	16.6	20.5	33.5	27.1	0.1	2.1	100.0	20.6	25.5	52.4	.	.
Grundy	100.0	26.0	19.7	30.5	18.8	2.1	2.9	100.0	22.0	28.0	46.6	2.0	1.4
Guthrie	100.0	22.9	31.3	23.4	16.5	0.8	5.1	100.0	21.6	33.4	39.8	1.1	4.1
Hamilton	100.0	23.7	14.0	26.0	18.3	0.2	17.7	100.0	21.3	16.4	42.9	0.2	19.2
Hancock	100.0	28.7	13.9	32.4	20.9	2.1	1.9	100.0	25.9	18.3	52.6	1.8	1.4
Hardin	100.0	29.4	23.6	26.6	17.1	0.6	2.7	100.0	25.4	29.1	41.7	0.7	3.1
Harrison	100.0	17.8	18.2	33.7	26.1	1.3	2.9	100.0	16.1	24.1	57.4	1.0	1.5
Henry	100.0	30.2	12.6	32.4	14.7	0.8	9.3	100.0	32.2	15.6	42.3	0.7	9.2
Howard	100.0	23.1	18.1	26.7	14.6	15.1	2.3	100.0	21.9	22.1	38.2	14.2	3.6
Humboldt	100.0	23.0	17.0	32.9	25.2	0.7	1.3	100.0	22.9	21.8	52.6	0.8	2.0
Ida	100.0	22.5	40.6	19.4	14.3	1.1	2.1	100.0	20.9	47.1	29.5	1.3	1.2
Iowa	100.0	32.2	29.7	25.8	7.8	2.7	1.7	100.0	33.7	32.5	29.5	2.3	2.0
Jackson	100.0	26.8	38.4	18.6	1.9	11.8	2.5	100.0	29.5	43.2	12.4	11.6	3.2
Jasper	100.0	31.4	24.4	24.1	15.3	3.0	1.9	100.0	31.8	28.7	34.4	3.2	1.8
Jefferson	100.0	28.7	18.5	29.3	18.8	2.3	2.5	100.0	35.4	20.4	39.2	1.7	3.4
Johnson	100.0	38.4	15.7	26.1	10.1	3.9	5.8	100.0	37.1	19.9	31.6	3.6	7.9
Jones	100.0	32.3	27.2	25.6	7.6	6.2	1.2	100.0	33.6	34.8	24.4	5.6	1.5
Keokuk	100.0	43.0	14.2	26.3	12.8	0.8	3.0	100.0	44.0	20.5	31.8	1.0	2.6
Kossuth	100.0	24.5	16.3	31.4	23.2	1.7	2.9	100.0	24.3	19.1	51.8	1.6	3.2
Lee	100.0	31.4	20.0	22.7	18.0	4.2	3.6	100.0	33.1	24.8	34.1	4.8	3.1
Linn	100.0	22.4	16.8	33.7	18.2	5.6	3.2	100.0	25.7	18.5	45.5	5.8	4.5
Louisa	100.0	26.2	12.4	39.6	18.7	.	.	100.0	25.8	18.8	53.2	.	.
Lucas	100.0	23.1	40.2	16.7	12.4	2.3	5.3	100.0	28.0	37.3	28.6	2.2	3.9
Lyon	100.0	26.9	39.8	14.0	13.0	4.9	1.5	100.0	24.6	43.0	26.0	4.8	1.6
Madison	100.0	29.9	30.7	19.7	16.5	0.7	2.5	100.0	31.5	30.3	35.1	0.9	2.2
Mahaska	100.0	41.6	24.5	15.4	13.6	2.4	2.6	100.0	39.7	30.2	24.5	1.9	3.7
Marion	100.0	39.2	21.2	16.1	13.7	4.1	5.8	100.0	39.1	25.6	25.2	3.9	6.2
Marshall	100.0	22.0	20.3	34.9	18.7	1.2	2.9	100.0	20.3	30.0	45.4	0.9	3.4
Mills	100.0	17.5	31.1	25.9	23.7	0.4	1.4	100.0	14.6	39.2	44.4	0.4	1.4
Mitchell	100.0	29.1	21.5	21.7	14.9	6.0	6.7	100.0	24.9	24.8	37.5	6.4	6.4
Monona	100.0	13.6	30.1	34.3	19.6	0.4	1.9	100.0	15.1	34.7	49.2	0.5	0.6

Table 4. Percentage of Market Value of Agricultural Products Sold in Iowa Counties, 1978-1992 (continued).

County	1982							1978					
	Total	Hogs & Pigs	Cattle & Calves	Corn	Soybeans	Dairy Products	Other	Total	Hogs & Pigs	Cattle & Calves	Grains ^a	Dairy Products	Other
Monroe	100.0	30.2	39.8	12.5	9.8	4.1	3.7	100.0	28.8	40.6	23.2	3.8	3.6
Montgomery	100.0	20.1	33.6	20.3	20.1	0.9	4.9	100.0	21.7	37.3	36.1	0.8	4.0
Muscatine	100.0	28.8	18.2	30.4	15.2	3.6	3.8	100.0	29.9	21.7	41.5	.	.
O'Brien	100.0	26.4	39.5	16.5	14.6	1.5	1.5	100.0	18.6	47.1	31.5	1.4	1.4
Osceola	100.0	22.2	29.3	22.5	19.8	2.3	3.8	100.0	19.5	36.4	39.9	2.2	2.1
Page	100.0	23.2	28.6	16.3	17.8	0.6	13.5	100.0	23.9	32.5	31.7	0.5	11.4
Palo Alto	100.0	23.2	18.2	32.0	23.8	1.0	1.9	100.0	22.5	22.7	52.1	1.0	1.7
Plymouth	100.0	31.6	35.9	15.2	12.7	2.0	2.5	100.0	29.5	42.5	24.2	1.7	2.1
Pocahontas	100.0	20.6	17.4	33.0	26.3	0.4	2.2	100.0	19.1	20.9	57.3	0.4	2.3
Polk	100.0	15.1	11.3	40.4	26.7	1.5	5.1	100.0	13.9	14.2	63.1	2.3	6.5
Pottawattamie	100.0	14.2	43.6	22.8	16.2	0.7	2.5	100.0	13.8	51.5	32.7	0.5	1.5
Poweshiek	100.0	26.1	24.2	27.7	17.2	1.9	2.9	100.0	28.8	27.9	36.5	2.5	4.2
Ringgold	100.0	21.7	41.4	13.7	17.4	2.9	2.9	100.0	26.6	39.3	30.4	1.5	2.2
Sac	100.0	25.1	38.4	17.9	15.2	1.0	2.4	100.0	24.9	42.4	29.7	1.1	1.9
Scott	100.0	28.0	20.3	34.8	8.6	4.4	3.7	100.0	31.4	24.6	36.1	4.6	3.5
Shelby	100.0	27.1	32.4	23.7	14.4	0.8	1.6	100.0	26.7	38.8	31.8	1.2	1.6
Sioux	100.0	23.4	54.1	8.6	6.7	4.8	2.4	100.0	18.9	61.8	13.1	4.1	2.1
Story	100.0	20.4	13.9	34.4	23.9	1.0	6.5	100.0	21.2	17.7	54.8	1.3	5.0
Tama	100.0	26.4	19.8	31.5	17.4	2.1	2.8	100.0	26.2	25.2	44.1	1.9	2.6
Taylor	100.0	25.4	32.0	18.2	20.2	0.8	3.4	100.0	27.0	34.1	35.4	1.1	2.3
Union	100.0	24.8	40.2	18.0	13.1	0.8	3.1	100.0	27.2	41.2	27.4	2.2	2.0
Van Buren	100.0	32.1	21.0	23.6	18.9	1.8	2.7	100.0	35.6	24.5	35.3	1.5	3.1
Wapello	100.0	25.1	20.5	28.5	19.6	1.5	4.7	100.0	24.2	27.0	44.4	1.5	2.9
Warren	100.0	30.3	23.7	21.1	15.7	4.1	5.2	100.0	30.3	24.0	36.6	3.6	5.5
Washington	100.0	46.6	12.3	20.6	11.7	1.1	7.6	100.0	48.1	15.1	29.5	0.9	6.4
Wayne	100.0	22.1	34.8	19.9	16.5	3.0	3.7	100.0	18.7	38.6	36.4	2.7	3.5
Webster	100.0	16.6	8.1	37.1	28.6	0.5	9.1	100.0	14.9	10.9	63.2	0.5	10.5
Winnebago	100.0	23.4	8.2	41.1	23.2	.	.	100.0	22.6	12.6	60.9	2.5	1.4
Winneshiek	100.0	26.4	20.9	13.2	2.3	33.4	3.8	100.0	27.4	25.6	14.6	27.5	4.8
Woodbury	100.0	20.1	37.5	24.6	12.5	0.7	4.5	100.0	18.8	41.9	33.1	0.7	5.5
Worth	100.0	22.0	16.3	35.0	21.3	3.0	2.4	100.0	20.8	19.8	52.8	2.1	4.5
Wright	100.0	19.7	11.4	38.3	28.8	0.3	1.5	100.0	19.9	14.4	64.2	0.4	1.1
State of Iowa	100.0	25.9	25.4	25.0	15.7	4.3	3.6	100.0	25.2	30.4	37.0	3.8	3.6

Corn sales ranged from less than \$5 million in three counties (Decatur, Lucas, Monroe) to more than \$70 million in Kossuth (Table 1). Fourteen other counties exceeded \$40 million, and 28 counties ranged from \$30 to \$39 million in corn sales. The distribution on soybean sales was similar to that for corn. Ten counties reported less than \$5 million in sales of soybeans, with only Allamakee below \$1 million. The highest figure (\$47 million) occurred in Kossuth; two others (Pottawattamie, Webster) were in the \$35-\$39 million range.

Sales of dairy products were below \$10 million in all but 9 of the 94 counties for which data were published. In two (Clayton, Dubuque), dairy product sales totaled more than \$40 million; four other counties (Allamakee, Delaware, Fayette, Winneshiek) ranged from \$25 to \$39 million dollars received from the sale of dairy products. All six of these counties are in the northeastern section of the state.

Sales of agricultural products not included in the five major categories listed in Table 1 exceeded \$10 million in 10 of the 94 counties for which data were reported. The highest figures in this category were Buena Vista's \$24 million and Hamilton's \$25 million.

Percentage Distribution of Agricultural Sales

In 1992, sales of corn for grain represented 26.6 percent of Iowa's total agricultural sales (Table 4). Another quarter (24.8%) of the total was from hogs and pigs, with 22.1 percent coming from sales of calves and cattle and 17.6 percent from soybeans. The remaining receipts were obtained from dairy products (4.2%) or other agricultural products (4.7%). The relatively even percentages of dollars obtained from the sale of hogs and pigs, cattle and calves, corn, and soybeans indicates the dominance of these commodities when compared with other agricultural products.

But the importance of the four major products varied somewhat by county. In 49 counties, sales of corn accounted for the largest percentage of total sales in 1992 (Figure 2). Cattle and calves had the highest percentage of sales in 25 counties. Hogs and pigs (22 counties) and dairy products (2) topped the list in other counties. One county (Crawford, 26.5%) had a tie between hogs/pigs and corn for the largest percentage of sales.

Agricultural sales were more closely tied to one commodity than others in some counties. Sixty percent of Decatur's 1992 sales were in cattle and calves. This was the only county where as much as 50 percent was in any one commodity. In eight others (Appanoose, Clarke, Jackson, Lucas, Lyon, Monroe, Sioux, Woodbury), the sale of cattle and calves totaled at least 40 percent of all sales dollars. In three (Delaware, Keokuk, Washington), the sale of hogs and pigs accounted for more than 40 percent of the total. The sale of corn for grain accounted for more than 40 percent of the total received from all agricultural sales in five counties (Cerro Gordo, Harrison, Polk, Winnebago, Wright).

Percentage distributions did not change dramatically across the 1978, 1982, 1987, and 1992 censuses (Figure 3). Sales of hogs and pigs varied from 24.8 percent (1992) to 27.9 percent (1987) of the total dollars obtained from sales of agricultural products. Sales of cattle and calves as a percentage of total sales declined somewhat; they accounted for 30.4 percent of all sales in 1978 and 22.1 percent in 1992. For the three censuses in which they were recorded separately, the market share of corn varied from 22.0 percent (1987) to 26.6 percent (1992), and soybean sales accounted from 15.7 percent (1982) to 17.6 percent (1987, 1992) of the total. Dairy products and the composite "other" category varied about one percentage point across the four censuses.

Note: These data are from the CENSUS OF AGRICULTURE (Volume 1: Geographic Area Series, Part 15: Iowa: State and County Data) published by the U.S. Bureau of the Census; the 1992 data became available in 1994.

Figure 1. Market value (in \$) of selected agricultural products sold in Iowa, 1982-1992.

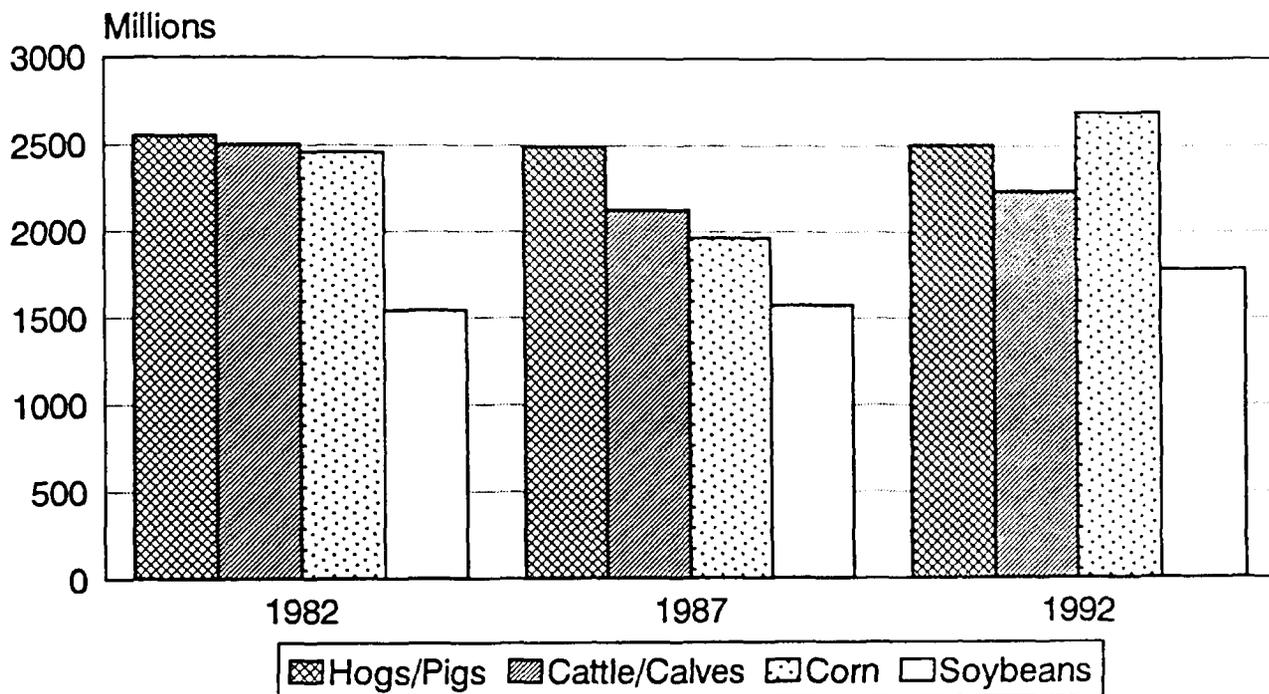
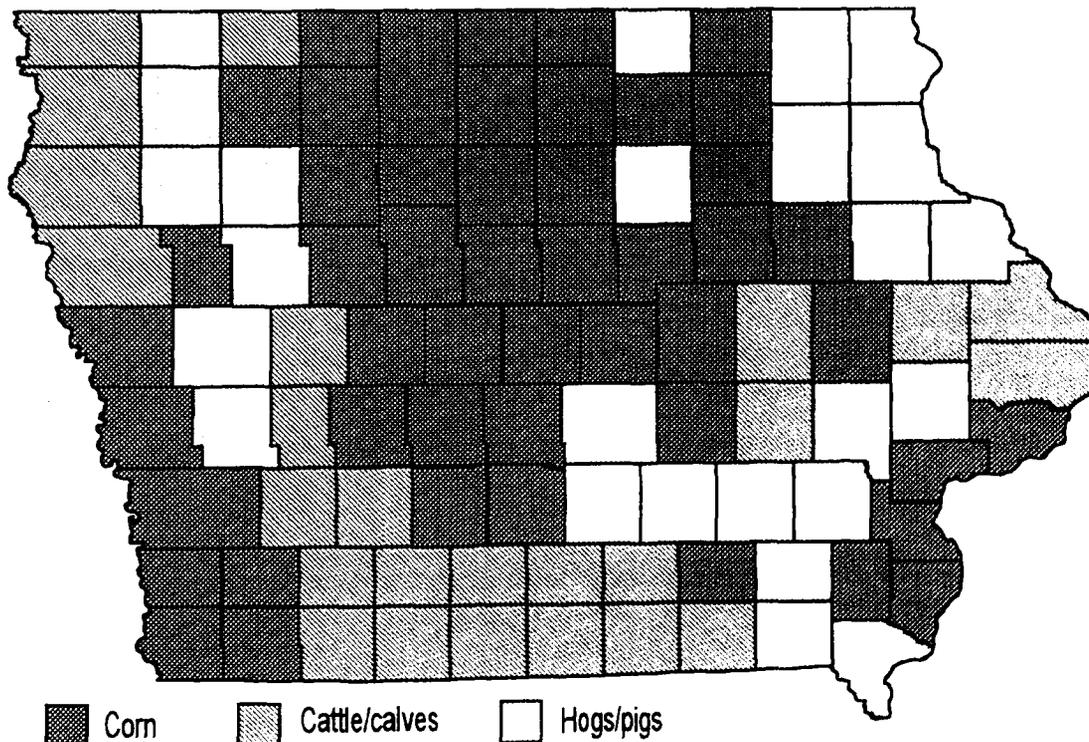
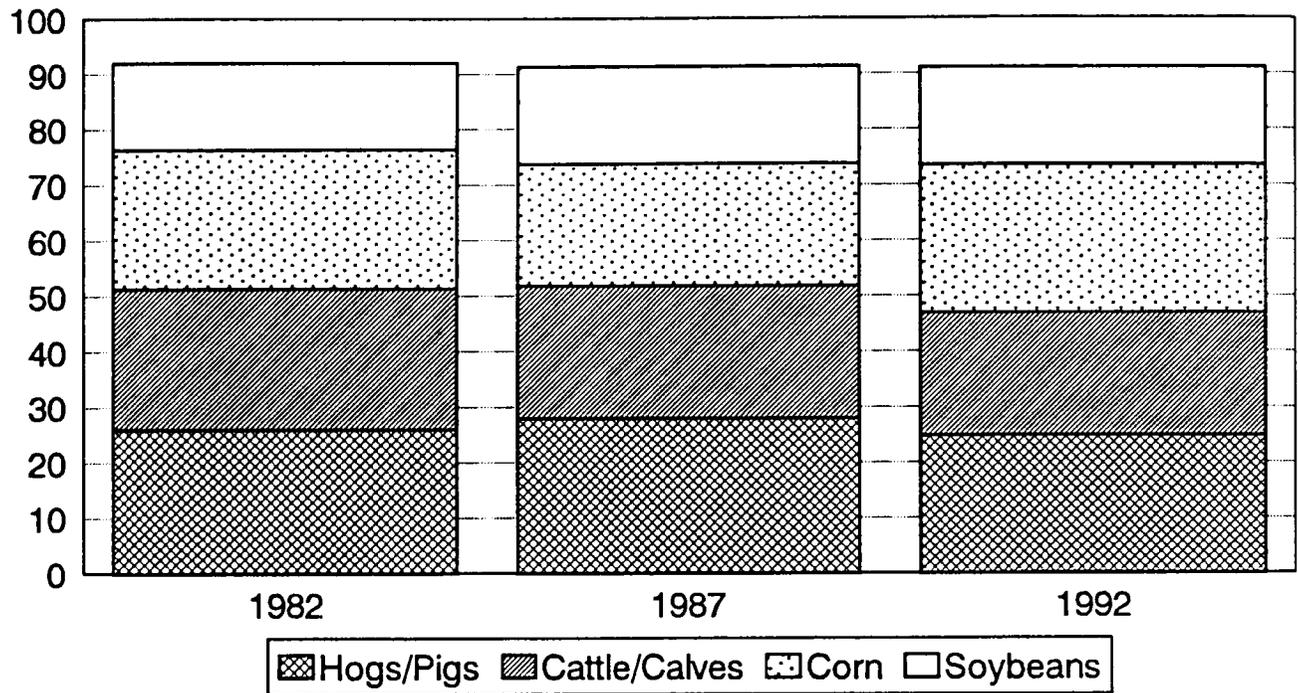


Figure 2. Category of agricultural products with highest market value, 1992.



Note: In Allamakee and Winneshiek counties in northeastern Iowa, dairy products accounted for the largest percentage. In Crawford, corn and cattle/calves tied for the highest percentage.

Figure 3. Percent of total market value of selected agricultural products sold in Iowa, 1982-1992.



Other Publications from Census Services

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

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 (320 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) 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. Extension community field specialists 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.

Other Publications

The first in a series of reports on selected aspects of Iowa's population was released recently. It is entitled "Iowa's Older Residents: Past, Present, and Future" (CS94-7, 105 pages). It is available for \$10.00 (\$10.50 for those subject to sales tax) from the address listed on the inside cover of this volume.

Single copies of the following reports also can be ordered at no charge from our office while our supplies last.

Births, Death, and Migration in Iowa: 1910-1992. CS94-6. 4 pages.

Selected Census of Agriculture Data for Iowa: 1964-1992. CS94-5. 2 pages.

Age Categories (1960-1990), Estimates (1991-1992), and Projections (2000-2010) for Iowa. CS94-4. 2 pages.

- Population (1850-1990) and Population Estimates (1992) for Incorporated Places in Iowa.
CS94-3. 19 pages.
- Population Counts for Iowa and Other States: 1890-1990 Censuses and 1991-1993 Estimates.
CS94-1. 2 pages.
- Births in Iowa by Race, Age, and Marital Status of Mother: 1980-1990. CS92-3. 10 pages.

Some "vintage" publications developed by Census Services are available through Publications Distribution, 112 Printing and Publications Building, Iowa State University, Ames, IA 50011. Indicate the Pm and/or CRD number(s) of the publication(s) you want. There is a charge if more than one copy of a publication is ordered. Information on charges is available from Publications Distribution (515-294-5247). Many of these reports can be reviewed at county extension offices.

Iowa and The World:

- Food Self-Sufficiency in the World: 1970-1985. August 1990 (6 pages). CRD 307.
- World Population Estimates (1980 and 1985) and Projections (1990 and 2000). June 1988 (12).
CRD 270.

Iowa and Other States:

- State Taxes Collected in Iowa and Other States: 1989. June 1990 (4 pages). CRD 305.
- Age Distributions in Iowa and the Nation: 1980 and 1989. June 1990 (8). CRD 304.
- Household Estimates for Iowa and Other States: 1980-1989. May 1990 (2). CRD 299.
- 1989 Population Estimates for Iowa and Other States. February 1990 (2). CRD 296.
- Projections for Black and White Residents of Iowa and the Nation, 1990-2000. October 1988 (2).
CRD 276.

State of Iowa:

- Rural and Urban Comparisons in Iowa: 1980-1988. August 1990 (16 pages). CRD 308.
- Age Distributions in Iowa: 1980-1989. May 1990 (2). CRD 298.
- Estimates of Minority Populations in Iowa: 1980-1985. October 1989 (2). CRD 293.
- Changes in the Characteristics of Iowa's Farm Operators: 1978-1987. September 1989 (4). CRD 292.
- Changes in Iowa Agriculture: 1978-1987. October 1989 (4). CRD 291.
- Preliminary Data on Iowa from the 1987 Census of Agriculture. March 1989 (2). CRD 283.
- Iowa's Population from 1910 to 1988: Births, Deaths, and Migration. March 1989 (4). CRD 282.
- Rural and Urban Per Capita Income in Iowa, 1969-1986. February 1989 (2). CRD 281.
- Farm, Rural Nonfarm, and Urban Residents of Iowa: 1980 and 50 Years of Perspective.
February 1988 (95). Pm-1312.

Iowa's Incorporated Places and Townships:

- Population in Iowa's Incorporated Places, 1850-1986. March 1988 (28). CRD 263.
- Population in Iowa's Townships: 1900-1980. February 1988 (28). CRD 261.
CS92-1. 2 pages.

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