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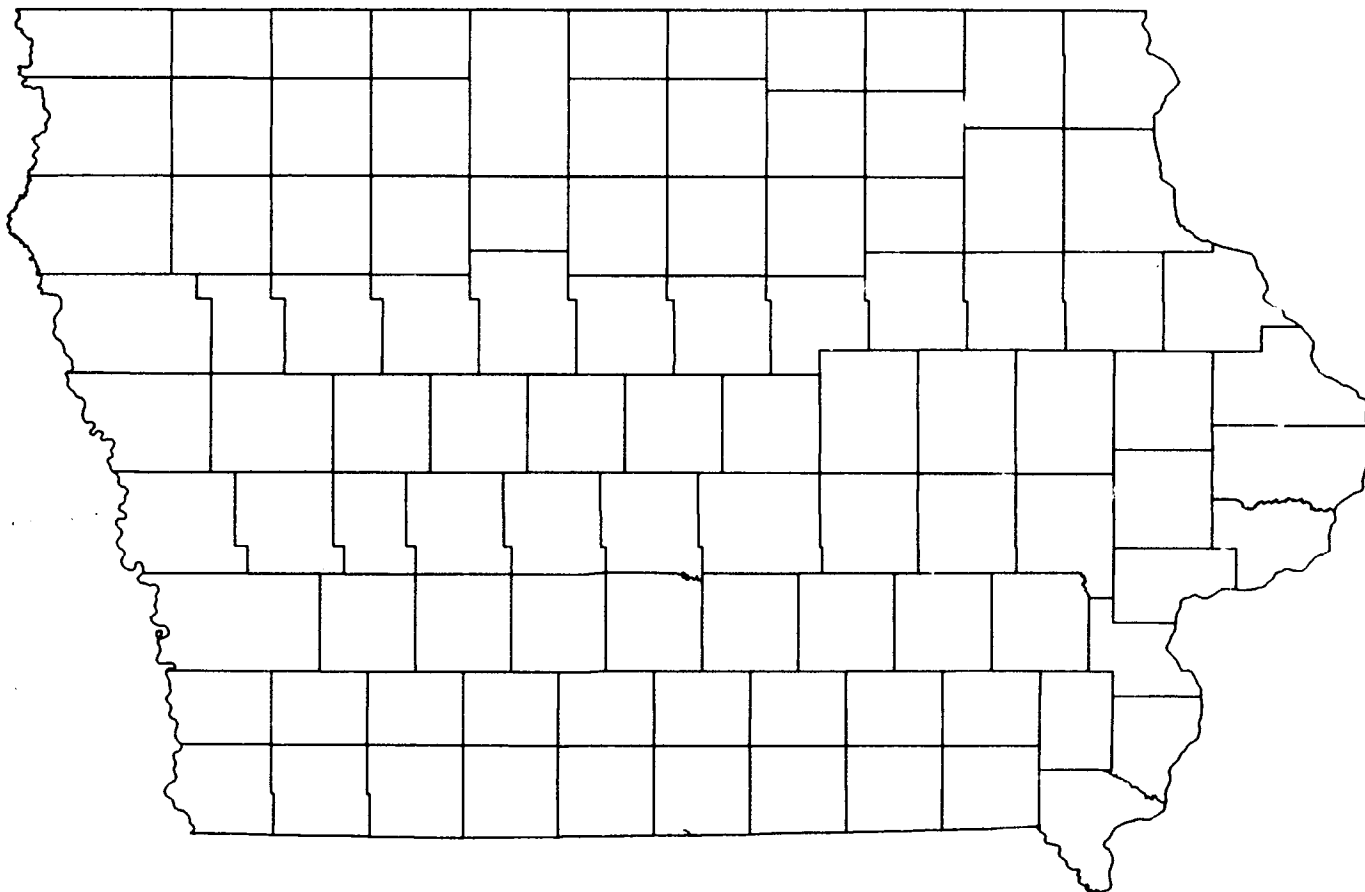


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# Iowa's Counties:

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

1995 Edition



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

October, 1995



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

#### Previous Editions:

##### **1994** (Out of Print)

If you don't have the 1994 edition, here are items it included that are not repeated in the 1995 edition:

Farm Numbers and Average Acres in Iowa's Counties: 1880-1992; Tenure and Type of Organization of Farms in Iowa's Counties: 1978-1992; Selected Characteristics of Farm Operators in Iowa's Counties: 1978-1992; Hogs and Pigs Sold in Iowa's Counties: 1978-1992; Fattened Cattle Sold for Slaughter in Iowa's Counties: 1978-1992; Corn and Soybeans Grown in Iowa's Counties: 1978-1992; Market Value of Agricultural Products Sold in Iowa's Counties: 1978-1992

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##### **1992** (Limited Copies Available)

If you don't have the 1992 edition, here are items it included that are not repeated in the 1993, 1994, or 1995 editions:

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**1991** (Out of Print; Available in Libraries)

**1990** (Out of Print; Available in Libraries)

**1989** (Out of Print; Available in Libraries)

Copies of the 1992 and 1993 editions are available while the supply lasts for \$31.50 each, which includes \$1.50 sales tax; units exempt from sales tax can remit \$30.00. Include a check made payable to Iowa State University with the order. Clearly specify what edition is requested. Copies of this 1995 edition are available at that price as well. Send your order to Census Services, 303 East Hall, Iowa State University, Ames, IA 50011; the phone number is 515-294-6482 and our fax number is 515-294-2303.

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## CONTENTS

<b>Introduction</b> .....	3
<b>Population and Housing Statistics:</b>	
Population Estimates in Iowa's Counties: 1991-1994 and 1981-1989 Revisions. ....	5
Projected Population in Iowa's Counties: 2000-2020 .....	11
Estimated Population (1994) and Population (1990) in Selected Subdivisions in Iowa's Counties.....	15
Historical Trends of the Population in Iowa's Counties: 1850-1990 .....	29
Historical Trends of the Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places.....	43
<b>Vital Statistics:</b>	
Births, Deaths, and Natural Change in Iowa's Counties: 1980-1994 .....	65
Estimated Birth and Death Rates in Iowa's Counties: 1980-1994.....	75
Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties: 1981-1994 .....	81
Infant Mortality in Iowa's Counties: 1980-1994 .....	95
Deaths Caused by Accident, Suicide, or Homicide in Iowa's Counties: 1980-1994 .....	101
Injuries and Fatalities on Farms in Iowa's Counties: 1990-1994.....	111
Marriages and Dissolutions in Iowa's Counties: 1980-1994.....	115
<b>Economic Statistics:</b>	
Estimated Employment and Unemployment in Iowa's Counties: 1978-1994.....	121
Per Capita Income in Iowa's Counties: 1973-1993 .....	135
Estimated Personal Income in Iowa's Counties: 1983-1993 .....	149
Sales Subject to Sales Tax in Iowa's Counties: 1980-1994 .....	181
County Business Patterns in Iowa: 1965-1993 .....	193
Number and Size of Farms in Iowa's Counties: 1975-1994 .....	211
Value of Farm Land in Iowa's Counties: 1950-1994 .....	223
Corn and Soybean Production in Iowa's Counties: 1975-1994.....	231
Federal Funds in Iowa's Counties: 1984-1994.....	253
Vehicles Registered in Iowa's Counties: 1984-1994.....	271

CONTENTS CONTINUED ON NEXT PAGE

**Statistics from the 1992 and Earlier Economic Censuses:**

Retail Trade in Iowa's Counties: 1977-1992.....	279
Wholesale Trade in Iowa's Counties: 1977-1992.....	303
Service Industries in Iowa's Counties: 1982-1992 .....	315

**Social Statistics from State Agencies:**

Food Stamps in Iowa's Counties: 1980-1994.....	333
Medical Services Provided Under Title XIX of the Social Security Act in Iowa's Counties: 1980-1994 .....	351
Aid to Families With Dependent Children in Iowa's Counties: 1980-1994 .....	367
Children in Foster Care in Iowa's Counties: 1982-1994.....	393
Founded Child Abuse in Iowa's Counties: 1982-1994.....	397
Public and Non-Public School Enrollment in Iowa's Counties: 1980-1994.....	401
Estimates of Public Secondary School Dropouts in Iowa's Counties: 1984-1994.....	409
Students Receiving Free or Reduced-Price School Meals in Iowa's Counties: 1984-1995 .....	417
Voting for Selected Candidates in U.S. and Iowa Elections in Iowa's Counties: 1980-1994.....	427

<b>Other Publications from Census Services.....</b>	<b>435</b>
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## Introduction

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

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This seventh edition of our county data book contains information of use to residents throughout Iowa. We're pleased that this annual publication has become one of the most frequently referenced data sources in the state. As we've done in previous editions, tables have been constructed from varied sources to serve as a reference for demographic and socioeconomic change in Iowa's counties. We've focused on the 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 2020. We are particularly interested in providing data that readers can use to determine trends that are occurring in Iowa; that's why all of the sections have data for at least two years.

This year we've included several items from the 1992 and earlier economic censuses--service industries and retail and wholesale trade. And we've provided population histories and an estimate for 1994 for incorporated places and the balance of population in counties.

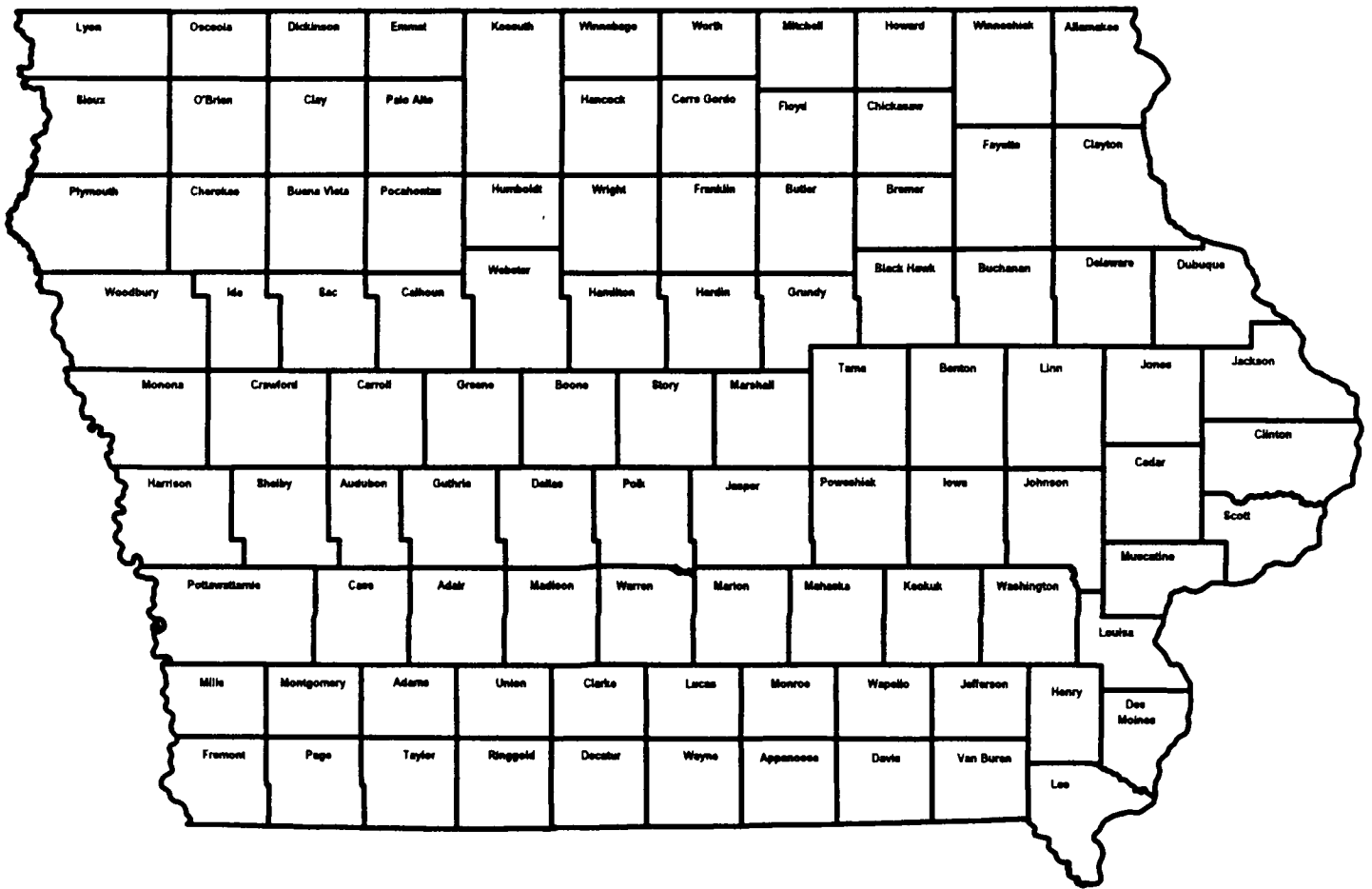
Each data set in this volume is accompanied by a commentary that provides a brief analysis of trends. Graphics highlight either changes in state figures or differences across the counties. Definitions are provided where necessary, as well as notes of caution and an indication of the source of the data.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

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

We know that the statistics we've included have never been published in one source; indeed, several never have been published previously for the general public. But we've undoubtedly missed other data sets for Iowa's counties that would be valuable to share in future editions. Thus, suggestions on data that would be useful would be appreciated. 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 (telephone) or 515-294-2303 (fax).

**Note:** Renea Miller is the clerk-typist for Census Services. She entered and verified data for several sections of this volume. In addition, she trained students on data entry procedures; she is our expert on using a word processing system to construct tables and format text. She does all of this while giving Census Services less than half of her time. We are delighted that she continues to be an important part of our small group of professionals. We also are indebted to Jessie Beebe for her work in adding data to our files, checking the accuracy of those numbers, and updating many of the reports. Finally, we appreciate the assistance of Kathryn Goudy in reviewing the contents of this volume as well as updating some sections; Liu Dong Wang also assisted in reviewing some sections.



## Population Estimates in Iowa's Counties: 1991-1994 and 1981-1989 Revisions

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

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The U.S. Bureau of the Census estimates the population of counties each year between the decennial censuses. The estimates for 1 July 1993 and 1994 were released in January of 1995. They are included with revised estimates for 1991-1992 and the 1990 census counts in Table 1. Iowa's population was estimated to have increased by more than 52,400 (1.9 percent) between 1 April 1990 (census date) and 1 July 1994 (Table 1).

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.

### 1990-1994 Population Change

Fifty-five counties were estimated to have gained residents between 1990 and 1994 (Figure 1), with increases greater than 1,000 in Benton, Dallas, Dubuque, Johnson, Linn, Muscatine, Polk, Scott, Sioux, Warren, and Woodbury. Gains of 18,750 in Polk and 8,045 in Linn were the only ones exceeding 5,000. Fifteen of the 55 counties with gains grew by fewer than 100 inhabitants. Percentage increases ranged from less than 1.0 percent in 24 counties to 3.0 percent or more in 17 others. Benton, Dallas, Johnson, Linn, Madison, Polk, and Warren grew by an average of at least a percentage point a year (4.0 percent or more from 1990 to 1994).

Declines occurred in 43 counties, although only in Hancock, Hardin, Kossuth, and Webster did the decreases exceed 400. Twenty-five lost 100-399 residents, while the remaining 14 reported declines of fewer than 100. Of the 43 counties with declines, 20 had losses of less than 1.0 percent; Adams, Audubon, Decatur, Hancock, Humboldt, and Pocahontas dropped by at least 3.0 percent from 1990 to 1994.

Greene County's population was estimated to be the same in 1990 and 1994. This was the only county in which the total was identical these two years.

The U.S. Bureau of the Census provided corrected 1990 counts for four counties (Cedar, Mahaska, Scott, Wapello). These small changes have been certified by the office of the Secretary of State in Iowa and the corrected totals are reported in Table 1. The corrected 1990 total for the state's population is included as well.

### 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 originally. These revised numbers have been used throughout this edition of the annual county data book as the base to calculate rates and percentages for the years between the 1980 and 1990 censuses.

Table 1. Estimated Population (1991-1994), Revised Population (1990), and Estimated Change (1990-1994) in Iowa Counties.

County	1 July 1994	1 July 1993	1 July 1992	1 July 1991	1 April 1990	Estimated Change 1990-1994	
						Number	Percent
Adair	8331	8428	8393	8403	8409	-78	-0.9
Adams	4553	4594	4659	4732	4866	-313	-6.4
Allamakee	13941	13963	13914	13857	13855	86	0.6
Appanoose	13744	13851	13822	13744	13743	1	0.0
Audubon	6957	7012	7121	7236	7334	-377	-5.1
Benton	23683	23343	22789	22576	22429	1254	5.6
Black Hawk	123701	124407	124375	124615	123798	-97	-0.1
Boone	25279	25239	25322	25369	25186	93	0.4
Bremer	23119	23168	23061	22942	22813	306	1.3
Buchanan	21303	21151	20980	20921	20844	459	2.2
Buena Vista	20078	20261	20090	19961	19965	113	0.6
Butler	15719	15699	15791	15832	15731	-12	-0.1
Calhoun	11574	11535	11532	11511	11508	66	0.6
Carroll	21465	21607	21475	21422	21423	42	0.2
Cass	15112	15048	15021	15043	15128	-16	-0.1
Cedar	17551	17521	17678	17493	17444	107	0.6
Cerro Gordo	46560	46598	46843	47082	46733	-173	-0.4
Cherokee	13830	13927	13984	14066	14098	-268	-1.9
Chickasaw	13382	13327	13272	13247	13295	87	0.7
Clarke	8173	8357	8354	8275	8287	-114	-1.4
Clay	17634	17691	17742	17623	17585	49	0.3
Clayton	18846	18857	18772	18866	19054	-208	-1.1
Clinton	50940	51263	51258	50978	51040	-100	-0.2
Crawford	16492	16510	16669	16671	16775	-283	-1.7
Dallas	32083	31574	30929	30352	29755	2328	7.8
Davis	8465	8399	8319	8317	8312	153	1.8
Decatur	8075	8060	8138	8140	8338	-263	-3.2
Delaware	18331	18310	18309	18160	18035	296	1.6
Des Moines	42866	42897	42862	42786	42614	252	0.6
Dickinson	15474	15402	15249	15197	14909	565	3.8
Dubuque	88214	87987	87349	86807	86403	1811	2.1
Emmet	11268	11404	11609	11604	11569	-301	-2.6
Fayette	21907	21954	21976	22005	21843	64	0.3
Floyd	16699	16814	16949	16857	17058	-359	-2.1
Franklin	11078	11247	11182	11316	11364	-286	-2.5
Fremont	8213	8158	8190	8165	8226	-13	-0.2
Greene	10045	10129	10093	10059	10045	0	0.0
Grundy	12127	12055	12076	11956	12029	98	0.8
Guthrie	11285	11207	11178	11131	10935	350	3.2
Hamilton	16027	16060	16131	16045	16071	-44	-0.3
Hancock	12138	12183	12387	12493	12638	-500	-4.0
Hardin	18592	18613	18799	18953	19094	-502	-2.6
Harrison	14939	14822	14700	14680	14730	209	1.4
Henry	19703	19553	19606	19472	19226	477	2.5
Howard	9881	9901	9900	9865	9809	72	0.7
Humboldt	10374	10474	10563	10675	10756	-382	-3.6
Ida	8290	8314	8287	8283	8365	-75	-0.9
Iowa	14915	14862	14769	14753	14630	285	1.9
Jackson	20263	20109	20061	19889	19950	313	1.6
Jasper	35095	34983	34859	34750	34795	300	0.9

Table 1. Estimated Population (1991-1994), Revised Population (1990), and Estimated Change (1990-1994) in Iowa Counties (continued).

County	1 July 1994	1 July 1993	1 July 1992	1 July 1991	1 April 1990	Estimated Change 1990-1994	
						Number	Percent
Jefferson	16856	16769	16490	16386	16310	546	3.3
Johnson	100001	99021	98076	96746	96119	3882	4.0
Jones	19950	19844	19761	19576	19444	506	2.6
Keokuk	11515	11624	11611	11625	11624	-109	-0.9
Kossuth	18179	18159	18226	18302	18591	-412	-2.2
Lee	39016	38890	39064	38916	38687	329	0.9
Linn	176812	174915	173018	170639	168767	8045	4.8
Louisa	11689	11732	11427	11617	11592	97	0.8
Lucas	8985	9056	9049	9119	9070	-85	-0.9
Lyon	11893	11965	11975	11948	11952	-59	-0.5
Madison	13034	12888	12789	12577	12483	551	4.4
Mahaska	21760	21629	21508	21458	21532	228	1.1
Marion	30663	30411	30230	30153	30001	662	2.2
Marshall	38147	37914	37787	38132	38276	-129	-0.3
Mills	13644	13384	13376	13267	13202	442	3.3
Mitchell	11036	11003	10848	10925	10928	108	1.0
Monona	10065	10048	10011	9961	10034	31	0.3
Monroe	8145	8159	8200	8163	8114	31	0.4
Montgomery	12023	12055	11911	11976	12076	-53	-0.4
Muscatine	41237	41184	40841	40548	39907	1330	3.3
O'Brien	15374	15396	15482	15441	15444	-70	-0.5
Osceola	7141	7191	7217	7273	7267	-126	-1.7
Page	16739	16650	16667	16850	16870	-131	-0.8
Palo Alto	10421	10427	10515	10585	10669	-248	-2.3
Plymouth	24279	23855	23655	23444	23388	891	3.8
Pocahontas	9129	9162	9306	9391	9525	-396	-4.2
Polk	345890	342616	337955	332630	327140	18750	5.7
Pottawattamie	83387	83652	83521	82870	82628	759	0.9
Poweshiek	19018	18896	18945	18947	19033	-15	-0.1
Ringgold	5413	5390	5393	5393	5420	-7	-0.1
Sac	12141	12059	12169	12166	12324	-183	-1.5
Scott	155948	155569	155093	153321	150973	4975	3.3
Shelby	13116	13161	13238	13273	13230	-114	-0.9
Sioux	31027	30836	30412	30114	29903	1124	3.8
Story	74835	74909	74364	74070	74252	583	0.8
Tama	17784	17602	17433	17381	17419	365	2.1
Taylor	7118	7077	7058	7072	7114	4	0.1
Union	12468	12563	12559	12667	12750	-282	-2.2
Van Buren	7717	7766	7731	7736	7676	41	0.5
Wapello	35917	36054	35913	35749	35696	221	0.6
Warren	38505	37937	37252	36628	36033	2472	6.9
Washington	20279	20275	20203	19897	19612	667	3.4
Wayne	6939	6990	6978	7037	7067	-128	-1.8
Webster	39497	39902	40122	40244	40342	-845	-2.1
Winnebago	11936	11851	11921	11978	12122	-186	-1.5
Winneshiek	21008	21043	21003	21036	20847	161	0.8
Woodbury	101187	100850	99946	99257	98276	2911	3.0
Worth	7874	7966	7883	7883	7991	-117	-1.5
Wright	14201	14171	14263	14153	14269	-68	-0.5
State of Iowa	2829252	2821294	2807782	2791695	2776831	52421	1.9

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	17444	17380	17330	17480	17820	18210	18430	18580	18520	18620	18635
Cerro Gordo	46733	46850	47220	47360	48160	48500	48060	48070	48220	48420	48458
Cherokee	14098	14140	14280	14510	14850	15270	15660	15850	15870	16130	16238
Chickasaw	13295	13420	13540	13720	14180	14490	14900	15150	15210	15320	15437
Clarke	8287	8330	8410	8350	8290	8390	8490	8570	8720	8650	8612
Clay	17585	17450	17200	17320	17770	18390	18950	19200	19220	19400	19576
Clayton	19054	19220	19370	19410	19700	20180	20510	20600	20810	20950	21098
Clinton	51040	51060	51370	51720	52450	53590	54520	55330	56360	56680	57122
Crawford	16775	17060	17480	17610	17740	18330	18740	18810	18840	18890	18935
Dallas	29755	29320	29180	28810	28880	29250	29180	29320	29180	29360	29513
Davis	8312	8300	8380	8560	8690	8790	8930	8990	9030	9110	9104
Decatur	8338	8490	8460	8560	8780	8910	9100	9280	9580	9750	9794
Delaware	18035	18050	17990	17930	18060	18520	18760	18730	18720	18850	18933
Des Moines	42614	42610	42810	42950	43220	43850	44360	44710	45420	46120	46203
Dickinson	14909	14850	14730	14660	14820	15050	15220	15250	15390	15570	15629
Dubuque	86403	86650	87360	87130	87770	89100	89620	90300	91990	93310	93745
Emmet	11569	11540	11680	11650	11900	12410	12760	12830	13140	13270	13336
Fayette	21843	21850	21880	22000	22600	23380	24150	24460	24840	25060	25488
Floyd	17058	17310	17400	17540	17890	18520	18780	19000	19100	19350	19597
Franklin	11364	11400	11540	11800	12100	12400	12510	12720	12790	12900	13036
Fremont	8226	8250	8440	8670	8670	8830	9030	9060	9170	9250	9401
Greene	10045	10170	10310	10520	10820	11200	11490	11710	11790	11980	12119
Grundy	12029	12120	12280	12430	12800	13250	13510	13780	13950	14190	14366
Guthrie	10935	10920	11070	11050	11280	11420	11600	11550	11690	11860	11983
Hamilton	16071	16300	16460	16570	16840	16990	17200	17430	17590	17840	17862
Hancock	12638	12830	12870	12900	13090	13380	13500	13410	13580	13660	13833
Hardin	19094	19220	19390	19640	20280	20880	21320	21320	21550	21660	21776
Harrison	14730	14830	15080	15180	15340	15450	15630	15810	16040	16160	16348
Henry	19226	19050	19120	19060	18970	18840	18560	18550	18690	18810	18890
Howard	9809	9910	10060	10140	10290	10570	10860	10780	10910	11000	11114
Humboldt	10756	10760	10870	10950	11270	11620	11830	11940	11970	12180	12246
Ida	8365	8390	8340	8380	8600	8750	8800	8800	8750	8890	8908
Iowa	14630	14660	14700	14700	14920	15080	15120	15100	15160	15410	15429
Jackson	19950	20190	20580	20810	21120	21570	21860	21990	22080	22300	22503
Jasper	34795	34760	34750	34570	34640	34720	35030	35240	35710	36050	36425

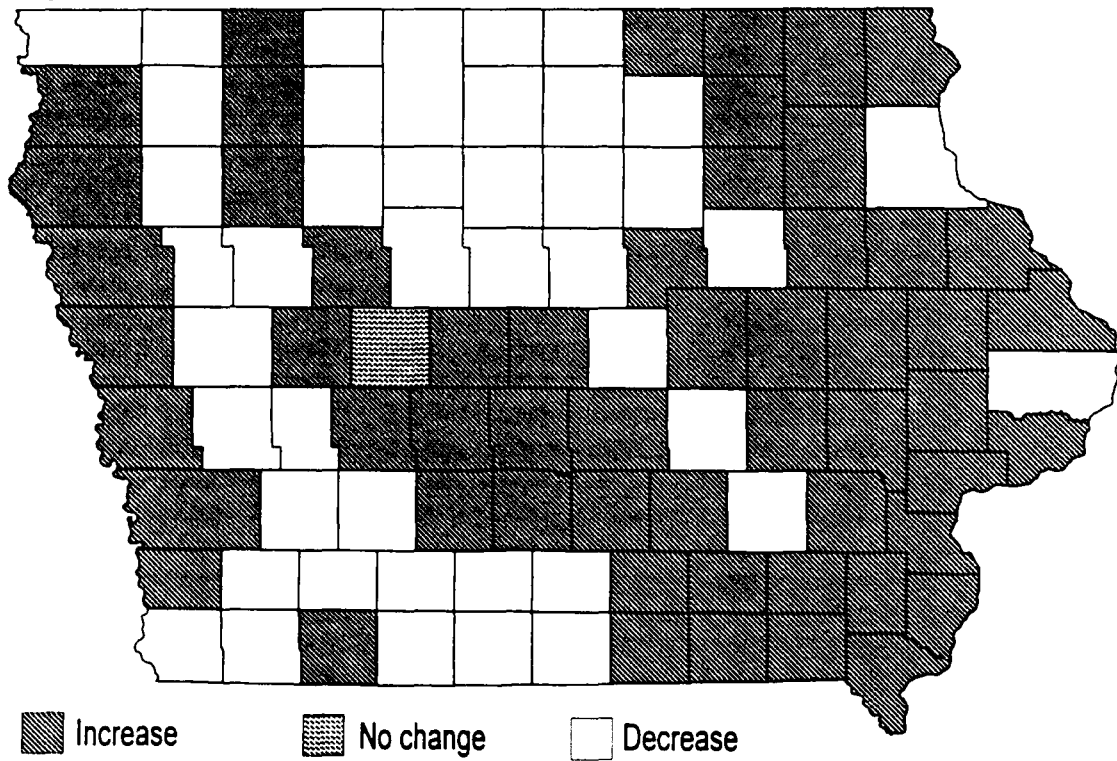
Table 2. Revised Estimates (1 July 1981-1989) and Census Counts (1 April 1980, 1990) of Population in Iowa's Counties (continued).

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	21532	21410	21560	21470	21640	21850	22140	22010	22280	22560	22867
Marion	30001	30040	29890	29590	29460	29520	29630	29680	29930	29830	29669
Marshall	38276	38280	38410	38760	39660	40280	40980	41530	41830	41830	41652
Mills	13202	13240	13320	13210	13230	13340	13310	13370	13380	13520	13406
Mitchell	10928	11010	11110	11140	11260	11430	11590	11840	11940	12110	12329
Monona	10034	10160	10300	10340	10530	10840	11210	11420	11400	11520	11692
Monroe	8114	8100	8150	8250	8360	8590	8700	8850	8950	9120	9209
Montgomery	12076	12110	12060	12090	12350	12840	13170	13130	13150	13360	13413
Muscatine	39907	39760	39740	39540	40020	40420	40850	41070	41400	41000	40436
O'Brien	15444	15520	15560	15610	15930	16320	16700	16920	16860	16970	16972
Osceola	7267	7260	7350	7360	7540	7760	8060	8130	8130	8260	8371
Page	16870	16840	16740	16970	17300	17790	18180	18360	18610	18920	19063
Palo Alto	10669	10760	10850	10980	11370	11890	12160	12450	12510	12670	12721
Plymouth	23388	23450	23690	23560	23600	23690	24080	24290	24430	24880	24743
Pocahontas	9525	9720	9870	10010	10370	10740	10840	10930	10970	11160	11369
Polk	327140	322470	317120	312850	309720	308350	307090	305720	304570	304870	303170
Pottawattamie	82628	82780	83330	83800	84180	84830	85620	85470	85940	86320	86561
Poweshiek	19033	19060	18920	18750	18700	18890	18820	19050	19100	19270	19306
Ringgold	5420	5440	5430	5430	5570	5790	5970	6000	6110	6080	6112
Sac	12324	12350	12380	12560	12750	13080	13280	13460	13740	14010	14118
Scott	150973	150040	150220	150910	152610	154570	156280	157400	159620	160180	160022
Shelby	13230	13280	13420	13470	13800	14200	14700	14630	14780	14830	15043
Sioux	29903	29880	29980	29600	29900	30440	30610	30700	30530	30650	30813
Story	74252	73720	73880	73320	74020	74050	73410	73320	72300	72870	72326
Tama	17419	17490	17680	17810	18220	18660	19000	19040	19210	19340	19533
Taylor	7114	7190	7240	7410	7590	7840	8090	8210	8310	8320	8353
Union	12750	12640	12750	12860	12930	13140	13490	13660	13750	13850	13858
Van Buren	7676	7670	7850	7870	7990	8120	8300	8420	8520	8630	8626
Wapello	35696	35680	35590	36240	37140	38160	38820	39070	39380	39940	40241
Warren	36033	35660	35180	35040	34900	34780	34780	34720	34730	34980	34878
Washington	19612	19600	19640	19520	19620	19770	19810	19870	20070	20190	20141
Wayne	7067	7060	7080	7230	7360	7520	7820	7870	7960	8090	8199
Webster	40342	40510	40690	41110	41680	42690	43470	44110	44900	45490	45953
Winnebago	12122	12130	12050	12030	12320	12540	12630	12550	12550	12680	13010
Winneshiek	20847	21040	21050	20960	21140	21430	21690	21760	21820	21930	21876
Woodbury	98276	97750	97570	96800	97530	98910	99740	99810	100550	101190	100884
Worth	7991	8100	8170	8190	8480	8700	8810	8870	8950	9020	9075
Wright	14269	14350	14320	14430	14830	15400	15800	15770	15850	16080	16319

State of Iowa 2776831 2770720\* 2768550\* 2767130\* 2792050\* 2829780\* 2858690\* 2870650\* 2888250\* 2908050\* 2913808

\*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. Differences between the bureau's estimates for the state and the county sums are due to rounding at the county level.

Figure 1. Estimated population change, 1990-1994.





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

Willis Goudy, Iowa State University

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Projections of the population of Iowa and its counties require the use of past trends, current information, and assumptions of what may occur in the future. Three sets of projections are reported in Table 1, each of which is based on assumptions concerning possible demographic or economic trends 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 1994, Woods and Poole Economics, Inc. (1794 Columbia Road, NW; Washington, DC 20009), also provided projections to 2020. 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 2,884,000 to 2,965,000; the more recent the projection, the lower the figure. The two projections that are available for 2010 differ by 35,000, with the more recent Woods and Poole (2,965,000) projection higher than that from the Iowa Department of Transportation (2,930,000). The only projection for 2020 exceeds 3 million.

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 suggest that 44 will gain while 55 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 57 (Woods and Poole) or 58 (Iowa Department of Transportation) counties projected to decline even though the state's total population is expected to increase. From 2010 to 2020, the Woods and Poole projections suggest that 53 will decline while 46 will gain.

Percentage changes will be relatively small in most counties according to the Woods and Poole projections. For example, 50 counties are expected to change by less than three percentage points in either direction between 1990 and 2000. From 2000 to 2010, 56 may change by less than three points; this could increase slightly to 58 between 2010 and 2020. Gains of at least 10 percent could occur in Dallas, Dickinson, Johnson, Linn, Marion, Polk, and Warren in the 1990s. In the first and second decades of the next century, Dickinson and Johnson are projected to increase by at least 10 percent. No county is expected to decline by at least 10 percent in any of these three decades.

**Note:** Caution is urged in examining population projections. Assumptions underlying the three sets reported here vary substantially; so does the time at which they were constructed. 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.

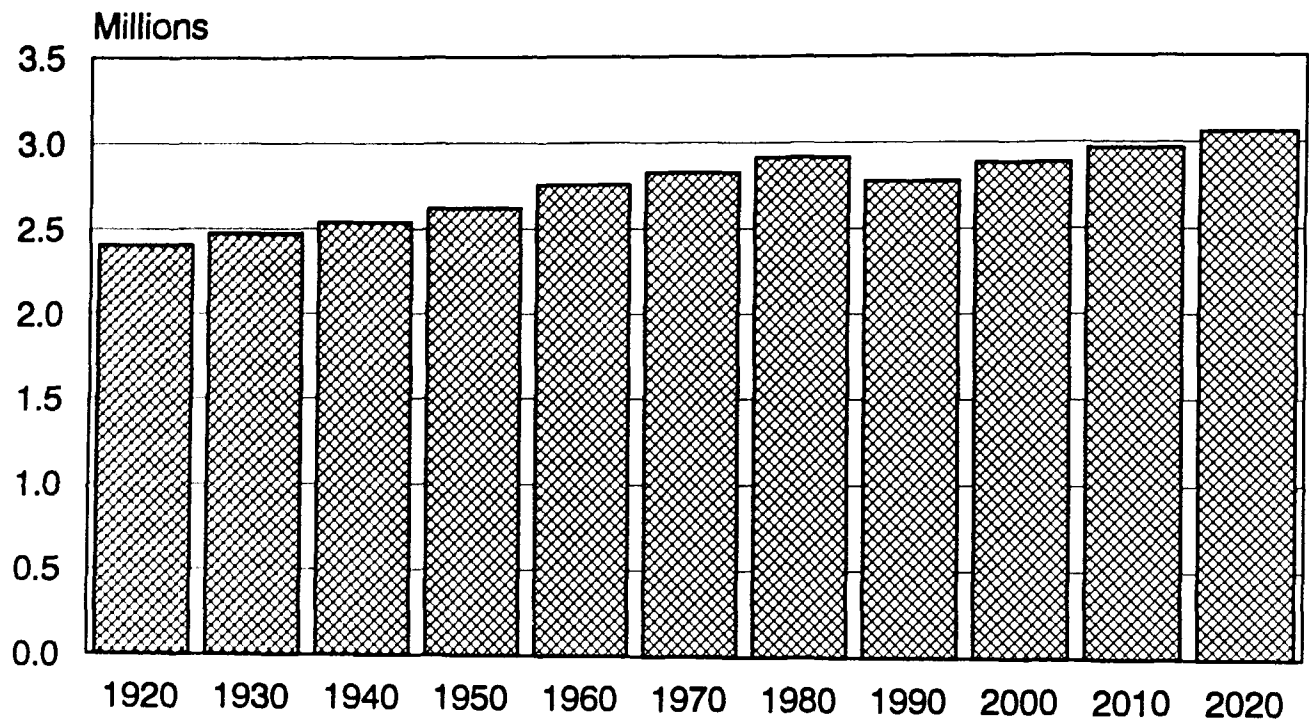
Table 1. Residents, 1990, and Projected Residents, 2000-2020, in Iowa Counties.

County	Census	State Demographer (1984)	Iowa Dept. of Transportation (1987)		Woods and Poole Economics (1994)		
	1990	2000	2000	2010	2000	2010	2020
Adair	8409	8300	8240	7750	8260	8180	8130
Adams	4866	5200	5030	4750	4630	4590	4540
Allamakee	13855	15000	17760	19420	14850	13780	13760
Appanoose	13743	14400	13290	12410	13580	13280	13060
Audubon	7334	8100	7460	7020	7040	6920	6810
Benton	22429	22400	23040	22940	23910	25250	26580
Black Hawk	123798	139400	120620	113790	127690	129400	131420
Boone	25186	25500	24730	24250	25560	25820	26170
Bremer	22813	25600	27270	28830	22500	21970	21530
Buchanan	20844	25000	26260	28360	20520	19890	19330
Buena Vista	19965	21600	20370	20340	20650	21330	22110
Butler	15731	17000	17990	18310	15070	14220	13470
Calhoun	11508	12400	11180	10240	11110	10680	10280
Carroll	21423	23900	24350	25300	21280	21000	20820
Cass	15128	17500	16170	15940	14760	14370	14010
Cedar	17444	18000	20380	21510	18830	20300	21800
Cerro Gordo	46733	47400	47430	47340	45410	43390	41620
Cherokee	14098	15300	14670	14070	13920	13780	13700
Chickasaw	13295	15000	16640	17440	13420	13610	13800
Clarke	8287	10000	9270	9710	8570	8810	9110
Clay	17585	18000	16850	15770	18310	18910	19620
Clayton	19054	21200	23520	25060	19050	19310	19660
Clinton	51040	57400	50760	48270	50920	50260	49760
Crawford	16775	21200	21570	23230	16590	16510	16490
Dallas	29755	28900	33450	35930	33620	36850	40240
Davis	8312	10400	10250	10970	8380	8420	8480
Decatur	8338	8600	7550	6680	7890	7550	7300
Delaware	18035	20400	24370	27900	18550	18720	18980
Des Moines	42614	43300	41470	39640	42660	42130	41750
Dickinson	14909	15800	15230	15170	17510	20290	23190
Dubuque	86403	92300	93870	94770	88360	89190	90360
Emmet	11569	13400	10640	9590	11480	11200	10990
Fayette	21843	23900	23240	22390	21150	20290	19520
Floyd	17058	18300	18670	18380	16350	15590	14930
Franklin	11364	11500	12140	11820	10700	10120	9570
Fremont	8226	9000	8160	7680	8050	7880	7710
Greene	10045	11400	10160	9380	9750	9320	8940
Grundy	12029	13000	11930	10970	11620	11080	10590
Guthrie	10935	10600	10510	9930	11060	10920	10800
Hamilton	16071	17200	15510	14580	15830	15370	14990
Hancock	12638	13700	15000	15760	12150	11890	11680
Hardin	19094	21000	20610	20230	17830	16610	15540
Harrison	14730	16000	16300	16420	14560	14300	14110
Henry	19226	17700	18760	18850	20230	21060	22000
Howard	9809	10900	11850	12340	9360	8710	8110
Humboldt	10756	11600	11670	11500	10500	10420	10400
Ida	8365	8200	9180	9400	8340	8350	8420
Iowa	14630	15000	14250	13820	15320	15910	16520
Jackson	19950	22900	24090	25150	20580	21200	21920
Jasper	34795	35100	35530	35410	35060	34980	35040

Table 1. Residents, 1990, and Projected Residents, 2000-2020, in Iowa Counties (continued).

County	Census	State Demographer (1984)	Iowa Dept. of Transportation (1987)		Woods and Poole Economics (1994)		
	1990	2000	2000	2010	2000	2010	2020
Jefferson	16310	16200	16800	17200	16860	17230	17680
Johnson	96119	93700	85240	87830	108520	121820	135990
Jones	19444	20400	22360	23610	20830	22000	23180
Keokuk	11624	11900	11700	11230	11400	11120	10890
Kossuth	18591	21600	20280	19700	17750	17130	16610
Lee	38687	42800	39780	38560	39340	39540	39920
Linn	168767	167400	166690	166640	186150	201280	217110
Louisa	11592	13300	13070	13740	11680	11950	12280
Lucas	9070	10800	9810	9650	8880	8590	8370
Lyon	11952	12700	14200	15030	11840	11650	11560
Madison	12483	12800	13450	14030	13230	13790	14410
Mahaska	21532	22200	22960	23210	21710	21940	22240
Marion	30001	32500	33810	36410	33010	36300	39800
Marshall	38276	44600	40030	39600	38390	38970	39730
Mills	13202	15600	15120	16190	14110	14940	15810
Mitchell	10928	11300	10700	10050	10490	10100	9750
Monona	10034	10700	9470	8600	9910	9850	9820
Monroe	8114	8900	7940	7440	8050	7820	7620
Montgomery	12076	12200	12240	11790	12060	12300	12580
Muscatine	39907	51000	49120	54620	42370	44010	45860
O'Brien	15444	17100	16450	16340	15420	15370	15390
Osceola	7267	7800	7590	7290	7100	6940	6800
Page	16870	18500	16020	14810	16430	16130	15890
Palo Alto	10669	12100	10760	9990	10330	10080	9870
Plymouth	23388	24000	24590	24730	23970	24220	24570
Pocahontas	9525	10500	10300	9890	8990	8650	8320
Polk	327140	326900	322320	335310	365290	396570	429590
Pottawattamie	82628	93700	94720	99970	84310	84250	84450
Poweshiek	19033	17800	17950	17460	19160	19300	19490
Ringgold	5420	5600	5490	5240	5300	5250	5210
Sac	12324	12900	11500	10470	11650	11040	10490
Scott	150973	176000	162060	164540	161950	169400	177680
Shelby	13230	14300	15790	16320	12990	12620	12310
Sioux	29903	32500	37990	42560	30830	31250	31820
Story	74252	78500	71020	71000	78330	82780	87580
Tama	17419	18800	19650	19880	17000	16430	15950
Taylor	7114	8300	8020	7930	7000	7020	7040
Union	12750	14400	12160	11480	12360	12130	11960
Van Buren	7676	8500	8410	8380	7590	7370	7160
Wapello	35696	36800	35960	34290	34920	33630	32440
Warren	36033	37800	43250	48590	40480	44220	48140
Washington	19612	20600	20650	21100	21510	23170	24930
Wayne	7067	7800	6260	5520	6910	6850	6800
Webster	40342	42900	36090	32260	39060	37620	36320
Winnebago	12122	11300	13410	13730	11460	10860	10330
Winneshiek	20847	22900	26690	29740	21560	22070	22650
Woodbury	98276	105500	97900	97300	101490	102670	104330
Worth	7991	8100	8680	8560	7510	7060	6660
Wright	14269	15700	14090	13210	14280	14260	14320
State of Iowa	2776831	2965100	2899780	2929730	2884120	2965470	3059350

Figure 1. Population and projected population in Iowa, 1920-2020.



## **Estimated Population (1994) and Population (1990) in Selected Subdivisions in Iowa's Counties**

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The U.S. Bureau of the Census estimates the population of incorporated places in even-numbered years between decennial censuses. Figures are released for places by county along with the number living outside of places (balance of county) (Table 1). Some incorporated places cross county boundaries; such places are designated by (part) in the first table. Summary totals across the parts are reported for these incorporated places in Table 2.

The estimates for 1 July 1994 were released in September of 1995. Some 1990 numbers have been corrected from reports published previously. Administrative records (namely, changes of address on federal tax returns) were used to create that part of the estimate due to migration, with the differences between 1990 and 1994 calculated for each incorporated place. Birth and death data, also used to generate estimates, were available only for counties, however; the census bureau allocated births and deaths occurring within a county across all incorporated places and areas outside such places within that county.

Research by the U.S. Bureau of the Census on estimates reported in the 1980s indicated that these numbers are subject to error. The chance of errors tends to increase the smaller the total population in the county and incorporated place. Based on potential problems resulting from the method used to generate them, great caution is urged in using these estimates.

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994.

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Adair County	8331	8409	Benton County (continued)		
Adair (part)	828	830	Keystone	591	568
Bridgewater	190	209	Luzerne	104	110
Casey (part)	13	15	Mount Auburn	166	134
Fontanelle	683	712	Newhall	882	854
Greenfield	2039	2074	Norway	602	583
Orient	357	376	Shellsburg	1015	765
Stuart (part)	518	529	Urbana	726	595
Balance of Adair County	3703	3664	Van Horne	791	695
Adams County	4553	4866	Vinton	5570	5103
Carbon	58	60	Walford (part)	393	290
Corning	1726	1806	Balance of Benton County	7938	8269
Lenox (part)	0	0	Black Hawk County	123703	123798
Nodaway	139	153	Cedar Falls	33908	34298
Prescott	224	287	Dunkerton	799	746
Balance of Adams County	2405	2560	Elk Run Heights	1204	1088
Allamakee County	13942	13855	Evansdale	4583	4638
Harpers Ferry	293	284	Gilbertville	737	748
Lansing	978	1007	Hudson	2005	2037
New Albin	495	534	Janesville (part)	139	133
Postville (part)	1497	1465	La Porte City	2214	2128
Waterville	134	140	Raymond	594	619
Waukon	4288	4019	Waterloo	66537	66467
Balance of Allamakee County	6257	6406	Balance of Black Hawk County	10983	10896
Appanoose County	13745	13743	Boone County	25279	25186
Centerville	5883	5936	Beaver	45	46
Cincinnati	379	363	Berkley	40	39
Exline	200	187	Boone	12678	12392
Moravia	720	679	Boxholm	218	214
Moulton	618	613	Fraser	122	120
Mystic	522	545	Luther	175	154
Numa	148	151	Madrid	2590	2395
Plano	72	75	Ogden	2138	1909
Rathbun	87	89	Pilot Mound	177	199
Udell	60	76	Sheldahl (part)	23	22
Unionville	127	133	Balance of Boone County	7072	7696
Balance of Appanoose County	4929	4896	Bremer County	23119	22813
Audubon County	6957	7334	Denver	1763	1600
Audubon	2474	2524	Frederika	189	188
Brayton	140	148	Janesville (part)	738	689
Exira	961	955	Plainfield	494	455
Gray	78	83	Readlyn	818	773
Kimballton	270	289	Sumner	2130	2078
Balance of Audubon County	3034	3335	Tripoli	1278	1188
Benton County	23683	22429	Waverly	9001	8539
Atkins	768	637	Balance of Bremer County	6708	7303
Belle Plaine	2943	2834	Buchanan County	21304	20844
Blainstow	733	672	Aurora	206	196
Garrison	463	320	Brandon	308	320
			Fairbank (part)	905	851

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Buchanan County (continued)			Carroll County	21466	21423
Hazleton	865	733	Arcadia	434	485
Independence	6217	5972	Breda	453	467
Jesup	2299	2121	Carroll	9801	9579
Lamont	492	471	Coon Rapids	1200	1266
Quasqueton	565	579	Dedham	255	264
Rowley	290	272	Glidden	1137	1099
Stanley (part)	157	116	Halbur	225	215
Winthrop	851	742	Lanesboro	187	182
Balance of Buchanan County	8149	8471	Lidderdale	207	202
			Manning	1458	1484
Buena Vista County	20077	19965	Ralston (part)	126	111
Albert City	800	779	Templeton	297	321
Alta	1798	1820	Willey	80	78
Lakeside	473	522	Balance of Carroll County	5606	5670
Linn Grove	173	194			
Marathon	327	320	Cass County	15112	15128
Newell	1047	1089	Anita	1027	1068
Rembrandt	241	229	Atlantic	7474	7432
Sioux Rapids	854	792	Cumberland	280	295
Storm Lake	8923	8769	Griswold	1011	1049
Truesdale	105	132	Lewis	415	433
Balance of Buena Vista County	5336	5319	Marne	146	149
			Massena	356	372
Butler County	15719	15731	Wiota	145	160
Allison	1074	1000	Balance of Cass County	4257	4170
Aplington	1091	1034			
Aredale	89	88	Cedar County	17552	17444
Bristow	266	197	Bennett	441	395
Clarksville	1477	1382	Clarence	1006	936
Dumont	745	705	Durant (part)	1610	1540
Greene	1132	1142	Lowden	768	726
New Hartford	681	683	Mechanicsville	1131	1075
Parkersburg	1924	1804	Stanwood	715	646
Shell Rock	1392	1385	Tipton	3205	2998
Balance of Butler County	5848	6311	West Branch	2074	1908
			Wilton (part)	4	4
Calhoun County	11573	11508	Balance of Cedar County	6599	7216
Farnhamville (part)	413	414			
Jolley	58	68	Cerro Gordo County	46561	46733
Knierim	69	71	Clear Lake	8473	8183
Lake City	1916	1841	Dougherty	95	107
Lohrville	457	453	Mason City	28817	29040
Lytton (part)	41	42	Meservey	274	292
Manson	1830	1844	Plymouth	463	453
Pomeroy	721	762	Rock Falls	158	155
Rinard	72	71	Rockwell	1108	1008
Rockwell City	2128	1981	Swaledale	169	190
Somers	137	161	Thornton	403	431
Yetter	49	49	Ventura	629	590
Balance of Calhoun County	3684	3751	Balance of Cerro Gordo County	5972	6284

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Cherokee County	13830	14098	Clayton County (continued)		
Aurelia	1121	1034	Marquette	482	479
Cherokee	6007	6026	Millville	33	32
Cleghorn	306	275	Monona	1566	1520
Larrabee	176	175	North Buena Vista	152	145
Marcus	1190	1171	Osterdock	49	49
Meriden	176	193	Postville (part)	7	7
Quimby	352	334	St. Olaf	124	125
Washta	249	284	Strawberry Point	1388	1357
Balance of Cherokee County	4253	4606	Volga	286	306
			Balance of Clayton County	8509	8608
Chickasaw County	13382	13295	Clinton County	50941	51040
Alta Vista	264	246	Andover	92	99
Bassett	73	74	Calamus	409	379
Fredericksburg	1087	1011	Camanche	4442	4436
Ionia	328	304	Charlotte	380	359
Lawler	504	517	Clinton	28966	29201
Nashua	1661	1476	Delmar	667	517
New Hampton	3816	3660	De Witt	4963	4514
North Washington	108	107	Goose Lake	221	221
Balance of Chickasaw County	5541	5900	Grand Mound	614	619
			Lost Nation	530	467
Clarke County	8173	8287	Low Moor	338	280
Murray	693	731	Toronto	118	132
Osceola	4140	4164	Welton	190	184
Woodburn	251	240	Wheatland	724	723
Balance of Clarke County	3088	3152	Balance of Clinton County	8288	8909
Clay County	17635	17585	Crawford County	16493	16775
Dickens	212	214	Arion	117	148
Everly	721	706	Aspinwall	56	52
Fostoria	200	205	Buck Grove	70	55
Gillett Grove	68	67	Charter Oak	526	497
Greenville	73	84	Deloit	273	296
Peterson	417	390	Denison	6742	6604
Rossie	68	68	Dow City	417	439
Royal	427	466	Kiron	299	301
Spencer	11141	11066	Manilla	893	898
Webb	136	167	Ricketts	116	122
Balance of Clay County	4172	4152	Schleswig	802	851
			Vail	381	388
Clayton County	18847	19054	Westside	337	348
Clayton	41	41	Balance of Crawford County	5463	5776
Edgewood (part)	330	325			
Elkader	1423	1510	Dallas County	32084	29755
Elkport	74	82	Adel	3690	3304
Farmersburg	272	291	Bouton	149	149
Garber	125	118	Dallas Center	1597	1454
Garnavillo	696	727	Dawson	117	174
Guttenberg	2269	2257	De Soto	1102	1033
Littleport	83	88	Dexter	635	628
Luana	183	190	Granger	644	624
McGregor	754	797			



Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Dallas County (continued)			Des Moines County (continued)		
Linden	218	201	Balance of Des Moines County	8915	9374
Minburn	411	346	Dickinson County	15475	14909
Perry	6897	6652	Arnolds Park	972	953
Redfield	937	883	Lake Park	990	996
Van Meter	839	751	Milford	2314	2170
Waukee	3118	2512	Okoboji	821	775
West Des Moines (part)	7	7	Orleans	564	560
Woodward	1346	1197	Spirit Lake	4064	3872
Balance of Dallas County	10377	9840	Superior	143	128
Davis County	8465	8312	Terril	362	383
Bloomfield	2614	2580	Wahpeton	475	484
Drakesville	147	172	West Okoboji	266	263
Floris	186	172	Balance of Dickinson County	4503	4325
Pulaski	238	262	Dubuque County	88216	86403
Balance of Davis County	5279	5126	Asbury	2071	2013
Decatur County	8076	8338	Balltown	74	74
Davis City	238	257	Bankston	38	35
Decatur City	175	177	Bernard	121	123
Garden Grove	228	229	Cascade (part)	1466	1430
Grand River	128	171	Centralia	126	123
Lamoni	2259	2319	Dubuque	59084	57538
Leon	1966	2047	Durango	33	34
Le Roy	34	34	Dyersville (part)	3819	3659
Pleasanton	55	58	Epworth	1387	1303
Van Wert	257	249	Farley	1420	1348
Weldon	140	151	Graf	78	66
Balance of Decatur County	2596	2646	Holy Cross	268	293
Delaware County	18331	18035	Luxemburg	254	257
Colesburg	452	439	New Vienna	362	376
Delaware	168	176	Peosta	151	135
Delhi	519	485	Rickardsville	210	193
Dundee	150	174	Sageville	306	288
Dyersville (part)	37	37	Sherrill	154	148
Earlville	827	822	Worthington	462	439
Edgewood (part)	493	517	Zwingle (part)	81	84
Greeley	249	284	Balance of Dubuque County	16250	16444
Hopkinton	668	695	Emmet County	11268	11569
Manchester	5361	5137	Armstrong	996	1025
Masonville	121	129	Dolliver	93	103
Oneida	49	49	Estherville	6789	6720
Ryan	353	382	Gruver	71	102
Balance of Delaware County	8884	8709	Ringsted	429	481
Des Moines County	42866	42614	Wallingford	213	235
Burlington	27573	27208	Balance of Emmet County	2676	2903
Danville	988	926	Fayette County	21908	21843
Mediapolis	1722	1637	Arlington	558	465
Middletown	416	386	Clermont	537	523
West Burlington	3251	3083	Elgin	684	637

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Fayette County (continued)			Greene County (continued)		
Fairbank (part)	175	167	Grand Junction	805	808
Fayette	1373	1317	Jefferson	4369	4292
Hawkeye	496	460	Paton	225	255
Maynard	515	513	Ralston (part)	8	8
Oelwein	6769	6493	Rippey	293	275
Randalia	89	88	Scranton	570	583
St. Lucas	165	174	Balance of Greene County	3288	3330
Stanley (part)	0	0			
Wadena	259	236	Grundy County	12128	12029
Waucoma	270	277	Beaman	184	183
Westgate	212	207	Conrad	963	964
West Union	2712	2490	Dike	895	875
Balance of Fayette County	7096	7796	Grundy Center	2638	2491
			Holland	198	215
Floyd County	16699	17058	Morrison	91	125
Charles City	7970	7878	Reinbeck	1641	1605
Colwell	91	94	Stout	192	192
Floyd	438	359	Wellsburg	692	682
Marble Rock	343	361	Balance of Grundy County	4634	4697
Nora Springs	1505	1505			
Rockford	941	863	Guthrie County	11285	10935
Rudd	477	429	Adair (part)	54	64
Balance of Floyd County	4934	5569	Bagley	298	303
			Bayard	497	511
Franklin County	11078	11364	Casey (part)	421	426
Ackley (part)	53	54	Guthrie Center	1766	1614
Alexander	159	170	Jamaica	241	232
Coulter	280	252	Menlo	342	356
Dows (part)	120	100	Panora	1256	1100
Geneva	148	169	Stuart (part)	1098	993
Hampton	4202	4133	Yale	217	220
Hansell	79	83	Balance of Guthrie County	5097	5116
Latimer	468	430			
Popejoy	100	92	Hamilton County	16027	16071
Sheffield	1176	1174	Blairsburg	254	269
Balance of Franklin County	4293	4707	Ellsworth	470	451
			Jewell Junction	1188	1106
Fremont County	8213	8226	Kamrar	193	203
Farragut	526	498	Randall	159	161
Hamburg	1263	1248	Stanhope	477	447
Imogene	83	88	Stratford (part)	739	679
Randolph	217	243	Webster City	8030	7894
Riverton	339	333	Williams	408	368
Shenandoah (part)	0	0	Balance of Hamilton County	4109	4493
Sidney	1287	1253			
Tabor (part)	917	901	Hancock County	12138	12638
Thurman	199	239	Britt	1994	2133
Balance of Fremont County	3383	3423	Corwith	336	354
			Crystal Lake	293	266
Greene County	10045	10045	Forest City (part)	330	355
Churdan	421	423	Garner	2790	2916
Dana	66	71	Goodell	207	201

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Hancock County (continued)			Howard County (continued)		
Kanawha	722	763	Protivin	335	305
Klemme	567	587	Riceville (part)	345	334
Woden	229	259	Balance of Howard County	4263	4252
Balance of Hancock County	4671	4804			
Hardin County			Humboldt County		
Ackley (part)	1665	1642	Bode	355	335
Alden	851	855	Bradgate	133	124
Buckeye	111	105	Dakota City	1055	1024
Eldora	2933	3038	Gilmore City (part)	324	319
Hubbard	799	814	Hardy	44	47
Iowa Falls	5201	5435	Humboldt	4412	4438
New Providence	212	240	Livermore	418	436
Owasa	37	37	Lu Verne (part)	51	54
Radcliffe	606	574	Ottosen	70	72
Steamboat Rock	331	335	Pioneer	47	46
Union	429	448	Renwick	281	287
Whitten	132	137	Rutland	173	149
Balance of Hardin County	5285	5434	Thor	213	205
			Balance of Humboldt County	2797	3220
Harrison County			Ida County		
Dunlap	1181	1251	Arthur	247	272
Little Sioux	201	205	Battle Creek	757	818
Logan	1429	1401	Galva	405	398
Magnolia	167	204	Holstein	1419	1449
Missouri Valley	2943	2888	Ida Grove	2400	2357
Modale	264	289	Balance of Ida County	3062	3071
Mondamin	439	403			
Persia	332	312	Iowa County		
Pisgah	226	268	Ladora	310	308
Woodbine	1551	1500	Marengo	2199	2270
Balance of Harrison County	6207	6009	Millersburg	153	188
			North English (part)	952	932
Henry County			Jackson County		
Coppock (part)	33	33	Andrew	346	319
Hillsboro	149	169	Baldwin	100	137
Mount Pleasant	8374	7959	Bellevue	2532	2239
Mount Union	116	140	Green Island	55	54
New London	1959	1922	La Motte	266	260
Olds	226	205	Maquoketa	6517	6130
Rome	129	124	Miles	496	409
Salem	514	453	Monmouth	213	169
Wayland	980	838	Preston	1014	1025
Westwood	97	104	Sabula	712	710
Winfield	1117	1051	St. Donatus	111	145
Balance of Henry County	6008	6228	Spragueville	116	118
			Springbrook	171	165
Howard County					
Chester	155	158			
Cresco	3744	3669			
Elma	631	653			
Lime Springs	408	438			

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Jackson County (continued)			Jones County (continued)		
Zwingle (part)	10	10	Oxford Junction	638	581
Balance of Jackson County	7603	8060	Wyoming	660	659
Jasper County			Balance of Jones County		
Jasper County	35096	34795		7835	7780
Baxter	948	938	Keokuk County		
Colfax	2612	2462	Keokuk County	11516	11624
Kellogg	651	626	Delta	391	409
Lamb Grove	215	212	Gibson	75	63
Lynnville	383	393	Harper	124	147
Mingo	233	252	Hayesville	59	62
Monroe	1725	1739	Hedrick	841	810
Newton	14915	14799	Keota	1029	1000
Oakland Acres	156	152	Keswick	269	284
Prairie City	1407	1366	Kinross	90	89
Reasnor	180	191	Martinsburg	158	157
Sully	862	841	North English (part)	13	12
Valeria	72	69	Ollie	195	207
Balance of Jasper County	10737	10755	Richland	569	522
Jefferson County			Sigourney	2061	2111
Jefferson County	16856	16310	South English	212	224
Batavia	512	520	Thornburg	76	91
Coppock (part)	5	5	Webster	93	103
Fairfield	10256	9768	What Cheer	738	762
Libertyville	301	264	Balance of Keokuk County	4524	4571
Lockridge	263	270	Kossuth County		
Packwood	216	208	Kossuth County	18180	18591
Pleasant Plain	132	128	Algona	6112	6015
Balance of Jefferson County	5171	5147	Bancroft	831	857
Johnson County			Burt	620	575
Johnson County	100003	96119	Fenton	319	346
Coralville	11654	10347	Lakota	292	281
Hills	799	662	Ledyard	159	164
Iowa City	60655	59735	Lone Rock	166	185
Lone Tree	1090	979	Lu Verne (part)	276	274
North Liberty	3677	2926	Swea City	630	634
Oxford	1112	663	Titonka	633	612
Shueyville	231	223	Wesley	431	444
Solon	1061	1050	West Bend (part)	6	6
Swisher	804	645	Whittemore	564	535
Tiffin	513	460	Balance of Kossuth County	7141	7663
University Heights	1080	1042	Lee County		
Balance of Johnson County	17327	17387	Lee County	39017	38687
Jones County			Donnellson	1147	940
Jones County	19951	19444	Fort Madison	12400	11618
Anamosa	5306	5100	Franklin	158	152
Cascade (part)	386	382	Houghton	105	127
Center Junction	166	166	Keokuk	12543	12451
Martelle	298	290	Montrose	990	957
Monticello	3633	3522	St. Paul	99	120
Morley	89	85	West Point	1720	1079
Olin	721	663	Balance of Lee County	9855	11243
Onslow	218	216			

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Linn County	176814	168767	Madison County	13034	12483
Alburnett	489	459	Bevington (part)	46	44
Bertram	207	201	Earlham	1348	1157
Cedar Rapids	113438	108772	East Peru	141	132
Center Point	1970	1693	Macksburg	121	110
Central City	1098	1063	Patterson	137	128
Coggon	708	645	St. Charles	570	537
Ely	539	517	Truro	407	391
Fairfax	821	780	Winterset	4408	4196
Hiawatha	5133	4986	Balance of Madison County	5857	5788
Lisbon	1659	1452			
Marion	22551	20422	Mahaska County	21760	21532
Mount Vernon	3863	3657	Barnes City (part)	201	198
Palo	539	514	Beacon	516	509
Prairieburg	228	213	Eddyville (part)	239	188
Robins	1248	875	Fremont	770	701
Springville	1083	1068	Keomah Village	100	99
Walford (part)	12	13	Leighton	140	142
Walker	846	673	New Sharon	1342	1136
Balance of Linn County	20382	20764	Oskaloosa	11068	10600
			Rose Hill	198	171
Louisa County	11690	11592	University Park	575	598
Columbus City	378	328	Balance of Mahaska County	6612	7190
Columbus Junction	1854	1616			
Cotter	55	53	Marion County	30664	30001
Fredonia	143	201	Bussey	516	494
Grandview	553	514	Hamilton	141	115
Letts	375	390	Harvey	202	235
Morning Sun	840	841	Knoxville	8490	8232
Oakville	427	442	Marysville	68	65
Wapello	2113	2013	Melcher-Dallas	1275	1302
Balance of Louisa County	4952	5194	Pella	9712	9270
			Pleasantville	1609	1536
Lucas County	8984	9070	Swan	80	76
Chariton	4530	4616	Balance of Marion County	8572	8676
Derby	114	135			
Lucas	251	224	Marshall County	38148	38276
Russell	526	531	Albion	583	585
Williamson	176	166	Clemons	171	173
Balance of Lucas County	3387	3398	Ferguson	177	166
			Gilman	646	586
Lyon County	11893	11952	Haverhill	137	144
Alvord	202	204	Laurel	271	271
Doon	486	476	Le Grand	899	854
George	1105	1066	Liscomb	256	258
Inwood	881	824	Marshalltown	24938	25178
Larchwood	751	739	Melbourne	737	669
Lester	263	257	Rhodes	262	272
Little Rock	447	493	St. Anthony	112	112
Rock Rapids	2600	2601	State Center	1476	1248
Balance of Lyon County	5159	5292	Balance of Marshall County	7481	7760

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Mills County	13645	13202	Muscatine County	41238	39907
Emerson	425	476	Atalissa	423	357
Glenwood	5058	4960	Conesville	315	334
Hastings	207	187	Durant (part)	7	7
Henderson	215	206	Fruitland	547	511
Malvern	1178	1210	Muscatine	23936	22881
Pacific Junction	619	548	Nichols	452	366
Silver City	266	252	Stockton	223	187
Tabor (part)	97	93	Walcott (part)	0	0
Balance of Mills County	5581	5270	West Liberty	3444	2935
			Wilton (part)	2818	2573
Mitchell County	11037	10928	Balance of Muscatine County	9072	9756
Carpenter	106	102			
McIntire	165	147	O'Brien County	15374	15444
Mitchell	173	170	Archer	130	145
Orchard	93	93	Calumet	169	160
Osage	3575	3439	Hartley	1782	1632
Riceville (part)	476	493	Moneta	29	29
St. Ansgar	996	1063	Paullina	1191	1134
Stacyville	458	481	Primghar	1006	950
Balance of Mitchell County	4995	4940	Sanborn	1363	1345
			Sheldon (part)	4871	4833
Monona County	10066	10034	Sutherland	700	714
Blencoe	254	250	Balance of O'Brien County	4133	4502
Castana	190	159			
Mapleton	1217	1294	Osceola County	7141	7267
Moorhead	238	259	Ashton	530	462
Onawa	2939	2936	Harris	164	170
Rodney	56	71	Melvin	230	250
Soldier	201	205	Ocheyedan	565	539
Turin	85	95	Sibley	2804	2815
Ute	339	395	Balance of Osceola County	2847	3031
Whiting	712	683			
Balance of Monona County	3836	3687	Page County	16739	16870
			Blanchard	56	67
Monroe County	8146	8114	Braddyville	206	219
Albia	3936	3870	Clarinda	5144	5104
Eddyville (part)	2	2	Coin	291	278
Lovilia	637	566	College Springs	235	230
Melrose	109	150	Essex	915	916
Balance of Monroe County	3461	3526	Hepburn	40	41
			Northboro	63	78
Montgomery County	12023	12076	Shambaugh	203	190
Coburg	60	58	Shenandoah (part)	5498	5572
Elliott	398	399	Yorktown	105	100
Grant	139	123	Balance of Page County	3981	4075
Red Oak	6291	6264			
Stanton	661	692	Palo Alto County	10421	10669
Villisca	1283	1332	Ayrshire	149	195
Balance of Montgomery County	3190	3208	Curlew	39	56
			Cylinder	71	112
			Emmetsburg	3964	3940
			Graettinger	827	813

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Palo Alto County (continued)			Pottawattamie County	83389	82628
Mallard	308	360	Avoca	1549	1497
Rodman	44	56	Carson	668	705
Ruthven	690	707	Carter Lake	3121	3200
West Bend (part)	784	856	Council Bluffs	54850	54315
Balance of Palo Alto County	3546	3574	Crescent	484	469
			Hancock	162	201
Plymouth County	24280	23388	McClelland	119	139
Akron	1488	1450	Macedonia	286	262
Brunsville	135	137	Minden	488	539
Craig	99	116	Neola	879	909
Hinton	801	697	Oakland	1414	1496
Kingsley	1197	1129	Shelby (part)	65	67
Le Mars	9119	8454	Treynor	947	897
Merrill	752	729	Underwood	556	515
Oyens	123	113	Walnut	833	857
Remsen	1499	1513	Balance of Pottawattamie County	16969	16560
Struble	47	67			
Westfield	158	160	Poweshiek County	19018	19033
Balance of Plymouth County	8861	8823	Barnes City (part)	23	23
			Brooklyn	1477	1439
Pocahontas County	9129	9525	Deep River	336	345
Fonda	684	731	Grinnell	8915	8902
Gilmore City (part)	240	241	Guernsey	67	70
Havelock	187	217	Hartwick	111	115
Laurens	1435	1550	Malcom	446	447
Palmer	222	230	Montezuma	1725	1651
Plover	95	101	Searsboro	106	164
Pocahontas	2079	2085	Victor (part)	120	124
Rolfe	678	721	Balance of Poweshiek County	5692	5753
Varina	99	102			
Balance of Pocahontas County	3409	3547	Ringgold County	5413	5420
			Beaconsfield	26	27
Polk County	345896	327140	Benton	39	39
Alleman	398	340	Clearfield (part)	10	10
Altoona	7882	7242	Delphos	22	23
Ankeny	21208	18482	Diagonal	320	298
Bondurant	1828	1584	Ellston	44	44
Carlisle (part)	5	5	Kellerton	331	314
Clive	7951	7462	Maloy	36	36
Des Moines	193965	193189	Mount Ayr	1682	1796
Elkhart	479	388	Redding	121	119
Grimes	3683	2653	Shannon City (part)	5	5
Johnston	5279	4702	Tingley	177	179
Mitchellville	1875	1670	Balance of Ringgold County	2601	2530
Pleasant Hill	3909	3671			
Polk City	2126	1908	Sac County	12141	12324
Runnells	301	306	Auburn	294	283
Sheldahl (part)	140	122	Early	689	649
Urbandale	28250	23500	Lake View	1296	1303
West Des Moines (part)	37236	31695	Lytton (part)	270	278
Windsor Heights	5347	5190	Nemaha	149	112
Balance of Polk County	24033	23031	Odebolt	1128	1158

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Sac County (continued)			Sioux County (continued)		
Sac City	2566	2516	Sheldon (part)	63	71
Schaller	714	768	Sioux Center	5684	5074
Wall Lake	895	875	Balance of Sioux County	8954	9425
Balance of Sac County	4139	4382			
Scott County			Story County		
Bettendorf	30640	28139	Ames	74837	74252
Blue Grass	1222	1214	Cambridge	46562	47198
Buffalo	1257	1250	Collins	723	714
Davenport	96964	95333	Colo	469	455
Dixon	237	228	Gilbert	922	771
Donahue	324	316	Huxley	908	796
Durant (part)	2	2	Kelley	2230	2047
Eldridge	3713	3378	McCallsburg	266	246
Le Claire	3007	2734	Maxwell	271	292
Long Grove	627	605	Nevada	826	788
McCausland	357	308	Roland	6283	6009
Maysville	183	170	Sheldahl (part)	1135	1035
New Liberty	136	139	Slater	183	171
Panorama Park	125	127	Story City	1313	1268
Princeton	1044	904	Zearing	3132	2959
Riverdale	443	419	Balance of Story County	638	614
Walcott (part)	1473	1356		8977	8889
Balance of Scott County	14195	14351	Tama County		
Shelby County			Chelsea	17784	17419
Defiance	339	312	Clutier	321	336
Earling	439	466	Dysart	220	219
Elk Horn	673	672	Elberon	1367	1230
Harlan	5289	5148	Garwin	219	203
Irwin	421	394	Gladbrook	596	533
Kirkman	95	98	Lincoln	1016	881
Panama	207	201	Montour	190	173
Portsmouth	217	209	Tama	368	312
Shelby (part)	605	570	Toledo	2794	2697
Tennant	78	78	Traer	2689	2380
Westphalia	132	144	Vining	1714	1552
Balance of Shelby County	4621	4938	Balance of Tama County	83	78
Sioux County			Taylor County		
Alton	31028	29903	Athelstan	7118	7114
Boyden	1215	1063	Bedford	31	31
Chatsworth	680	651	Blockton	1516	1528
Granville	119	103	Clearfield (part)	198	213
Hawarden	297	298	Conway	375	407
Hospers	2540	2439	Gravity	59	57
Hull	705	643	Lenox (part)	163	218
Ireton	1808	1724	New Market	1350	1303
Matlock	680	597	Sharpsburg	444	454
Maurice	95	92	Balance of Taylor County	118	116
Orange City	248	243		2866	2787
Rock Valley	5268	4940	Union County		
	2672	2540	Afton	12468	12750
			Arispe	998	953
				87	92



Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Union County (continued)			Washington County (continued)		
Creston	7655	7911	Riverside	926	824
Cromwell	119	120	Washington	7252	7074
Kent	58	65	Wellman	1136	1085
Lorimor	419	377	West Chester	185	178
Shannon City (part)	71	92	Balance of Washington County	7336	7042
Thayer	80	79			
Balance of Union County	2980	3061	Wayne County	6939	7067
			Allerton	575	599
Van Buren County	7717	7676	Clio	87	103
Birmingham	398	386	Corydon	1640	1675
Bonaparte	478	465	Humeston	524	553
Cantril	265	271	Lineville	223	289
Farmington	688	655	Millerton	45	44
Keosauqua	983	1020	Promise City	139	132
Milton	453	506	Seymour	894	869
Mount Sterling	54	53	Balance of Wayne County	2813	2803
Stockport	244	260			
Balance of Van Buren County	4153	4060	Webster County	39498	40342
			Badger	611	569
Wapello County	35918	35696	Barnum	160	174
Agency	615	616	Callender	361	384
Blakesburg	296	333	Clare	184	183
Chillicothe	121	119	Dayton	831	818
Eddyville (part)	956	846	Duncombe	517	488
Eldon	971	1070	Farnhamville (part)	0	0
Kirkville	238	177	Fort Dodge	25299	25894
Ottumwa	24629	24488	Gowrie	1010	1028
Balance of Wapello County	8091	8047	Harcourt	307	306
			Lehigh	499	536
Warren County	38506	36033	Moorland	235	209
Ackworth	70	66	Otho	496	529
Bevington (part)	25	23	Stratford (part)	34	36
Carlisle (part)	3528	3236	Vincent	173	185
Cumming	139	132	Balance of Webster County	8779	9003
Hartford	804	768			
Indianola	12554	11340	Winnebago County	11935	12122
Lacona	374	357	Buffalo Center	1032	1081
Martensdale	527	491	Forest City (part)	4098	4075
Milo	854	864	Lake Mills	2069	2143
New Virginia	429	433	Leland	299	311
Norwalk	6240	5726	Rake	234	238
St. Marys	173	113	Scarville	79	92
Sandyville	63	59	Thompson	503	498
Spring Hill	91	86	Balance of Winnebago County	3621	3684
Balance of Warren County	12635	12339			
			Winneshiek County	21009	20847
Washington County	20279	19612	Calmar	1079	1026
Ainsworth	572	506	Castalia	191	177
Brighton	600	684	Decorah	8699	8063
Coppock (part)	13	12	Fort Atkinson	359	367
Crawfordsville	163	265	Jackson Junction	88	87
Kalona	2097	1942	Ossian	780	810

Table 1. Population in Incorporated Places and the Balance of the County in Iowa Counties, 1990-1994  
(continued).

County/Place/Balance	1994	1990	County/Place/Balance	1994	1990
Winneshiek County (continued)			Worth County	7874	7991
Ridgeway	308	295	Fertile	377	382
Spillville	406	387	Grafton	247	282
Balance of Winneshiek County	9100	9635	Hanlontown	204	193
			Joice	265	245
Woodbury County	101189	98276	Kensett	340	298
Anthon	634	638	Manly	1312	1349
Bronson	170	209	Northwood	1979	1940
Correctionville	885	897	Balance of Worth County	3150	3302
Cushing	241	241			
Danbury	430	430	Wright County	14201	14269
Hornick	225	222	Belmond	2518	2500
Lawton	501	482	Clarion	2821	2703
Merville	1398	1306	Dows (part)	609	560
Oto	119	118	Eagle Grove	3713	3671
Pierson	350	341	Galt	30	43
Salix	433	367	Goldfield	723	710
Sergeant Bluff	3045	2772	Rowan	177	189
Sioux City	82735	80505	Woolstock	195	212
Sloan	1002	938	Balance of Wright County	3415	3681
Smithland	246	252			
Balance of Woodbury County	8776	8558			

Table 2. Population Totals for Incorporated Places Located in More Than One County, 1990-1994.

Place	1994	1990	Place	1994	1990
Ackley	1718	1696	Lytton	311	320
Adair	882	894	North English	965	944
Barnes City	224	221	Postville	1504	1472
Bevington	71	67	Ralston	134	119
Carlisle	3533	3241	Riceville	821	827
Cascade	1852	1812	Shannon City	76	97
Casey	434	441	Shelby	670	637
Clearfield	385	417	Sheldahl	346	315
Coppock	51	50	Sheldon	4934	4904
Dows	729	660	Shenandoah	5498	5572
Durant	1619	1549	Stanley	157	116
Dyersville	3856	3696	Stratford	773	715
Eddyville	1197	1036	Stuart	1616	1522
Edgewood	823	842	Tabor	1014	994
Fairbank	1080	1018	Victor	972	966
Farnhamville	413	414	Walcott	1473	1356
Forest City	4428	4430	Walford	405	303
Gilmore City	564	560	West Bend	790	862
Janesville	877	822	West Des Moines	37243	31702
Lenox	1350	1303	Wilton	2822	2577
Lu Verne	327	328	Zwingle	91	94

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

## 1850-1990

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

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The population in Iowa's counties has been counted every 10 years by the U.S. Bureau of the Census. Iowa's first census occurred in 1850, 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	17444	18635	17655	17791	16910	16884	16760	17560	17765	19371	18253	18936	19731	12949	3941
Cerro Gordo	46733	48458	49223	49894	46053	43845	38476	34675	25011	20672	14864	11461	4722	940	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	21532	22867	22177	23602	24672	26485	25804	26270	29860	34273	28805	25202	22508	14816	5989
Marion	30001	29669	26352	25886	25930	27019	25727	24957	22995	24159	23058	25111	24436	16813	5482
Marshall	38276	41652	41076	37984	35611	35406	33727	32630	30279	29991	25842	23752	17576	6015	338
Mills	13202	13406	11832	13050	14064	15064	15866	15422	15811	16764	14548	14137	8718	4481	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	150973	160022	142687	119067	100698	84748	77332	73952	60000	51558	43164	41266	38599	25959	5986
Shelby	13230	15043	15528	15825	15942	16720	17131	16065	16552	17932	17611	12696	2540	818	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	35696	40241	42149	46126	47397	44280	40480	37937	37743	35426	30426	25285	22346	14518	8471
Warren	36033	34878	27432	20829	17758	17695	17700	18047	18194	20376	18269	19578	17980	10281	961
Washington	19612	20141	18967	19406	19557	20055	19822	20421	19925	20718	18468	20374	18952	14235	4957
Wayne	7067	8199	8405	9800	11737	13308	13787	15378	16184	17491	15670	16127	11287	6409	340
Webster	40342	45953	48391	47810	44241	41521	40425	37611	34629	31757	21582	15951	10484	2504	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	2776831	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	-1191	980	-136	881	26	124	-800	-205	-1606	1118	-683	-795	6782	9008
Cerro Gordo	-1725	-765	-671	3841	2208	5369	3801	9664	4339	5808	3403	6739	3782	940
Cherokee	-2140	-1031	-1329	-454	-206	521	977	1019	171	911	7419	6273	1909	58
Chickasaw	-2142	468	-65	-194	1	590	-794	56	-1662	2018	485	4354	5844	4336
Clarke	-325	1031	-641	-1147	-864	-151	-122	-230	-1704	1108	-181	2778	3308	5348
Clay	-1991	1112	-40	401	341	1655	447	2894	-635	4092	5061	2725	1471	52
Clayton	-2044	492	-1356	-560	-1812	-225	-473	-544	-2174	1017	-2096	1058	7043	16855
Clinton	-6082	373	1689	5396	4942	345	1006	-2023	1562	2633	4436	1406	16419	16116
Crawford	-2160	-181	547	-1172	-797	-490	414	573	-1644	2791	6481	9883	2147	383
Dallas	242	3428	1962	462	-988	-844	373	1492	570	2579	1733	6727	6775	4390
Davis	-792	897	-992	-760	-1177	-14	-1424	-741	-2305	362	-1210	903	1801	6500
Decatur	-1456	57	-802	-2062	-1411	-891	-1663	219	-1768	2472	307	3318	3341	7712
Delaware	-898	163	287	749	-753	365	-61	295	-1297	1836	-601	518	6408	9265
Des Moines	-3589	-779	2377	2549	5252	-1358	2642	-625	156	665	2225	5843	7645	6623
Dickinson	-720	3064	-9	-182	571	1203	741	2104	142	3667	2427	512	1209	180
Dubuque	-7342	3136	10561	8711	7569	2554	2952	812	1047	6555	6852	4027	7805	20323
Emmet	-1767	-673	-862	769	696	550	229	2811	-120	5662	2724	158	1287	105
Fayette	-3645	-1410	-1683	287	-857	6	-106	1332	-1926	6704	883	5285	4900	11248

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	-1335	690	-1425	-1070	-1813	681	-466	-3590	-4413	5468	3603	2694	7692	8827
Marion	332	3317	466	-44	-1089	1292	770	1962	-1164	1101	-2053	675	7623	11331
Marshall	-3376	576	3092	2373	205	1679	1097	2351	288	4149	2090	6176	11561	5677
Mills	-204	1574	-1218	-1014	-1000	-802	444	-389	-953	2216	411	5419	4237	4481
Mitchell	-1401	-779	-935	98	-176	56	144	486	-1481	1617	-1064	4781	6173	3409



Table 2. Population Change in Iowa 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	-9049	17335	23620	18369	15950	7416	3380	13952	8442	8394	1898	2667	12640	19973
Shelby	-1813	-485	-297	-117	-778	-411	1066	-487	-1380	321	4915	10156	1722	818
Sioux	-910	2817	1621	-6	-828	403	348	1210	1911	4967	12944	4850	566	10
Story	1926	9543	13456	5033	10860	2293	4956	2102	924	5032	1221	5255	7600	4051
Tama	-2114	-614	-1266	-275	-740	441	126	-295	-2429	2533	467	5454	10846	5277
Taylor	-1239	-437	-1498	-2132	-1838	-601	-655	-798	-2472	2400	749	8646	3399	3386
Union	-1108	301	-155	-1939	-629	-1155	167	652	-3312	3028	1920	8994	3974	2012
Van Buren	-950	-17	-1135	-1229	-1046	-550	-1457	-960	-2334	1101	-790	-629	591	4811
Wapello	-4545	-1908	-3977	-1271	3117	3800	2543	194	2317	5000	5141	2939	7828	6047
Warren	1155	7446	6603	3071	63	-5	-347	-147	-2182	2107	-1309	1598	7699	9320
Washington	-529	1174	-439	-151	-498	233	-599	496	-793	2250	-1906	1422	4717	9278
Wayne	-1132	-206	-1395	-1937	-1571	-479	-1591	-806	-1307	1821	-457	4840	4878	6069
Webster	-5611	-2438	581	3569	2720	1096	2814	2982	2872	10175	5631	5467	7980	2504
Winnebago	-888	20	-109	-351	-522	829	-346	1575	-811	5400	2408	3355	1394	168
Winneshiek	-1029	118	107	12	-624	633	-461	362	-2002	1203	-1410	368	9628	13396
Woodbury	-2608	-2168	-4797	3932	290	1958	9498	24555	13006	-1022	40636	8824	5053	1119
Worth	-1084	91	-1275	-809	-381	285	-466	1680	-937	1640	1294	5061	2136	756
Wright	-2050	-975	-2153	-205	-386	-178	-132	2397	-276	6170	6995	2670	1739	653
State of Iowa	-136977	88440	67831	136464	82805	67329	66918	179250	-7082	319556	287682	430595	519107	482699

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	534	3.2	3	2	2	1870	
Cerro Gordo	20672	25381	122.8	680	1.5	5	5	1	1960	
Cherokee	16570	2482	15.9	-4954	-26.0	5	4	0	1940	
Chickasaw	17037	-1809	-10.6	-1933	-12.7	5	3	1	1900	
Clarke	12361	-3071	-24.7	-1082	-11.6	4	0	1	1900	
Clay	13401	4702	35.1	-518	-2.9	5	4	2	1980	
Clayton	23877	-5228	-18.8	-3468	-15.4	4	0	1	1880	
Clinton	41010	5832	13.3	1376	2.8	5	4	3	1980	
Crawford	21685	-1944	-9.0	-2966	-15.0	5	2	1	1900	
Dallas	22204	603	2.6	6094	25.8	5	3	4	1990	
Davis	8356	-5661	-36.2	-1647	-16.5	4	0	1	1880	
Decatur	17150	-5514	-30.4	-4263	-33.8	5	1	1	1900	
Delaware	17426	-1451	-7.6	301	1.7	4	2	3	1900	
Des Moines	23001	6067	16.9	558	1.3	5	3	2	1970	
Dickinson	7995	4761	59.6	2153	16.9	5	5	1	1980	
Dubuque	45562	14934	26.5	15066	21.1	5	5	3	1980	
Emmet	9936	4166	41.9	-2533	-18.0	5	4	1	1960	
Fayette	29020	-1551	-5.2	-6451	-22.8	5	2	1	1900	
Floyd	17754	3751	21.1	-4447	-20.7	5	4	0	1950	
Franklin	14996	1272	8.5	-4904	-30.2	5	2	0	1930	
Fremont	17302	-6223	-33.6	-4097	-33.2	4	1	1	1900	
Greene	17820	-2276	-12.8	-5499	-35.4	5	3	0	1900	
Grundy	13757	-35	-0.2	-1693	-12.3	5	2	2	1920	
Guthrie	18729	-3532	-18.9	-4262	-28.0	5	1	0	1900	
Hamilton	19514	146	0.8	-3589	-18.3	5	2	1	1930	
Hancock	13752	1325	9.6	-2439	-16.2	5	3	1	1940	
Hardin	22794	-576	-2.5	-3124	-14.1	5	1	1	1920	
Harrison	25597	-6037	-23.6	-4830	-24.7	5	2	1	1900	
Henry	11315	-1314	-6.6	518	2.8	3	2	2	1870	
Howard	14512	-1407	-9.7	-3296	-25.2	5	2	0	1900	
Humboldt	12667	450	3.6	-2361	-18.0	5	3	1	1940	
Ida	12327	-1630	-13.2	-2332	-21.8	5	2	0	1900	
Iowa	18722	-3709	-19.0	-1205	-7.6	4	1	2	1900	
Jackson	16405	-4993	-21.1	1328	7.1	4	1	3	1880	
Jasper	25696	5329	19.8	2490	7.7	4	4	3	1980	

Table 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	-3140	-12.7	5	1	1	1900	
Marion	18677	1771	7.3	4071	15.7	4	3	3	1990	
Marshall	29653	5620	18.7	2665	7.5	5	5	3	1980	
Mills	16764	-2700	-16.1	-862	-6.1	5	1	1	1900	
Mitchell	14916	-971	-6.5	-3017	-21.6	4	3	1	1900	
Monona	17980	-1677	-9.3	-6269	-38.4	5	3	0	1940	
Monroe	15101	-6171	-34.3	-3700	-31.3	4	1	0	1910	
Montgomery	17803	-2118	-11.9	-3609	-23.0	4	1	1	1900	
Muscatine	22511	3906	13.8	7759	24.1	5	4	3	1980	
O'Brien	16985	1985	11.7	-3526	-18.6	5	3	0	1940	
Osceola	8725	1456	16.7	-2914	-28.6	3	3	0	1940	
Page	23636	-266	-1.1	-7051	-29.5	5	2	1	1930	
Palo Alto	14354	1537	10.7	-5222	-32.9	5	2	0	1940	
Plymouth	22209	1043	4.7	136	0.6	5	3	3	1980	
Pocahontas	15339	157	1.0	-5971	-38.5	5	3	0	1940	
Polk	78111	143386	173.5	101130	44.8	5	5	4	1990	
Pottawattamie	46508	15346	28.2	12946	18.6	4	4	2	1970	
Poweshiek	18799	-70	-0.4	-311	-1.6	4	4	1	1920	
Ringgold	15325	-5797	-37.8	-4108	-43.1	5	1	0	1900	
Sac	17639	-121	-0.7	-5194	-29.6	5	2	0	1930	
Scott	45572	49140	95.3	50275	49.9	5	5	3	1980	
Shelby	17932	-1990	-11.1	-2712	-17.0	5	1	0	1900	
Sioux	23337	3044	13.0	3522	13.4	5	4	2	1980	
Story	23159	21135	91.3	29958	67.6	5	5	4	1990	
Tama	24577	-2897	-11.8	-4269	-19.7	5	2	0	1900	
Taylor	18580	-6364	-33.9	-5306	-42.7	5	0	0	1900	
Union	19928	-4277	-21.5	-2901	-18.5	5	2	1	1900	
Van Buren	5084	-6347	-36.6	-3331	-30.3	3	0	0	1870	
Wapello	26955	11971	33.8	-11701	-24.7	5	5	0	1950	
Warren	19415	-2618	-12.8	18275	102.9	4	1	4	1990	
Washington	15761	-1161	-5.6	55	0.3	4	2	1	1900	
Wayne	17151	-5754	-32.9	-4670	-39.8	4	0	0	1900	
Webster	31757	12484	39.3	-3899	-8.8	5	5	2	1970	
Winnebago	12725	725	5.7	-1328	-9.9	5	2	1	1940	
Winneshiek	23185	-2092	-8.8	-792	-3.7	4	2	3	1880	
Woodbury	54610	49307	90.3	-5641	-5.4	4	5	1	1960	
Worth	10887	181	1.7	-3077	-27.8	5	2	1	1920	
Wright	18227	1425	7.8	-5383	-27.4	5	1	0	1920	
State of Iowa	2039639	389220	17.4	155758	5.9	5	4	3	1980	

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.

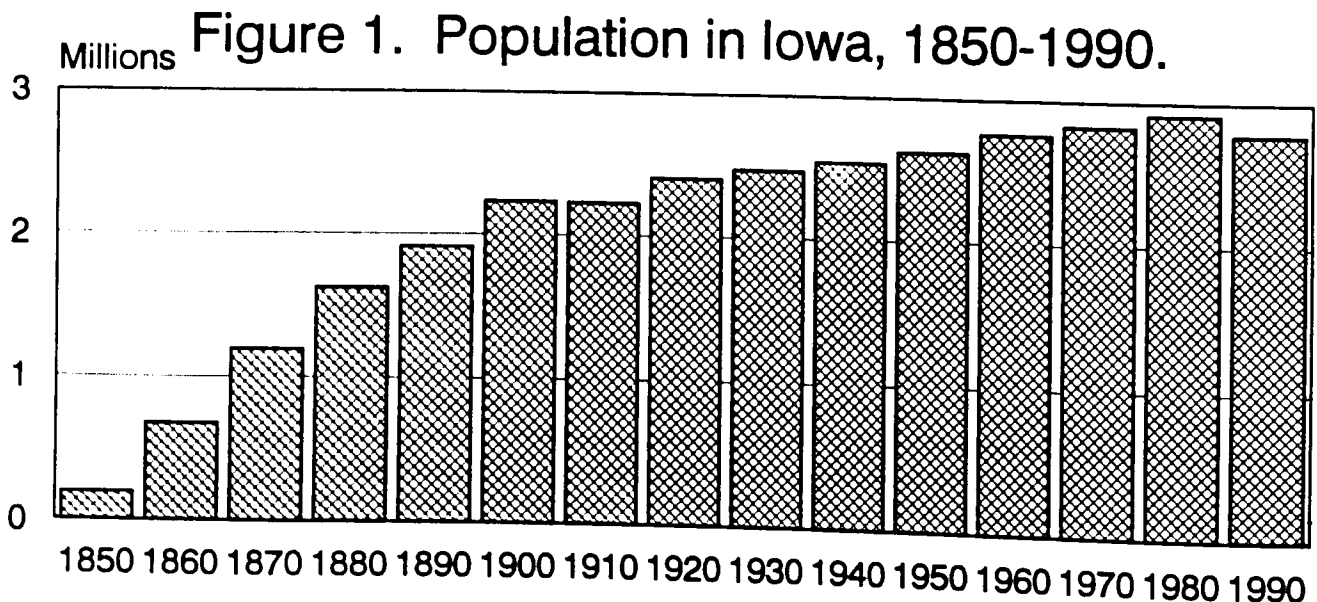


Figure 2. Historical population peaks, 1850-1990.

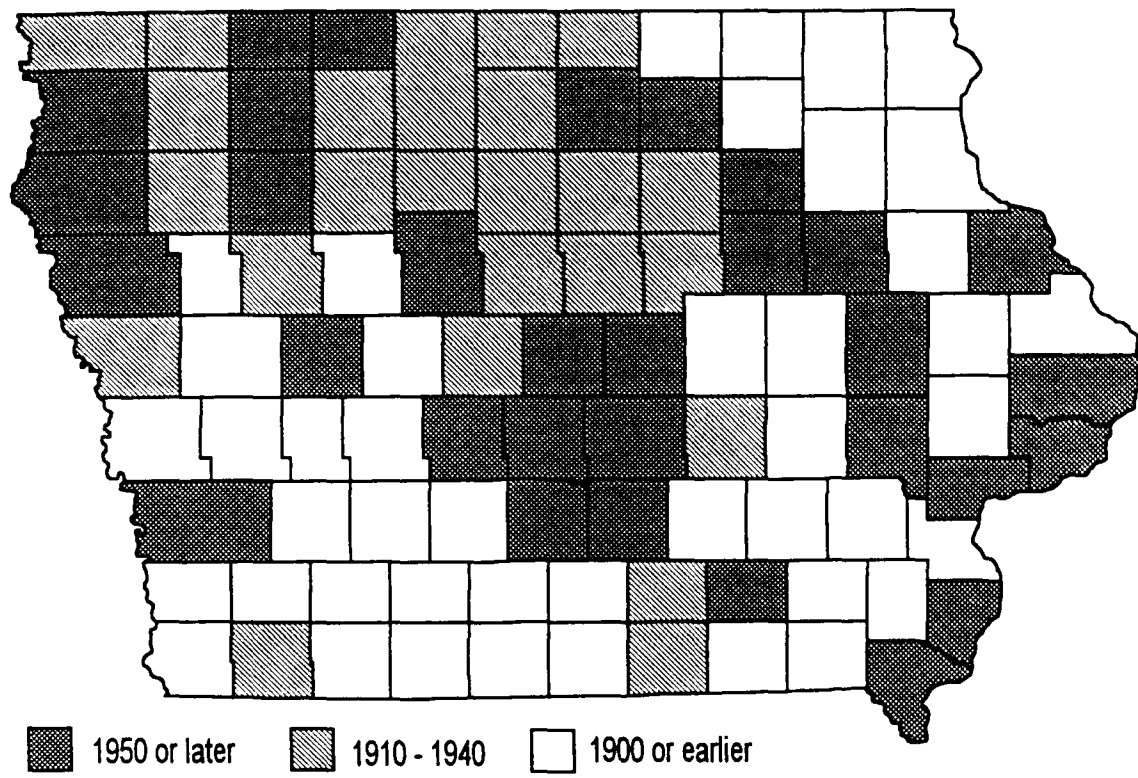


Figure 3. Population change, 1980-1990.

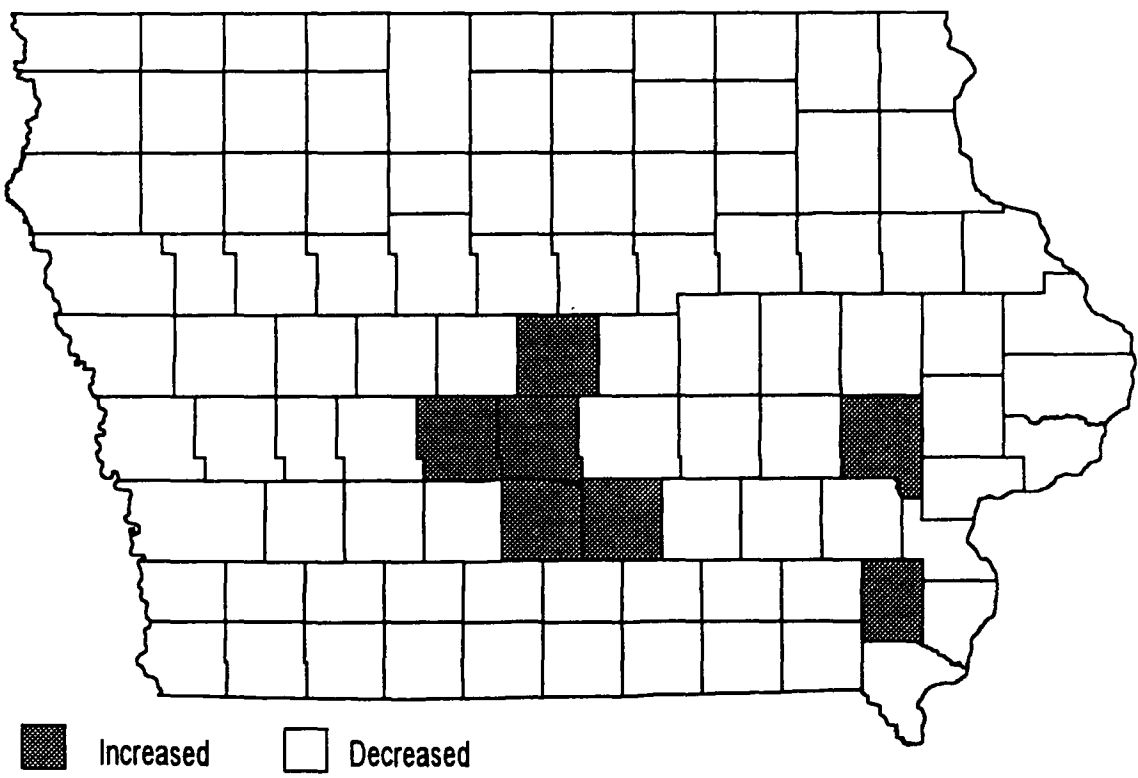


Figure 4. Percent increase, 1980-1990.

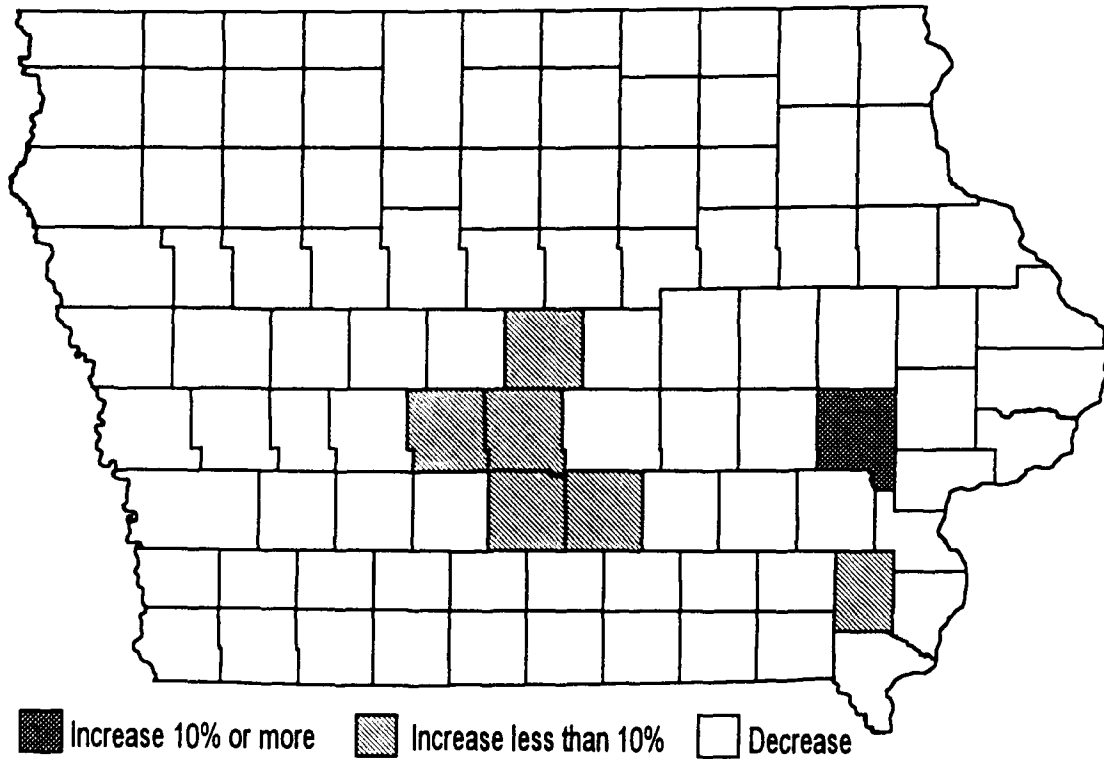
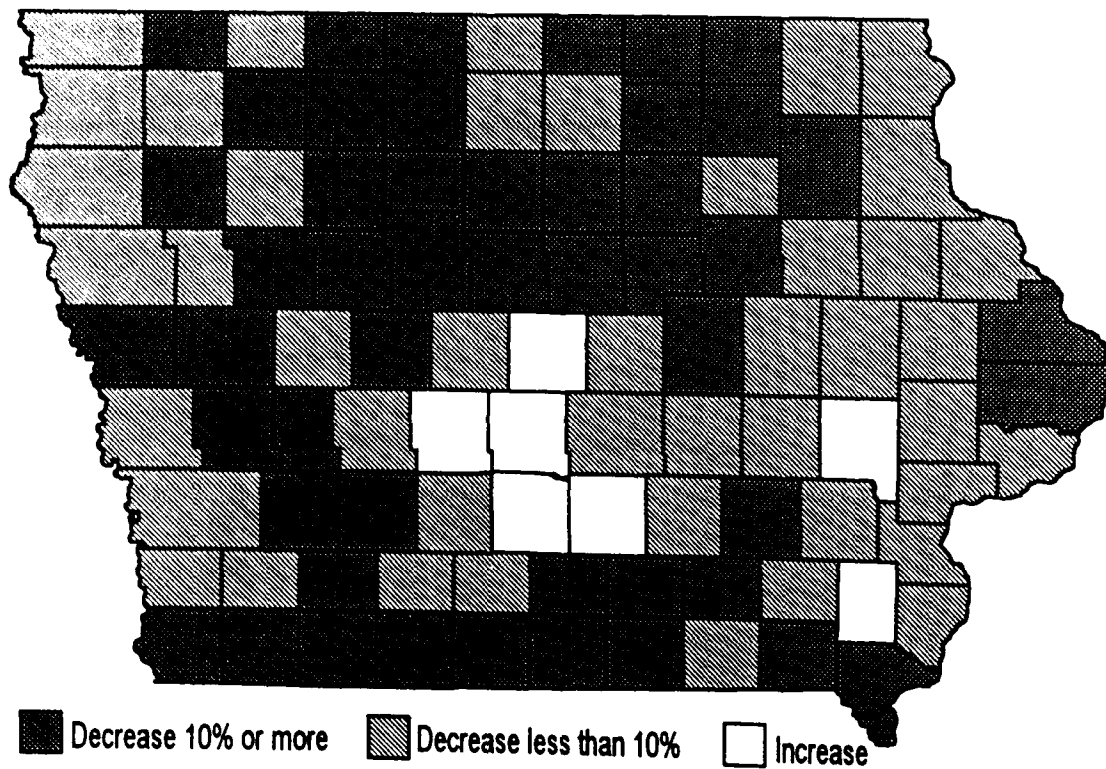


Figure 5. Percent decrease, 1980-1990.





## Historical Trends of the Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places

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The U.S. Bureau of the Census estimates the population of incorporated places every two years between decennial censuses. The estimates for 1 July 1994 were released in September of 1995. They are included with counts from the 1850 to 1990 censuses in Table 1. Some 1990 numbers have been corrected from reports published previously.

Estimates were reported for 952 incorporated places in 1994, a decline of one from the 1990 figure of 953; Donnan (population of 7 in 1990) disincorporated between 1990 and 1994 and no new place incorporated during that period. Iowa had 680 places with fewer than 1,000 residents in 1990; 673 were in this category according to the 1994 estimates (Table 2). The same number of places with at least 25,000 residents was reported both times. Changes were relatively small in the number of people living in places of various sizes from 1990 to 1994 (Table 3).

Nearly three-fifths (58.7%) of the places gained population from the last census to 1994 (Table 4). In most places, change was modest; half (50.6%) of the places changed by less than 5 percent in either direction. But substantial differences occur when 1990-1994 is compared with 1980-1990. In the 1980s, nearly four of five (78.4%) incorporated places lost population; from 1990 to 1994, fewer than two of five (38.6%) declined. The total population living in towns with fewer than 250 residents decreased from 1990 to 1994 while it grew in other size categories (Table 5). Again, this differs from the 1980s (Table 6). The greatest numerical increase occurred among places with 10,000 to 24,999 residents in 1990-1994; in the 1980s, this was the only size category to grow. Many of the places of this size are close to larger urban centers.

Administrative records (namely, changes of address on federal tax returns) were used to create that part of the estimate due to migration, with the differences between 1990 and 1994 calculated for each incorporated place. Birth and death data, also used to generate estimates, were available only for counties, however; the census bureau allocated births and deaths occurring within a county across all incorporated places and other areas within that county.

Research by the U.S. Bureau of the Census on estimates reported in the 1980s indicated that these numbers are subject to substantial error. The chances of errors tend to increase the smaller the incorporated place. Thus, great caution is urged in using these estimates. Some will find it preferable to create their own estimates based on average population change over one or more previous decades. The data from 1850 through 1990 are provided for that purpose.

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places.

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Ackley	1696	1900	1794	1731	1608	1586	1524	1529	1244	1445	1286	1517				1718	Franklin, Hardin
Ackworth	66	83	111	77	95	67	82	95	119	134						70	Warren
Adair	894	883	750	742	827	874	950	952	900	879	722	306				882	Adair, Guthrie
Adel	3304	2846	2419	2060	1799	1740	1669	1455	1289	1213	995	989	711	466		3690	Dallas
Afton	953	985	823	773	936	987	1013	926	1014	1178	1045	1231	961			998	Union
Agency	616	657	610	702	524	452	371	429	322	408	442	566	630			615	Wapello
Ainsworth	506	547	455	371	396	415	359	391	408	404						572	Washington
Akron	1450	1517	1324	1351	1251	1314	1304	1324	1130	1029	494					1488	Plymouth
Albert City	779	818	683	722	736	759	563	567	261							800	Buena Vista
Albia	3870	4184	4151	4582	4838	5157	4425	5067	4969	2889	2359	2435	1621	620		3936	Monroe
Albion	585	739	772	588	492	476	436	392	457	440	384	495	475			583	Marshall
Alburnett	459	411	418	341	254	208	199	201								489	Linn
Alden	855	953	876	838	829	682	793	840	699	709	512	495				851	Hardin
Alexander	170	190	249	294	278	324	334	315	262							159	Franklin
Algona	6015	6289	6032	5702	5415	4954	3985	3724	2908	2911	2068	1359	860			6112	Kossuth
Alleman	340	307														398	Polk
Allerton	599	670	643	692	761	782	784	954	862	950	807	888				575	Wayne
Allison	1000	1132	1071	952	771	708	603	520	495	463						1074	Butler
Alta	1820	1720	1717	1393	1348	1269	1297	1290	959	861	768	423				1798	Buena Vista
Alta Vista	246	314	283	276	312	333	293	355	356	179						264	Chickasaw
Alton	1063	986	1018	1048	1038	1025	1014	1007	1046	1009	708					1215	Sioux
Altoona	7242	5764	2883	1458	763	640	514	502	438	328	326	400				7882	Polk
Alvord	204	246	204	238	263	306	313	359	283	249						202	Lyon
Ames	47198	45775	39505	27003	22898	12555	10261	6270	4223	2422	1276	1153	636			46562	Story
Anamosa	5100	4958	4389	4616	3910	4069	3579	2881	2983	2891	2078	2083	2083	889		5306	Jones
Andover	99	107	90	91	80	72	76	83	51							92	Clinton
Andrew	319	349	335	349	280	263	212	289	307	273	307	288	352	168		346	Jackson
Anita	1068	1153	1101	1233	1112	1088	1106	1236	1118	968	695	479				1027	Cass
Ankeny	18482	15429	9151	2964	1229	779	632	648	445							21208	Polk
Anthon	638	687	711	681	770	881	826	783	635	437						634	Woodbury
Aplington	1034	1027	936	840	702	588	622	598	448	427	427					1091	Butler
Arcadia	485	454	414	437	425	410	391	375	390	405	463	426				434	Carroll
Archer	145	134	134	209	167	178	150	184	351							130	O'Brien
Aredale	88	88	126	153	204	225	204									89	Butler
Arion	148	207	199	201	220	271	269	242	168	192						117	Crawford
Arispe	92	89	93	125	110	149	133	156	155							87	Union
Arlington	465	498	481	614	661	675	706	729	678	863	593	417				558	Fayette
Armstrong	1025	1153	1061	958	943	937	767	818	586	907						996	Emmet
Arnolds Park	953	1051	970	953	1078	855	597	478	273	251						972	Dickinson
Arthur	272	288	273	265	243	254	249	290	215	162						247	Ida
Asbury	2013	2017	410	71	52	27										2071	Dubuque
Ashton	462	441	483	615	588	620	568	610	518	513	309					530	Osceola
Aspinwall	52	65	81	95	107	88	107	125								56	Crawford
Atalissa	357	360	244	212	204	181	187	198	220							423	Muscatine
Athelstan	31	45	65	75	115	143	141	150	148	255						31	Taylor
Atkins	637	678	581	527	387	330	314	202								768	Benton
Atlantic	7432	7789	7306	6890	6480	5802	5585	5329	4560	5046	4351	3662	1200			7474	Cass
Auburn	283	320	329	367	350	383	359	406	399	293	174					294	Sac
Audubon	2524	2841	2907	2928	2808	2409	2255	2108	1928	1866	1310	792				2474	Audubon
Aurelia	1034	1143	1065	904	807	752	723	708	625	621	663	225				1121	Cherokee
Aurora	196	248	229	223	225	276	281	284	287	331						206	Buchanan
Avoca	1497	1650	1535	1540	1595	1598	1673	1482	1520	1627		1600				1549	Pottawattamie
Ayrshire	195	243	243	298	334	391	343	361	337	329						149	Palo Alto
Badger	569	653	465	340	301	251	254	244	212	240						611	Webster
Bagley	303	370	365	406	392	427	477	505	488	355						298	Guthrie

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Baldwin	137	198	172	228	208	210	224	232	229	254	227	322				100	Jackson
Balltown	74	106	79	43	49	56										74	Dubuque
Bancroft	857	1082	1103	1000	901	959	854	902	830	839	657					831	Kossuth
Bankston	35	40	28	36	40	29										38	Dubuque
Barnes City	221	266	238	273	326	414	375	473	307	274						224	Mahaska, Poweshiek
Barnum	174	198	147	154	193	184	148	137	154	175						160	Webster
Bassett	74	128	152	130	125	147	149	135	130	149						73	Chickasaw
Batavia	520	525	525	533	524	474	478	560	560	533	307	328	310			512	Jefferson
Battle Creek	818	919	837	786	873	827	804	785	527	542	387	205				757	Ida
Baxter	938	951	788	681	618	623	569	571	527	427						948	Jasper
Bayard	511	637	628	597	634	703	681	727	539	494	348					497	Guthrie
Beacon	509	530	338	718	371	382	350	381	623	953	570	727				516	Mahaska
Beaconsfield	27	39	48	71	104	148	201	170	148	177						26	Ringgold
Beaman	183	219	222	247	191	167	183	214	220	266	262	201				184	Grundy
Beaver	46	85	113	115	114	126	111	132								45	Boone
Bedford	1528	1692	1733	1807	2000	2151	2100	2073	1883	1977	1643	1763	720			1516	Taylor
Belle Plaine	2834	2903	2810	2923	3056	3202	3239	3887	3121	3283	2623	1689	1488			2943	Benton
Bellevue	2239	2450	2336	2181	1932	1771	1717	1663	1776	1607	1394	1581	1353	929	362	2532	Jackson
Belmond	2500	2505	2358	2506	2169	2109	1733	1797	1224	1234	803					2518	Wright
Bennett	395	458	385	374	357	352	305	362	243	238						441	Cedar
Benton	39	33	46	84	128	189	173	246	191	192						39	Ringgold
Berkley	39	49	56	58	71	105	82	68								40	Boone
Bernard	123	130	148	173	149	111	123	105	95	113						121	Dubuque
Bertram	201	216	177	170	128	90	102	96								207	Linn
Bettendorf	28139	27381	22126	11534	5132	3143	2768	2178	909							30640	Scott
Bevington	67	60	54	55	48	35	50	71								71	Madison, Warren
Birmingham	386	410	452	441	643	498	507	539	572	622	545	515	626		231	398	Van Buren
Blairsburg	269	288	287	287	257	276	274	272	241							254	Hamilton
Blairstown	672	695	612	583	523	525	488	540	532	592	583	652	682			733	Benton
Blakesburg	333	404	403	401	401	442	397	380	344				236	265		296	Wapello
Blanchard	67	101	139	174	214	259	347	429	408	520	432	321				56	Page
Blencoe	250	247	255	286	328	367	333	317	283	279						254	Monona
Blockton	213	280	273	343	407	488	537	524	648	704						198	Taylor
Bloomfield	2580	2849	2718	2771	2688	2732	2226	2064	2028	2105	1913	1531	1553		287	2614	Davis
Blue Grass	1214	1377	1032	568	337	287	246	205	223							1222	Scott
Bode	335	406	372	430	492	533	507	513	419	409						355	Humboldt
Bonaparte	465	489	517	574	642	653	678	656	597	898	762	689				478	Van Buren
Bondurant	1584	1283	462	389	328	320	289	274	287	297						1828	Polk
Boone	12392	12602	12468	12468	12164	12373	11886	12451	10347	8880	6520	3330				12678	Boone
Bouton	149	139	160	145	159	162	141	187								149	Dallas
Boxholm	214	267	242	250	304	285	280	296								218	Boone
Boyden	651	708	670	562	541	487	446	419	364	336	277					680	Sioux
Braddyville	219	199	207	176	249	242	267	294	283	236	175	214				206	Page
Bradgate	124	151	130	166	188	261	223	230	175	223						133	Humboldt
Brandon	320	337	432	322	319	324	308	343	200							308	Buchanan
Brayton	148	170	151	225	239	217	236	244	137	141	124	38				140	Audubon
Breda	467	502	518	543	506	532	481	419	374	395	256	109				453	Carroll
Bridgewater	209	233	188	225	296	302	327	343	365							190	Adair
Brighton	684	804	632	724	705	791	800	1014	776	807	861	836	785			600	Washington
Bristow	197	252	230	268	313	318	293	299	291	317	257	198				266	Butler
Britt	2133	2185	2069	2042	1908	1813	1593	1619	1303	1540	818	345				1994	Hancock
Bronson	209	289	193													170	Woodbury
Brooklyn	1439	1509	1410	1415	1323	1408	1345	1533	1233	1188	1202	1234	971	184		1477	Poweshiek
Brunsville	137	140	125	128	112	109	134	111								135	Plymouth
Buckeye	105	154	143	190	192	194	219	188	140							111	Hardin

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Buck Grove	55	84	41	40	67	80	86	91	87							70	Crawford
Buffalo	1250	1569	1513	1088	695	588	547	487	456	372	379	400	368			1257	Scott
Buffalo Center	1081	1233	1118	1140	1087	911	768	894	753	875						1032	Winnebago
Burlington	27208	29529	32366	32430	30613	25832	26755	24057	24324	23201	22565	19450	14930	6706	4082	27573	Des Moines
Burt	575	689	608	620	572	613	580	626	495	504						620	Kossuth
Bussey	494	579	498	557	633	632	546	585	669	550						516	Marion
Calamus	379	452	396	435	381	384	374	399	270	287	216	163				409	Clinton
Callender	384	446	421	358	387	377	349	376	321	399						361	Webster
Calmar	1026	1053	1008	954	937	903	915	1039	849	1003	813	617				1079	Winneshiek
Calumet	160	212	219	225	250	274	249	266	242	113						169	O'Brien
Camanche	4436	4725	3470	2225	1212	814	728	610	629	713	753	762	840			4442	Clinton
Cambridge	714	732	661	587	573	608	639	739	696	667	432	223	200			723	Story
Cantril	271	299	258	299	353	376	370	440	445	356	356	252				265	Van Buren
Carbon	60	110	135	162	282	383	266	254	246							58	Adams
Carlisle	3241	3073	2246	1317	903	690	663	640	592	553		395	200	138		3533	Polk, Warren
Carpenter	102	109	122	177	165	156	110	144	121		116	131				106	Mitchell
Carroll	9579	9705	8716	7682	6231	5389	4691	4254	3546	2882	2448	1385	384			9801	Carroll
Carson	705	716	756	583	596	613	617	692	640	632	391					668	Pottawattamie
Carter Lake	3200	3438	3268	2287	1183	846										3121	Pottawattamie
Cascade	1812	1912	1744	1601	1299	1376	1221	1249	1268	1266	955	762				1852	Dubuque, Jones
Casey	441	473	561	589	703	709	785	908	735	568	452	473				434	Adair, Guthrie
Castalia	177	188	210	216	221	239	200	272	230							191	Winneshiek
Castana	159	228	211	230	265	336	334	389	364	355						190	Monona
Cedar Falls	34298	36322	29597	21195	14334	9349	7362	6316	5012	5319	3459	3020	3070			33908	Black Hawk
Cedar Rapids	108772	110243	110642	92035	72296	62120	56097	45566	32811	25656	18020	10104	5940	1830		113438	Linn
Center Junction	166	182	172	201	153	204	198	225	199	255	210	190				166	Jones
Center Point	1693	1591	1456	1236	987	861	812	773	802	674	615	603	443			1970	Linn
Centerville	5936	6558	6531	6629	7625	8413	8147	8486	6936	5256	3668	2475	1037	820		5883	Appanoose
Central City	1063	1067	1116	1087	965	810	780	688	558	623	467					1098	Linn
Centralia	123	106	105	85	78	57		267								126	Dubuque
Chariton	4616	5116	5009	5042	5320	5754	5365	5175	3794	3989	3122	2977	1728	641		4530	Lucas
Charles City	7878	8778	9268	9964	10309	8681	8039	7350	5892	4227	2802	2421	2166			7970	Floyd
Charlotte	359	442	444	417	427	393	407	464	356		231	294				380	Clinton
Charter Oak	497	615	715	665	710	776	688	750	734	772	567					526	Crawford
Chatsworth	103	110	90	84	102	144	159	150	131							119	Sioux
Chelsea	336	376	381	453	482	540	575	557	507	419	318	263				321	Tama
Cherokee	6026	7004	7272	7724	7705	7469	6443	5824	4884	3865	3441	1523	438			6007	Cherokee
Chester	158	175	185	211	226	234	238	237	266							155	Howard
Chillicothe	119	131	126	148	196	173	156	146	181	216	214	234	211			121	Wapello
Churdan	423	540	598	586	593	677	616	763	667	626	377					421	Greene
Cincinnati	363	598	570	583	703	859	911	1301	1355	1212	432	189				379	Appanoose
Clare	183	229	249	245	179	232	254	259	299	374						184	Webster
Clarence	936	1001	915	859	791	685	659	693	662	675	629	607	726			1006	Cedar
Clarinda	5104	5458	5420	5901	5086	4905	4962	4511	3832	3276	3262	2011	1022	427		5144	Page
Clarion	2703	3060	2972	3232	3150	2971	2578	2826	2065	1475	744	147	37			2821	Wright
Clarksville	1382	1424	1360	1328	1210	1240	1143	1003	895	849	735	818				1477	Butler
Clayton	41	68	113	130	136	161	162	170	145							41	Clayton
Clearfield	417	433	430	504	547	615	607	665	625	698	452					385	Ringgold, Taylor
Clear Lake	8183	7458	6430	6158	4977	3764	3066	2804	2014	1706	1130	1095	775			8473	Cerro Gordo
Cleghorn	275	275	274	228	246	236	238	232	186							306	Cherokee
Clemons	173	175	178	198	202	207	241	216	213							171	Marshall
Clermont	523	602	582	570	625	626	631	681	510	513	488	553				537	Fayette
Clinton	29201	32828	34719	33589	30379	26270	25726	24151	25577	22698	13619	9052	6129			28966	Clinton
Clio	103	106	113	120	162	200	229	299	178	218						87	Wayne
Clive	7462	6064	3005	752												7951	Polk

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Clutier	219	249	275	292	302	354	350	299	186							220	Tama
Coburg	58	52	36	54	83	162	200	170	177	164	60	83				60	Montgomery
Coggon	645	639	656	672	604	512	503	553	471	498						708	Linn
Coin	278	316	294	346	407	457	536	603	591	574						291	Page
Colesburg	439	463	379	365	326	306	340	337	271	274						452	Delaware
Colfax	2462	2234	2293	2331	2279	2222	2213	2504	2524	2053	957	620				2612	Jasper
College Springs	230	307	295	290	368	430	484	495	626	693	491	531				235	Page
Collins	455	451	404	435	432	516	489	570	521	540						469	Story
Colo	771	808	606	574	538	539	532	507	463	391	261	296	226			922	Story
Columbus City	328	367	312	327	350	326	263	346	375	388	459	605				378	Louisa
Columbus Junction	1616	1429	1205	1016	1123	975	867	988	1185	1099	953	793	850	519		1854	Louisa
Colwell	94	91	100	119	122	93	87									91	Floyd
Conesville	334	301	295	248	252	302	254	307	347			244				315	Muscatine
Conrad	964	1133	932	799	649	591	536	560	549	483	157					963	Grundy
Conway	57	93	91	82	168	246	266	253	283	348	379	423				59	Taylor
Coon Rapids	1266	1448	1381	1560	1676	1533	1303	1328	1084	1017	873	54				1200	Carroll
Coppock	50	47	58	61	81	93	93	104	105							51	Henry, Jeff., Wash.
Coralville	10347	7687	6130	2357	977	433	254	150	151	125	173	347				11654	Johnson
Corning	1806	1939	2095	2041	2104	2162	2026	1840	1702	2145	1682	1526				1726	Adams
Correctionville	897	935	870	912	992	1151	1058	1016	893	935	869	86				885	Woodbury
Corwith	354	480	438	488	480	481	481	635	455	651	347					336	Hancock
Corydon	1675	1818	1745	1687	1870	1872	1768	1867	1669	1477	962	801	618	254		1640	Wayne
Cotter	53	60	55	52	49	72	118	100								55	Louisa
Coulter	252	264	262	315	271	236	266	277	198							280	Franklin
Council Bluffs	54315	56449	60348	55641	45429	41439	42048	36162	29292	25802	21474	18063	10020	2011		54850	Pottawattamie
Craig	116	105	98	117	142	165	155	156								99	Plymouth
Crawfordsville	265	290	288	317	286	316	291	337	322	268			249			163	Washington
Crescent	469	547	284	296												484	Pottawattamie
Cresco	3669	3860	3927	3809	3638	3530	3069	3195	2658	2806	2018	1875	912			3744	Howard
Creston	7911	8429	8234	7667	8317	8033	8615	8034	6924	7752	7200	5081	411			7655	Union
Cromwell	120	157	168	138	147	165	173	143	208	208			166			119	Union
Crystal Lake	266	314	276	267	286	301	271	191	143	246						293	Hancock
Cumberland	295	351	385	425	493	578	595	561	552	591						280	Cass
Cumming	132	151	189	148	131	139	149									139	Warren
Curlew	56	85	95	134	151	183	178	204	161							39	Palo Alto
Cushing	241	270	204	261	248	258	270	286	254	237						241	Woodbury
Cylinder	112	119	133	161	143	175	157	174	129	118						71	Palo Alto
Dakota City	1024	1072	746	706	637	537	448	439	391	362	353	248	162			1055	Humboldt
Dallas Center	1454	1360	1128	1083	944	865	852	864	769	625	445	450	133			1597	Dallas
Dana	71	110	118	123	184	153	195	163	183							66	Greene
Danbury	430	492	527	510	601	728	656	677	558	480	423	69				430	Woodbury
Danville	926	994	948	579	450	309	327	289	263							988	Des Moines
Davenport	95333	103264	98469	88981	74549	66039	60751	56727	43028	35254	26872	21831	20038	11267	1848	96964	Scott
Davis City	257	327	301	346	432	556	548	476	489	617	594	348				238	Decatur
Dawson	174	229	232	257	286	289	262	300	275							117	Dallas
Dayton	818	941	909	820	793	732	713	836	717	753	669	239				831	Webster
Decatur City	177	199	198	203	196	275	282	300	311	367	215	235				175	Decatur
Decorah	8063	8068	7237	6435	6060	5303	4581	4039	3592	3246	2801	2951	2110			8699	Winneshiek
Dedham	264	321	325	322	360	392	327	360	355	374	273					255	Carroll
Deep River	345	323	323	329	379	443	392	487	467	403	291					336	Poweshiek
Defiance	312	383	392	386	368	428	411	389	411	387	323					339	Shelby
Delaware	176	170	153	167	192	198	165	194								168	Delaware
Delhi	485	511	527	464	383	421	399	390	375				413			519	Delaware
Delmar	517	633	599	556	415	434	480	527	548	592	518	410				667	Clinton
Deloit	296	345	279	222	235	281	280	260	208				103			273	Crawford

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Delphos	23	45	35	48	74	90	79									22	Ringgold
Delta	409	482	475	514	562	602	588	688	728	691	409	416				391	Keokuk
Denison	6604	6675	6218	4930	4554	4361	3905	3581	3133	2771	1782	1441	326			6742	Crawford
Denver	1600	1647	1169	831	635	556	500	462	224	102						1763	Bremer
Derby	135	171	161	151	194	269	280	334	326							114	Lucas
Des Moines	193189	191003	201404	208982	177965	159819	142559	126468	86368	62139	50093	22408	12035	3965	502	193965	Polk
De Soto	1033	1035	369	273	280	274	319	261	356	345	328	347				1102	Dallas
De Witt	4514	4512	3647	3224	2644	2205	2041	1849	1634	1383	1359	1608	1749			4963	Clinton
Dexter	628	678	652	670	643	760	748	790	767	795	607	704				635	Dallas
Diagonal	298	362	327	443	472	603	577	569	509	383						320	Ringgold
Dickens	214	289	240	241	311	378	333	337	255							212	Clay
Dike	875	987	794	630	517	408	417	453	286							895	Grundy
Dixon	228	312	276	280	208	226	193	197	198							237	Scott
Dolliver	103	125	95	122	130	179	158	171	107							93	Emmet
Donahue	316	289	216	133	105	89	98	101	64							324	Scott
Donnellson	940	972	798	709	589	515	581	456	337	270						1147	Lee
Doon	476	537	437	436	517	576	576	576	581	545						486	Lyon
Dougherty	107	128	133	177	212	215	215	200	171							95	Cerro Gordo
Dow City	439	616	571	531	524	642	588	572	462		451	291				417	Crawford
Dows	660	771	777	882	948	945	926	1145	892	818						729	Franklin, Wright
Drakesville	172	212	163	197	222	252	190	261	249	238	303	300	207		108	147	Davis
Dubuque	57538	62374	62309	56606	49671	43892	41679	39141	38494	36297	30311	22254	18434	13000	3108	59084	Dubuque
Dumont	705	815	724	719	718	762	698	609	550	433						745	Butler
Duncombe	488	504	418	355	378	341	354	442	418	350						517	Webster
Dundee	174	164	166	185	176	193	190	195								150	Delaware
Dunkerton	746	718	563	507	409	360	327	295	276	217						799	Black Hawk
Dunlap	1251	1374	1292	1254	1409	1550	1522	1455	1155	1355	1088	1246				1181	Harrison
Durango	34	41	55	37	71	42		37								33	Dubuque
Durant	1549	1583	1472	1266	1075	810	733	775	720	560	505	475	373	127		1619	Cedar, Muscatine, Scott
Dyersville	3696	3825	3437	2818	2416	2138	2046	1933	1511	1323	1272	975				3856	Delaware, Dubuque
Dysart	1230	1355	1251	1197	1089	986	971	955	906	902	775	516				1367	Tama
Eagle Grove	3671	4324	4489	4381	4176	4024	4071	4433	3387	3557	1881					3713	Wright
Earlham	1157	1140	974	788	771	865	897	803	749	630	302	260	222			1348	Madison
Earling	466	520	573	431	341	320	358	321	323	340						439	Shelby
Earlville	822	844	751	668	661	687	615	619	552	618	569	450				827	Delaware
Early	649	670	727	824	742	644	632	568	500	579	277					689	Sac
East Peru	132	124	184	173	204	267	304	253	371	252						141	Madison
Eddyville	1036	1116	945	1014	941	984	888	961	1085	1230	815	909	1212	912		1197	Mahaska, Monroe, Wapello
Edgewood	842	900	786	767	696	716	638	617	555	565						823	Clayton, Delaware
Elberon	203	194	203	211	225	256	254	349	336	344						219	Tama
Eldon	1070	1255	1319	1386	1457	1676	1788	2091	2024	1850	1725	729				971	Wapello
Eldora	3038	3063	3223	3225	3107	3553	3200	3189	1995	2233	1577	1584	1268			2933	Hardin
Eldridge	3378	3279	1535	583	376	283	245	234	217	207						3713	Scott
Elgin	637	702	613	644	642	638	610	623	564	635	369	428				684	Fayette
Elkader	1510	1688	1592	1526	1584	1556	1382	1223	1181	1321	745	851	697	440		1423	Clayton
Elkhart	388	256	269	260	222	215	218	196	132							479	Polk
Elk Horn	672	746	667	679	566	486	513	589								673	Shelby
Elkport	82	98	87	100	99	130	116	202	210	326						74	Clayton
Elk Run Heights	1088	1186	1175	1124												1204	Black Hawk
Elliott	399	493	423	459	482	548	556	586	528	516	317	177				398	Montgomery
Ellston	44	60	76	116	158	195	212	212	205	242						44	Ringgold
Ellsworth	451	480	443	493	439	444	405	512	406	319						470	Hamilton
Elma	653	714	601	706	731	790	771	874	807	976						631	Howard
Ely	517	425	275	226	155	170	172	174	161							539	Linn
Emerson	476	502	484	521	556	498	512	475	478	502	404	456				425	Mills

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Emmetsburg	3940	4621	4150	3887	3760	3374	2865	2762	2325	2361	1584	879	44			3964	Palo Alto
Epworth	1303	1380	1132	698	536	454	464	468	520	549	348					1387	Dubuque
Essex	916	1001	770	767	763	762	806	727	776	710	564	617				915	Page
Estherville	6720	7518	8108	7927	6719	5651	4940	4699	3404	3237	1475	138				6789	Emmet
Evansdale	4638	4798	5038	5738	3571											4583	Black Hawk
Everly	706	796	699	668	547	523	482	480	392							721	Clay
Exira	955	978	966	1111	1129	1046	937	840	787	851	575	604	161	83		961	Audubon
Exline	187	217	224	223	342	481	437	755	660		76	34				200	Appanoose
Fairbank	1018	980	810	650	653	631	629	657	618	644	448	223				1080	Buchanan, Fayette
Fairfax	780	683	635	528	335	262										821	Linn
Fairfield	9768	9428	8715	8054	7299	6773	6619	5948	4970	4689	3391	3086	2226	1692	909	10256	Jefferson
Farley	1348	1287	1096	920	745	739	657	651	676	513	582	471				1420	Dubuque
Farmersburg	291	276	232	250	263	296	275	290	259	143						272	Clayton
Farmington	655	869	800	902	899	968	1012	1086	1165	1332	1002	781	640		585	688	Van Buren
Farnhamville	414	461	393	409	399	425	365	380	332	348	137					413	Calhoun, Webster
Farragut	498	603	521	495	495	496	523	494	431	514	406	380				526	Fremont
Fayette	1317	1515	1947	1597	1469	1162	1083	1085	1112	1315	1062	995				1373	Fayette
Fenton	346	394	403	440	446	385	381	391	211							319	Kossuth
Ferguson	166	173	203	186	178	183	175	207	127							177	Marshall
Fertile	382	372	394	386	397	276	238	223	207							377	Worth
Floris	172	187	145	187	215	247	209	252								186	Davis
Floyd	359	408	380	401	440	352	350	308	332	353						438	Floyd
Fonda	731	863	980	1026	1120	1188	1027	1136	978	1180	625	168				684	Pocahontas
Fontanelle	712	805	752	729	812	797	833	869	789	853	830	563				683	Adair
Forest City	4430	4270	3841	2930	2766	2545	2016	2145	1691	1758	895	688	155			4428	Hancock, Winnebago
Fort Atkinson	367	374	339	353	273	261	305	315	289	264	480	435				359	Winneshiek
Fort Dodge	25894	29423	31263	28399	25115	22904	21895	19347	15543	12162	4871	3586	3095	672		25299	Webster
Fort Madison	11618	13520	13996	15247	14954	14063	13779	12066	8900	9278	7901	4679	4011	2886	1509	12400	Lee
Fostoria	205	261	219	167	147	136	142	119								200	Clay
Franklin	152	142	111	174	146	80	92	119	138	210	333	367	628	449		158	Lee
Fraser	120	139	143	134	219	263	309	391	537							122	Boone
Fredericksburg	1011	1075	912	797	701	649	567	624	558	565	321	203				1087	Chickasaw
Frederika	188	223	190	249	210	236	204	210	149	170						189	Bremer
Fredonia	201	224	168	147	133	147	165				157	150			369	143	Louisa
Fremont	701	730	480	461	471	490	450	544	501	542						770	Mahaska
Fruitland	511	461														547	Muscatine
Galt	43	60	50	75	117	156	167	134								30	Wright
Galva	398	420	412	469	492	496	530	539	357	456						405	Ida
Garber	118	140	148	148	153	158	120	189	131							125	Clayton
Garden Grove	229	297	285	335	417	558	558	666	611	651	554	549				228	Decatur
Garnaville	727	723	634	662	581	461	365	314	342							696	Clayton
Garner	2916	2908	2257	1990	1696	1549	1241	1311	1028	1288	679	321				2790	Hancock
Garrison	320	411	383	421	457	459	432	437	438	482	367	255				463	Benton
Garwin	533	626	563	546	518	517	450	587	425	470						596	Tama
Geneva	169	218	201	219	242	268	249	244	199							148	Franklin
George	1066	1241	1194	1200	1210	1107	907	788	606	394						1105	Lyon
Gibson	63	75	80	77												75	Keokuk
Gilbert	796	805	521	318	297	226	221	221	235							908	Story
Gilbertville	748	740	655	533	399	259	241	212								737	Black Hawk
Gillett Grove	67	93														68	Clay
Gilman	586	642	513	491	508	483	428	490	430	465	473	553				646	Marshall
Gilmore City	560	626	766	688	746	908	896	919	689	687						564	Humboldt, Pocahontas
Gladbrook	881	970	961	949	862	945	891	961	869	842	556					1016	Tama
Glenwood	4960	5280	4421	4783	4664	4501	4269	3862	4052	3040	1890	1793	1291	614		5058	Mills
Glidden	1099	1076	964	993	996	941	854	867	850	733	532	584	177			1137	Carroll

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Goldfield	710	789	722	682	665	715	700	749	618	628	343	99				723	Wright
Goodell	201	220	218	231	242	236	210	245	240	254						207	Hancock
Goose Lake	221	274	218	191	148	145	128	97	110		42	61				221	Clinton
Gowrie	1028	1089	1225	1127	1052	1028	1059	895	829	681	526	261				1010	Webster
Graettinger	813	923	907	879	1016	928	777	779	556	388						827	Palo Alto
Graf	66	98	70	47	44	37		281								78	Dubuque
Grafton	282	255	254	273	278	256	249	233	183	156						247	Worth
Grand Junction	808	970	967	949	1036	1125	1025	1010	1012	1113	932	752	444			805	Greene
Grand Mound	619	674	627	565	526	526	438	463	428	355	247	234				614	Clinton
Grand River	171	188	211	284	350	374	395	425	333	326						128	Decatur
Grandview	514	473	357	300	311	315	321	341	374			344	422	356		553	Louisa
Granger	624	619	661	468	300	324	319	324	225							644	Dallas
Grant	123	143	152	180	237	231	242	282								139	Montgomery
Granville	298	336	383	381	350	361	390	358	400	351						297	Sioux
Gravity	218	245	286	275	369	514	465	464	475	549	210					163	Taylor
Gray	83	108	145	162	183	182	194	196	148	180						78	Audubon
Greeley	284	313	323	369	360	403	343	410	383	488						249	Delaware
Greene	1142	1332	1363	1427	1347	1303	1268	1375	1150	1192	845	711				1132	Butler
Greenfield	2074	2243	2212	2243	2102	1869	1837	1707	1379	1300	1048	684				2039	Adair
Green Island	54	103	112	97	120	148	116	132	128							55	Jackson
Greenville	84	122	117	173	173	169	168	167								73	Clay
Grimes	2653	1973	834	697	582	489	468	524	733	186						3683	Polk
Grinnell	8902	8868	8402	7367	6828	5210	4949	5362	5036	3860	3332	2415	1482	392		8915	Poweshiek
Griswold	1049	1176	1181	1207	1149	1132	1139	1264	949	900	752	350				1011	Cass
Grundy Center	2491	2880	2712	2403	2135	2012	1793	1749	1354	1322	1161	950				2638	Grundy
Gruver	102	145	135	140	135	138	126	118								71	Emmet
Guernsey	70	83	94	108	113	121	177	167	143							67	Poweshiek
Guthrie Center	1614	1713	1834	2071	2042	2066	1813	1727	1337	1193	1037	571				1766	Guthrie
Guttenberg	2257	2428	2177	2087	1912	1860	1918	1666	1873	1620	1160	1076	1040	1104		2269	Clayton
Halbur	215	229	235	214	235	209	192	186	147							225	Carroll
Hamburg	1248	1597	1649	1647	2086	2187	2103	2017	1817	2079	1634	2036	1431	167		1263	Fremont
Hamilton	115	163	186	197	245	291	296	474	391	538			133	107		141	Marion
Hampton	4133	4630	4376	4501	4432	4006	3473	2992	2617	2727	2067	1598	588			4202	Franklin
Hancock	201	254	228	252	264	256	312	276	250	276	167					162	Pottawattamie
Hanlontown	193	213	182	193	257	260	190	202	129							204	Worth
Hansell	83	138	124	168	190	183	172	163								79	Franklin
Harcourt	306	347	305	268	303	282	264	307	247	192						307	Webster
Hardy	47	72	73	110	139	168	147	128								44	Humboldt
Harlan	5148	5357	5049	4350	3915	3727	3145	2831	2570	2422	1765	1304	128	47		5289	Shelby
Harper	147	138	173	177	182	208	212	247	232	269	253	254				124	Keokuk
Harpers Ferry	284	258	227	211	252	361	289	328	297							293	Allamakee
Harris	170	228	195	258	319	309	328	359	239	217						164	Osceola
Hartford	768	761	582	271	221	207	207	218					295	320		804	Warren
Hartley	1632	1700	1694	1738	1611	1503	1272	1306	1106	1006	519					1782	O'Brien
Hartwick	115	92	101	126	107	122	122	107								111	Poweshiek
Harvey	235	275	217	270	346	418	348	422	346							202	Marion
Hastings	187	215	229	260	308	403	389	424	393	404	322	440				207	Mills
Havelock	217	279	248	289	307	326	339	331	241	397						187	Pocahontas
Haverhill	144	173	160													137	Marshall
Hawarden	2439	2722	2789	2544	2625	2681	2459	2491	2107	1810	744					2540	Sioux
Hawkeye	460	512	529	516	511	544	530	582	510	518		21				496	Fayette
Hayesville	62	93	93	122	137	120	133	124								59	Keokuk
Hazelton	733	877	626	665	550	536	499	517	444	500						865	Buchanan
Hedrick	810	847	790	762	733	731	810	901	978	1035	592					841	Keokuk
Henderson	206	236	211	191	208	217	237	232	240	244	201					215	Mills



Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Hepburn	41	42	38	49	64	81	140	108	110	118	75					40	Page
Hiawatha	4986	4885	2416	1336												5133	Linn
Hills	662	547	507	310	248	232	211	231	195							799	Johnson
Hillsboro	169	208	252	218	253	280	281	318								149	Henry
Hinton	697	659	488	403	345	340	289	263	329							801	Plymouth
Holland	215	278	258	264	221	202	175	165	168	175						198	Grundy
Holstein	1449	1477	1445	1413	1336	1296	1300	1248	936	870	539					1419	Ida
Holy Cross	293	310	290	157	139	123	111	98	143	115						268	Dubuque
Hopkinton	695	774	800	768	731	841	758	759	797	767	668	645				668	Delaware
Hornick	222	239	250	275	310	291	309	296	245	284						225	Woodbury
Hospers	643	655	646	600	604	592	548	570	581	415						705	Sioux
Houghton	127	124	119													105	Lee
Hubbard	814	852	846	806	836	779	795	681	568	676	452					799	Hardin
Hudson	2037	2267	1535	1085	613	492	470	408	372	359						2005	Black Hawk
Hull	1724	1714	1523	1289	1127	1072	905	791	658	626	566					1808	Sioux
Humboldt	4438	4794	4665	4031	3219	2819	2251	2232	1809	1474	1075	606	335			4412	Humboldt
Humeston	553	671	673	638	750	903	924	1214	1006	945	642					524	Wayne
Huxley	2047	1884	937	486	422	392	362	366	336							2230	Story
Ida Grove	2357	2285	2261	2265	2202	2238	2206	2020	1874	1967	1563	759	30			2400	Ida
Imogene	88	188	192	264	274	280	303	268	341	296	279	158				83	Fremont
Independence	5972	6392	5910	5498	4865	4342	3691	3672	3517	3656	3163	3128	2945	1395		6217	Buchanan
Indianola	11340	10843	8852	7062	5145	4123	3488	3628	3283	3261	2254	2146	1428	836		12554	Warren
Inwood	824	755	644	638	644	634	670	746	595	477						881	Lyon
Ionia	304	350	270	265	301	283	246	280	298	306						328	Chickasaw
Iowa City	59735	50508	46850	33443	27212	17182	15340	11267	10091	7987	7016	7123	5914	5214	1250	60655	Johnson
Iowa Falls	5435	6174	6454	5565	4900	4425	4112	3954	2797	2840	1796	955				5201	Hardin
Ireton	597	588	582	510	573	653	612	730	631	545	412					680	Sioux
Irwin	394	427	446	425	381	345	357	311	278	295						421	Shelby
Jackson Junction	87	94	106	89	107	122	126	130	160	171						88	Winneshiek
Jamaica	232	275	271	256	303	283	311	295	379							241	Guthrie
Janesville	822	840	741	648	445	366	331	261	269	311						877	Black Hawk, Bremer
Jefferson	4292	4854	4735	4570	4326	4088	3431	3416	2477	2601	1875	1444	779			4369	Greene
Jesup	2121	2343	1662	1488	1158	902	736	774	697	690	573	569				2299	Buchanan
Jewell	1106	1145	1152	1113	973	1051	950	1090	941	947	414					1188	Hamilton
Johnston	4702	2526	222													5279	Polk
Joice	245	223	201	231	244	263	225	233								265	Worth
Jolley	68	91	112	120	195	161	174	300	250	266						58	Calhoun
Kalona	1942	1862	1488	1235	947	765	704	632	466	530	211					2097	Washington
Kamrar	203	225	243	268	261	288	286	256	262	223						193	Hamilton
Kanawha	763	756	822	735	747	767	609	659	398							722	Hancock
Kellerton	314	278	299	341	483	563	540	693	503	458	277	169				331	Ringgold
Kelley	246	237	235	239	244	159	179	192	231	187						266	Story
Kellogg	626	654	607	623	670	648	580	603	610	653	700	772				651	Jasper
Kensett	298	360	361	409	424	392	394	338	360	459						340	Worth
Kent	65	70	86	94	169	138	177	183	158							58	Union
Keokuk	12451	13536	14631	16316	16144	15076	15106	14423	14008	14641	14101	12117	12766	8136	2478	12543	Lee
Keomah	99	99														100	Mahaska
Keosauqua	1020	1003	1018	1023	1101	1040	855	851	1009	1117	831	883	869		705	983	Van Buren
Keota	1000	1034	1112	1096	1145	1032	955	1025	988	996	777	710				1029	Keokuk
Keswick	284	300	257	265	276	307	358	354								269	Keokuk
Keystone	568	618	549	522	438	466	499	558	412	405						591	Benton
Kimballton	289	362	343	380	428	349	378	382	271							270	Audubon
Kingsley	1129	1209	1097	1044	1098	1145	1093	1072	977	720	649					1197	Plymouth
Kinross	89	79	98	103	105	109	137	138	142	132						90	Keokuk
Kirkman	98	95	72	92	131	185	183	204	180	203						95	Shelby

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Kirkville	177	220	222	203	213	241	206	210	299	402	714	280	236			238	Wapello
Kiron	301	317	275	271	255	260	259	294	207	89						299	Crawford
Klemme	587	620	554	615	555	528	463	468	306	262						567	Hancock
Knierim	71	125	131	153	133	159	121	173	220							69	Calhoun
Knoxville	8232	8143	7755	7817	7625	6936	4697	3523	3190	3131	2632	2577	800	1124		8490	Marion
Lacona	357	376	424	396	430	424	443	502	517	496	301	282				374	Warren
Ladora	308	289	321	307	273	300	284	340	260	239	224	211				310	Iowa
Lake City	1841	2006	1910	2114	2308	2216	2012	2110	2043	2703	1160	249	103			1916	Calhoun
Lake Mills	2143	2281	2124	1758	1560	1677	1474	1529	1214	1293	604	414				2069	Winnebago
Lake Park	996	1123	918	952	924	828	708	789	552	541						990	Dickinson
Lakeside	522	589	353	306	219	103										473	Buena Vista
Lake View	1303	1291	1249	1165	1158	1082	993	838	514	591	366					1296	Sac
Lakota	281	330	385	459	443	457	409	472	436	384						292	Kossuth
Lamb Grove	212	228	239	234												215	Jasper
Lamoni	2319	2705	2540	2173	2196	1567	1739	1787	1541	1540						2259	Decatur
Lamont	471	554	498	554	574	589	521	495	571	636						492	Buchanan
La Motte	260	322	326	323	280	272	275	327	288	272	154	161				266	Jackson
Lanesboro	182	196	203	258	280	289	270	282	268							187	Carroll
Lansing	1007	1181	1227	1325	1536	1388	1321	1447	1542	1438	1668	1811	1755			978	Allamakee
La Porte City	2128	2324	2256	1953	1770	1594	1470	1443	1233	1419	1052	1006				2214	Black Hawk
Larchwood	739	701	611	531	415	405	382	441	434	450						751	Lyon
Larrabee	175	169	167	167	158	189	189	206	158	125						176	Cherokee
Latimer	430	441	393	445	434	416	352	359	378							468	Franklin
Laurel	271	278	245	223	257	232	232	195	179							271	Marshall
Laurens	1550	1606	1792	1799	1556	1304	1071	914	817	853	318					1435	Pocahontas
Lawler	517	534	513	532	539	542	476	631	601	646	464	487				504	Chickasaw
Lawton	482	447	406	324	254	263	259	243	138							501	Woodbury
Le Claire	2734	2899	2520	1546	1124	881	691	724	690	997	906	1061	1093	1448		3007	Scott
Ledyard	164	215	240	289	327	317	245	246	222	257						159	Kossuth
Le Grand	854	921	565	465	393	329	382	320	338	408						899	Marshall
Lehigh	536	654	739	846	881	1004	996	1090	928	806	870					499	Webster
Leighton	142	137	140	167	118	128	115	130								140	Mahaska
Leland	311	274	223	209	209	235	164	180	188	215						299	Winnebago
Le Mars	8454	8276	8159	6767	5844	5353	4788	4683	4157	4146	4036	1895				9119	Plymouth
Lenox	1303	1338	1215	1178	1171	1220	1171	1197	1274	1014	706	615				1350	Adams, Taylor
Leon	2047	2094	2142	2004	2139	2307	2006	2193	1991	1905	1422	1367	820			1966	Decatur
Le Roy	34	31	43	70	91	129	142	174	185							34	Decatur
Lester	257	274	238	239	217	286	231	250	244	225						263	Lyon
Letts	390	473	434	392	404	362	329	417	433	387	325	300	88			375	Louisa
Lewis	433	497	526	501	511	557	589	607	603	613	579	550	400			415	Cass
Libertyville	264	281	329	368	311	310	258	321								301	Jefferson
Lidderdale	202	197	173	201	180	208	211	163	114							207	Carroll
Lime Springs	438	476	497	581	551	567	539	595	498	605	550	470				408	Howard
Lincoln	173	202	184	183	194	167	162	146								190	Tama
Linden	201	264	278	258	290	298	314	267	315	314						218	Dallas
Lineville	289	319	385	452	482	520	531	707	600	690	606	622				223	Wayne
Linn Grove	194	205	240	330	320	402	360	433								173	Buena Vista
Lisbon	1452	1458	1329	1227	952	873	795	803	846	956	1079	776		582		1659	Linn
Liscomb	258	296	328	295	278	340	326	347	354	338	313	452				256	Marshall
Littleport	88	106	97	119	139	170	203	191	166							83	Clayton
Little Rock	493	490	531	564	533	633	585	573	471	399						447	Lyon
Little Sioux	205	251	239	295	349	434	400	436	390	427	400	369				201	Harrison
Livermore	436	490	510	545	615	736	666	648	578	618	459	168				418	Humboldt
Lockridge	270	271	232	206	233	279	231	230								263	Jefferson
Logan	1401	1540	1526	1605	1550	1700	1654	1637	1453	1377	827	644				1429	Harrison

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Lohrville	453	521	553	653	698	776	776	727	674	597	435					457	Calhoun
Lone Rock	185	169	166	185	188	170	159	193								166	Kossuth
Lone Tree	979	1014	834	717	639	651	627	673	782	600						1090	Johnson
Long Grove	605	596	269	182	156	139	134	158								627	Scott
Lorimor	377	405	346	460	505	614	577	678	645	587						419	Union
Lost Nation	467	524	547	567	557	493	493	537	523		213	193				530	Clinton
Lovilia	566	637	640	630	619	852	727	958	552							637	Monroe
Lowden	726	717	667	641	642	645	697	655	584	544	405		486			768	Cedar
Low Moor	280	346	347	343	279	252	271	277	253	318						338	Clinton
Luana	190	246	225	276	220	204	186	181								183	Clayton
Lucas	224	292	247	357	420	534	514	614	666	1132	1320	981				251	Lucas
Luther	154	155	189	147	131	145	137	145	130							175	Boone
Lu Verne	328	418	380	468	553	576	570	610	501	534						327	Humboldt, Kossuth
Luxemburg	257	271	185	159	120	124	105	93								254	Dubuque
Luzerne	110	114	134	136	186	135	149	180	160	169			144			104	Benton
Lynnvile	393	406	381	411	406	427	426	461	370	347	261	296				383	Jasper
Lytton	320	377	378	376	373	335	373	278								311	Calhoun, Sac
Macedonia	262	279	330	290	298	329	314	352	357	295						286	Pottawattamie
Macksburg	110	132	142	174	220	255	218	228	197	235	186	204				121	Madison
Madrid	2395	2281	2448	2286	1829	2074	2061	1783	1191	1021	565	200				2590	Boone
Magnolia	204	207	206	215	207	242	271	299	311				450			167	Harrison
Malcolm	447	418	388	416	406	447	381	413	377	404	372	416				446	Poweshiek
Mallard	360	407	384	431	399	438	449	431	331	292						308	Palo Alto
Maloy	36	38	45	68	90	95	112	121	127							36	Ringgold
Malvern	1210	1244	1158	1193	1263	1325	1320	1195	1154	1166	1003	748				1178	Mills
Manchester	5137	4942	4641	4402	3987	3762	3413	3111	2758	2887	2344	2275	1492			5361	Delaware
Manilla	898	1020	943	939	1035	1040	1032	1142	875	773	526					893	Crawford
Manly	1349	1496	1294	1425	1473	1445	1447	1476	346	359						1312	Worth
Manning	1484	1609	1656	1676	1801	1748	1817	1863	1434	1169	1233					1458	Carroll
Manson	1844	1924	1993	1789	1622	1429	1382	1409	1236	1424	822	377				1830	Calhoun
Mapleton	1294	1495	1647	1686	1857	1824	1622	1367	1100	1099	782	379		113		1217	Monona
Maquoketa	6130	6313	5677	5909	4307	4076	3595	3626	3570	3777	3077	2467	1756	1090	168	6517	Jackson
Marathon	320	442	447	516	565	597	573	520	532	659						327	Buena Vista
Marble Rock	361	419	461	442	470	660	441	483	480	573	433	409				343	Floyd
Marcus	1171	1206	1272	1307	1263	1206	1138	1091	896	718	671	171				1190	Cherokee
Marengo	2270	2308	2235	2264	2151	2260	2112	2048	1786	2007	1710	1738	1693		50	2199	Iowa
Marion	20422	19474	18028	10882	5916	4721	4348	4138	4400	4102	3094	1939	1822	1367		22551	Linn
Marne	149	162	187	205	214	245	255	284	266	410						146	Cass
Marquette	479	528	509	572	641	747	814	923	588	616	509	519				482	Clayton
Marshalltown	25178	26938	26219	22521	19821	19240	17373	15731	13374	11544	8914	6240	3218			24938	Marshall
Martelle	290	316	341	247	228	215	185	156	178	158						298	Jones
Martensdale	491	438	306	316	161	172	139									527	Warren
Martinsburg	157	174	140	172	219	218	223	278	285	332	322	154				158	Keokuk
Marysville	65	84	91	113	165	203	149	234	319	322	348	340	266	75		68	Marion
Mason City	29040	30144	30379	30642	27980	27080	23304	20065	11230	6746	4007	2510	1183			28817	Cerro Gordo
Masonville	129	150	147	168	133	176	207	250	282							121	Delaware
Massena	372	518	433	456	459	479	475	500	490	475	279					356	Cass
Matlock	92	109	89	103	104	112	103	94	118	94						95	Sioux
Maurice	243	288	266	237	256	272	274	329	290	280						248	Sioux
Maxwell	788	783	758	773	802	812	721	811	754	810	453					826	Story
Maynard	513	561	503	515	455	432	409	387	382	495	371	270				515	Fayette
Maysville	170	151	170	126	70	44	57	85	55							183	Scott
McCallsburg	292	304	307	272	290	278	330	261	309							271	Story
McCausland	308	381	226	173	150	115	104	110	106							357	Scott
McClelland	139	177	146	150	159	165	161	142	134							119	Pottawattamie

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
McGregor	797	945	990	1040	1138	1309	1299	1289	1259	1498	1160	1602	2074	1989		754	Clayton
McIntire	147	197	234	270	300	300	268	514	487	427						165	Mitchell
Mechanicsville	1075	1166	989	866	850	821	781	812	817	703	612	545	628	195		1131	Cedar
Mediapolis	1637	1685	1242	1040	834	806	793	780	858	725	489	423				1722	Des Moines
Melbourne	669	732	661	517	510	480	426	481	423	366						737	Marshall
Melcher-Dallas	1302															1275	Marion
Melrose	150	218	192	214	310	451	417	450	459	400						109	Monroe
Melvin	250	277	325	364	325	328	301	282	195							230	Osceola
Menlo	356	410	391	421	421	441	500	476	382	428	389					342	Guthrie
Meriden	193	233	167	192	164	200	188	218	246	432	241					176	Cherokee
Merrill	729	737	790	645	605	547	605	633	520	389						752	Plymouth
Meservey	292	324	354	331	297	282	255	282	193	193						274	Cerro Gordo
Middletown	386	487	443	245	229	134	126	112								416	Des Moines
Miles	409	398	409	376	344	314	319	333	334	385						496	Jackson
Milford	2170	2076	1668	1476	1375	1202	1062	908	575	485						2314	Dickinson
Millersburg	188	184	187	186	200	177	198	210								153	Iowa
Millerton	44	72	82	90	140	163	162	159								45	Wayne
Millville	32	50	27													33	Clayton
Milo	864	778	561	468	525	528	542	560	519	585	318	100				854	Warren
Milton	506	567	567	609	719	809	771	845	913	849	643	412				453	Van Buren
Minburn	346	390	378	357	353	335	328	418	388	317						411	Dallas
Minden	539	483	433	355	328	310	377	381	423	328	287					488	Pottawattamie
Mingo	252	303	260	260	227	290	313	324	246							233	Jasper
Missouri Valley	2888	3107	3519	3567	3546	3994	4230	3985	3187	4010	2797	1154				2943	Harrison
Mitchell	170	193	233	237	168	161	177	195	231	245	309	295	829			173	Mitchell
Mitchellville	1670	1530	1341	957	906	769	702	752	869	768	704	745				1875	Polk
Modale	289	373	297	276	283	385	359	381	387	383	288					264	Harrison
Mondamin	403	423	420	436	489	610	534	508	420	384	257	158				439	Harrison
Moneta	29	43	41	76	89	115	85	127	44							29	O'Brien
Monmouth	169	210	257	291	198	190	198	200	221	281						213	Jackson
Monona	1520	1530	1395	1346	1346	1191	1163	1049	792	674	460	420				1566	Clayton
Monroe	1739	1875	1389	1366	1108	1015	936	936	800	917	952	982				1725	Jasper
Montezuma	1651	1485	1353	1416	1460	1477	1257	1273	1172	1210	1062	921	555	564		1725	Poweshiek
Monticello	3522	3641	3509	3190	2888	2546	2259	2257	2043	2104	1938	1877	1337			3633	Jones
Montour	312	387	334	452	380	393	370	409	383	502	409	457				368	Tama
Montrose	957	1038	735	632	643	592	621	549	708	748	778	983	905		454	990	Lee
Moorhead	259	264	271	313	392	421	372	381	366	200						238	Monona
Moorland	209	257	269	281	248	215	179	181	137							235	Webster
Moravia	679	706	699	621	652	731	684	837	682	632	311	173	161	172		720	Appanoose
Morley	85	94	123	124	157	119	117									89	Jones
Morning Sun	841	959	906	875	939	861	856	751	897	948	881	812	314	226		840	Louisa
Morrison	125	146	136	139	169	161	173	207	173	176	165	116				91	Grundy
Moulton	613	762	763	773	985	1181	1476	1387	1233	1420	769	681	678			618	Appanoose
Mount Auburn	134	188	200	186	216	223	196	249	228							166	Benton
Mount Ayr	1796	1938	1762	1738	1793	1930	1704	1738	1646	1729	1265	1275	422			1682	Ringgold
Mount Pleasant	7959	7322	7007	7339	5843	4610	3743	3987	3874	4109	3997	4410	4245	3530	758	8374	Henry
Mount Sterling	53	96	87	86	144	134	165	179	232							54	Van Buren
Mount Union	140	145	173	176	167	186	167	225	195							116	Henry
Mount Vernon	3657	3325	3018	2593	2320	1489	1441	1466	1532	1629	1259	977	910			3863	Linn
Moville	1306	1273	1198	1156	964	973	911	878	552	507	295					1398	Woodbury
Murray	731	703	620	613	767	857	828	847	796	949	666	491				693	Clarke
Muscatine	22881	23467	22405	19813	19041	18286	16778	16068	16178	14073	11454	8295	6718			23936	Muscatine
Mystic	545	665	696	761	1233	1822	1953	2796	2663	1758	875					522	Appanoose
Nashua	1476	1846	1712	1737	1609	1439	1363	1317	1102	1268	1240	1116	817			1661	Chickasaw
Nemaha	112	120	117	151	184	169	146	166								149	Sac

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Neola	909	839	968	870	839	841	944	896	926	921	917	286				879	Pottawattamie
Nevada	6009	5912	4952	4227	3763	3353	3133	2668	2138	2472	1662	1541	982	350		6283	Story
New Albin	534	609	644	643	568	602	556	683	588	543	411	423				495	Allamakee
Newell	1089	913	877	893	884	854	812	809	728	762	540	348				1047	Buena Vista
Newhall	854	899	701	495	366	330	336	293								882	Benton
New Hampton	3660	3940	3621	3456	3323	2933	2458	2539	2275	2339	1314	1105	455			3816	Chickasaw
New Hartford	683	764	690	649	584	548	500	454	482	570						681	Butler
New Liberty	139	136	141	145	126	125	103	116	93							136	Scott
New London	1922	2043	1900	1694	1510	1340	1336	1144	1144	1003	580	658				1959	Henry
New Market	454	554	501	506	573	681	630	745	673	600	320					444	Taylor
New Providence	240	249	208	206	212	236	262	255	246	268						212	Hardin
New Sharon	1136	1225	944	1063	1089	1214	1052	1084	1122	1252	1026	805				1342	Mahaska
Newton	14799	15292	15619	15381	11723	10462	11560	6627	4616	3682	2564	2607	1983			14915	Jasper
New Vienna	376	430	392	265	204	229	229	241	188	245						362	Dubuque
New Virginia	433	512	452	381	342	410	404	424	396							429	Warren
Nichols	366	375	396	329	348	357	369	387	396	398	237	286				452	Muscatine
Nodaway	153	185	176	204	233	270	334	340	323							139	Adams
Nora Springs	1505	1572	1337	1275	1257	1198	1070	1055	985	1209	846	617				1505	Floyd
Northboro	78	115	115	135	167	182	246	228	197							63	Page
North Buena Vista	145	155	118	150	148	203	183	144	162							152	Clayton
North English	944	990	965	1004	853	865	780	933	848	683						965	Iowa, Keokuk
North Liberty	2926	2046	1055	334	309	282	161	171								3677	Johnson
North Washington	107	142	134	156	159	138	110	124	132							108	Chickasaw
Northwood	1940	2193	1950	1768	1767	1724	1554	1597	1264	1271	859	844	289			1979	Worth
Norwalk	5726	2676	1745	1328	435	377	336	331	315	287						6240	Warren
Norway	583	633	554	516	441	407	448	463	479	533	401					602	Benton
Numa	151	205	165	202	248	322	399	602	659		125	122				148	Appanoose
Oakland	1496	1552	1603	1340	1296	1317	1181	1188	1105	913	686					1414	Pottawattamie
Oakland Acres	152	139														156	Jasper
Oakville	442	470	369	346	360	391	389	466	389							427	Louisa
Ocheyedan	539	599	545	662	700	712	627	686	595	599						565	Osceola
Odebolt	1158	1299	1323	1331	1279	1350	1388	1445	1283	1432	1122	637				1128	Sac
Oelwein	6493	7564	7735	8282	7858	7801	7794	7455	6028	5142	830	397				6769	Fayette
Ogden	1909	1953	1661	1525	1486	1513	1429	1451	1298	993	689	568				2138	Boone
Okoboji	775	559	361	330	336	271	176									821	Dickinson
Olds	205	225	206	189	187	203	227	186	165							226	Henry
Olin	663	735	710	703	626	707	632	718	659	692	519	362				721	Jones
Ollie	207	232	268	291	298	294	294	385	289	238						195	Keokuk
Onawa	2936	3283	3154	3176	3498	3438	2538	2256	2026	1933	1358	882	478			2939	Monona
Oneida	49	61	55	76	75	84	101	127								49	Delaware
Onslow	216	218	253	269	244	230	210	218	207	263	237					218	Jones
Orange City	4940	4588	3572	2707	2166	1920	1727	1632	1374	1457	1246	320				5268	Sioux
Orchard	93	95	115	116	114	126	158	124								93	Mitchell
Orient	376	416	324	341	427	442	433	500	373	359	130	31				357	Adair
Orleans	560	546	396	280	317	244	126	123	105	92						564	Dickinson
Osage	3439	3718	3815	3753	3436	3196	2964	2878	2445	2734	1913	2012	1400			3575	Mitchell
Osceola	4164	3750	3124	3350	3422	3281	2871	2684	2416	2505	2120	1769	1298			4140	Clarke
Oskaloosa	10600	10989	11224	11053	11124	11024	10123	9427	9466	9212	6558	4598	3204			11068	Mahaska
Ossian	810	829	847	827	804	822	740	858	749	670	609	444				780	Winneshiak
Osterdock	49	35	59	45	51	78	92	103	97							49	Clayton
Otho	529	692	581	593												496	Webster
Oto	118	172	203	221	302	410	370	333	268	396	247					119	Woodbury
Ottosen	72	92	93	92	127	152	191	234	147							70	Humboldt
Ottumwa	24488	27381	29610	33871	33631	31570	28075	23003	22012	18197	14001	9004	5214	1632		24629	Wapello
Owasa	37	65	69	104	100	117	83									37	Hardin

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Oxford	663	676	666	633	543	542	521	580	614	664	515	560				1112	Johnson
Oxford Junction	581	600	666	725	663	705	759	807	822	780	752	349				638	Jones
Oyens	113	146	145	114	95	104	106	100	94							123	Plymouth
Pacific Junction	548	511	505	560	550	558	594	666	501	732	744	123				619	Mills
Packwood	208	210	157	215	211	256	208	294	264	284						216	Jefferson
Palmer	230	288	264	271	296	305	297	282	177							222	Pocahontas
Palo	514	529	430	387	285	250	205	224	208							539	Linn
Panama	201	229	221	257	230	255	256	220	232	221	379					207	Shelby
Panora	1100	1211	982	1019	1062	1169	1014	966	1080	958	809	795	504	314		1256	Guthrie
Panorama Park	127	145	219	140												125	Scott
Parkersburg	1804	1968	1631	1468	1300	1260	1046	1108	938	1164	760	652				1924	Butler
Parnell	209	234	175	200	206	263	262	325	369	318						228	Iowa
Paton	255	291	329	370	404	394	388	414	358	328	245	84				225	Greene
Patterson	128	138	120	157	133	166	123	136	147	163	133	186				137	Madison
Paullina	1134	1224	1257	1329	1289	1230	1013	987	796	617	510					1191	O'Brien
Pella	9270	8349	6668	5198	4427	3638	3326	3338	3021	2623	2408	2430	1909	1644		9712	Marion
Peosta	135	120	57	50	60	45										151	Dubuque
Perry	6652	7053	6906	6442	6174	5977	5881	5642	4630	3986	2880	952				6897	Dallas
Persia	312	355	316	322	373	395	396	380	358	361						332	Harrison
Peterson	390	470	469	565	589	603	598	580	480	521	371		44			417	Clay
Pierson	341	408	421	425	453	531	551	554	416	358						350	Woodbury
Pilot Mound	199	223	214	196	246	282	274	311	347	315						177	Boone
Pioneer	46	40	56	76	83	129	98	84	92							47	Humboldt
Pisgah	268	307	286	343	327	397	400	421	212							226	Harrison
Plainfield	455	469	446	445	387	362	293	303	288	320						494	Bremer
Plano	75	111	109	87	106	209	153	272								72	Appanoose
Pleasant Hill	3671	3493	1535	397												3909	Polk
Pleasanton	58	75	62	103	130	180	177	266	200	164						55	Decatur
Pleasant Plain	128	144	121	147	148	171	175	164	174	280						132	Jefferson
Pleasantville	1536	1531	1297	1025	893	895	757	859	691	738	510	449				1609	Marion
Plover	101	135	129	182	243	280	266	246								95	Pocahontas
Plymouth	453	463	461	422	395	427	388	366	358		246	239				463	Cerro Gordo
Pocahontas	2085	2352	2338	2011	1949	1730	1308	1302	987	625						2079	Pocahontas
Polk City	1908	1658	715	567	336	343	295	277	310	438	446	443				2126	Polk
Pomeroy	762	895	765	816	868	843	826	874	815	910	481	185				721	Calhoun
Popejoy	92	112	147	190	201	199	207	204	200							100	Franklin
Portsmouth	209	240	239	232	299	320	328	280	347	316	250					217	Shelby
Postville	1472	1475	1546	1554	1343	1194	1060	1039	952	984	884	732				1504	Allamakee, Clayton
Prairieburg	213	197	182	226	210	193	163	176	187				116			228	Linn
Prairie City	1366	1278	1141	943	834	831	793	780	764	808	684	591				1407	Jasper
Prescott	287	349	305	331	372	400	442	429	426	446						224	Adams
Preston	1025	1120	950	819	684	602	596	648	642	593	489					1014	Jackson
Primghar	950	1050	995	1131	1152	1081	962	921	733	814	519	143				1006	O'Brien
Princeton	904	965	633	580	495	414	373	414	379	456	398	494	498	469		1044	Scott
Promise City	132	149	148	161	218	225	226	267	274							139	Wayne
Protivin	305	368	333	302	283	290	277	201	163	136						335	Howard
Pulaski	262	267	255	299	381	400	376	419	382	302						238	Davis
Quasqueton	579	599	464	373	374	400	342	453	394							565	Buchanan
Quimby	334	424	395	369	398	363	318	363	268							352	Cherokee
Radcliffe	574	593	548	615	638	631	627	708	660	645						606	Hardin
Rake	238	283	324	328	351	329	310	254	163							234	Winnebago
Ralston	119	108	129	143	166	202	184	200	175							134	Carroll, Greene
Randalia	88	101	85	114	132	121	123	113	123	117		97				89	Fayette
Randall	161	171	179	201	202											159	Hamilton
Randolph	243	223	214	257	295	379	344	404	304	373	276	213				217	Fremont

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Rathbun	89	93	113	203	229	352	299	630	382	270						87	Appanoose
Raymond	619	655	582	378												594	Black Hawk
Readlyn	773	858	616	547	468	426	385	403	227							818	Bremer
Reasnor	191	277	284	224	227	221	229	226								180	Jasper
Redding	119	91	111	129	200	246	272	289	269	311	214	85				121	Ringgold
Redfield	883	959	921	966	892	898	870	770	659	509	397	394				937	Dallas
Red Oak	6264	6810	6210	6421	6526	5763	5778	5578	4830	4355	3321	3755	1315			6291	Montgomery
Reinbeck	1605	1808	1711	1621	1460	1429	1425	1415	1205	1203	731	482				1641	Grundy
Rembrandt	229	291	250	265	296	302	263	270	128							241	Buena Vista
Remsen	1513	1592	1367	1338	1280	1196	1181	1144	1076	835	580					1499	Plymouth
Renwick	287	410	429	477	474	470	491	501	372	350						281	Humboldt
Rhodes	272	367	347	358	369	379	450	439	448	476	434					262	Marshall
Riceville	827	919	877	898	962	910	807	960	844	804						821	Howard, Mitchell
Richland	522	600	595	546	591	614	713	639	613	534	531	254			239	569	Keokuk
Rickardsville	193	215	193													210	Dubuque
Ricketts	122	143	141	133	166	167	157	161	102							116	Crawford
Ridgeway	295	308	218	267	307	323	348	349	354	371						308	Winneshiek
Rinard	71	97	88	99	115	143	140	160								72	Calhoun
Ringsted	481	557	509	559	578	508	486	599	313							429	Emmet
Rippey	275	304	270	331	354	421	357	409	407	395						293	Greene
Riverdale	419	462	684	477												443	Scott
Riverside	824	826	758	656	631	633	638	667	652	698	608	412				926	Washington
Riverton	333	342	331	399	472	543	590	568	583	687	560	497				339	Fremont
Robins	875	726	663	426	272	205	190	110								1248	Linn
Rock Falls	155	196	150	156	139	153	109	85	87	124	122	221				158	Cerro Gordo
Rockford	863	1012	902	941	979	1054	996	1031	916	1080	1010	739				941	Floyd
Rock Rapids	2601	2693	2632	2780	2640	2556	2221	2172	2005	1766	1394					2600	Lyon
Rock Valley	2540	2706	2205	1693	1581	1507	1204	1347	1198	1054	542	100				2672	Sioux
Rockwell	1008	1039	923	772	753	779	750	800	700	830	381	249				1108	Cerro Gordo
Rockwell City	1981	2276	2396	2313	2333	2391	2108	2039	1528	1222	516	90				2128	Calhoun
Rodman	56	86	104	144	123	170	167	158	131	147						44	Palo Alto
Rodney	71	82	66	94	127	131	150	176	163	173						56	Monona
Roland	1035	1005	803	748	687	791	759	829	641	557						1135	Story
Rolfe	721	796	767	819	997	1122	1012	1031	954	994	529					678	Pocahontas
Rome	124	113	135	117	134	119	144	168	155	255		276				129	Henry
Rose Hill	171	214	192	223	243	269	275	260	269	253	200	199				198	Mahaska
Rossie	68	72	91	102	112	95	85									68	Clay
Rowan	189	259	231	273	304	316	330	302	256							177	Wright
Rowley	272	275	241	234	249	233	205									290	Buchanan
Royal	466	522	469	475	495	426	410	362								427	Clay
Rudd	429	460	429	436	398	410	429	487	296	381						477	Floyd
Runnells	306	377	354	322	307	388	367	369	428							301	Polk
Russell	531	593	591	577	566	642	571	633	612	636	443	345	175			526	Lucas
Ruthven	707	769	708	712	868	832	739	809	655	787	580	73				690	Palo Alto
Rutland	149	163	215	221	225	255	222	197	212							173	Humboldt
Ryan	382	390	343	347	362	341	369	397	511							353	Delaware
Sabula	710	824	845	894	888	771	759	865	918	1029	918	1223	920	406	168	712	Jackson
Sac City	2516	3000	3268	3354	3170	3165	2854	2630	2201	2079	1249	595	156			2566	Sac
Sageville	288	291	338	110	118	66										306	Dubuque
St. Ansgar	1063	1100	994	1014	981	934	964	844	747	698	609	552	360			996	Mitchell
St. Anthony	112	140	156	130	175	211	202	203	199	174						112	Marshall
St. Charles	537	507	443	355	319	331	400	430	399	412	387	183				570	Madison
St. Donatus	145	197	164													111	Jackson
St. Lucas	174	194	194	211	158	158	168	137	138							165	Fayette
St. Marys	113	111	105	94	89	84	89									173	Warren

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
St. Olaf	125	138	140	169	158	191	174	149	170	124						124	Clayton
St. Paul	120	141	129	128	113	94	89	67	62	65						99	Lee
Salem	453	463	458	442	473	457	460	494	501	548	551	524				514	Henry
Salix	367	429	387	394	337	392	374	396	390	387						433	Woodbury
Sanborn	1345	1398	1465	1323	1337	1344	1213	1497	1174	1247	1075	364				1363	O'Brien
Sandyville	59	86	89	115	92	93	92	94	120							63	Warren
Scarville	92	82	81	105	105	136	163	140	129							79	Winnebago
Schaller	768	832	835	896	841	758	724	731	646	661	333					714	Sac
Schleswig	851	868	875	785	751	628	638	655	455	233						802	Crawford
Scranton	583	748	751	865	891	1014	1058	843	845	983	715					570	Greene
Searsboro	164	134	140	165	183	195	171	204	226	263	153	225				106	Poweshiek
Sergeant Bluff	2772	2416	1164	813	569	587	569	548	525		425	167				3045	Woodbury
Seymour	869	1036	931	1117	1223	1539	1571	1746	2290	1703	1058	501				894	Wayne
Shambaugh	190	197	178	206	251	269	278	250	245							203	Page
Shannon City	97	93	100	127	171	288	293	333	292	380						76	Ringgold, Union
Sharpsburg	116	114	106	130	147	173	182	188	181							118	Taylor
Sheffield	1174	1224	1070	1156	1163	1060	1057	1106	824	688	610	307				1176	Franklin
Shelby	637	665	537	533	592	627	617	588	586	692	582	449				670	Pottawattamie, Shelby
Sheldahl	315	315	285	279	211	206	209	175	202	179						346	Boone, Polk, Story
Sheldon	4904	5003	4535	4251	4001	3768	3320	3488	2941	2282	1478	730				4934	O'Brien, Sioux
Shell Rock	1385	1478	1159	1112	1013	925	806	815	741	839	733	719				1392	Butler
Shellsburg	765	771	740	625	632	552	546	590	527	511	468	547				1015	Benton
Shenandoah	5572	6274	5968	6567	6938	6846	6502	5255	4976	3573	2440	1387				5498	Fremont, Page
Sherrill	148	208	190	174	162	82		110								154	Dubuque
Shueyville	223	287	154													231	Johnson
Sibley	2815	3051	2749	2852	2559	2356	1870	1803	1330	1289	1090	301				2804	Osceola
Sidney	1253	1308	1061	1057	1132	1290	1074	1154	1019	1143	839	855	817	423		1287	Fremont
Sigourney	2111	2330	2319	2387	2343	2355	2262	2210	2032	1952	1523	1735	992		162	2061	Keokuk
Silver City	252	291	272	281	311	346	355	430	416	438	324	185				266	Hills
Sioux Center	5074	4588	3450	2275	1860	1680	1497	1389	1064	810						5684	Sioux
Sioux City	80505	82003	85925	89159	83991	82364	79183	71227	47828	33111	37806	7366	3401			82735	Woodbury
Sioux Rapids	792	897	813	962	1010	1056	958	1080	868	1005	650	181	61			854	Buena Vista
Slater	1268	1312	1094	717	583	544	568	616	473	426						1313	Story
Sloan	938	978	799	704	654	628	636	608	547	643	449					1002	Woodbury
Smithland	252	282	293	349	373	389	389	321	334	435	369					246	Woodbury
Soldier	205	257	242	284	323	208	302	281	167							201	Monona
Solon	1050	969	837	604	527	515	493	471	450	397	353	383				1061	Johnson
Somers	161	220	197	203	217	213	199	175	169							137	Calhoun
South English	224	211	218	217	248	288	296	355	338	319						212	Keokuk
Spencer	11066	11726	10278	8864	7446	6599	5019	4599	3005	3095	1813	824				11141	Clay
Spillville	387	415	361	389	363	329	304	315	320	356						406	Winneshiek
Spirit Lake	3872	3976	3014	2685	2467	2161	1778	1701	1162	1219	782	277	76			4064	Dickinson
Spragueville	118	149	112	100	115	116	86	102								116	Jackson
Springbrook	165	209	196	139	109	131	103	126	217	107						171	Jackson
Spring Hill	86	95	131	111	86	146	101	489	94							91	Warren
Springville	1068	1165	970	785	680	608	598	597	588	599	518	365				1083	Linn
Stacyville	481	538	598	588	544	533	529	513	407	490						458	Mitchell
Stanhope	447	492	482	461	420	425	425	400	281	297						477	Hamilton
Stanley	116	154	151	156	158	185	138	163								157	Buchanan
Stanton	692	747	574	514	570	571	607	749	653	404	399	247				661	Montgomery
Stanwood	646	705	642	598	547	569	531	556	511	415	302	254	257			715	Cedar
State Center	1248	1292	1232	1142	1040	1033	1012	975	898	1008	854	880	559			1476	Marshall
Steamboat Rock	335	387	394	426	395	385	377	399	378	410	367	523				331	Hardin
Stockport	260	272	334	342	346	338	322	385	265							244	Van Buren
Stockton	187	240	222	164	165	124	110	128	138				108			223	Muscatine



Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Storm Lake	8769	8814	8591	7728	6954	5274	4157	3658	2428	2169	1682	1034				8923	Buena Vista
Story City	2959	2762	2104	1773	1545	1479	1434	1591	1387	1197	536	331				3132	Story
Stout	192	190	196	145	135	135	143	162								192	Grundy
Stratford	715	806	710	703	673	712	699	694	554	458						773	Hamilton, Webster
Strawberry Point	1357	1463	1281	1303	1247	1223	1128	1101	1052	1012	947	715				1388	Clayton
Struble	67	70	59	74	91	134	161	129	327	172						47	Plymouth
Stuart	1522	1650	1354	1486	1500	1611	1626	1716	1826	2079	2052	1994				1616	Adair, Guthrie
Sully	841	828	685	508	452	402	362	393	282							862	Jasper
Sumner	2078	2335	2174	2170	1911	1752	1561	1511	1404	1437	861	285				2130	Bremer
Superior	128	188	139	190	240	230	168	200	154	187						143	Dickinson
Sutherland	714	897	875	883	835	875	802	876	664	722	490					700	O'Brien
Swaledale	190	186	222	217	205	204	178	200	235	240						169	Cerro Gordo
Swan	76	102	56	168	194	217	220	238	292	406	419	99				80	Marion
Swea City	634	813	774	805	869	735	695	691	402	322						630	Kossuth
Swisher	645	654	417	271	205	93										804	Johnson
Tabor	994	1088	957	909	869	976	1017	1186	909	934	503	320	310			1014	Fremont, Mills
Tama	2697	2968	3000	2925	2930	2832	2626	2601	2290	2649	1741	1289	1161			2794	Tama
Templeton	321	319	312	354	385	390	428	373	278	321	269					297	Carroll
Tennant	78	77	93	95	95	109	118	79								78	Shelby
Terril	383	420	397	382	425	452	416	440	253	217						362	Dickinson
Thayer	79	87	100	101	152	157	164	260	198	394			114			80	Union
Thompson	498	668	600	689	698	664	538	548	500	450						503	Winnebago
Thor	205	200	212	234	271	264	257	285	271	274						213	Humboldt
Thornburg	91	103	98	101	138	184	171	197	233	267						76	Keokuk
Thornton	431	442	410	449	441	398	383	317	271	299						403	Cerro Gordo
Thurman	239	221	230	268	284	325	388	341	336	409	395	378				199	Fremont
Tiffin	460	413	299	311	256	240	206	178	176							513	Johnson
Tingley	179	210	244	278	333	390	358	391	380	488	295					177	Ringgold
Tipton	2998	3055	2877	2862	2633	2518	2145	2142	2048	2513	1599	1299	1246	1190	252	3205	Cedar
Titonka	612	658	599	647	589	574	473	418	278	224						633	Kossuth
Toledo	2380	2455	2361	2417	2106	2073	1825	1604	1626	1941	1836	1026	888			2689	Tama
Toronto	132	172	145	144	165	142	113	139	106		78					118	Clinton
Traer	1552	1703	1682	1623	1627	1493	1417	1329	1283	1458	1014	1100				1714	Tama
Treynor	897	981	472	368	247	219	232	204	122							947	Pottawattamie
Tripoli	1188	1280	1345	1179	1124	1001	891	914	755	655						1278	Bremer
Truesdale	132	128	132	153	158	135	116	113								105	Buena Vista
Truro	391	407	359	338	354	353	361	332	310							407	Madison
Turin	95	103	115	163	160	184	167	158	154							85	Monona
Udell	76	75	71	76	96	137	151	214	186							60	Appanoose
Underwood	515	448	424	337	278	251	261	260	271							556	Pottawattamie
Union	448	515	484	534	490	585	498	660	540	589	514	666				429	Hardin
Unionville	133	150	161	185	204	253	221				212	196	183	178		127	Appanoose
University Heights	1042	1069	1265	841	446	261										1080	Johnson
University Park	598	645	534	569	457	462	443	361								575	Mahaska
Urbana	595	574	552	544	414	397	354	477	306	323						726	Benton
Urbandale	23500	17869	14434	5821	1777	1083	596	298								28250	Polk
Ute	395	479	512	511	563	581	616	580	490	407						339	Monona
Vail	388	490	486	473	532	576	622	635	631	578	538	511				381	Crawford
Valeria	69	80	96	76	57	79	57	70								72	Jasper
Van Horne	695	682	613	554	511	551	527	524	444	484	501					791	Benton
Van Meter	751	747	464	385	364	436	400	358	386	407	467	376				839	Dallas
Van Wert	249	245	244	253	318	383	369	463	461	306						257	Decatur
Varina	102	122	140	162	144	220	184	235	183							99	Pocahontas
Ventura	590	614	543													629	Cerro Gordo
Victor	966	1046	949	870	741	763	794	802	640	612	616	691				972	Iowa, Poweshiek

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Villisca	1332	1434	1402	1690	1838	2011	2032	2111	2039	2211	1744	1299	457			1283	Montgomery
Vincent	185	207	204	173	193	192	194	182	215	163						173	Webster
Vining	78	96	71	122	112	126	163	153								83	Tama
Vinton	5103	5040	4845	4781	4307	4163	3372	3381	3336	3499	2865	2906	2460			5570	Benton
Volga	306	310	305	361	423	429	417	415	416	444						286	Clayton
Wadena	236	230	237	275	316	377	312	318	253	170		128				259	Fayette
Wahpeton	484	372	149	117	127	73										475	Dickinson
Walcott	1356	1425	989	664	480	440	398	384	416	362						1473	Muscatine, Scott
Walford	303	285	286	264												405	Benton, Linn
Walker	673	733	622	584	549	462	456	464	517	505						846	Linn
Wallingford	235	256	245	228	229	233	225	197								213	Emmet
Wall Lake	875	892	936	812	753	762	749	737	561	659	439	208				895	Sac
Walnut	857	897	870	777	888	902	935	1072	950	878	811	733				833	Pottawattamie
Wapello	2013	2011	1873	1745	1755	1603	1502	1480	1326	1398	1009	928	870	821	336	2113	Louisa
Washington	7074	6584	6317	6037	5902	5227	4814	4697	4380	4255	3235	2949	2575			7252	Washington
Washta	284	320	319	310	403	442	448	508	410	431						249	Cherokee
Waterloo	66467	75985	75533	71755	65198	51743	46191	36230	26693	12580	6674	5630	4337			66537	Black Hawk
Waterville	140	157	158	184	199	253	222	183								134	Allamakee
Waucoma	277	308	357	364	385	430	425	457	433	540	406	225				270	Fayette
Waukee	2512	2227	1577	687	501	473	445	375	340	292	240	245				3118	Dallas
Waukon	4019	3983	3883	3639	3158	2972	2526	2359	2025	2153	1610	1350				4288	Allamakee
Waverly	8539	8444	7205	6357	5124	4156	3652	3352	3205	3177	2346	2345	2291			9001	Bremer
Wayland	838	720	702	597	600	576	625	637	550	394						980	Henry
Webb	167	222	234	236	235	254	240	219	150							136	Clay
Webster	103	124	130	137	136	165	178	172	127							93	Keokuk
Webster City	7894	8572	8488	8520	7611	6738	7024	5657	5208	4613	2829	1848	1339			8030	Hamilton
Weldon	151	187	155	202	229	250	298	323	308							140	Decatur
Wellman	1085	1125	977	1085	1071	1129	853	875	724	654						1136	Washington
Wellsburg	682	761	754	827	744	616	508	482	288	203						692	Grundy
Welton	184	119	104	88	93	100	80	69	69							190	Clinton
Wesley	444	598	548	514	509	468	462	444	457	730	440					431	Kossuth
West Bend	862	941	865	910	772	737	634	969	679	538	325					790	Kossuth, Palo Alto
West Branch	1908	1867	1322	1053	769	719	652	688	643	647	474	501				2074	Cedar
West Burlington	3083	3371	3139	2560	1614	1323	1333	1212	1206	1044	836					3251	Des Moines
West Chester	178	191	199	253	218	213	223	225	222	209						185	Washington
West Des Moines	31702	21894	16441	11949	5615	4252	4280	3631	2573	1700						37243	Polk
Westfield	160	199	148	187	172	197	218	203	143							158	Plymouth
Westgate	207	263	204	214	226	247	268	255	232	260						212	Fayette
West Liberty	2935	2723	2296	2042	1866	1802	1679	1834	1666	1690	1268	1141				3444	Muscatine
West Okoboji	263	435	210	171	158	117	112									266	Dickinson
Westphalia	144	169	121	131	160	126	118	115								132	Shelby
West Point	1079	1133	1045	758	662	543	536	591	570	654	498	704	794	546		1720	Lee
Westside	348	387	389	367	393	373	341	405	367	396	448	446				337	Crawford
West Union	2490	2783	2624	2551	2141	2059	2056	1777	1652	1935	1676	1551	1489			2712	Fayette
Westwood	104															97	Henry
What Cheer	762	803	868	956	1119	1339	1310	1626	1720	2746	3246	719				738	Keokuk
Wheatland	723	840	832	643	568	535	539	549	539	475	569	616	788			724	Clinton
Whiting	683	734	590	595	663	688	627	625	576	572	437	56				712	Monona
Whittemore	535	647	658	741	678	671	604	618	518	522	578	105				564	Kossuth
Whitten	137	168	194	184	174	227	199	225	219	217	195					132	Hardin
Willey	78	94	72	80	94	86	93	176								80	Carroll
Williams	368	410	456	490	519	489	500	495	457	500						408	Hamilton
Williamsburg	2174	2033	1544	1342	1183	1308	1219	1251	1060	1100	635					2343	Iowa
Williamson	166	210	216	262	294	616	814									176	Lucas
Wilton	2577	2502	1873	1750	1446	1146	1104	1178	1157	1233	1212	1431	1317			2822	Cedar, Muscatine

Table 1. Population (1850-1990) and Estimated Population (1994) in Iowa's Incorporated Places (continued).

Place Name	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850	1994 Est	County
Windsor Heights	5190	5474	6303	4715	1414											5347	Polk
Winfield	1051	1042	897	862	888	864	933	1027	934	820	461					1117	Henry
Winterset	4196	4021	3654	3639	3570	3631	2921	2906	2818	3039	2281	2583	1485	915		4408	Madison
Winthrop	742	767	750	649	604	546	496	507	529	618	370	320				851	Buchanan
Wiota	160	181	171	195	227	246	225	199	239	218	168	110				145	Cass
Woden	259	287	265	283	272	305	258	188	162							229	Hancock
Woodbine	1500	1463	1349	1304	1304	1467	1348	1463	1538	1255	815	330				1551	Harrison
Woodburn	240	207	186	202	255	324	305	375	420	467	336	371				251	Clarke
Woodward	1197	1212	1010	967	908	895	901	868	712	550	328					1346	Dallas
Woolstock	212	235	222	269	255	271	317	294	264	274						195	Wright
Worthington	439	432	365	360	337	326	335	341	314	288						462	Dubuque
Wyoming	659	702	746	797	724	656	634	690	733	794	704	729				660	Jones
Yale	220	299	301	260	293	287	304	276	273							217	Guthrie
Yetter	49	52	52	85	121	135	114	125	107							49	Calhoun
Yorktown	100	123	105	150	146	197	217	193	228	170						105	Page
Zearing	614	630	535	528	514	476	475	471	461	388	242					638	Story
Zwingle	94	119	96	110	132	118	145	124	69							91	Dubuque, Jackson

Table 2. Number of Iowa's Incorporated Places by Population Size Categories, 1850-1990.

Size of Place	1994	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Less than 100	101	92	74	69	53	39	39	28	25	17	5	10	29	23	7	2
100-249	214	215	202	230	217	229	201	216	204	186	92	47	72	55	25	7
250-499	177	192	203	197	224	237	266	257	254	240	202	140	108	37	17	7
500-749	106	111	117	120	140	135	130	138	141	145	137	97	67	17	7	4
750-999	75	70	77	89	73	72	79	74	80	67	61	52	38	24	7	3
1,000-2,499	149	149	158	135	134	129	127	123	128	114	116	89	68	44	13	4
2,500-4,999	57	55	56	48	45	42	45	46	45	43	46	27	19	11	3	2
5,000-7,499	27	25	23	23	22	22	18	10	15	7	5	6	5	5	2	0
7,500-9,999	15	14	16	13	11	6	5	4	3	2	5	2	3	0	1	0
10,000-24,999	14	13	12	11	11	10	10	11	11	9	8	7	7	6	2	0
25,000-49,999	9	9	9	9	7	8	6	6	4	7	5	3	0	0	0	0
50,000-99,999	6	6	5	5	6	4	4	3	2	1	1	1	0	0	0	0
100,000 or More	2	2	3	2	1	1	1	1	1	0	0	0	0	0	0	0
Total Places	952	953	955	951	944	934	931	917	913	838	683	481	416	222	84	29

Table 3. Population in Iowa's Incorporated Places by Population Size Categories, 1850-1990.

Size of Place	1994	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Less than 100	6734	5825	5327	4776	3698	2843	2783	2215	1996	1282	414	599	1837	1341	450	145
100-249	37022	36518	35144	40511	37458	40415	35397	37841	36160	33375	17059	8980	13163	9380	4022	1244
250-499	64674	68863	73154	71141	78353	84992	94563	91700	91709	86120	73392	52644	39980	13920	6404	2311
500-749	66103	69055	73501	73368	85306	82271	79242	83708	86503	87641	83544	58665	41684	10826	4212	2338
750-999	65158	60141	67163	77482	62763	62765	67415	63049	68529	58101	53348	43990	33068	20734	6122	2443
1,000-2,499	223695	223888	241635	209981	202834	195261	191457	186409	191687	172460	172917	135307	109108	69319	19516	7085
2,500-4,999	196463	192395	198382	168640	158520	152154	163400	168650	156543	153454	154413	88866	63409	38189	10381	7190
5,000-7,499	160611	150619	141374	144297	136845	133997	107221	61578	88855	41036	27509	39767	31440	29915	11920	0
7,500-9,999	128995	119469	134432	110174	90229	46741	42277	32595	25947	18366	43109	16815	26351	0	8136	0
10,000-24,999	226471	204338	186641	171650	168359	152512	153165	167405	192629	137107	129096	115234	126227	88223	24267	0
25,000-49,999	287258	277858	285721	300508	219377	270030	196083	210474	157099	243723	156120	94989	0	0	0	0
50,000-99,999	420825	413901	327319	382584	454177	296034	262266	196031	127954	86368	62139	50093	0	0	0	0
100,000 or More	307403	301969	404510	312046	208982	177965	159819	142559	126468	0	0	0	0	0	0	0
Total in Places	2191412	2125037	2174303	2067158	1906901	1697980	1555088	1444214	1352079	1119033	973060	705949	486267	281847	95430	22756
Total in State	2829305	2776755	2913808	2825368	2757537	2621073	2538268	2470939	2404021	2224771	2231853	1912297	1624615	1194020	674913	192214

Table 4. Iowa's Incorporated Places by Percentage Change, 1850-1990.

Percentage Change	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
	to 1994	to 1990	to 1980	to 1970	to 1960	to 1950	to 1940	to 1930	to 1920	to 1910	to 1900	to 1890	to 1880	to 1870	to 1860
Loss:															
-10.0% or more	76	398	105	221	206	221	72	216	77	173	25	57	14	9	0
-5.0% to -9.9%	96	191	68	94	109	110	85	136	52	82	10	25	6	4	1
-0.1% to -4.9%	195	157	125	150	114	140	128	150	81	91	11	28	6	2	0
No Change	26	4	9	5	9	4	15	4	3	3	2	0	1	0	0
Gain:															
+0.1% to +4.9%	261	91	150	136	123	137	172	131	98	66	25	31	14	4	0
+5.0% to +9.9%	176	50	146	87	106	109	137	92	111	65	29	28	12	6	0
+10.0% or more	122	60	347	249	264	208	306	172	412	201	356	230	107	55	14
Total Places	952	951	950	942	931	929	915	901	834	681	458	389	160	80	15

Note: The total number of places in this table does not equal the number in Table 2. For change to be calculated for this table, a place had to exist at both the beginning and the end of the period examined.

Table 5. Iowa's Incorporated Places by Percentage Change, 1990-1994, and Population Size, 1990.

1990-1994 Percentage Change	Population Size, 1990												
	99-	100- 249	250- 499	500- 749	750- 999	1,000- 2,499	2,500- 4,999	5,000- 7,499	7,500- 9,999	10,000- 24,999	25,000- 49,999	50,000- 99,999	100,000+
Loss:													
-10.0% or more	15	44	15	2	0	0	0	0	0	0	0	0	0
-5.0% to -9.9%	9	25	34	10	7	10	0	0	0	0	0	0	0
-0.1% to -4.9%	17	37	45	25	18	33	9	4	1	0	6	0	0
No Change	15	6	2	0	0	1	2	0	0	0	0	0	0
Gain:													
+0.1% to +4.9%	23	48	35	29	20	45	22	15	8	7	1	6	2
+5.0% to +9.9%	9	30	33	25	14	38	15	5	5	1	1	0	0
+10.0% or more	3	24	28	20	11	22	7	1	0	5	1	0	0
Total Places	91	215	192	111	70	149	55	25	14	13	9	6	2
Total Population Change	-172	-476	1060	3024	2438	8870	8967	5086	4017	15141	6088	6932	5442

Table 6. Iowa's Incorporated Places by Percentage Change, 1980-1990, and Population Size, 1980.

1980-1990 Percentage Change	Population Size, 1980												
	99-	100- 249	250- 499	500- 749	750- 999	1,000- 2,499	2,500- 4,999	5,000- 7,499	7,500- 9,999	10,000- 24,999	25,000- 49,999	50,000- 99,999	100,000+
Loss:													
-10.0% or more	41	118	108	44	31	32	12	4	3	1	3	1	0
-5.0% to -9.9%	8	31	34	29	12	48	13	7	2	2	3	1	1
-0.1% to -4.9%	4	13	26	22	21	44	10	5	4	4	1	2	1
No Change	2	0	2	0	0	0	0	0	0	0	0	0	0
Gain:													
+0.1% to +4.9%	6	18	9	13	6	17	10	2	5	2	2	0	1
+5.0% to +9.9%	2	14	9	4	4	8	6	3	0	0	0	0	0
+10.0% or more	9	8	14	5	2	9	5	2	2	3	0	1	0
Total Places	72	202	202	117	76	158	56	23	16	12	9	5	3
Total Population Change	-786	-4371	-6904	-5575	-4541	-9169	-572	-2183	-181	+14615	-15084	-8748	-7239

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

### **1980-1994**

Willis Goudy, Iowa State University  
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The Iowa Department of Public Health annually records vital statistics for Iowa and its counties. Data for 1994 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 37,057 births in 1994, the lowest number of the 15 years reported here and 748 fewer than in 1993 (Table 1). That decline continued the pattern from 1990 to 1993, which followed three annual increases (Figure 1). More than 5,300 fewer births occurred in 1994 than 10 years earlier in 1984. 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 41 counties had more births in 1994 than in 1993, 55 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 12 counties to at least 20 in 10 others, with the greatest increases occurring in Fayette and Story. Declines ranged from less than 10 in 16 counties to at least 100 in two others (Black Hawk, Scott).

Only six counties (Decatur, Linn, Madison, Marion, Polk, Woodbury) had more births in 1994 than in 1984, indicating that most areas of Iowa reflected the state's trend. In two counties (Black Hawk, Scott), there were at least 400 fewer births in 1994 than in 1984. In 11 other counties, there were from 100 to 399 fewer births in 1994 than in 1984, while 36 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 27,651 deaths in 1994 outnumbered the 26,972 counted in 1984 by 679 (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.

Forty-five counties had more deaths in 1994 than the previous year. The increase was less than 10 in 23 counties. Twenty-two counties had at least 10 more deaths in 1994 than in 1993, although only Black Hawk had at least 40 more deaths during the more recent year. Fifty-one counties had fewer deaths in 1994 than in 1993; 17 had less than 10 fewer deaths in the more recent year, although Harrison and Scott declined by at least 40 deaths between 1993 and 1994.

The different trends for births and deaths are highlighted when 1994 data are compared with those for 1984. Births were lower in 1994 in all but six counties, and the drop was at least 100 in 13. For deaths, the differences are much smaller; indeed, the difference in either direction was 10 or less in 34

Table 1. Births in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	93	74	105	87	102	109	86	94	111	122	114	115	143	125	166
Adams	64	51	41	64	60	70	74	63	55	73	73	64	80	64	94
Allamakee	158	176	199	174	177	214	201	202	210	219	219	220	237	249	252
Appanoose	152	164	174	170	166	166	167	162	180	188	197	194	184	229	241
Audubon	88	72	70	76	91	83	82	95	89	111	135	120	119	112	151
Benton	292	308	304	336	318	292	286	283	295	309	328	291	307	349	414
Black Hawk	1605	1774	1651	1732	1699	1687	1628	1621	1739	1947	2093	2096	2245	2332	2382
Boone	313	274	289	312	329	309	347	318	295	326	333	347	367	384	395
Bremer	243	272	259	237	242	256	233	242	267	297	306	320	367	398	417
Buchanan	314	277	327	302	302	336	310	325	287	367	381	393	454	448	447
Buena Vista	243	238	274	265	287	253	302	263	294	314	290	302	313	344	322
Butler	163	169	159	162	184	180	189	179	209	201	242	259	255	236	284
Calhoun	106	90	120	111	130	124	111	145	152	149	140	171	196	170	204
Carroll	269	258	271	278	320	292	312	338	361	373	384	416	384	416	436
Cass	150	178	169	205	192	192	190	163	204	200	255	228	254	286	241
Cedar	193	203	197	217	221	224	197	189	195	251	253	259	266	285	260
Cerro Gordo	587	592	600	621	686	657	623	625	656	725	679	709	714	720	728
Cherokee	157	141	158	153	200	177	169	166	211	199	207	229	231	245	238
Chickasaw	169	179	166	166	199	182	170	154	201	177	224	224	265	260	258
Clarke	82	81	105	105	106	121	112	114	109	116	104	112	136	122	126
Clay	219	190	235	258	239	260	222	237	243	270	260	305	357	314	347
Clayton	207	242	228	254	242	262	234	250	256	298	282	306	327	364	343
Clinton	645	680	680	685	685	674	676	689	707	753	788	775	855	882	920
Crawford	176	208	196	205	228	204	256	277	247	263	256	323	294	300	321
Dallas	440	425	422	426	409	445	384	423	391	402	454	461	428	432	466
Davis	127	118	107	127	128	116	115	110	124	134	128	148	137	149	149
Decatur	113	88	88	94	91	99	98	110	95	106	112	107	136	125	129
Delaware	268	262	261	271	285	264	290	284	281	320	311	341	362	331	401
Des Moines	524	558	568	580	568	582	560	540	518	670	650	657	670	742	767
Dickinson	148	127	152	163	160	158	147	175	165	177	195	178	227	199	229
Dubuque	1176	1252	1168	1231	1260	1184	1192	1253	1199	1278	1362	1375	1447	1542	1584
Emmet	109	141	135	155	134	121	139	144	139	159	160	196	200	214	227
Fayette	302	255	278	295	289	279	297	263	278	298	357	362	404	380	405
Floyd	186	200	204	221	219	220	197	208	213	236	241	285	250	276	259
Franklin	133	120	126	130	124	132	136	139	148	173	193	165	176	191	195
Fremont	79	90	103	107	100	98	103	103	124	116	117	124	117	132	131
Greene	108	129	123	124	108	104	117	138	127	147	172	169	165	196	182
Grundy	111	141	113	136	146	138	142	121	148	143	170	187	167	182	227
Guthrie	126	105	155	138	122	111	117	104	115	119	156	144	149	160	179
Hamilton	203	193	206	220	209	213	199	198	243	199	254	235	219	259	257
Hancock	125	125	142	157	164	167	159	165	189	190	212	191	233	217	252
Hardin	218	204	192	209	213	214	224	218	233	270	283	311	324	318	348
Harrison	175	179	200	201	187	191	192	225	230	227	217	200	217	221	254
Henry	239	252	256	237	265	224	248	236	250	238	264	260	270	278	303
Howard	96	112	126	114	135	126	111	146	141	137	161	163	169	158	184
Humboldt	118	110	100	104	112	136	143	138	149	163	186	178	189	191	188
Ida	86	93	94	100	107	150	122	112	118	135	148	146	117	159	148
Iowa	212	213	196	208	213	236	178	179	215	182	216	217	216	230	229
Jackson	241	258	258	286	252	255	275	290	282	345	325	349	357	371	370
Jasper	439	423	455	471	432	461	446	438	418	472	462	440	524	506	530

Table 1. Births in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	172	177	185	186	192	202	208	178	218	222	224	233	209	210	217
Johnson	1288	1337	1359	1358	1406	1297	1330	1285	1278	1326	1306	1254	1299	1350	1276
Jones	253	235	243	255	251	236	240	216	220	290	262	275	280	272	323
Keokuk	129	143	147	176	150	152	160	147	137	157	185	185	166	199	223
Kossuth	196	219	199	226	251	240	245	249	265	262	295	350	344	332	397
Lee	435	526	540	494	496	492	509	544	526	589	582	596	623	663	693
Linn	2550	2551	2644	2632	2641	2507	2465	2373	2345	2450	2499	2479	2642	2567	2826
Louisa	161	184	143	148	163	149	141	167	144	145	161	172	178	201	172
Lucas	129	117	100	111	116	93	111	101	113	110	132	115	164	135	170
Lyon	165	162	180	156	178	167	183	176	160	183	194	207	214	238	236
Madison	160	162	155	158	158	167	161	138	140	164	154	150	158	155	197
Mahaska	272	277	264	300	285	316	295	296	326	318	325	339	342	331	400
Marion	419	391	412	364	374	398	363	405	368	439	403	434	463	439	449
Marshall	523	523	471	458	502	488	488	455	520	555	588	622	617	654	673
Mills	183	159	151	170	136	168	154	173	171	167	192	173	174	212	225
Mitchell	142	154	126	148	131	127	137	133	147	148	149	173	154	171	196
Monona	124	106	145	133	114	113	105	110	129	105	140	176	157	161	179
Monroe	87	119	98	111	116	96	88	107	104	109	122	120	111	135	133
Montgomery	160	141	165	138	158	150	148	153	136	152	179	189	183	187	205
Muscatine	626	642	656	676	665	682	615	560	635	632	635	709	754	732	714
O'Brien	174	191	199	176	184	195	173	184	206	213	235	263	274	287	279
Osceola	70	81	86	107	94	100	104	87	88	107	105	131	124	127	137
Page	181	164	166	179	200	220	209	189	183	235	204	226	237	266	270
Palo Alto	107	109	112	111	95	140	133	122	134	181	162	215	184	214	209
Plymouth	311	307	317	296	346	310	311	353	376	334	409	415	392	455	427
Pocahontas	84	88	99	104	124	110	135	109	121	167	150	160	150	149	160
Polk	5458	5460	5560	5494	5367	5545	4998	4987	4956	5087	4909	4974	4969	5093	5087
Pottawattamie	1156	1193	1261	1299	1361	1281	1295	1252	1328	1334	1379	1426	1411	1469	1468
Poweshiek	211	205	215	237	226	226	203	187	223	220	220	244	254	261	247
Ringgold	30	38	57	53	44	53	56	60	45	78	84	71	107	80	86
Sac	126	139	140	125	145	153	142	149	153	177	182	175	183	235	235
Scott	2243	2408	2483	2409	2430	2376	2368	2292	2545	2543	2647	2641	2751	2824	2954
Shelby	146	163	154	156	182	163	170	172	160	171	237	211	240	189	253
Sioux	380	437	433	439	434	432	471	457	494	511	519	574	560	584	636
Story	844	785	878	900	927	874	949	933	944	1035	1039	1075	1010	1054	1055
Tama	236	225	226	213	215	218	207	233	227	250	260	269	285	259	289
Taylor	78	70	75	63	92	79	73	86	71	91	102	102	133	119	135
Union	119	152	149	143	148	166	143	152	167	150	165	190	192	226	212
Van Buren	104	108	91	98	89	93	123	103	94	107	111	111	117	136	126
Wapello	428	465	422	481	490	484	420	446	467	468	534	480	564	547	597
Warren	449	499	516	550	479	499	483	487	466	506	489	485	495	514	551
Washington	279	273	269	277	307	301	280	298	273	269	307	282	290	293	326
Wayne	78	71	74	74	83	77	89	75	75	96	94	84	93	105	123
Webster	525	534	566	563	597	605	589	595	574	631	631	671	733	675	760
Winnebago	135	121	141	138	148	165	164	152	171	162	170	172	178	162	197
Winneshiek	242	229	255	252	259	269	272	269	288	287	321	321	309	300	327
Woodbury	1651	1651	1665	1623	1631	1496	1582	1542	1457	1652	1601	1645	1691	1809	1793
Worth	91	94	91	99	99	107	100	98	103	117	115	110	130	129	127
Wright	157	156	171	188	214	191	174	177	171	196	203	206	208	220	247
State of Iowa	37057	37805	38459	38925	39330	38916	38070	37866	38748	41182	42360	43247	44716	45918	47797



Table 2. Deaths in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	127	122	107	111	104	101	103	124	124	103	115	113	104	110	112
Adams	66	61	56	63	57	70	78	55	61	54	79	66	75	67	75
Allamakee	167	171	179	165	198	189	170	185	191	182	167	175	163	169	189
Appanoose	189	200	173	197	179	175	191	197	164	221	183	169	168	196	212
Audubon	109	107	118	98	88	84	115	94	84	112	74	100	117	102	75
Benton	201	207	207	222	197	235	250	235	210	219	213	246	207	213	213
Black Hawk	1239	1194	1130	1123	1142	1066	1114	1080	1034	1081	998	1112	1059	1041	1059
Boone	304	307	266	278	289	279	321	282	268	281	267	286	321	281	290
Bremer	235	266	216	214	229	211	238	235	223	207	205	188	186	213	227
Buchanan	204	231	202	180	185	199	204	183	190	180	211	216	218	171	192
Buena Vista	215	217	196	200	210	253	240	221	210	260	214	253	217	240	246
Butler	202	195	202	176	169	197	182	191	209	180	183	191	186	160	166
Calhoun	141	169	185	171	148	202	174	169	157	211	174	168	173	164	186
Carroll	229	229	233	217	214	202	210	229	190	216	237	244	252	240	238
Cass	175	180	184	213	206	225	230	198	222	243	217	213	211	189	210
Cedar	175	157	155	148	176	166	169	169	174	171	175	176	167	177	177
Cerro Gordo	489	504	490	457	481	463	474	483	470	468	518	446	477	483	467
Cherokee	158	158	163	166	171	170	164	177	156	184	168	172	171	172	176
Chickasaw	168	156	124	159	142	132	133	169	149	150	157	141	116	161	159
Clarke	91	106	103	113	93	109	99	93	87	111	102	96	83	101	106
Clay	165	182	172	185	158	182	171	189	199	169	180	165	161	171	186
Clayton	219	214	220	239	201	227	225	232	236	261	239	228	234	217	235
Clinton	531	548	518	540	559	556	577	502	555	491	546	604	539	580	534
Crawford	172	179	171	155	170	160	160	172	201	214	190	197	183	201	179
Dallas	295	274	273	278	287	274	292	304	268	270	265	267	272	259	262
Davis	91	107	87	103	100	99	96	89	96	108	86	120	105	118	96
Decatur	113	118	128	134	106	105	98	105	118	121	91	141	136	99	119
Delaware	149	173	181	144	171	165	160	153	178	176	184	166	186	169	182
Des Moines	412	428	399	474	456	493	519	438	495	520	442	422	488	405	466
Dickinson	184	172	149	163	160	161	179	147	145	162	169	156	172	152	135
Dubuque	871	854	810	841	840	853	796	782	818	801	822	802	798	847	803
Emmet	133	146	147	130	134	156	122	132	123	143	151	137	137	133	159
Fayette	255	255	242	266	257	266	275	269	287	295	277	273	288	290	260
Floyd	198	220	216	214	203	219	220	178	207	246	182	213	226	198	231
Franklin	138	145	117	130	120	136	156	157	123	141	151	131	131	135	135
Fremont	129	115	127	105	104	122	129	143	126	110	131	122	125	122	119
Greene	104	116	141	143	142	123	159	148	137	159	155	147	135	166	136
Grundy	122	127	89	134	117	130	148	128	136	139	112	135	147	123	138
Guthrie	139	145	136	133	142	147	190	165	158	152	153	166	176	149	165
Hamilton	154	171	183	186	177	194	199	169	173	167	171	195	200	165	162
Hancock	124	135	132	115	130	111	150	135	125	142	133	144	131	147	159
Hardin	244	243	267	239	237	231	226	243	263	244	246	230	233	262	243
Harrison	180	230	200	202	198	177	221	212	173	205	188	190	204	197	205
Henry	197	233	200	215	169	209	194	219	185	209	197	180	197	179	207
Howard	132	125	122	118	124	107	129	153	130	144	146	137	133	139	112
Humboldt	115	141	140	130	135	99	122	113	125	130	133	119	129	113	136
Ida	109	117	104	117	115	86	115	115	109	103	101	113	104	99	107
Iowa	164	172	163	155	174	152	169	196	144	162	162	168	178	150	161
Jackson	221	228	202	241	209	247	225	237	219	229	220	198	220	226	237
Jasper	381	365	356	374	298	329	361	343	343	329	335	376	310	343	341

Table 2. Deaths in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	137	166	160	173	153	145	160	162	169	165	171	177	168	168	154
Johnson	475	455	436	451	429	461	421	452	444	482	444	452	403	392	395
Jones	170	177	167	202	192	174	194	178	201	184	174	179	172	209	167
Keokuk	138	137	124	138	165	151	171	152	147	168	169	186	154	189	166
Kossuth	194	223	196	207	197	189	203	195	206	204	197	220	230	209	217
Lee	470	463	444	453	398	423	459	435	446	453	387	462	406	458	456
Linn	1361	1356	1230	1274	1237	1288	1288	1269	1307	1245	1181	1287	1222	1227	1271
Louisa	137	147	113	100	121	103	136	107	119	101	104	109	122	119	110
Lucas	118	107	122	122	129	139	126	107	114	152	119	125	131	130	115
Lyon	123	136	116	137	115	128	96	117	137	121	120	120	105	105	134
Madison	145	143	164	150	156	144	156	141	156	153	143	160	128	140	126
Mahaska	240	223	220	224	250	243	237	230	261	267	261	248	243	244	233
Marion	315	308	326	303	329	315	323	276	297	287	308	293	277	297	256
Marshall	514	497	456	506	485	500	421	458	392	437	417	439	423	412	427
Mills	123	149	110	129	129	147	123	148	140	138	128	111	144	123	133
Mitchell	136	157	153	135	148	150	140	166	108	154	161	169	150	138	142
Monona	160	158	162	147	156	143	153	144	149	177	172	167	159	139	143
Monroe	115	96	118	109	105	137	104	112	127	113	109	125	117	139	116
Montgomery	145	183	156	176	181	186	178	175	177	165	195	147	173	151	152
Muscatine	414	380	375	391	357	377	340	383	341	379	389	360	364	359	339
O'Brien	204	184	192	205	190	182	200	209	159	194	198	195	215	166	198
Osceola	90	72	77	88	66	78	81	101	97	96	88	99	81	96	105
Page	215	211	224	236	230	214	235	239	238	256	234	253	243	281	223
Palo Alto	141	153	124	144	140	139	147	145	140	149	135	149	147	147	148
Plymouth	213	224	244	225	235	220	215	243	210	246	245	249	244	207	246
Pocahontas	135	119	127	132	121	132	160	128	114	150	145	131	176	132	169
Polk	2605	2617	2466	2614	2539	2571	2604	2484	2499	2533	2427	2461	2373	2393	2456
Pottawattamie	790	769	731	754	746	731	829	819	747	802	800	772	752	771	786
Poweshiek	201	184	204	170	196	195	206	188	199	195	209	175	192	187	192
Ringgold	88	83	77	74	84	65	71	78	80	88	70	73	74	89	84
Sac	167	176	155	144	178	177	165	168	172	176	168	178	188	173	147
Scott	1259	1307	1224	1171	1105	1218	1211	1217	1236	1174	1214	1234	1093	1209	1173
Shelby	169	147	146	153	151	161	163	147	151	155	139	161	146	158	168
Sioux	244	242	218	218	228	238	255	238	235	278	235	228	234	229	236
Story	389	420	412	453	415	405	412	411	418	425	357	396	404	361	402
Tama	229	222	170	216	226	209	176	198	209	232	210	201	187	234	211
Taylor	99	95	94	115	105	133	98	119	122	98	106	126	127	127	114
Union	159	163	160	165	167	156	171	175	168	167	166	181	170	174	153
Van Buren	102	106	97	108	87	118	134	107	116	117	83	123	109	99	119
Wapello	428	463	418	488	473	459	476	442	506	443	513	488	441	477	498
Warren	316	285	233	282	283	272	288	242	246	244	261	230	223	217	227
Washington	245	236	206	243	215	217	212	219	208	235	226	226	186	203	207
Wayne	119	101	112	102	92	96	104	107	124	138	111	129	97	142	128
Webster	489	483	482	489	451	459	495	490	448	473	468	486	489	489	472
Winnebago	137	150	158	151	138	125	150	147	119	139	151	137	134	145	133
Winneshiek	178	175	159	176	219	183	198	182	221	229	207	224	178	188	179
Woodbury	985	982	974	918	939	956	1017	943	940	950	950	970	1013	971	984
Worth	102	96	94	96	115	86	120	102	108	108	103	108	100	104	93
Wright	198	210	173	175	178	165	187	181	185	199	189	177	196	209	208
State of Iowa	27651	27951	26580	27306	26815	27147	27851	27213	27021	27810	26972	27509	26852	26930	27096

Table 3. Natural Change in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	-34	-48	-2	-24	-2	8	-17	-30	-13	19	-1	2	39	15	54
Adams	-2	-10	-15	1	3	0	-4	8	-6	19	-6	-2	5	-3	19
Allamakee	-9	5	20	9	-21	25	31	17	19	37	52	45	74	80	63
Appanoose	-37	-36	1	-27	-13	-9	-24	-35	16	-33	14	25	16	33	29
Audubon	-21	-35	-48	-22	3	-1	-33	1	5	-1	61	20	2	10	76
Benton	91	101	97	114	121	57	36	48	85	90	115	45	100	136	201
Black Hawk	366	580	521	609	557	621	514	541	705	866	1095	984	1186	1291	1323
Boone	9	-33	23	34	40	30	26	36	27	45	66	61	46	103	105
Bremer	8	6	43	23	13	45	-5	7	44	90	101	132	181	185	190
Buchanan	110	46	125	122	117	137	106	142	97	187	170	177	236	277	255
Buena Vista	28	21	78	65	77	0	62	42	84	54	76	49	96	104	76
Butler	-39	-26	-43	-14	15	-17	7	-12	0	21	59	68	69	76	118
Calhoun	-35	-79	-65	-60	-18	-78	-63	-24	-5	-62	-34	3	23	6	18
Carroll	40	29	38	61	106	90	102	109	171	157	147	172	132	176	198
Cass	-25	-2	-15	-8	-14	-33	-40	-35	-18	-43	38	15	43	97	31
Cedar	18	46	42	69	45	58	28	20	21	80	78	83	99	108	83
Cerro Gordo	98	88	110	164	205	194	149	142	186	257	161	263	237	237	261
Cherokee	-1	-17	-5	-13	29	7	5	-11	55	15	39	57	60	73	62
Chickasaw	1	23	42	7	57	50	37	-15	52	27	67	83	149	99	99
Clarke	-9	-25	2	-8	13	12	13	21	22	5	2	16	53	21	20
Clay	54	8	63	73	81	78	51	48	44	101	80	140	196	143	161
Clayton	-12	28	8	15	41	35	9	18	20	37	43	78	93	147	108
Clinton	114	132	162	145	126	118	99	187	152	262	242	171	316	302	386
Crawford	4	29	25	50	58	44	96	105	46	49	66	126	111	99	142
Dallas	145	151	149	148	122	171	92	119	123	132	189	194	156	173	204
Davis	36	11	20	24	28	17	19	21	28	26	42	28	32	31	53
Decatur	0	-30	-40	-40	-15	-6	0	5	-23	-15	21	-34	0	26	10
Delaware	119	89	80	127	114	99	130	131	103	144	127	175	176	162	219
Des Moines	112	130	169	106	112	89	41	102	23	150	208	235	182	337	301
Dickinson	-36	-45	3	0	0	-3	-32	28	20	15	26	22	55	47	94
Dubuque	305	398	358	390	420	331	396	471	381	477	540	573	649	695	781
Emmet	-24	-5	-12	25	0	-35	17	12	16	16	9	59	63	81	68
Fayette	47	0	36	29	32	13	22	-6	-9	3	80	89	116	90	145
Floyd	-12	-20	-12	7	16	1	-23	30	6	-10	59	72	24	78	28
Franklin	-5	-25	9	0	4	-4	-20	-18	25	32	42	34	45	56	60
Fremont	-50	-25	-24	2	-4	-24	-26	-40	-2	6	-14	2	-8	10	12
Greene	4	13	-18	-19	-34	-19	-42	-10	-10	-12	17	22	30	30	46
Grundy	-11	14	24	2	29	8	-6	-7	12	4	58	52	20	59	89
Guthrie	-13	-40	19	5	-20	-36	-73	-61	-43	-33	3	-22	-27	11	14
Hamilton	49	22	23	34	32	19	0	29	70	32	83	40	19	94	95
Hancock	1	-10	10	42	34	56	9	30	64	48	79	47	102	70	93
Hardin	-26	-39	-75	-30	-24	-17	-2	-25	-30	26	37	81	91	56	105
Harrison	-5	-51	0	-1	-11	14	-29	13	57	22	29	10	13	24	49
Henry	42	19	56	22	96	15	54	17	65	29	67	80	73	99	96
Howard	-36	-13	4	-4	11	19	-18	-7	11	-7	15	26	36	19	72
Humboldt	3	-31	-40	-26	-23	37	21	25	24	33	53	59	60	78	52
Ida	-23	-24	-10	-17	-8	64	7	-3	9	32	47	33	13	60	41
Iowa	48	41	33	53	39	84	9	-17	71	20	54	49	38	80	68
Jackson	20	30	56	45	43	8	50	53	63	116	105	151	137	145	133
Jasper	58	58	99	97	134	132	85	95	75	143	127	64	214	163	189

Table 3. Natural Change in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	35	11	25	13	39	57	48	16	49	57	53	56	41	42	63
Johnson	813	882	923	907	977	836	909	833	834	844	862	802	896	958	881
Jones	83	58	76	53	59	62	46	38	19	106	88	96	108	63	156
Keokuk	-9	6	23	38	-15	1	-11	-5	-10	-11	16	-1	12	10	57
Kossuth	2	-4	3	19	54	51	42	54	59	58	98	130	114	123	180
Lee	-35	63	96	41	98	69	50	109	80	136	195	134	217	205	237
Linn	1189	1195	1414	1358	1404	1219	1177	1104	1038	1205	1318	1192	1420	1340	1555
Louisa	24	37	30	48	42	46	5	60	25	44	57	63	56	82	62
Lucas	11	10	-22	-11	-13	-46	-15	-6	-1	-42	13	-10	33	5	55
Lyon	42	26	64	19	63	39	87	59	23	62	74	87	109	133	102
Madison	15	19	-9	8	2	23	5	-3	-16	11	11	-10	30	15	71
Mahaska	32	54	44	76	35	73	58	66	65	51	64	91	99	87	167
Marion	104	83	86	61	45	83	40	129	71	152	95	141	186	142	193
Marshall	9	26	15	-48	17	-12	67	-3	128	118	171	183	194	242	246
Mills	60	10	41	41	7	21	31	25	31	29	64	62	30	89	92
Mitchell	6	-3	-27	13	-17	-23	-3	-33	39	-6	-12	4	4	33	54
Monona	-36	-52	-17	-14	-42	-30	-48	-34	-20	-72	-32	9	-2	22	36
Monroe	-28	23	-20	2	11	-41	-16	-5	-23	-4	13	-5	-6	-4	17
Montgomery	15	-42	9	-38	-23	-36	-30	-22	-41	-13	-16	42	10	36	53
Muscatine	212	262	281	285	308	305	275	177	294	253	246	349	390	373	375
O'Brien	-30	7	7	-29	-6	13	-27	-25	47	19	37	68	59	121	81
Osceola	-20	9	9	19	28	22	23	-14	-9	11	17	32	43	31	32
Page	-34	-47	-58	-57	-30	6	-26	-50	-55	-21	-30	-27	-6	-15	47
Palo Alto	-34	-44	-12	-33	-45	1	-14	-23	-6	32	27	66	37	67	61
Plymouth	98	83	73	71	111	90	96	110	166	88	164	166	148	248	181
Pocahontas	-51	-31	-28	-28	3	-22	-25	-19	7	17	5	29	-26	17	-9
Polk	2853	2843	3094	2880	2828	2974	2394	2503	2457	2554	2482	2513	2596	2700	2631
Pottawattamie	366	424	530	545	615	550	466	433	581	532	579	654	659	698	682
Poweshiek	10	21	11	67	30	31	-3	-1	24	25	11	69	62	74	55
Ringgold	-58	-45	-20	-21	-40	-12	-15	-18	-35	-10	14	-2	33	-9	2
Sac	-41	-37	-15	-19	-33	-24	-23	-19	-19	1	14	-3	-5	62	88
Scott	984	1101	1259	1238	1325	1158	1157	1075	1309	1369	1433	1407	1658	1615	1781
Shelby	-23	16	8	3	31	2	7	25	9	16	98	50	94	31	85
Sioux	136	195	215	221	206	194	216	219	259	233	284	346	326	355	400
Story	455	365	466	447	512	469	537	522	526	610	682	679	606	693	653
Tama	7	3	56	-3	-11	9	31	35	18	18	50	68	98	25	78
Taylor	-21	-25	-19	-52	-13	-54	-25	-33	-51	-7	-4	-24	6	-8	21
Union	-40	-11	-11	-22	-19	10	-28	-23	-1	-17	-1	9	22	52	59
Van Buren	2	2	-6	-10	2	-25	-11	-4	-22	-10	28	-12	8	37	7
Wapello	0	2	4	-7	17	25	-56	4	-39	25	21	-8	123	70	99
Warren	133	214	283	268	196	227	195	245	220	262	228	255	272	297	324
Washington	34	37	63	34	92	84	68	79	65	34	81	56	104	90	119
Wayne	-41	-30	-38	-28	-9	-19	-15	-32	-49	-42	-17	-45	-4	-37	-5
Webster	36	51	84	74	146	146	94	105	126	158	163	185	244	186	288
Winnebago	-2	-29	-17	-13	10	40	14	5	52	23	19	35	44	17	64
Winneshiek	64	54	96	76	40	86	74	87	67	58	114	97	131	112	148
Woodbury	666	669	691	705	692	540	565	599	517	702	651	675	678	838	809
Worth	-11	-2	-3	3	-16	21	-20	-4	-5	9	12	2	30	25	34
Wright	-41	-54	-2	13	36	26	-13	-4	-14	-3	14	29	12	11	39
State of Iowa	9406	9854	11879	11619	12515	11769	10219	10653	11727	13372	15388	15738	17864	18988	20701

counties. An additional 10 or more deaths were reported in 1994 than in 1984 in 31 counties, but deaths decreased by 10 or more in 34 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 1980-1994 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. This narrowing of the difference between total numbers of births and deaths continued in 1994, when 9,406 more were born than died.

Fifty-seven Iowa counties reported natural increases (more births than deaths) in 1994. These increases ranged from less than 50 in 31 counties to more than 100 in 18 others. Two counties (Linn, Polk) had at least 1,000 more births than deaths in 1994. Three others (Johnson, Scott, Woodbury) had natural increases of at least 500 that year.

Forty counties had natural decreases (more deaths than births) in 1994 (Figure 3). Deaths outnumbered births by at least 50 in Fremont, Pocahontas, and Ringgold. In 1980, only two counties (Pocahontas, Wayne) reported more deaths than births. The total of 40 counties experiencing natural decrease in 1994 was the highest of the years examined (Figure 4).

Forty counties had more births than deaths every year from 1980 through 1994. Only Wayne had more deaths than births every year, although 23 others had natural decreases occurring in at least 8 of the 15 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, 1980-1994.

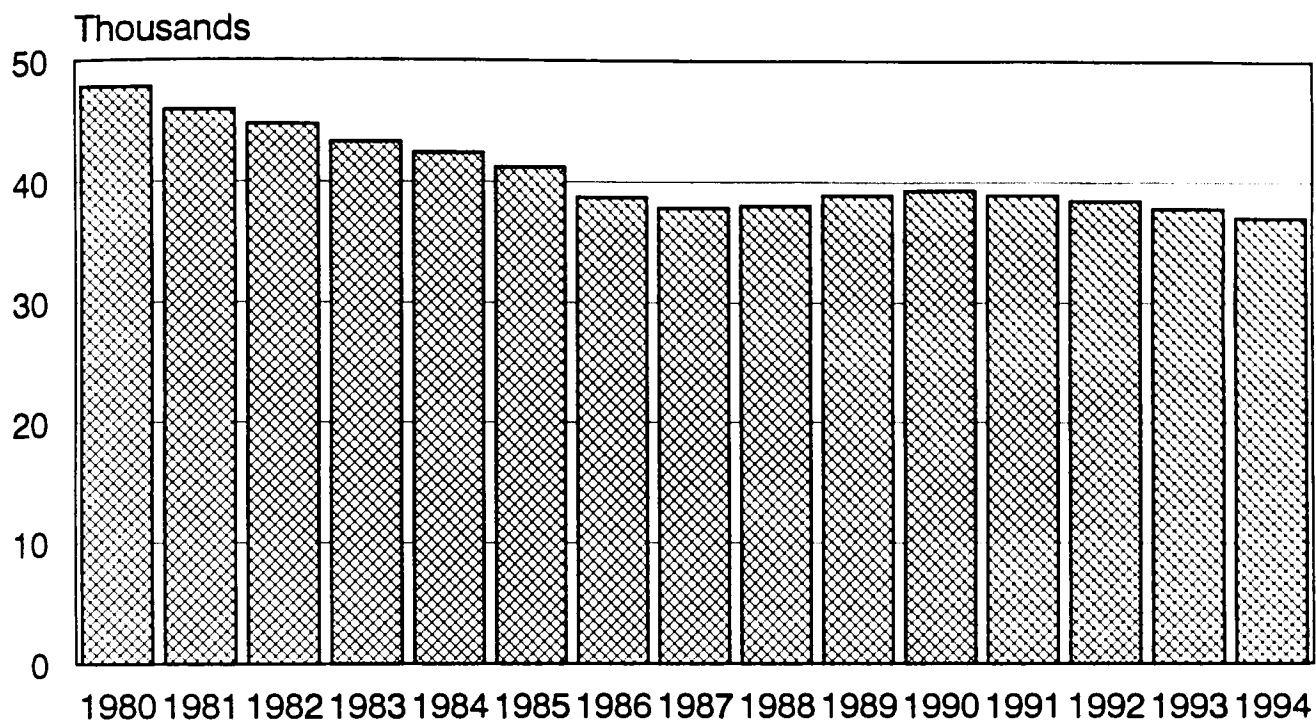


Figure 2. Deaths in Iowa, 1980-1994.

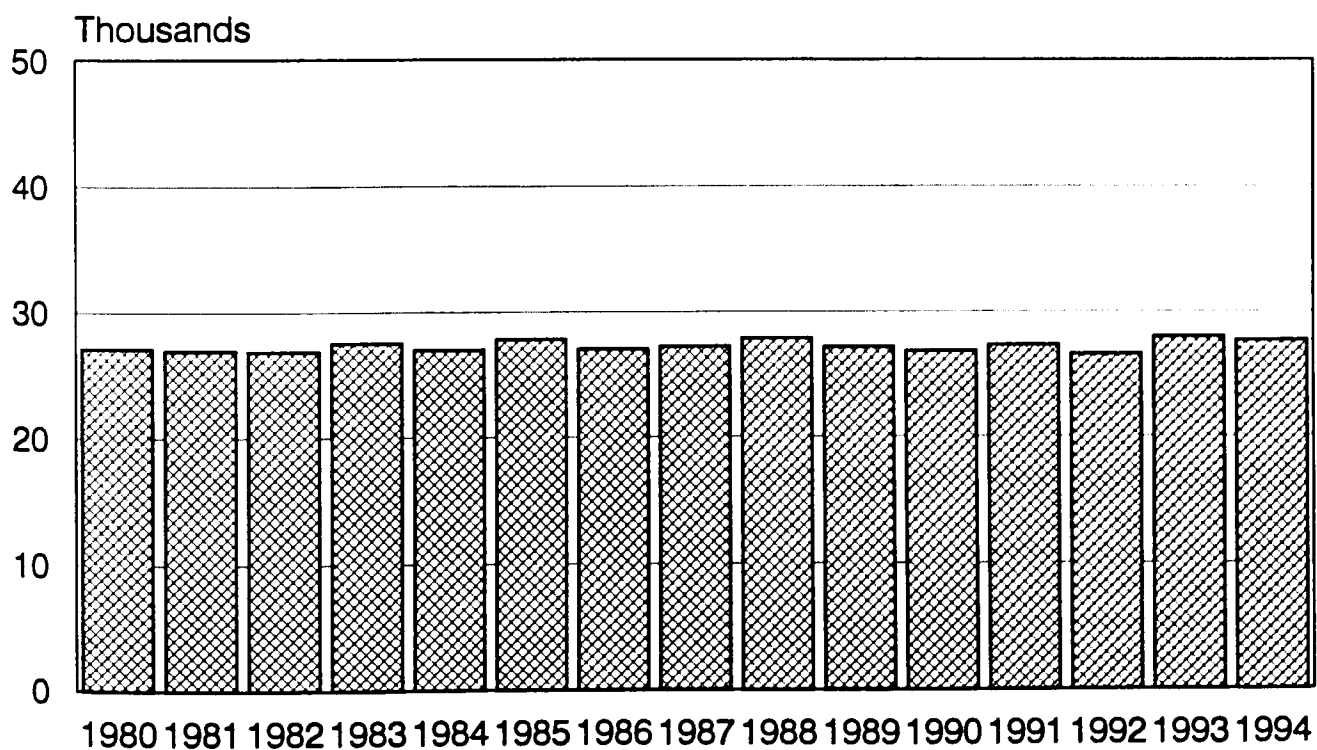


Figure 3. Natural change, 1994.

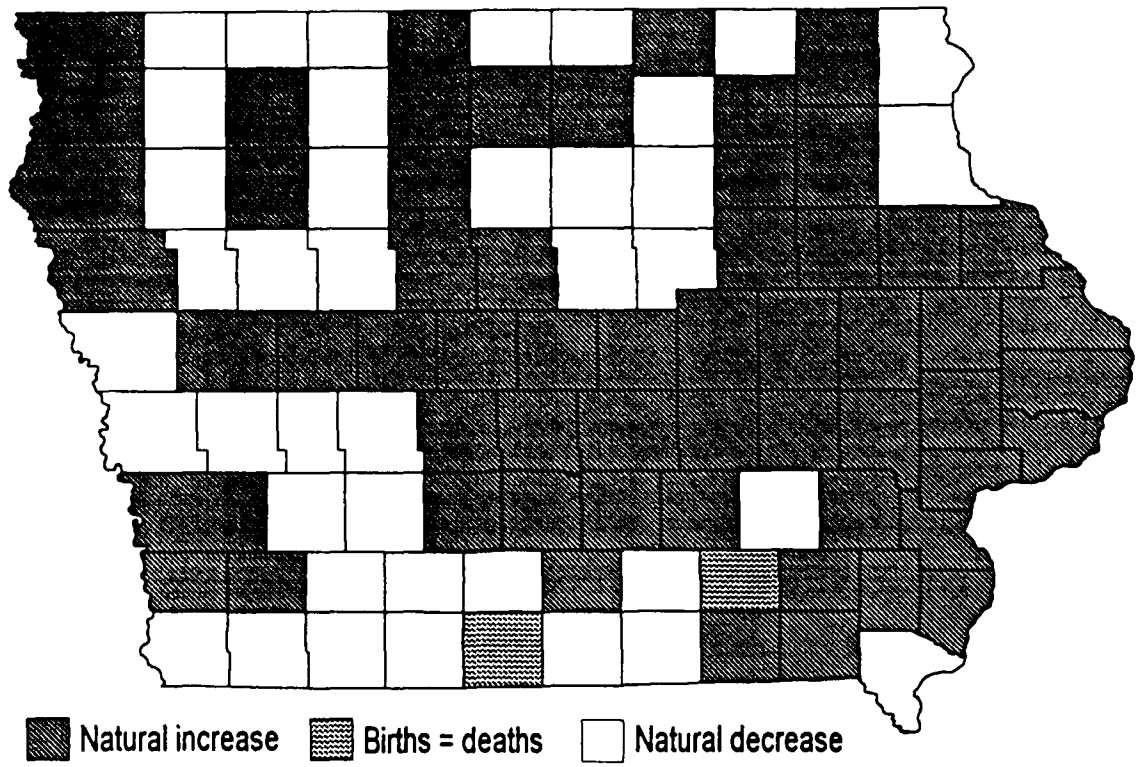
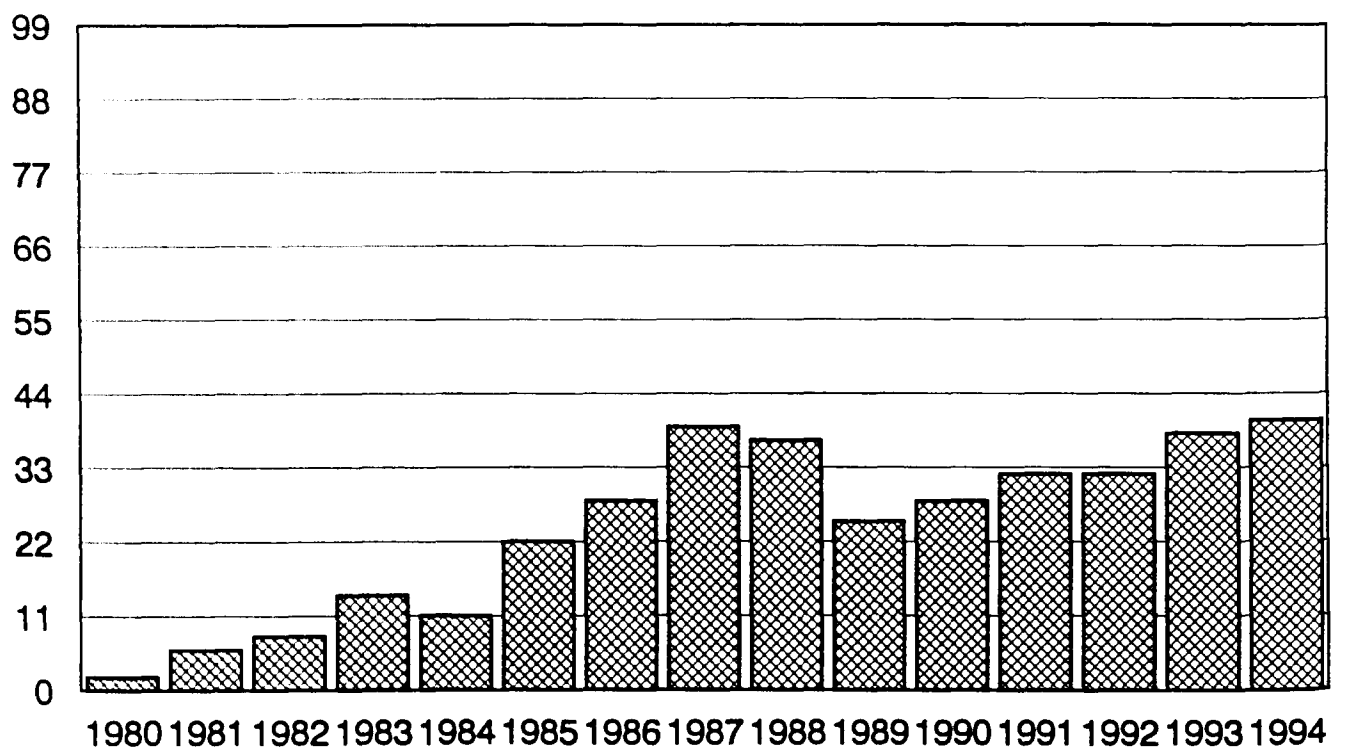


Figure 4. Number of counties with natural decrease in Iowa, 1980-1994.



## Estimated Birth and Death Rates in Iowa's Counties:

### 1980-1994

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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 1991-1994 rates; they are based on population estimates provided by the U.S. Bureau of the Census.

#### 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 1986-1994, although the rate was up half a point from 1987 to 1990. From 1990 to 1994, however, the birth rate again declined; in the last two years, the rates were at least three points below that of 1980. The death rate in Iowa has not changed as much; it ranged from 9.3 in 1980-1982 to 10.1 in 1988. The 1994 figure was 9.8 deaths per 1,000 residents. Although Iowa's death rate is somewhat higher than that for the nation (1980, 8.8; 1994, 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 from 1980 to 1987. 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. In 1980, Iowa's birth rate of 16.4 was a half point above that of the nation (15.9); by 1994, however, Iowa's figure of 13.1 was more than two points below that of the United States (15.3).

#### County Data on Birth and Death Rates

In 1994, 26 counties had birth rates above the state figure of 13.1 (Table 1). Three counties (Muscatine, Polk, Woodbury) had rates two points or more above that for Iowa, while another eight had rates at least a point above the state average. Of the 73 counties with birth rates below that of the state, 33 fell at least two points under the state level and another 20 were at least one but less than two points below 13.1. Calhoun, Cass, Dickinson, Emmet, Fremont, Grundy, Howard, Osceola, Pocahontas, Ringgold, and Union had fewer than 10 births for every 1,000 residents in 1994.

Death rates in 1994 varied from less than 7.0 (Johnson, Story) to 15.0 or more (Adair, Audubon, Fremont, Monona, Ringgold, Wayne) in Iowa's counties (Table 2). Although only four counties (Johnson, Linn, Polk, Story) had death rates two points or more below the state average of 9.8, 46 counties reported rates two or more points greater than that for the state. Fourteen counties had rates at least four points higher than did the state. A total of 78 counties had death rates above the state figure.

Differences between county birth rates in 1984 and 1994 generally mirror the decline reported for the state. Only 10 counties (Adams, Davis, Decatur, Louisa, Lucas, Marion, Mitchell, Page, Van Buren, Woodbury) had higher birth rates in 1994 than in 1984. Twelve had birth rates in 1994 that were less than a point lower than their rates for 1984. But the differences were at least five points in five counties. Ida and Ringgold had birth rates in 1994 that were at least six points lower than 10 years earlier.

For the most part, death rates changed far less than did birth rates. Seventy-one counties had higher death rates in 1994 than in 1984, as did the state. But in only Audubon, Decatur, and Ringgold was the rate four or more points higher at the end of the period than at the beginning. Among the 25 counties



Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	11.2	8.8	12.5	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	14.1	11.1	8.8	13.5	12.3	14.0	14.5	12.1	10.6	13.7	13.5	11.7	14.4	11.4	16.4
Allamakee	11.3	12.6	14.3	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	11.1	11.8	12.6	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	12.6	10.3	9.8	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	12.3	13.2	13.3	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	13.0	14.3	13.3	13.9	13.7	13.7	13.3	13.1	13.8	15.0	15.6	15.5	16.4	16.9	17.3
Boone	12.4	10.9	11.4	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	10.5	11.7	11.2	10.3	10.6	11.3	10.3	10.7	11.5	12.5	12.6	13.0	14.9	16.1	16.8
Buchanan	14.7	13.1	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	12.1	11.7	13.6	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	10.4	10.8	10.1	10.2	11.7	11.4	11.8	11.2	12.8	12.0	14.2	15.0	14.6	13.4	16.1
Calhoun	9.2	7.8	10.4	9.6	11.3	10.7	9.5	12.3	12.7	12.1	11.0	13.1	14.8	12.7	15.1
Carroll	12.5	11.9	12.6	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	9.9	11.8	11.3	13.6	12.7	12.6	12.4	10.6	12.9	12.2	15.1	13.5	15.0	16.8	14.2
Cedar	11.0	11.6	11.1	12.4	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	12.7	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	11.4	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	12.6	13.4	12.5	12.5	15.0	13.6	12.6	11.2	14.2	12.2	15.0	14.8	17.4	17.0	16.7
Clarke	10.0	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	12.4	10.7	13.2	14.6	13.6	14.9	12.9	13.7	13.7	14.7	13.7	15.9	18.6	16.2	17.7
Clayton	11.0	12.8	12.1	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	12.7	13.3	13.3	13.4	13.4	13.2	13.2	13.3	13.5	14.1	14.5	14.0	15.2	15.6	16.1
Crawford	10.7	12.6	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	13.7	13.5	13.6	14.0	13.7	15.2	13.2	14.7	13.5	13.7	15.6	15.7	14.7	14.7	15.8
Davis	15.0	14.0	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	14.0	10.9	10.8	11.5	10.9	11.7	11.6	12.9	10.8	11.9	12.3	11.5	14.2	12.8	13.2
Delaware	14.6	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	12.2	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	9.6	8.2	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	13.3	14.2	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	9.7	12.4	11.6	13.4	11.6	10.5	11.9	12.4	11.7	12.8	12.5	15.3	15.2	16.1	17.0
Fayette	13.8	11.6	12.7	13.4	13.2	12.8	13.6	12.0	12.3	12.7	14.8	14.8	16.3	15.2	15.9
Floyd	11.1	11.9	12.0	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	12.0	10.7	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	9.6	11.0	12.6	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	10.8	12.7	12.2	12.3	10.8	10.2	11.3	13.1	11.7	13.1	15.0	14.4	14.0	16.4	15.0
Grundy	9.2	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	11.2	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	12.7	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	10.3	10.3	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	11.7	11.0	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	11.7	12.1	13.6	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	12.1	12.9	13.1	12.2	13.8	11.8	13.0	12.4	13.2	12.6	14.2	14.0	14.4	14.8	16.0
Howard	9.7	11.3	12.7	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	11.4	10.5	9.5	9.7	10.4	12.6	13.2	12.6	13.2	14.0	15.7	14.9	15.8	15.7	15.4
Ida	10.4	11.2	11.3	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	14.2	14.3	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	11.9	12.8	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	12.5	12.1	13.1	13.6	12.4	13.3	12.8	12.7	12.1	13.6	13.2	12.5	14.7	14.0	14.6

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	10.2	10.6	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	12.9	13.5	13.9	14.0	14.6	13.7	14.4	14.2	14.3	15.0	15.0	14.6	15.3	16.1	15.6
Jones	12.7	11.8	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	11.2	12.3	12.7	15.1	12.9	13.0	13.5	12.4	11.3	12.7	14.8	14.7	13.1	15.6	17.3
Kossuth	10.8	12.1	10.9	12.3	13.5	12.7	12.9	13.0	13.5	12.8	14.2	16.7	16.2	15.4	18.1
Lee	11.1	13.5	13.8	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	14.4	14.6	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	13.8	15.7	12.5	12.7	14.1	12.9	12.1	14.4	12.4	12.3	13.4	14.3	14.8	16.5	14.3
Lucas	14.4	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	13.9	13.5	15.0	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	12.3	12.6	12.1	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	12.5	12.8	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	13.7	12.9	13.6	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	13.7	13.8	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	13.4	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	12.9	14.0	11.6	13.5	12.0	11.5	12.3	11.9	13.1	12.9	12.9	14.6	12.9	14.1	15.9
Monona	12.3	10.5	14.5	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	10.7	14.6	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	13.3	11.7	13.9	11.5	13.1	12.4	12.3	12.7	11.0	11.8	13.6	14.4	13.9	14.0	15.3
Muscatine	15.2	15.6	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	11.3	12.4	12.9	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	9.8	11.3	11.9	14.7	12.9	13.8	14.1	11.8	11.7	13.8	13.0	16.1	15.3	15.4	16.4
Page	10.8	9.8	10.0	10.6	11.9	13.1	12.5	11.1	10.6	13.2	11.2	12.3	12.7	14.1	14.2
Palo Alto	10.3	10.5	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	12.8	12.9	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	9.2	9.6	10.6	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	15.8	15.9	16.5	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	13.9	14.3	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	11.1	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	5.5	7.1	10.6	9.8	8.1	9.7	10.3	11.0	8.1	13.5	14.1	11.8	17.5	13.2	14.1
Sac	10.4	11.5	11.5	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	14.4	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	11.1	12.4	11.6	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	12.2	14.2	14.2	14.6	14.5	14.5	15.7	15.4	16.5	16.8	17.0	18.7	18.3	19.1	20.6
Story	11.3	10.5	11.8	12.2	12.5	11.9	12.8	12.7	12.8	14.0	14.2	14.7	14.0	14.5	14.6
Tama	13.3	12.8	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	11.0	9.9	10.6	8.9	12.9	11.0	10.1	11.6	9.4	11.6	12.6	12.4	16.0	14.3	16.2
Union	9.5	12.1	11.9	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	13.5	13.9	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	11.9	12.9	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	11.7	13.2	13.9	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	13.8	13.5	13.3	13.9	15.7	15.4	14.3	15.3	13.9	13.6	15.5	14.2	14.4	14.5	16.2
Wayne	11.2	10.2	10.6	10.5	11.7	10.9	12.6	10.4	10.2	12.8	12.0	10.7	11.7	13.0	15.0
Webster	13.3	13.4	14.1	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	11.3	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	11.5	10.9	12.1	12.0	12.4	12.8	12.9	12.8	13.6	13.4	14.8	14.8	14.2	13.7	14.9
Woodbury	16.3	16.4	16.7	16.4	16.6	15.3	16.2	15.9	14.9	16.7	16.1	16.5	16.8	17.9	17.8
Worth	11.6	11.8	11.5	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	11.1	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	13.1	13.4	13.7	13.9	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	15.2	14.5	12.7	13.2	12.4	12.0	12.1	14.5	14.3	11.5	12.6	12.3	11.2	11.7	11.8
Adams	14.5	13.3	12.0	13.3	11.7	14.0	15.3	10.5	11.7	10.2	14.6	12.0	13.5	11.9	13.1
Allamakee	12.0	12.2	12.9	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	13.8	14.4	12.5	14.3	13.0	12.7	13.7	14.0	11.6	15.4	12.5	11.4	11.1	12.8	13.7
Audubon	15.7	15.3	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	8.5	8.9	9.1	9.8	8.8	10.5	11.2	10.6	9.4	9.7	9.3	10.7	8.9	9.0	9.0
Black Hawk	10.0	9.6	9.1	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	12.0	12.2	10.5	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	10.2	11.5	9.4	9.3	10.0	9.3	10.6	10.3	9.6	8.7	8.5	7.7	7.5	8.6	9.1
Buchanan	9.6	10.9	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	10.7	10.7	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	12.9	12.4	12.8	11.1	10.7	12.4	11.4	11.9	12.8	10.7	10.7	11.1	10.7	9.1	9.4
Calhoun	12.2	14.7	16.0	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	10.6	10.8	10.1	10.0	9.4	9.7	10.5	8.6	9.6	10.5	10.8	11.1	10.4	10.4
Cass	11.6	12.0	12.2	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	10.0	9.0	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	10.5	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	11.4	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	12.6	11.7	9.3	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	11.1	12.7	12.3	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	9.4	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	11.6	11.3	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	10.4	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	10.4	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	9.2	8.7	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	10.8	12.7	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	14.0	14.6	15.7	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	8.1	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	9.6	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	11.9	11.2	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	9.9	9.7	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	11.8	12.8	12.7	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	11.6	11.6	11.0	12.1	11.8	12.2	12.6	12.2	12.7	12.6	11.5	11.2	11.6	11.6	10.2
Floyd	11.9	13.1	12.7	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	12.5	12.9	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	15.7	14.1	15.5	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	10.4	11.5	14.0	14.2	14.1	12.1	15.4	14.1	12.7	14.2	13.5	12.6	11.5	13.9	11.2
Grundy	10.1	10.5	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	12.3	12.9	12.2	11.9	13.0	13.5	17.2	14.9	14.0	13.3	13.2	14.4	15.1	12.6	13.8
Hamilton	9.6	10.6	11.3	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	10.2	11.1	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	13.1	13.1	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	12.0	15.5	13.6	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	10.0	11.9	10.2	11.0	8.8	11.0	10.1	11.5	9.8	11.1	10.6	9.7	10.5	9.5	11.0
Howard	13.4	12.6	12.3	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	11.1	13.5	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	13.1	14.1	12.5	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	11.0	11.6	11.0	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	10.9	11.3	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	10.9	10.4	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

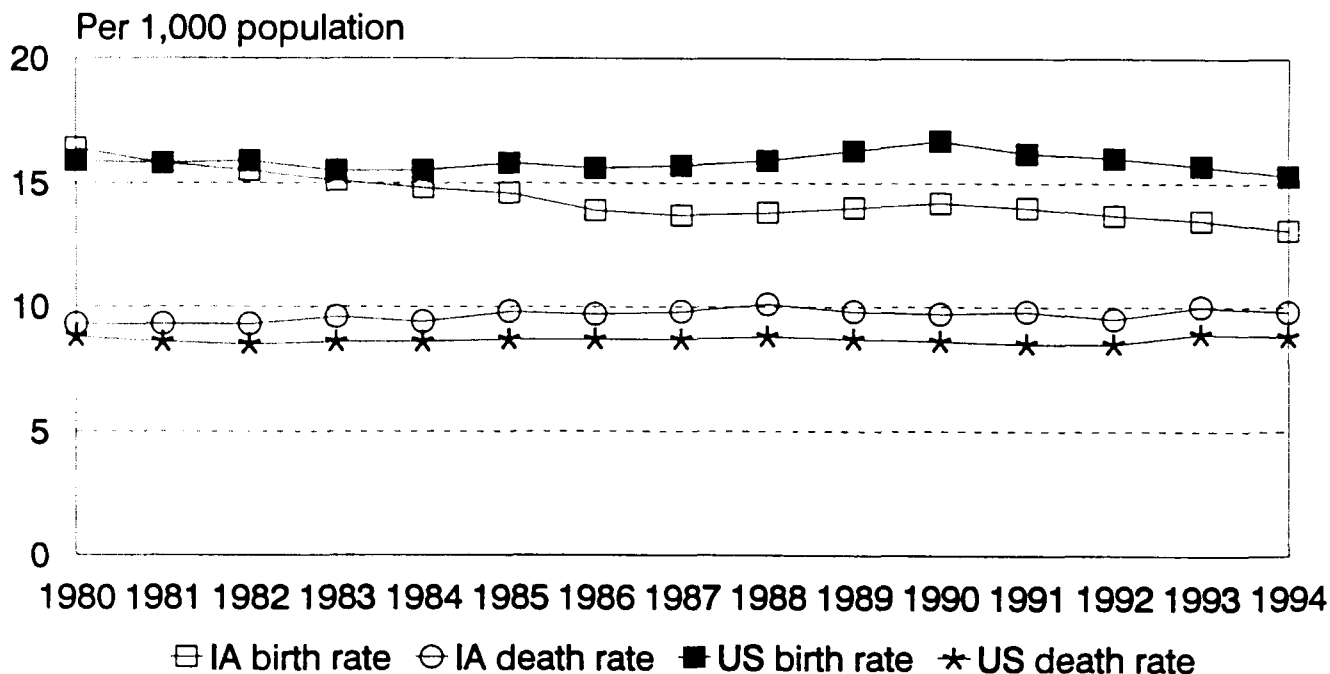
Table 2. Estimated Death Rates per 1,000 Population in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	8.1	9.9	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	4.6	4.4	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	8.5	8.9	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	12.0	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	10.7	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	12.0	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	7.7	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	11.7	12.5	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	13.1	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	10.3	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	11.1	11.1	12.8	11.9	12.5	11.6	12.7	11.5	12.7	12.5	11.7	13.0	10.3	11.2	10.0
Mahaska	11.0	10.3	10.2	10.4	11.6	11.3	11.0	10.7	12.1	12.2	11.8	11.3	10.9	10.8	10.2
Marion	10.3	10.1	10.8	10.0	11.0	10.5	10.8	9.3	10.1	9.7	10.4	9.9	9.3	10.0	8.6
Marshall	13.5	13.1	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	9.0	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	12.3	14.3	14.1	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	15.7	16.2	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	14.1	11.8	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	12.1	15.2	13.1	14.7	15.0	15.4	14.8	14.5	14.3	12.9	14.8	11.2	13.2	11.3	11.3
Muscatine	10.0	9.2	9.2	9.6	8.9	9.5	8.6	9.7	8.5	9.4	9.5	8.8	8.8	8.8	8.4
O'Brien	13.3	12.0	12.4	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	12.6	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	12.7	13.4	14.0	13.6	12.7	14.0	14.1	13.8	14.4	12.9	13.8	13.1	14.9	11.7
Palo Alto	13.5	14.7	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	8.8	9.4	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	14.8	13.0	13.6	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	7.5	7.6	7.3	7.9	7.8	8.0	8.2	7.9	8.1	8.2	7.9	8.0	7.8	7.8	8.1
Pottawattamie	9.5	9.2	8.8	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	10.6	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	16.3	15.4	14.3	13.7	15.5	11.9	13.1	14.4	14.4	15.2	11.7	12.2	12.1	14.6	13.7
Sac	13.8	14.6	12.7	11.8	14.4	14.3	13.3	13.4	13.5	13.5	12.7	13.2	13.7	12.3	10.4
Scott	8.1	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	12.9	11.2	11.0	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	7.9	7.8	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	5.2	5.6	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	12.9	12.6	9.8	12.4	13.0	11.9	10.0	11.1	11.5	12.4	11.1	10.6	9.7	12.1	10.8
Taylor	13.9	13.4	13.3	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	12.8	13.0	12.7	13.0	13.1	12.3	13.4	13.6	13.0	12.7	12.3	13.3	12.4	12.6	11.0
Van Buren	13.2	13.6	12.5	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	11.9	12.8	11.6	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	8.2	7.5	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	12.1	11.6	10.2	12.2	11.0	11.1	10.8	11.2	10.6	11.9	11.4	11.4	9.3	10.1	10.3
Wayne	17.1	14.4	16.1	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	12.4	12.1	12.0	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	11.5	12.7	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	8.5	8.3	7.6	8.4	10.5	8.7	9.4	8.7	10.5	10.7	9.5	10.3	8.2	8.6	8.2
Woodbury	9.7	9.7	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	13.0	12.1	11.9	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	13.9	14.8	12.1	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	9.8	9.9	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

where the death rates were lower in 1994 than 1984, only Greene, Jefferson, and Montgomery dropped by at least two 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 1991-1994 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, 1994," 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, 1980-1994.



## **Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties: 1981-1994**

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In 1994, there were 37,057 births to Iowans (Table 1). Births to Iowa residents are attributed to the county of residence of the mother. This information is collected annually by the Iowa Department of Public Health. Births in Iowa's counties in 1994 varied from as few as 30 in Ringgold to as many as 5,458 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 1981 to 1987; these numbers increased from 1987 to 1990, although they declined again from 1990 to 1994. All counties had at least one year of increase during the time period. When 1984 and 1994 were compared, however, all counties except Decatur, Linn, Louisa, Madison, Marion, Polk, and Woodbury showed a decline (Table 3); Polk's increase of 549 was the only one above 60. Black Hawk, with 488 fewer births in 1994 than in 1984, had the largest decrease, although 12 other counties declined by at least 100.

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

Even though births declined in Iowa between 1984 and 1994, the number of births out of wedlock increased. The 9,198 out-of-wedlock births in 1994 was an increase of 73.1 percent from the 5,315 in 1984. 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. For 1993 to 1994, out-of-wedlock births declined by 98 while total births dropped by 748.

In each year from 1981 through 1994, Polk county had the highest number of out-of-wedlock births; Scott was second highest. The seven out-of-wedlock births in Ringgold was the lowest of any county in 1994.

Out-of-wedlock births occurred disproportionately in large, urban counties. In 1984, the six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) with the highest number of out-of-wedlock births together accounted for 51.6 percent of such births but only for 35.7 percent of the total births. In 1994, the same six counties recorded 48.1 percent of the out-of-wedlock births and 39.6 percent of all births.

Other than 1993 to 1994, the number of out-of-wedlock births increased each year in the 1984-1994 period for Iowa; every county had at least one year when these numbers declined. Ninety-six counties had more out-of-wedlock births in 1994 than in 1984 (Table 3). The increases ranged from 1 to 613. For 56 of the 96 counties that gained, the increase was less than 25. Black Hawk, Clinton, Linn, Polk, Pottawattamie, Scott, and Woodbury increased by more than 100. Davis and Ringgold had the same number of out-of-wedlock births in 1984 and 1994, and Palo Alto (-4) had fewer out-of-wedlock births in 1994 than in 1984.

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 12.5

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1981-1994.

County	1994		1993		1992		1991		1990		1989		1988	
	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births
Adair	93	9	74	11	105	17	87	12	102	16	109	11	86	9
Adams	64	13	51	12	41	3	64	13	60	11	70	13	74	3
Allamakee	158	32	176	33	199	28	174	16	177	31	214	35	201	25
Appanoose	152	52	164	48	174	43	170	44	166	40	166	51	167	36
Audubon	88	16	72	6	70	9	76	11	91	5	83	7	82	5
Benton	292	64	308	50	304	60	336	68	318	46	292	49	286	34
Black Hawk	1605	580	1774	637	1650	577	1732	561	1699	541	1687	491	1628	482
Boone	313	61	274	50	288	53	312	51	329	57	309	47	347	58
Bremer	243	37	272	35	259	31	237	34	242	27	256	24	233	18
Buchanan	314	69	277	59	327	59	302	45	302	47	336	52	310	36
Buena Vista	243	66	238	59	274	55	265	54	287	42	253	25	302	43
Butler	163	26	169	32	159	22	162	20	184	25	180	26	189	25
Calhoun	106	21	90	22	120	19	111	18	130	20	124	22	111	13
Carroll	269	51	258	46	271	59	278	47	320	36	292	32	312	18
Cass	150	36	178	35	169	23	205	29	192	26	192	33	190	22
Cedar	193	38	203	35	197	37	217	28	221	37	224	38	197	23
Cerro Gordo	587	159	592	153	600	155	621	162	686	157	657	144	623	114
Cherokee	157	31	141	26	158	30	153	33	200	38	177	19	169	24
Chickasaw	169	29	179	29	166	24	166	24	199	18	182	26	170	21
Clarke	82	27	81	25	105	28	105	25	106	22	121	22	112	19
Clay	219	55	190	45	235	40	258	42	239	32	260	39	222	28
Clayton	207	39	242	46	228	44	254	33	242	43	262	35	234	33
Clinton	645	207	680	207	680	201	685	181	685	183	674	140	676	151
Crawford	176	39	208	55	196	49	205	36	228	49	204	34	256	37
Dallas	440	71	425	85	422	74	426	73	409	77	445	74	384	55
Davis	127	11	118	19	107	16	127	14	128	14	116	18	115	9
Decatur	113	20	88	24	88	22	94	21	91	12	99	16	98	9
Delaware	268	41	262	36	261	33	271	40	285	27	264	28	290	31
Des Moines	524	150	558	166	567	171	580	175	568	161	582	172	560	115
Dickinson	148	27	127	28	152	35	163	20	160	26	158	19	147	17
Dubuque	1176	266	1252	263	1168	250	1231	238	1260	211	1184	215	1192	156
Emmet	109	22	141	33	135	36	155	23	134	31	121	20	139	19
Fayette	302	65	255	53	278	52	295	53	289	45	279	43	297	25
Floyd	186	39	200	51	204	36	221	45	219	48	220	47	197	33
Franklin	133	33	120	22	125	23	130	26	124	22	132	14	136	18
Fremont	79	24	90	27	103	30	107	26	100	17	98	19	103	20
Greene	108	29	129	29	123	25	124	26	108	14	104	21	117	20
Grundy	111	17	141	14	113	14	136	15	146	11	138	13	142	8
Guthrie	126	21	105	25	154	32	138	30	122	25	111	25	117	11
Hamilton	203	38	193	39	206	45	220	42	209	26	213	33	199	21
Hancock	125	20	125	22	142	20	157	26	164	23	167	19	159	21
Hardin	218	43	204	43	192	49	209	26	213	29	214	33	224	38
Harrison	175	36	179	42	200	38	201	34	187	27	191	40	192	25
Henry	239	56	252	62	256	61	237	47	265	50	224	46	248	30
Howard	96	20	112	23	126	19	114	14	135	14	126	15	111	14
Humboldt	118	16	110	22	100	11	104	20	112	16	136	10	143	14
Ida	86	15	93	9	94	18	100	11	107	17	150	12	122	5
Iowa	212	30	213	37	196	29	208	34	213	28	236	21	178	18
Jackson	241	71	258	54	258	58	286	52	252	51	255	43	275	39
Jasper	439	89	423	82	455	88	471	89	432	74	461	61	446	52

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1981-1994 (continued).

County	1994		1993		1992		1991		1990		1989		1988	
	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births
Jefferson	172	33	177	41	185	36	186	30	192	37	202	31	208	24
Johnson	1288	162	1337	168	1359	149	1358	156	1406	170	1297	138	1330	117
Jones	253	61	235	52	243	51	255	27	251	49	236	35	240	43
Keokuk	129	23	143	29	147	24	176	26	150	19	152	17	160	15
Kossuth	196	25	219	33	199	29	226	33	251	35	240	25	245	19
Lee	435	139	526	177	539	167	494	141	496	121	492	149	509	131
Linn	2550	652	2551	624	2644	604	2632	561	2641	562	2507	522	2465	482
Louisa	161	46	184	61	143	42	148	36	163	36	149	28	141	24
Lucas	129	33	117	24	100	17	111	23	116	19	93	14	111	18
Lyon	165	16	162	17	180	13	156	9	178	14	167	9	183	6
Madison	160	24	162	33	155	25	158	25	158	14	167	28	161	19
Mahaska	272	66	277	55	264	53	300	68	285	52	316	60	295	43
Marion	419	71	391	73	412	57	364	51	374	44	398	51	363	45
Marshall	523	150	523	163	471	109	458	115	502	96	488	92	488	94
Mills	183	54	159	49	151	36	170	35	136	22	168	28	154	41
Mitchell	142	19	154	27	126	16	148	18	131	20	127	15	137	17
Monona	124	30	106	20	145	37	133	29	114	21	113	26	105	18
Monroe	87	21	119	21	98	20	111	23	116	25	96	17	88	7
Montgomery	160	50	141	35	165	33	138	28	158	31	150	29	148	29
Muscatine	626	196	642	175	655	179	676	152	665	159	682	137	615	118
O'Brien	174	27	191	35	199	28	176	16	184	19	195	16	173	18
Osceola	70	11	81	12	86	8	107	13	94	10	100	6	104	9
Page	181	59	164	42	166	48	179	39	200	45	220	41	209	28
Palo Alto	107	12	109	26	112	18	111	19	95	13	140	19	133	15
Plymouth	311	50	307	50	317	47	296	60	346	51	310	40	311	29
Pocahontas	84	15	88	23	99	13	104	10	124	17	110	10	135	12
Polk	5458	1446	5460	1456	5558	1524	5494	1481	5367	1398	5545	1302	4998	1145
Pottawattamie	1156	399	1193	376	1261	396	1299	392	1361	388	1281	327	1295	326
Poweshiek	211	55	205	40	215	40	237	45	226	45	226	28	203	30
Ringgold	30	7	38	8	57	11	53	9	44	5	53	4	56	8
Sac	126	30	139	30	140	25	125	20	145	18	153	17	142	16
Scott	2243	809	2408	824	2469	838	2409	818	2430	783	2376	721	2368	656
Shelby	146	27	163	29	154	14	156	17	182	21	163	15	170	13
Sioux	380	37	437	44	433	34	439	36	434	33	432	21	471	20
Story	844	92	785	101	877	103	900	101	927	88	874	62	949	80
Tama	236	61	225	46	225	60	213	56	215	31	218	54	207	34
Taylor	78	12	70	11	75	11	63	10	92	10	79	12	73	5
Union	119	33	152	35	149	40	143	32	148	32	166	28	143	20
Van Buren	104	24	108	24	91	19	98	20	89	14	93	8	123	11
Wapello	428	130	465	132	422	128	481	116	490	137	484	96	420	78
Warren	449	84	499	99	516	107	550	75	479	72	499	68	483	69
Washington	279	55	273	43	269	41	277	27	307	45	301	45	280	29
Wayne	78	13	71	9	74	15	74	11	83	14	77	9	89	16
Webster	525	169	534	168	566	154	563	165	597	159	605	142	589	143
Winnebago	135	25	121	29	139	37	138	22	148	21	165	23	164	16
Winneshiek	242	27	229	32	255	33	252	33	259	34	269	20	272	19
Woodbury	1651	540	1651	576	1665	558	1623	552	1631	528	1496	425	1582	435
Worth	91	15	94	18	91	15	99	16	99	16	107	22	100	14
Wright	157	36	156	35	171	37	188	40	214	31	191	28	174	26
State of Iowa	37057	9198	37805	9296	38432	9050	38925	8644	39330	8269	38916	7552	38070	6730



Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1981-1994 (continued).

County	1987		1986		1985		1984		1983		1982		1981	
	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births
Adair	94	9	111	6	122	7	114	4	115	3	143	8	125	12
Adams	63	6	55	2	73	6	73	7	64	6	80	3	64	5
Allamakee	202	40	210	17	219	32	219	21	220	21	237	16	249	22
Appanoose	162	24	180	16	188	33	197	21	194	33	184	22	229	31
Audubon	95	7	89	8	111	13	135	8	120	6	119	9	112	8
Benton	283	29	295	37	309	29	328	23	291	29	307	28	349	24
Black Hawk	1621	409	1739	443	1947	444	2093	428	2096	362	2245	384	2332	371
Boone	318	37	295	38	326	34	333	30	347	25	367	34	384	32
Bremer	242	23	267	18	297	22	306	18	320	9	367	21	398	25
Buchanan	325	42	287	28	367	44	381	45	393	26	454	41	448	24
Buena Vista	263	30	294	19	314	27	290	22	302	20	313	16	344	12
Butler	179	19	209	11	201	10	242	12	259	22	255	12	236	10
Calhoun	145	16	152	9	149	14	140	4	171	18	196	13	170	16
Carroll	338	35	361	32	373	23	384	18	416	32	384	25	416	31
Cass	163	16	204	17	200	14	255	22	228	12	254	16	286	19
Cedar	189	27	195	17	251	25	253	28	259	21	266	20	285	25
Cerro Gordo	625	130	656	91	725	95	679	84	709	79	714	82	720	70
Cherokee	166	17	211	20	199	20	207	23	229	14	231	15	245	17
Chickasaw	154	17	201	22	177	22	224	16	224	15	265	25	260	16
Clarke	114	15	109	10	116	17	104	10	112	11	136	12	122	4
Clay	237	36	243	33	270	22	260	30	305	25	357	33	314	32
Clayton	250	23	256	35	298	25	282	17	306	20	327	20	364	18
Clinton	689	124	707	115	753	88	788	99	775	88	855	92	882	103
Crawford	277	24	247	18	263	38	256	25	323	35	294	30	300	17
Dallas	423	61	391	37	402	42	454	43	461	53	428	41	432	40
Davis	110	9	124	8	134	8	128	11	148	9	137	13	149	9
Decatur	110	16	95	10	106	12	112	7	107	8	136	7	125	6
Delaware	284	32	281	26	320	18	311	12	341	20	362	21	331	20
Des Moines	540	101	518	105	670	107	650	105	657	89	670	91	742	92
Dickinson	175	30	165	19	177	17	195	10	178	25	227	9	199	13
Dubuque	1253	166	1199	151	1278	155	1362	170	1375	155	1447	160	1542	140
Emmet	144	17	139	18	159	21	160	15	196	26	200	21	214	17
Fayette	263	23	278	26	298	31	357	32	362	27	404	48	380	28
Floyd	208	32	213	24	236	36	241	35	285	27	250	24	276	30
Franklin	139	18	148	14	173	15	193	14	165	9	176	5	191	12
Fremont	103	14	124	16	116	17	117	12	124	12	117	11	132	10
Greene	138	19	127	15	147	19	172	15	169	16	165	18	196	13
Grundy	121	10	148	8	143	11	170	11	187	10	167	10	182	14
Guthrie	104	13	115	20	119	10	156	6	144	12	149	14	160	13
Hamilton	198	24	243	24	199	25	254	23	235	19	219	25	259	20
Hancock	165	18	189	13	190	16	212	11	191	16	233	15	217	14
Hardin	218	20	233	24	270	30	283	24	311	26	324	24	318	19
Harrison	225	33	230	25	227	24	217	24	200	22	217	24	221	13
Henry	236	31	250	25	238	27	264	19	260	22	270	27	278	20
Howard	146	10	141	11	137	7	161	14	163	14	169	16	158	3
Humboldt	138	14	149	15	163	16	186	15	178	9	189	11	191	10
Ida	112	9	118	9	135	6	148	11	146	6	117	6	159	6
Iowa	179	12	215	15	182	15	216	12	217	11	216	12	230	20
Jackson	290	29	282	34	345	39	325	27	349	35	357	34	371	35
Jasper	438	60	418	46	472	55	462	44	440	49	524	50	506	44

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1981-1994 (continued).

County	1987		1986		1985		1984		1983		1982		1981	
	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births	Births	Out of Wedlock Births
Jefferson	178	13	218	22	222	13	224	19	233	15	209	21	210	9
Johnson	1285	131	1278	91	1326	97	1306	89	1254	94	1299	88	1350	80
Jones	216	28	220	25	290	35	262	29	275	28	280	27	272	25
Keokuk	147	19	137	8	157	12	185	15	185	10	166	7	199	8
Kossuth	249	17	265	19	262	21	295	16	350	20	344	13	332	15
Lee	544	128	526	105	589	112	582	97	596	108	623	92	663	98
Linn	2373	392	2345	441	2450	366	2499	356	2479	350	2642	338	2567	329
Louisa	167	28	144	14	145	14	161	16	172	14	178	17	201	19
Lucas	101	10	113	22	110	18	132	18	115	15	164	24	135	9
Lyon	176	9	160	11	183	6	194	6	207	2	214	9	238	9
Madison	138	14	140	15	164	13	154	14	150	15	158	7	155	10
Mahaska	296	54	326	43	318	35	325	36	339	29	342	26	331	30
Marion	405	37	368	28	439	39	403	35	434	39	463	36	439	42
Marshall	455	71	520	70	555	74	588	55	622	69	617	58	654	55
Mills	173	27	171	22	167	27	192	20	173	16	174	20	212	24
Mitchell	133	7	147	10	148	6	149	9	173	13	154	14	171	11
Monona	110	21	129	20	105	9	140	14	176	15	157	14	161	14
Monroe	107	18	104	17	109	14	122	16	120	9	111	10	135	10
Montgomery	153	12	136	11	152	17	179	18	189	16	183	12	187	10
Muscatine	560	99	635	113	632	101	635	103	709	82	754	112	732	92
O'Brien	184	11	206	8	213	18	235	15	263	16	274	11	287	15
Osceola	87	7	88	3	107	3	105	3	131	10	124	4	127	5
Page	189	27	183	27	235	34	204	27	226	27	237	21	266	20
Palo Alto	122	8	134	14	181	10	162	16	215	15	184	14	214	13
Plymouth	353	35	376	32	334	15	409	27	415	18	392	23	455	25
Pocahontas	109	7	121	7	167	3	150	13	160	13	150	5	149	7
Polk	4987	1085	4956	989	5087	923	4909	833	4974	869	4969	797	5093	829
Pottawattamie	1252	301	1328	282	1334	253	1379	254	1426	259	1411	231	1469	261
Poweshiek	187	25	223	26	220	15	220	17	244	29	254	21	261	18
Ringgold	60	5	45	3	78	10	84	7	71	2	107	8	80	3
Sac	149	13	153	13	177	13	182	13	175	13	183	7	235	16
Scott	2292	575	2545	640	2543	531	2647	515	2641	491	2751	465	2824	484
Shelby	172	9	160	13	171	7	237	8	211	13	240	22	189	10
Sioux	457	26	494	14	511	18	519	11	574	17	560	11	584	8
Story	933	73	944	64	1035	59	1039	46	1075	50	1010	54	1054	50
Tama	233	37	227	41	250	42	260	39	269	22	285	31	259	25
Taylor	86	10	71	5	91	7	102	5	102	6	133	8	119	5
Union	152	30	167	27	150	38	165	20	190	21	192	28	226	26
Van Buren	103	10	94	8	107	16	111	7	111	10	117	7	136	6
Wapello	446	94	467	79	468	80	534	91	480	79	564	77	547	64
Warren	487	34	466	42	506	38	489	40	485	42	495	46	514	42
Washington	298	32	273	35	269	25	307	28	282	23	290	19	293	22
Wayne	75	6	75	10	96	3	94	10	84	6	93	7	105	10
Webster	595	106	574	119	631	120	631	129	671	114	733	111	675	102
Winnebago	152	14	171	13	162	7	170	9	172	14	178	15	162	13
Winneshiek	269	12	288	20	287	16	321	21	321	28	309	15	300	17
Woodbury	1542	409	1457	334	1652	341	1601	359	1645	318	1691	310	1809	310
Worth	98	12	103	17	117	10	115	11	110	6	130	15	129	7
Wright	177	18	171	19	196	18	203	23	206	19	208	20	220	21
State of Iowa	37866	6142	38748	5811	41182	5585	42360	5315	43247	5168	44716	5062	45918	4938

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1981-1994.

County	1994		1993		1992		1991		1990		1989		1988	
	Teen Out of Teen Wedlock Births	Births	Teen Out of Teen Wedlock Births	Births	Teen Out of Teen Wedlock Births	Births	Teen Out of Teen Wedlock Births	Births	Teen Out of Teen Wedlock Births	Births	Teen Out of Teen Wedlock Births	Births	Teen Out of Teen Wedlock Births	Births
Adair	6	5	7	3	8	5	4	2	12	8	6	6	6	5
Adams	7	3	6	2	2	1	3	3	3	3	8	6	2	0
Allamakee	17	12	16	14	13	7	9	6	17	10	27	18	13	10
Appanoose	28	20	28	20	30	15	28	17	29	13	25	17	20	14
Audubon	8	6	2	1	2	1	5	4	6	2	7	2	9	0
Benton	29	23	26	20	23	19	26	18	23	19	22	15	14	10
Black Hawk	264	235	259	226	259	228	257	219	246	198	226	181	183	149
Boone	32	24	23	16	30	20	32	22	26	21	32	23	35	21
Bremer	18	12	14	8	8	5	19	15	15	9	14	10	14	6
Buchanan	34	25	35	24	18	13	21	15	27	17	26	18	24	18
Buena Vista	21	18	29	23	18	14	27	18	30	18	15	6	29	23
Butler	10	9	16	13	15	11	13	7	15	9	13	10	13	5
Calhoun	7	6	6	6	9	7	5	4	4	3	8	7	6	3
Carroll	23	21	22	20	20	18	26	20	15	10	19	17	10	7
Cass	15	11	18	12	20	11	22	11	23	9	16	12	13	8
Cedar	14	11	20	16	17	13	11	9	25	15	19	12	10	7
Cerro Gordo	76	62	65	55	71	59	71	53	76	55	77	54	62	49
Cherokee	6	6	11	9	16	12	15	11	27	18	10	5	12	8
Chickasaw	9	7	7	5	6	6	12	6	15	8	13	7	10	7
Clarke	6	4	12	7	17	11	10	8	12	6	13	5	21	8
Clay	22	19	16	14	11	8	14	10	16	9	16	11	20	12
Clayton	17	15	15	12	16	13	18	12	23	15	23	15	14	10
Clinton	81	68	83	73	80	70	79	59	82	59	76	53	71	47
Crawford	16	14	25	19	18	18	21	12	27	21	15	10	18	12
Dallas	38	30	45	32	30	24	36	26	37	25	49	30	31	19
Davis	9	2	5	3	9	6	6	5	10	4	9	4	9	2
Decatur	24	10	13	6	20	10	12	7	13	4	7	4	13	5
Delaware	21	18	22	17	17	16	20	15	14	10	20	12	18	10
Des Moines	66	51	86	65	79	60	87	66	76	53	75	54	65	39
Dickinson	9	6	5	3	16	13	12	6	17	13	12	5	9	5
Dubuque	94	85	111	93	92	82	100	80	93	67	106	86	88	58
Emmet	12	6	26	17	15	13	19	7	16	11	14	11	11	8
Fayette	42	26	21	11	32	17	28	19	23	17	31	18	16	8
Floyd	24	19	25	18	19	12	25	18	28	19	25	17	22	13
Franklin	18	15	10	5	12	9	15	11	10	7	11	8	11	7
Fremont	7	4	13	10	15	12	16	12	11	10	18	14	16	9
Greene	19	17	16	10	8	6	17	9	9	5	15	10	12	9
Grundy	6	6	9	5	6	4	9	7	5	5	12	8	5	3
Guthrie	11	6	11	9	20	14	14	10	8	5	15	8	7	3
Hamilton	24	16	22	17	21	16	28	20	19	10	22	13	18	7
Hancock	9	8	12	10	6	5	15	10	12	7	10	9	12	8
Hardin	31	27	26	23	19	16	21	12	17	11	17	12	16	14
Harrison	13	12	19	15	14	10	21	10	22	9	18	8	13	6
Henry	32	23	30	23	28	19	25	20	30	19	28	16	31	15
Howard	11	8	10	9	7	4	8	7	6	2	8	5	9	5
Humboldt	8	2	13	8	7	4	13	7	10	5	4	1	11	8
Ida	12	8	10	6	4	4	5	4	9	5	12	6	2	1
Iowa	8	6	11	9	14	10	16	10	12	8	18	12	9	3
Jackson	27	22	31	25	18	17	19	16	30	23	24	16	23	15
Jasper	46	32	35	31	46	32	46	31	38	25	43	25	42	19

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1981-1994 (continued).

County	1994		1993		1992		1991		1990		1989		1988	
	Teen Out of Teen Wedlock Births	Teen Wedlock Births	Teen Out of Teen Wedlock Births	Teen Wedlock Births	Teen Out of Teen Wedlock Births	Teen Wedlock Births	Teen Out of Teen Wedlock Births	Teen Wedlock Births	Teen Out of Teen Wedlock Births	Teen Wedlock Births	Teen Out of Teen Wedlock Births	Teen Wedlock Births	Teen Out of Teen Wedlock Births	Teen Wedlock Births
Jefferson	10	7	21	12	14	9	14	9	16	8	18	14	13	12
Johnson	59	47	49	37	39	32	51	42	60	45	59	44	42	32
Jones	28	25	21	18	15	13	12	6	20	15	18	10	21	16
Keokuk	11	8	15	9	12	5	20	11	18	7	12	4	20	6
Kossuth	7	5	13	9	16	12	12	8	25	19	19	11	18	8
Lee	67	52	83	62	74	58	62	41	57	37	77	57	60	42
Linn	273	227	242	202	241	210	269	219	246	191	256	188	232	189
Louisa	18	12	19	16	21	14	20	16	16	9	18	8	17	12
Lucas	10	7	14	9	5	2	12	7	16	6	10	3	13	8
Lyon	12	8	6	4	14	6	5	0	8	2	12	5	11	3
Madison	14	10	13	9	15	7	12	5	12	4	18	9	16	6
Mahaska	34	20	27	17	33	22	35	20	29	13	37	17	37	19
Marion	44	33	51	37	33	23	32	17	33	22	35	19	33	20
Marshall	73	57	61	44	53	40	51	42	38	30	52	35	45	34
Mills	30	22	19	15	16	12	18	12	11	4	19	10	22	17
Mitchell	8	7	10	8	12	8	13	7	15	10	11	8	6	5
Monona	14	8	8	4	23	17	24	14	12	6	12	8	8	4
Monroe	14	10	15	7	15	12	15	11	16	11	8	6	11	3
Montgomery	24	15	16	10	20	10	20	11	13	9	21	12	18	13
Muscatine	95	74	83	62	83	56	85	55	89	51	84	50	82	42
O'Brien	20	10	28	23	26	14	11	7	17	10	14	6	11	8
Osceola	8	5	3	3	8	5	7	7	9	6	8	5	7	4
Page	20	17	20	15	25	22	27	16	26	17	38	22	18	10
Palo Alto	9	6	12	8	8	6	16	13	14	8	13	7	8	5
Plymouth	23	22	29	22	22	14	29	19	27	17	31	21	15	8
Pocahontas	10	7	8	8	5	4	6	3	8	5	4	3	4	3
Polk	530	453	596	510	589	498	608	502	577	462	634	481	570	430
Pottawattamie	178	142	167	129	168	128	184	140	191	128	152	106	162	115
Poweshiek	23	20	14	12	20	18	24	17	27	19	19	10	10	5
Ringgold	2	1	7	4	7	4	4	2	1	0	3	1	3	1
Sac	14	12	14	13	10	8	10	9	10	7	13	9	6	4
Scott	334	289	344	305	352	305	363	308	343	280	327	273	288	234
Shelby	18	16	13	9	9	7	6	3	9	7	12	6	9	7
Sioux	31	13	39	25	26	16	27	18	23	11	21	10	31	13
Story	36	25	44	33	41	27	42	25	48	21	35	17	44	20
Tama	27	17	22	17	26	21	28	25	21	13	26	22	14	11
Taylor	10	6	7	5	5	3	9	4	11	5	8	2	6	2
Union	16	12	17	9	13	9	21	12	14	7	19	10	10	5
Van Buren	6	5	9	7	11	10	9	4	13	9	6	1	9	3
Wapello	65	47	73	50	57	35	59	27	75	48	66	34	46	22
Warren	37	27	45	33	55	44	50	32	49	36	41	26	50	30
Washington	27	23	21	15	18	12	20	12	24	20	32	17	20	11
Wayne	8	4	8	6	10	6	11	4	9	6	7	3	16	6
Webster	64	52	65	51	68	50	66	52	63	45	78	58	70	50
Winnebago	12	8	12	9	18	16	7	3	11	10	23	14	11	8
Winneshiek	15	12	9	5	15	13	13	8	14	11	9	8	10	5
Woodbury	242	192	232	195	246	181	234	186	234	186	203	148	199	163
Worth	7	5	10	8	9	6	8	7	10	7	9	5	10	7
Wright	17	14	14	11	13	7	19	12	16	13	21	11	10	9
State of Iowa	4041	3217	4066	3229	3935	3077	4081	3036	4013	2847	4017	2786	3540	2428

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1981-1994 (continued).

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

Table 2. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1981-1994 (continued).

County	1987		1986		1985		1984		1983		1982		1981	
	Teen Wedlock Births	Teen Out of Wedlock Births	Teen Wedlock Births	Teen Out of Wedlock Births	Teen Wedlock Births	Teen Out of Wedlock Births	Teen Wedlock Births	Teen Out of Wedlock Births	Teen Wedlock Births	Teen Out of Wedlock Births	Teen Wedlock Births	Teen Out of Wedlock Births	Teen Wedlock Births	Teen Out of Wedlock Births
Jefferson	5	3	11	4	12	5	14	7	19	3	26	11	18	3
Johnson	53	41	41	20	54	29	50	22	44	22	55	20	59	23
Jones	9	9	13	6	12	5	30	12	30	10	30	12	23	5
Keokuk	13	8	9	3	9	1	15	4	22	6	21	3	21	4
Kossuth	18	8	16	8	18	13	21	9	22	8	27	6	29	10
Lee	68	49	76	45	85	46	81	39	93	47	72	29	93	45
Linn	242	153	228	163	215	125	219	135	233	141	252	138	267	150
Louisa	22	13	12	5	14	4	19	7	20	6	24	8	27	11
Lucas	14	4	17	7	15	7	19	7	16	4	26	11	19	5
Lyon	9	3	13	5	17	3	11	4	6	0	14	3	18	5
Madison	11	3	15	5	16	9	12	4	15	5	20	4	13	3
Mahaska	25	16	35	20	37	17	25	9	34	14	36	12	39	16
Marion	34	14	26	10	45	17	45	17	43	15	46	16	66	21
Marshall	37	21	43	25	44	22	42	21	66	27	51	26	61	23
Mills	11	9	12	7	19	9	22	6	17	5	17	7	31	12
Mitchell	7	4	6	4	10	3	16	7	20	7	14	8	21	7
Monona	11	6	13	7	8	2	19	7	14	7	17	8	25	7
Monroe	13	8	11	7	11	3	13	5	11	3	14	1	15	5
Montgomery	7	3	12	7	10	6	16	7	19	6	21	6	20	3
Muscatine	72	31	81	42	73	38	92	43	104	32	116	45	132	44
O'Brien	12	6	13	5	9	4	17	4	15	4	34	4	38	7
Osceola	4	2	2	1	4	1	8	2	10	3	7	1	12	2
Page	18	10	20	6	30	13	27	10	30	10	26	11	34	10
Palo Alto	3	1	8	6	7	2	11	4	24	8	15	4	26	8
Plymouth	21	14	32	21	17	8	27	12	19	4	29	8	46	13
Pocahontas	5	3	7	4	5	1	10	4	12	8	7	2	14	5
Polk	561	388	483	317	531	331	491	292	545	335	579	313	658	353
Pottawattamie	150	102	171	111	162	99	188	111	204	103	207	109	266	135
Poweshiek	13	3	22	9	12	5	16	5	29	14	35	8	25	6
Ringgold	4	2	3	1	5	3	8	1	7	1	11	2	10	1
Sac	14	5	10	4	13	4	14	5	11	4	11	3	24	9
Scott	262	212	349	258	302	207	314	212	299	196	327	210	365	222
Shelby	10	5	8	6	5	2	15	6	19	6	22	8	23	6
Sioux	34	17	26	7	27	7	31	7	28	7	43	8	42	4
Story	37	18	46	22	50	18	41	16	56	16	70	21	63	18
Tama	21	13	21	16	29	21	33	19	21	11	32	16	30	13
Taylor	9	4	8	1	4	1	11	1	10	2	15	2	18	4
Union	13	8	11	7	11	8	11	7	22	11	21	10	32	9
Van Buren	8	2	9	3	7	2	11	2	14	4	13	3	14	2
Wapello	62	37	79	35	70	33	72	35	65	28	88	34	84	27
Warren	33	9	33	11	53	19	32	14	39	13	56	22	70	23
Washington	25	14	24	14	21	8	30	10	21	8	20	8	31	8
Wayne	7	2	11	3	10	2	11	2	10	4	13	5	17	6
Webster	70	49	67	47	77	45	79	55	86	51	91	51	91	47
Winnebago	10	5	11	9	14	2	18	5	15	5	18	6	17	7
Winneshiek	14	5	15	7	20	7	16	10	29	9	19	4	26	5
Woodbury	202	156	166	110	210	131	194	131	212	130	231	123	245	131
Worth	5	5	6	4	6	2	5	2	5	2	8	4	12	1
Wright	14	8	7	7	26	9	19	7	24	9	25	10	25	10
State of Iowa	3507	2237	3567	2135	3835	2091	3993	2048	4284	2091	4767	2131	5339	2260

Table 3. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa Counties, 1984 and 1994.

County	1994 Births Minus 1984 Births		% of Births Out of Wedlock		1994 Teen Births Minus 1984 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	1994	1984	Total	Out of Wedlock	1994	1984	1994	1984	1994	1984
Adair	-21	5	9.7	3.5	-3	4	83.3	11.1	6.5	7.9	55.6	25.0
Adams	-9	6	20.3	9.6	1	0	42.9	50.0	10.9	8.2	23.1	42.9
Allamakee	-61	11	20.3	9.6	-4	5	70.6	33.3	10.8	9.6	37.5	33.3
Appanoose	-45	31	34.2	10.7	9	12	71.4	42.1	18.4	9.6	38.5	38.1
Audubon	-47	8	18.2	5.9	-8	2	75.0	25.0	9.1	11.9	37.5	50.0
Benton	-36	41	21.9	7.0	-4	10	79.3	39.4	9.9	10.1	35.9	56.5
Black Hawk	-488	152	36.1	20.4	14	63	89.0	68.8	16.4	11.9	40.5	40.2
Boone	-20	31	19.5	9.0	10	14	75.0	45.5	10.2	6.6	39.3	33.3
Bremer	-63	19	15.2	5.9	-4	3	66.7	40.9	7.4	7.2	32.4	50.0
Buchanan	-67	24	22.0	11.8	-4	10	73.5	39.5	10.8	10.0	36.2	33.3
Buena Vista	-47	44	27.2	7.6	0	13	85.7	23.8	8.6	7.2	27.3	22.7
Butler	-79	14	16.0	5.0	-6	5	90.0	25.0	6.1	6.6	34.6	33.3
Calhoun	-34	17	19.8	2.9	4	5	85.7	33.3	6.6	2.1	28.6	25.0
Carroll	-115	33	19.0	4.7	7	17	91.3	25.0	8.6	4.2	41.2	22.2
Cass	-105	14	24.0	8.6	-14	4	73.3	24.1	10.0	11.4	30.6	31.8
Cedar	-60	10	19.7	11.1	-15	0	78.6	37.9	7.3	11.5	28.9	39.3
Cerro Gordo	-92	75	27.1	12.4	22	31	81.6	57.4	12.9	8.0	39.0	36.9
Cherokee	-50	8	19.7	11.1	-14	-5	100.0	55.0	3.8	9.7	19.4	47.8
Chickasaw	-55	13	17.2	7.1	-5	1	77.8	42.9	5.3	6.3	24.1	37.5
Clarke	-22	17	32.9	9.6	-6	0	66.7	33.3	7.3	11.5	14.8	40.0
Clay	-41	25	25.1	11.5	5	10	86.4	52.9	10.0	6.5	34.5	30.0
Clayton	-75	22	18.8	6.0	-12	6	88.2	31.0	8.2	10.3	38.5	52.9
Clinton	-143	108	32.1	12.6	-8	19	84.0	55.1	12.6	11.3	32.9	49.5
Crawford	-80	14	22.2	9.8	-8	5	87.5	37.5	9.1	9.4	35.9	36.0
Dallas	-14	28	16.1	9.5	6	15	78.9	46.9	8.6	7.0	42.3	34.9
Davis	-1	0	8.7	8.6	2	-1	22.2	42.9	7.1	5.5	18.2	27.3
Decatur	1	13	17.7	6.3	13	9	41.7	9.1	21.2	9.8	50.0	14.3
Delaware	-43	29	15.3	3.9	9	13	85.7	41.7	7.8	3.9	43.9	41.7
Des Moines	-126	45	28.6	16.2	-5	15	77.3	50.7	12.6	10.9	34.0	34.3
Dickinson	-47	17	18.2	5.1	-5	5	66.7	7.1	6.1	7.2	22.2	10.0
Dubuque	-186	96	22.6	12.5	-22	7	90.4	67.2	8.0	8.5	32.0	45.9
Emmet	-51	7	20.2	9.4	-1	-2	50.0	61.5	11.0	8.1	27.3	53.3
Fayette	-55	33	21.5	9.0	8	13	61.9	38.2	13.9	9.5	40.0	40.6
Floyd	-55	4	21.0	14.5	-5	5	79.2	48.3	12.9	12.0	48.7	40.0
Franklin	-60	19	24.8	7.3	0	9	83.3	33.3	13.5	9.3	45.5	42.9
Fremont	-38	12	30.4	10.3	-5	2	57.1	16.7	8.9	10.3	16.7	16.7
Greene	-64	14	26.9	8.7	6	12	89.5	38.5	17.6	7.6	58.6	33.3
Grundy	-59	6	15.3	6.5	-2	5	100.0	12.5	5.4	4.7	35.3	9.1
Guthrie	-30	15	16.7	3.8	-1	4	54.5	16.7	8.7	7.7	28.6	33.3
Hamilton	-51	15	18.7	9.1	-2	6	66.7	38.5	11.8	10.2	42.1	43.5
Hancock	-87	9	16.0	5.2	-4	3	88.9	38.5	7.2	6.1	40.0	45.5
Hardin	-65	19	19.7	8.5	11	19	87.1	40.0	14.2	7.1	62.8	33.3
Harrison	-42	12	20.6	11.1	-12	1	92.3	44.0	7.4	11.5	33.3	45.8
Henry	-25	37	23.4	7.2	10	17	71.9	27.3	13.4	8.3	41.1	31.6
Howard	-65	6	20.8	8.7	1	4	72.7	40.0	11.5	6.2	40.0	28.6
Humboldt	-68	1	13.6	8.1	-8	-4	25.0	37.5	6.8	8.6	12.5	40.0
Ida	-62	4	17.4	7.4	0	2	66.7	50.0	14.0	8.1	53.3	54.5
Iowa	-4	18	14.2	5.6	-8	-1	75.0	43.8	3.8	7.4	20.0	58.3
Jackson	-84	44	29.5	8.3	-4	11	81.5	35.5	11.2	9.5	31.0	40.7
Jasper	-23	45	20.3	9.5	-4	13	69.6	38.0	10.5	10.8	36.0	43.2

Table 3. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa Counties, 1984 and 1994 (continued).

County	1994 Births Minus 1984 Births		% of Births Out of Wedlock		1994 Teen Births Minus 1984 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	1994	1984	Total	Out of Wedlock	1994	1984	1994	1984	1994	1984
Jefferson	-52	14	19.2	8.5	-4	0	70.0	50.0	5.8	6.3	21.2	36.8
Johnson	-18	73	12.6	6.8	9	25	79.7	44.0	4.6	3.8	29.0	24.7
Jones	-9	32	24.1	11.1	-2	13	89.3	40.0	11.1	11.5	41.0	41.4
Keokuk	-56	8	17.8	8.1	-4	4	72.7	26.7	8.5	8.1	34.8	26.7
Kossuth	-99	9	12.8	5.4	-14	-4	71.4	42.9	3.6	7.1	20.0	56.3
Lee	-147	42	32.0	16.7	-14	13	77.6	48.1	15.4	13.9	37.4	40.2
Linn	51	296	25.6	14.2	54	92	83.2	61.6	10.7	8.8	34.8	37.9
Louisa	0	30	28.6	9.9	-1	5	66.7	36.8	11.2	11.8	26.1	43.8
Lucas	-3	15	25.6	13.6	-9	0	70.0	36.8	7.8	14.4	21.2	38.9
Lyon	-29	10	9.7	3.1	1	4	66.7	36.4	7.3	5.7	50.0	66.7
Madison	6	10	15.0	9.1	2	6	71.4	33.3	8.8	7.8	41.7	28.6
Mahaska	-53	30	24.3	11.1	9	11	58.8	36.0	12.5	7.7	30.3	25.0
Marion	16	36	16.9	8.7	-1	16	75.0	37.8	10.5	11.2	46.5	48.6
Marshall	-65	95	28.7	9.4	31	36	78.1	50.0	14.0	7.1	38.0	38.2
Mills	-9	34	29.5	10.4	8	16	73.3	27.3	16.4	11.5	40.7	30.0
Mitchell	-7	10	13.4	6.0	-8	0	87.5	43.8	5.6	10.7	36.8	77.8
Monona	-16	16	24.2	10.0	-5	1	57.1	36.8	11.3	13.6	26.7	50.0
Monroe	-35	5	24.1	13.1	1	5	71.4	38.5	16.1	10.7	47.6	31.3
Montgomery	-19	32	31.3	10.1	8	8	62.5	43.8	15.0	8.9	30.0	38.9
Muscatine	-9	93	31.3	16.2	3	31	77.9	46.7	15.2	14.5	37.8	41.7
O'Brien	-61	12	15.5	6.4	3	6	50.0	23.5	11.5	7.2	37.0	26.7
Osceola	-35	8	15.7	2.9	0	3	62.5	25.0	11.4	7.6	45.5	66.7
Page	-23	32	32.6	13.2	-7	7	85.0	37.0	11.0	13.2	28.8	37.0
Palo Alto	-55	-4	11.2	9.9	-2	2	66.7	36.4	8.4	6.8	50.0	25.0
Plymouth	-98	23	16.1	6.6	-4	10	95.7	44.4	7.4	6.6	44.0	44.4
Pocahontas	-66	2	17.9	8.7	0	3	70.0	40.0	11.9	6.7	46.7	30.8
Polk	549	613	26.5	17.0	39	161	85.5	59.5	9.7	10.0	31.3	35.1
Pottawattamie	-223	145	34.5	18.4	-10	31	79.8	59.0	15.4	13.6	35.6	43.7
Poweshiek	-9	38	26.1	7.7	7	15	87.0	31.3	10.9	7.3	36.4	29.4
Ringgold	-54	0	23.3	8.3	-6	0	50.0	12.5	6.7	9.5	14.3	14.3
Sac	-56	17	23.8	7.1	0	7	85.7	35.7	11.1	7.7	40.0	38.5
Scott	-404	294	36.1	19.5	20	77	86.5	67.5	14.9	11.9	35.7	41.2
Shelby	-91	19	18.5	3.4	3	10	88.9	40.0	12.3	6.3	59.3	75.0
Sioux	-139	26	9.7	2.1	0	6	41.9	22.6	8.2	6.0	35.1	63.6
Story	-195	46	10.9	4.4	-5	9	69.4	39.0	4.3	3.9	27.2	34.8
Tama	-24	22	25.8	15.0	-6	-2	63.0	57.6	11.4	12.7	27.9	48.7
Taylor	-24	7	15.4	4.9	-1	5	60.0	9.1	12.8	10.8	50.0	20.0
Union	-46	13	27.7	12.1	5	5	75.0	63.6	13.4	6.7	36.4	35.0
Van Buren	-7	17	23.1	6.3	-5	3	83.3	18.2	5.8	9.9	20.8	28.6
Wapello	-106	39	30.4	17.0	-7	12	72.3	48.6	15.2	13.5	36.2	38.5
Warren	-40	44	18.7	8.2	5	13	73.0	43.8	8.2	6.5	32.1	35.0
Washington	-28	27	19.7	9.1	-3	13	85.2	33.3	9.7	9.8	41.8	35.7
Wayne	-16	3	16.7	10.6	-3	2	50.0	18.2	10.3	11.7	30.8	20.0
Webster	-106	40	32.2	20.4	-15	-3	81.3	69.6	12.2	12.5	30.8	42.6
Winnebago	-35	16	18.5	5.3	-6	3	66.7	27.8	8.9	10.6	32.0	55.6
Winneshiek	-79	6	11.2	6.5	-1	2	80.0	62.5	6.2	5.0	44.4	47.6
Woodbury	50	181	32.7	22.4	48	61	79.3	67.5	14.7	12.1	35.6	36.5
Worth	-24	4	16.5	9.6	2	3	71.4	40.0	7.7	4.3	33.3	18.2
Wright	-46	13	22.9	11.3	-2	7	82.4	36.8	10.8	9.4	38.9	30.4
State of Iowa	-5303	3883	24.8	12.5	48	1169	79.6	51.3	10.9	9.4	35.0	38.5



percent in 1984 to 24.8 percent in 1994 (Table 3, Figure 1). In 1994, the percentage of out-of-wedlock births in the counties ranged from 8.7 percent in Davis to 36.1 percent in Black Hawk and Scott. Three additional counties (Adair, Lyon, Sioux) were under 10 percent, and 43 counties ranged from 10.0 percent through 19.9 percent. In Black Hawk, Scott, and 27 other counties, at least one of every four (25%) of the 1994 births occurred out of wedlock (Figure 2).

For Iowa, the percentage of births out of wedlock increased each year from 1982 to 1994. The counties were more variable; all had at least one year in which the percentage of out-of-wedlock births declined. Seventy counties had percentages 10 or more points higher in 1994 than in 1984.

### **Births to Teens**

Births to Iowa teens, which includes mothers 19 and younger, numbered 4,041 in 1994 (Table 2). The 1994 figure was 25 lower than in 1993; increases occurred from 1987 through 1989 following continuous decreases from 1981 to 1987. Teen births in 1994 were slightly higher than the number recorded in 1984 (3,993). For counties, births to teens in 1994 ranged from 2 in Ringgold to 530 in Polk. Fifty-two counties had fewer than 20 births to teens. In each of the 14 years, Polk had the highest number of teen births, with Scott the second highest. From 1981 through 1994, the county with the lowest number of births to teens recorded six or fewer.

Fifty-six counties had fewer teen births in 1994 than in 1984 (Table 3); of the remaining 43, seven had the same numbers both years while 25 counties increased by less than 10 births to teens. Eleven increased by at least 10, although Linn was the only county with at least 50 more teen births in 1994 than in 1984. Counties with a decrease in teen births of at least 15 were Cedar, Dubuque, and Webster. The decline of 22 in Dubuque was the largest. Forty-seven counties reported decreases of 10 or fewer.

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

Teen births out of wedlock numbered 3,217 in the state in 1994. Teen out-of-wedlock births declined each year from 1981 to 1984, then increased annually from 1984 to 1993, and decreased by 12 between 1993 and 1994 (Table 2).

In 1984, 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 41.5 percent of all teen births but 51.4 percent of the out-of-wedlock teen births. This changed by 1994; in that year, these six urban counties had 45.1 percent of all births to teens and 47.8 percent of the out-of-wedlock teen births. These 1994 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 1984 and 1994, all the counties experienced years when the number of teen out-of-wedlock births increased and other years when the number decreased. Differences between 1984 and 1994 ranged from a decline of 5 to a gain of 161 (Table 3). Eight counties had fewer teen out-of-wedlock births in 1994 than in 1984, seven counties were the same in both years, and 84 counties showed an increase. For 61 of the counties, the change in either direction was less than 10 teen out-of-wedlock births; Polk's increase of 161 was the only one greater than 100.

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 1984 to 1994 in the proportion of teen births in Iowa that were out of wedlock (Table 3, Figure 1). In 1984, 2,048 of 3,993 teen births (51.3%) were out of wedlock. By 1994, 3,217 of 4,041 teen births—nearly four of every five (79.6%)—were out of wedlock.

For the counties in 1994, the percentage of teen births that were out of wedlock ranged from less than 50 percent in five counties to 75 percent or more in 53 others (Figure 3). In 1984, the highest percentage for any county was 69.6 percent (Webster) and in only 16 others were more than half of the births to teens out of wedlock. In 1994, 94 counties had half or more of their teen births out of wedlock. Four counties (Adams, Davis, Emmet, Humboldt) had a lower percentage of teen births out of wedlock in 1994 than in 1984.

### Births to Teens Compared with Total Births

The proportion of the total births that were to teens in 1984 (9.4%) increased slightly to 10.9 percent in 1994 (Table 3). In 1994, the percentages of the total births that were to teens ranged from 3.6 in Kossuth to 21.2 in Decatur, the only county greater than 19 percent. Although there were year-to-year variations for all the counties, teen births, as a percentage of all births, were lower in 1994 than in 1984 for 35 counties.

Teens tended to have a much higher percentage of their births out of wedlock than the population overall. In most counties for both 1984 and 1994, 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 1981 and 1987 although they generally increased from 1987 to 1993. From 1984 to 1994, teen out-of-wedlock births increased 57.1 percent. In comparison, the total number of out-of-wedlock births increased somewhat faster (73.1%) in the same years. Consequently, teen out-of-wedlock births, which were 38.5 percent of all out-of-wedlock births in 1984, were down to 35.0 percent of all out-of-wedlock births in 1994 (Table 3).

For the counties in 1994, teen out-of-wedlock births, as a proportion of all out-of-wedlock births, ranged from less than 25 percent in 14 counties to 50 percent or more in nine others. Fifty-seven counties had a lower proportion of all out-of-wedlock births to teens in 1994 than in 1984 while 40 counties increased. Fremont and Ringgold had the same percentages both years.

Figure 1. Percent of births out of wedlock in Iowa, 1980-1994.

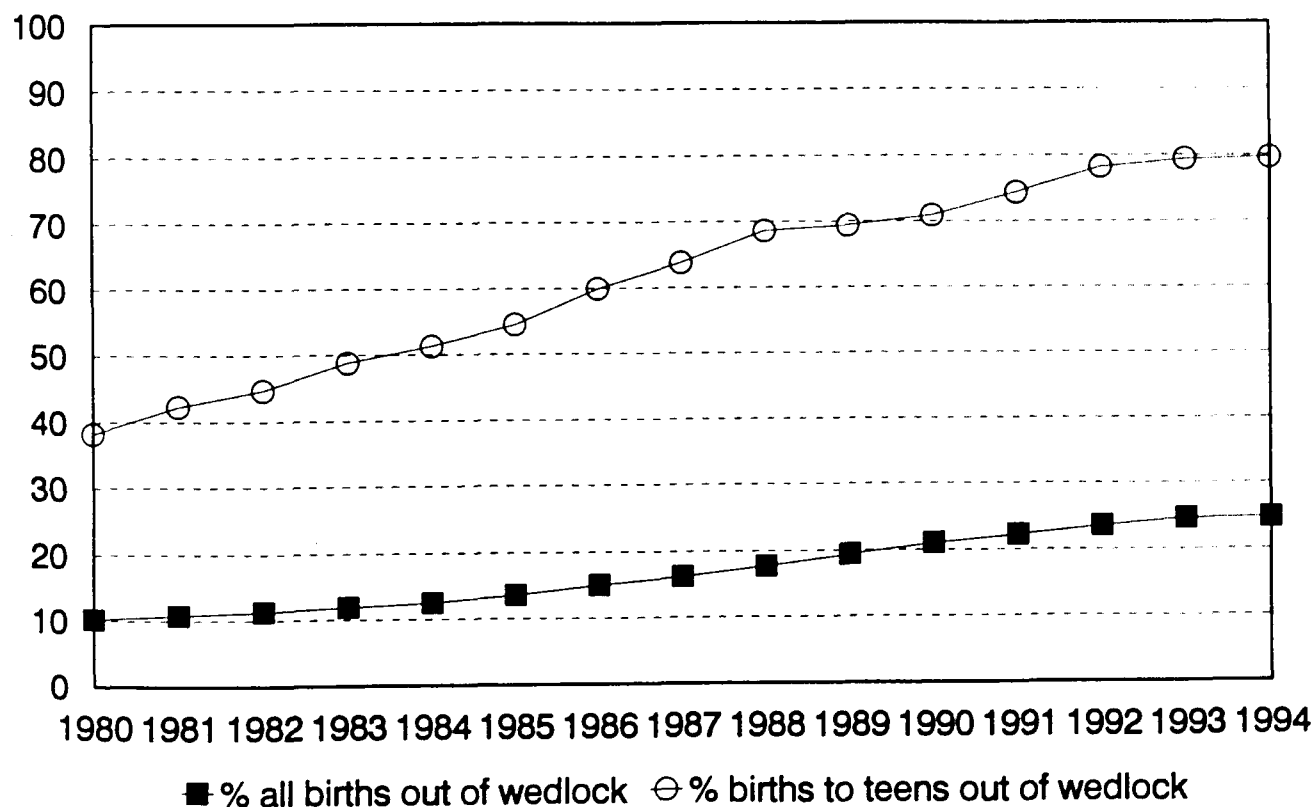


Figure 2. Percent of births out of wedlock, 1994.

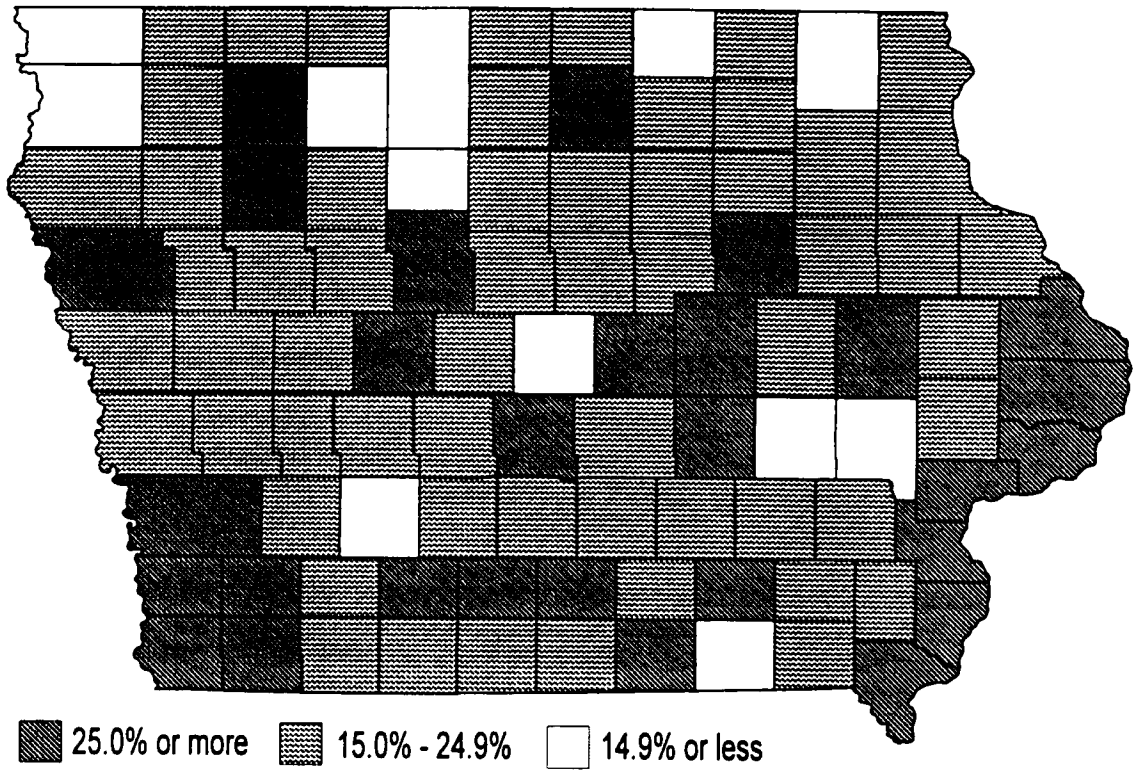
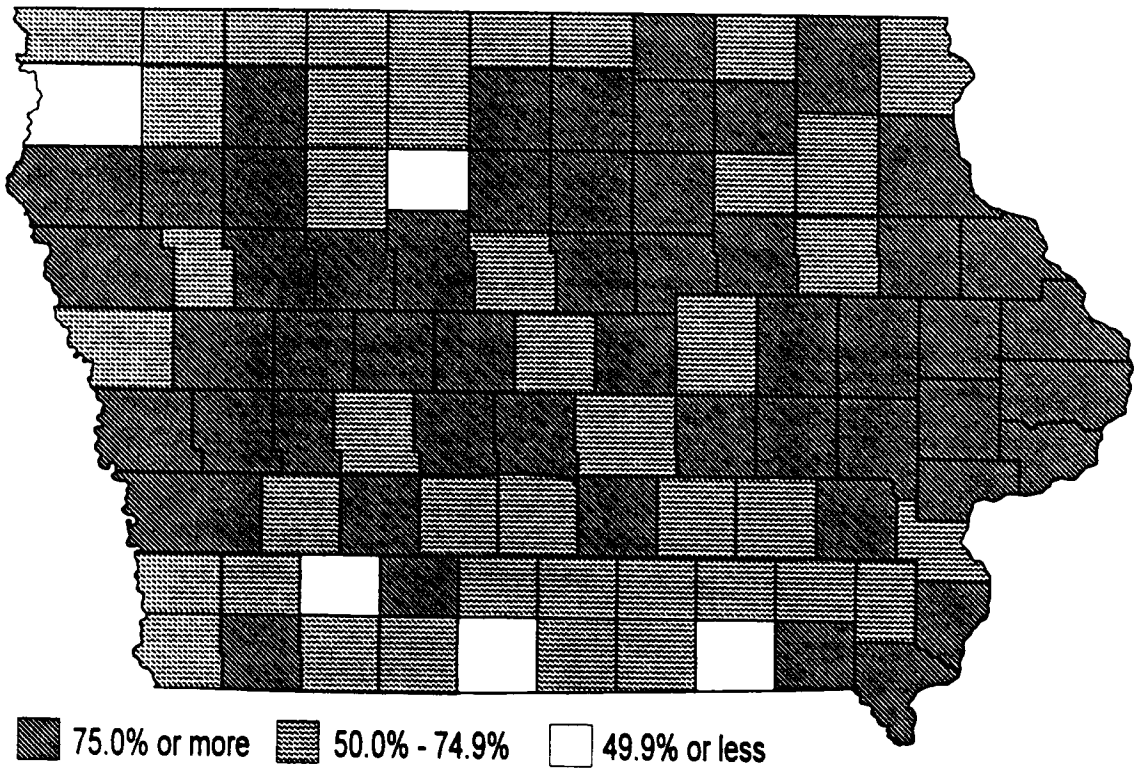


Figure 3. Percent of births to teenage women out of wedlock, 1994.



## Infant Mortality in Iowa's Counties: 1980-1994

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In 1994, 273 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. Only 1993 (261) had a lower number during the 1980-1994 period (Figure 1). The 1994 number was only 48.3 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, 1986 to 1987, and 1993 to 1994. 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 5,415 infants died during the 15 years from 1980 through 1994. Polk (828) had the highest number during this period. Nine others (Black Hawk, Dubuque, Johnson, Linn, Muscatine, Pottawattamie, Scott, Story, Woodbury) each reported at least 100 infant deaths. These 10 counties accounted for more than half (2,882, 53.2%) of the deaths to infants from 1980 through 1994. Seventeen counties had 14 or fewer infant deaths during these 15 years, or an average of less than one per year. Three-fifths (61) of the 99 counties counted more than 14 but fewer 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 15-year period, the infant mortality rate was 8.9 (or 8.9 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 7.4 reported for 1994 (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 1994.

A third (33) of Iowa's 99 counties had infant mortality rates equaling or exceeding the state figure of 8.9 for the 1980-1994 period. Twelve counties reported rates of 10.0 or higher (Figure 3). Four (Emmet, Taylor, 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-six 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.

Forty-one counties matched the state's pattern of declining mortality rates across the three subperiods (1980-1984, 1985-1989, 1990-1994) (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 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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Adair	1	0	1	1	0	0	0	1	0	1	0	0	1	0	1	7
Adams	0	0	1	0	0	1	1	0	1	0	2	1	0	1	0	8
Allamakee	1	3	0	1	0	2	0	1	0	4	0	1	1	2	5	21
Appanoose	2	2	0	3	3	0	1	3	0	1	4	2	0	1	2	24
Audubon	1	0	1	2	1	1	0	2	0	0	3	0	3	2	0	16
Benton	1	4	4	1	0	1	5	1	2	1	2	2	1	5	2	32
Black Hawk	10	22	14	13	17	14	17	15	11	9	18	21	35	26	34	276
Boone	5	1	4	2	0	2	4	3	3	4	4	4	3	5	4	48
Bremer	2	2	1	0	0	2	1	0	5	0	4	0	1	5	4	27
Buchanan	4	1	2	0	1	2	4	3	1	4	4	6	3	6	6	47
Buena Vista	1	0	0	0	0	2	2	4	1	0	3	2	5	2	3	25
Butler	1	1	1	1	1	0	0	2	1	2	2	1	2	4	2	21
Calhoun	0	1	0	1	0	2	0	0	3	2	3	2	0	3	2	19
Carroll	3	2	0	0	2	1	2	3	2	1	3	1	5	1	3	29
Cass	2	0	1	1	1	4	0	1	2	3	4	3	2	3	3	30
Cedar	1	3	0	3	3	2	0	2	2	1	2	2	1	5	3	30
Cerro Gordo	2	6	7	2	6	0	3	4	10	4	11	2	5	6	12	80
Cherokee	0	0	1	0	5	2	2	0	1	1	1	3	2	1	3	22
Chickasaw	0	1	1	1	0	1	0	3	0	3	1	3	2	1	4	21
Clarke	0	0	0	1	0	0	3	0	1	0	2	1	4	2	0	14
Clay	0	0	1	2	0	2	0	7	2	1	3	2	3	3	5	31
Clayton	1	1	2	3	0	3	3	2	1	3	3	2	1	2	5	32
Clinton	5	8	3	3	7	3	3	4	5	8	3	2	8	7	8	77
Crawford	3	1	0	0	1	1	1	1	6	3	1	6	4	7	2	37
Dallas	2	2	2	4	1	5	3	7	5	3	5	5	4	0	3	51
Davis	0	1	0	1	0	0	1	0	1	3	0	0	0	2	1	10
Decatur	3	1	2	0	0	0	1	0	0	0	0	1	0	1	2	11
Delaware	0	1	0	1	2	1	4	4	5	1	1	3	2	8	4	37
Des Moines	3	3	6	2	6	1	7	6	5	9	11	4	6	9	13	91
Dickinson	2	2	4	0	1	2	0	1	2	2	2	1	1	1	3	24
Dubuque	7	2	6	8	16	6	11	7	11	10	10	13	16	10	18	151
Emmet	0	0	1	0	1	2	1	1	3	2	0	4	5	3	7	30
Fayette	1	1	2	3	1	2	4	1	3	2	1	2	4	9	3	39
Floyd	0	1	2	0	0	0	0	1	0	6	5	2	0	2	2	21
Franklin	0	1	1	2	1	1	3	0	1	0	1	0	4	3	3	21
Fremont	1	0	2	0	0	2	0	1	2	1	0	1	1	1	0	12
Greene	0	1	0	1	1	0	2	0	1	0	1	0	2	4	1	14
Grundy	2	0	1	1	1	0	1	1	0	1	1	3	0	3	0	15
Guthrie	2	0	0	2	0	2	0	0	1	1	2	2	2	0	2	16
Hamilton	2	1	3	1	3	3	0	2	2	0	2	0	3	1	4	27
Hancock	3	0	1	0	2	2	0	0	1	1	0	4	2	3	9	28
Hardin	3	0	0	2	2	1	0	2	3	3	4	0	4	1	0	25
Harrison	0	1	0	1	1	0	0	1	2	5	1	1	2	0	3	18
Henry	2	4	0	2	0	3	2	2	1	3	0	2	1	1	9	32
Howard	0	1	0	0	1	0	1	0	2	1	1	2	1	0	3	13
Humboldt	1	0	0	1	2	1	1	4	0	1	4	0	0	0	1	16
Ida	3	2	1	1	0	2	0	1	0	1	1	1	2	0	1	16
Iowa	1	0	0	1	0	5	4	3	2	1	1	4	2	0	4	28
Jackson	1	2	3	2	1	4	5	1	3	4	2	1	2	4	5	40
Jasper	4	5	3	4	0	3	3	5	5	6	5	3	4	3	4	57

Table 1. Infant Mortality in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Jefferson	0	3	3	2	3	1	0	0	0	1	5	0	1	3	1	23
Johnson	13	3	11	12	13	14	11	9	7	15	10	16	17	13	17	181
Jones	0	1	0	0	4	0	1	3	2	2	1	0	2	2	2	20
Keokuk	1	0	1	2	1	0	3	0	3	3	4	1	2	1	1	23
Kossuth	2	0	2	1	4	0	2	1	1	4	1	4	3	1	5	31
Lee	6	3	3	8	2	4	3	9	6	3	5	6	11	7	9	85
Linn	18	19	20	14	26	19	27	19	25	24	17	27	44	22	45	366
Louisa	0	2	0	1	4	2	2	1	3	0	2	2	3	1	2	25
Lucas	1	0	1	1	0	3	0	1	0	1	1	0	1	0	0	10
Lyon	0	2	3	1	1	0	0	0	2	0	1	4	2	1	0	17
Madison	0	0	0	2	1	0	0	1	1	1	1	1	1	0	3	12
Mahaska	0	1	2	3	1	3	2	4	1	2	3	3	3	4	1	33
Marion	2	2	5	4	1	4	3	3	5	3	0	5	3	4	2	46
Marshall	4	4	0	5	4	2	3	5	6	8	2	4	10	4	7	68
Mills	1	2	0	0	0	0	2	3	1	1	2	0	2	3	1	18
Mitchell	0	1	4	1	1	1	0	1	1	1	1	2	0	4	2	20
Monona	1	2	0	1	1	0	0	1	1	0	2	0	0	0	1	10
Monroe	1	0	0	0	0	1	2	3	1	0	1	1	1	2	2	15
Montgomery	1	2	1	3	1	1	5	0	0	1	1	0	0	1	4	21
Muscatine	11	3	10	11	2	6	6	5	8	4	3	7	11	12	7	106
O'Brien	0	2	2	3	2	1	0	1	1	1	0	1	4	1	4	23
Osceola	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	4
Page	0	4	2	1	0	1	6	1	0	1	2	5	1	1	4	29
Palo Alto	3	2	1	1	1	0	0	0	2	0	3	3	1	4	1	22
Plymouth	1	3	4	3	2	2	1	4	1	1	6	2	6	3	3	42
Pocahontas	1	0	0	0	0	0	1	1	0	2	1	1	1	2	0	10
Polk	42	48	52	66	57	59	51	60	46	70	50	52	44	59	72	828
Pottawattamie	7	7	13	14	5	11	7	18	12	22	12	16	25	21	18	208
Poweshiek	2	1	0	0	0	3	1	1	3	1	1	0	4	4	6	27
Ringgold	0	0	0	2	0	0	1	2	0	1	1	1	0	0	0	8
Sac	1	0	1	0	1	2	2	1	1	1	1	3	1	3	2	20
Scott	18	12	23	14	27	24	22	17	26	17	25	24	25	29	41	344
Shelby	1	0	2	2	3	3	2	0	0	1	0	1	0	2	4	21
Sioux	2	2	4	5	2	3	2	3	2	6	4	7	3	3	2	50
Story	4	6	5	11	10	3	5	7	7	11	8	8	5	8	9	107
Tama	0	1	2	0	2	0	2	0	1	3	1	2	2	2	5	23
Taylor	1	0	0	1	0	5	1	0	0	2	0	1	2	0	2	15
Union	0	0	1	2	1	1	1	0	1	0	0	0	1	0	0	8
Van Buren	1	1	1	2	1	1	1	0	0	2	2	1	1	4	0	18
Wapello	4	3	5	3	4	6	3	7	4	5	7	7	0	5	8	71
Warren	5	4	4	6	0	1	5	5	4	4	5	2	1	4	3	53
Washington	1	1	4	1	1	4	3	0	1	3	5	3	3	1	2	33
Wayne	1	0	0	1	1	0	0	0	0	0	1	1	1	1	2	9
Webster	4	4	5	5	5	5	7	7	5	7	9	4	10	6	12	95
Winnebago	0	3	1	1	0	1	0	1	5	1	1	3	3	0	0	20
Winneshiek	0	0	2	0	2	0	4	1	1	3	5	2	0	3	4	27
Woodbury	21	13	19	14	26	27	22	21	9	24	17	21	24	30	27	315
Worth	0	0	1	0	0	0	0	1	0	1	1	0	3	2	1	10
Wright	2	3	2	1	3	1	2	1	0	2	1	2	3	4	1	28
State of Iowa	273	261	307	312	317	321	330	343	327	389	376	385	453	456	565	5415

Table 2. Infant Mortality Rates Per 1,000 Live Births in Iowa Counties for Selected Periods from 1980 through 1994.

County	1980- 1994	1990- 1994	1985- 1989	1980- 1984	County	1980- 1994	1990- 1994	1985- 1989	1980- 1984
Adair	4.3	6.5	3.8	3.0	Jefferson	7.6	12.1	1.9	9.1
Adams	8.1	3.6	9.0	10.7	Johnson	9.2	7.7	8.6	11.3
Allamakee	6.8	5.7	6.7	7.6	Jones	5.2	4.0	6.7	5.0
Appanoose	8.8	12.1	5.8	8.6	Keokuk	9.4	6.7	12.0	9.4
Audubon	10.7	12.6	6.5	12.6	Kossuth	7.6	8.2	6.3	8.1
Benton	6.8	6.4	6.8	7.1	Lee	10.2	8.8	9.4	12.0
Black Hawk	9.8	9.0	7.7	12.0	Linn	9.6	7.5	9.4	11.9
Boone	9.7	7.9	10.0	11.0	Louisa	10.3	8.8	10.7	11.3
Bremer	6.2	4.0	6.2	7.7	Lucas	5.5	5.2	9.5	2.8
Buchanan	8.9	5.3	8.6	11.8	Lyon	6.1	8.3	2.3	7.3
Buena Vista	5.8	0.8	6.3	9.5	Madison	5.0	3.8	3.9	7.4
Butler	6.8	6.0	5.2	8.6	Mahaska	7.0	5.0	7.7	8.1
Calhoun	9.0	3.6	10.3	11.4	Marion	7.5	7.1	9.1	6.4
Carroll	5.7	5.0	5.4	6.4	Marshall	8.4	6.9	9.6	8.6
Cass	9.7	5.6	10.5	11.9	Mills	6.9	3.8	8.4	8.2
Cedar	8.8	9.7	6.6	9.8	Mitchell	8.9	10.0	5.8	10.7
Cerro Gordo	8.1	7.5	6.4	10.1	Monona	5.0	8.0	3.6	3.7
Cherokee	7.6	7.4	6.5	8.7	Monroe	9.1	1.9	13.9	11.3
Chickasaw	7.0	3.4	7.9	8.9	Montgomery	8.6	10.5	9.5	6.4
Clarke	8.5	2.1	7.0	15.0	Muscatine	10.7	11.3	9.3	11.3
Clay	7.8	2.6	9.7	10.1	O'Brien	7.1	9.7	4.1	7.5
Clayton	7.8	6.0	9.2	8.0	Osceola	2.6	0.0	2.1	4.8
Clinton	6.9	7.7	6.6	6.6	Page	9.3	7.9	8.7	10.8
Crawford	9.9	4.9	9.6	13.4	Palo Alto	9.9	15.0	2.8	12.2
Dallas	8.0	5.2	11.2	7.6	Plymouth	7.8	8.2	5.3	9.5
Davis	5.2	3.3	8.3	4.2	Pocahontas	5.2	2.0	6.2	6.5
Decatur	6.9	12.7	2.0	6.6	Polk	10.6	9.7	11.2	11.1
Delaware	8.2	3.0	10.4	10.3	Pottawattamie	10.4	7.3	10.8	12.9
Des Moines	9.9	7.1	9.8	12.3	Poweshiek	8.0	2.7	8.5	12.2
Dickinson	9.2	12.0	8.5	7.8	Ringgold	8.5	9.0	13.7	4.7
Dubuque	7.7	6.4	7.4	9.2	Sac	8.1	4.4	9.0	9.9
Emmet	12.6	3.0	12.8	19.1	Scott	9.1	7.9	8.7	10.4
Fayette	8.2	5.6	8.5	10.0	Shelby	7.6	10.0	7.2	6.2
Floyd	6.1	2.9	6.5	8.4	Sioux	6.8	7.1	6.8	6.6
Franklin	9.2	7.9	6.9	12.0	Story	7.5	8.3	7.0	7.3
Fremont	7.3	6.3	11.0	4.8	Tama	6.4	4.5	5.3	8.8
Greene	6.6	5.1	4.7	9.0	Taylor	11.0	5.3	20.0	8.5
Grundy	6.6	7.7	4.3	7.5	Union	3.2	5.6	3.9	1.0
Guthrie	8.0	6.2	7.1	10.2	Van Buren	11.2	12.2	7.7	13.3
Hamilton	8.2	9.7	6.7	8.2	Wapello	9.7	8.3	10.9	9.9
Hancock	10.4	8.4	4.6	16.3	Warren	7.1	7.6	7.8	5.9
Hardin	6.6	6.8	7.8	5.7	Washington	7.6	5.7	7.7	9.3
Harrison	5.8	3.2	7.5	6.3	Wayne	7.0	7.9	0.0	12.0
Henry	8.4	6.4	9.2	9.5	Webster	10.3	8.3	10.4	11.8
Howard	6.3	3.4	6.1	8.4	Winnebago	8.4	7.3	9.8	8.0
Humboldt	7.3	7.4	9.6	5.4	Winneshiek	6.4	3.2	6.5	8.9
Ida	8.7	14.6	6.3	7.0	Woodbury	12.9	11.3	13.3	13.9
Iowa	8.9	1.9	15.2	9.9	Worth	6.2	2.1	3.8	11.5
Jackson	8.9	6.9	11.7	7.9	Wright	9.7	12.4	6.6	10.1
Jasper	8.2	7.2	9.8	7.7					
					State of Iowa	8.9	7.7	8.8	10.0

Figure 1. Infant mortality in Iowa, 1980-1994.

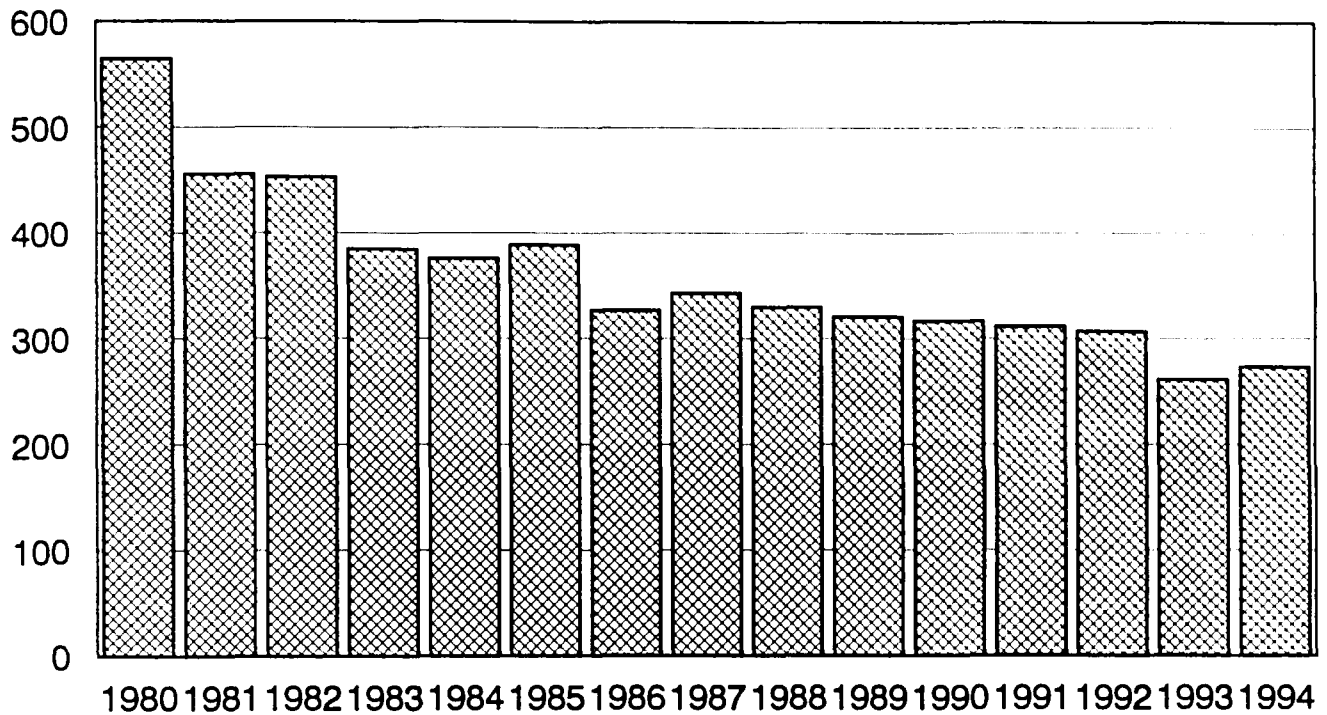


Figure 2. Infant mortality rate in Iowa, 1980-1994.

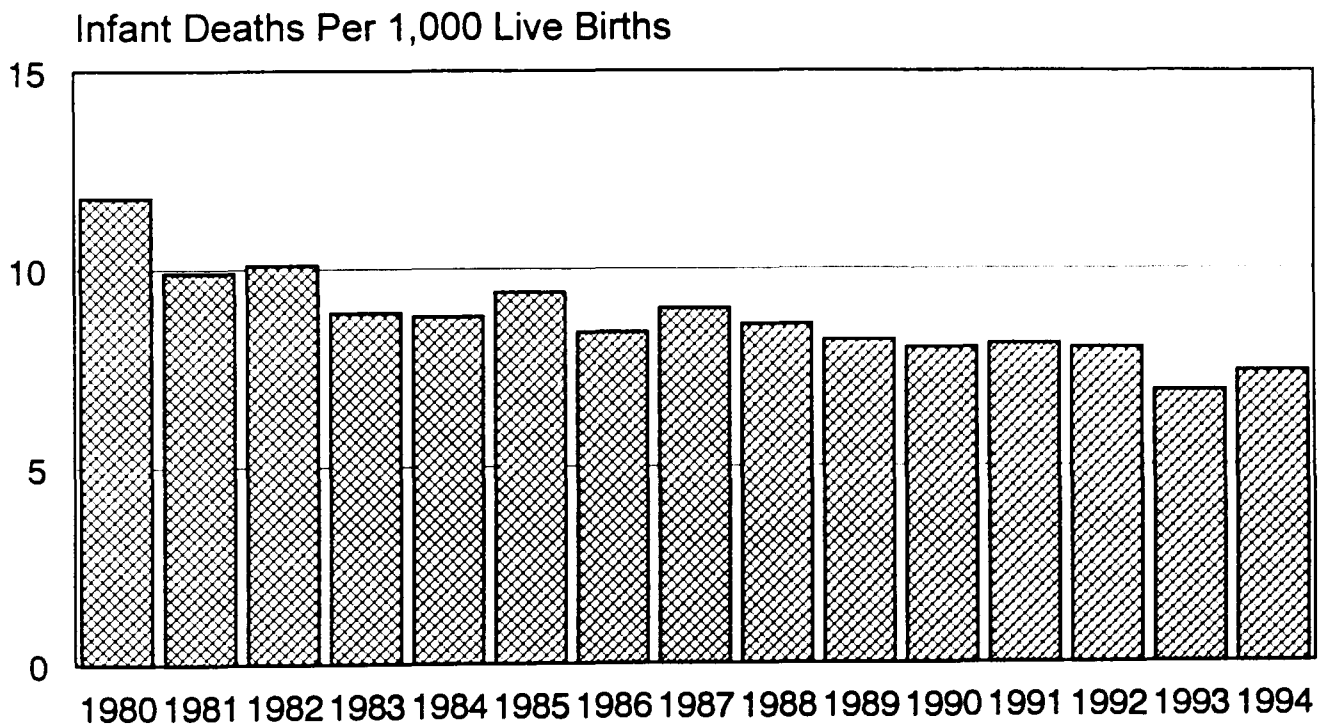
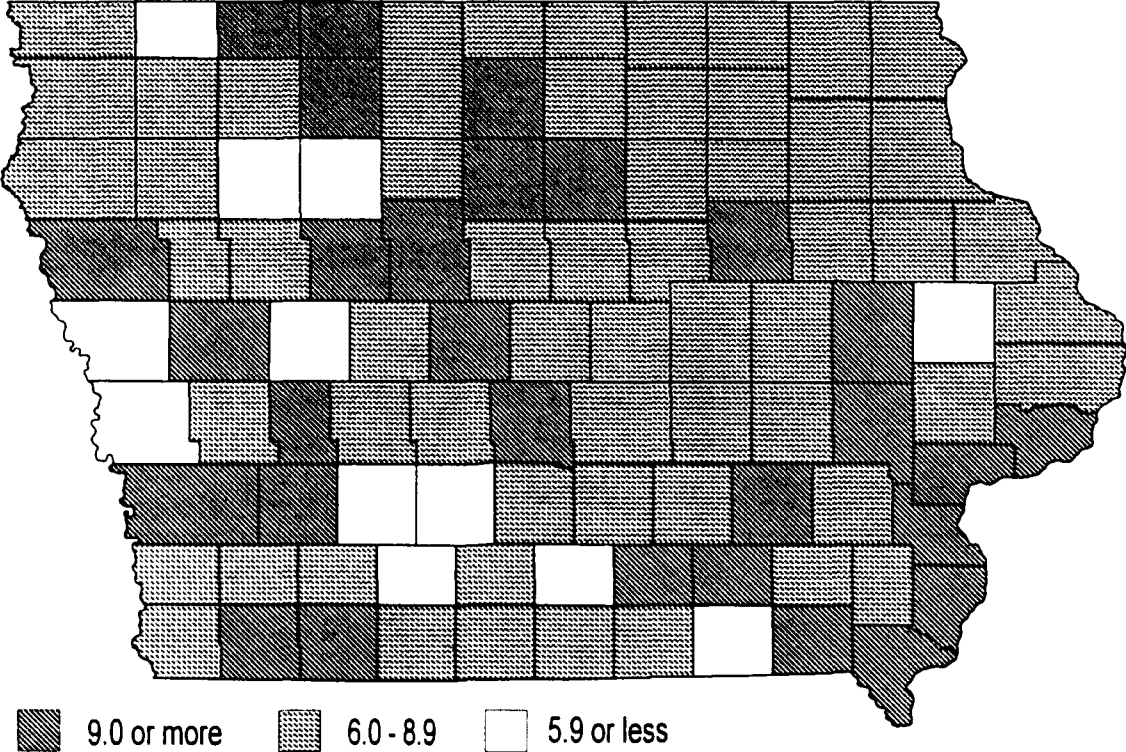




Figure 3. Infant mortality rate, 1980-1994.



## Deaths Caused by Accident, Suicide, or Homicide in Iowa's Counties: 1980-1994

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The Iowa Department of Public Health maintains records on the causes of death of residents in Iowa's counties. Deaths from causes other than illness and disease include motor vehicle accidents, other accidents, suicides, and homicides. From 1980 through 1994, the 22,496 deaths due to these four causes accounted for 5.5% of all deaths (408,704) 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 1994, 518 Iowans died in motor vehicle accidents (Table 1). From 1980 through 1993, eight years had lower totals than that reported in 1994. Deaths from motor vehicle accidents were substantially higher in 1980 and 1981, exceeding 650 both years (Figure 1).

Polk had more residents (53) die in motor vehicle accidents in 1994 than did any other county. The next highest counties were Black Hawk, Linn, and Scott. Six counties had from 10 to 17 such deaths. Twenty-seven counties had from five to nine motor vehicle deaths while a majority (58) had one to four. Four counties (Adair, Audubon, Clarke, Jefferson) had no residents die in motor vehicle accidents in 1994.

A total of 7,881 Iowa residents died in motor vehicle accidents from 1980 through 1994. Of these, 693 were residents of Polk. Eighteen other counties had at least 100 residents die in this manner between 1980 and 1994. Adams had 16 residents die in motor vehicle accidents during the 15 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 603 Iowans were due to these kinds of incidents in 1994 (Table 2). In 1980, 652 accidental deaths not involving motor vehicles occurred to Iowa residents, the highest during the period reviewed (Figure 1).

In 1994, Polk had the highest number (57) of deaths from accidents other than those involving motor vehicles, followed by Black Hawk and Scott. Five or fewer such deaths occurred in 65 counties in 1994; among these, no deaths from these kinds of accidents were reported for residents of three counties.

During the 1980-1994 period, accidents other than those involving motor vehicles claimed the lives of 8,728 Iowans. Polk's total was 1,041, nearly triple that of second place Linn (365). Twenty other counties recorded 100 or more such accidental deaths during the 15 years. Ringgold and Osceola (22) had the fewest of these accidental deaths during the period.

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Adair	0	5	2	2	3	1	1	0	2	0	2	1	0	2	3	24
Adams	1	2	1	2	0	1	4	1	0	1	0	1	1	1	0	16
Allamakee	1	4	7	3	4	6	1	9	3	1	6	7	7	5	9	73
Appanoose	5	5	2	0	5	4	6	4	4	1	5	0	0	5	3	49
Audubon	0	1	1	4	2	1	0	0	0	1	2	4	0	2	4	22
Benton	4	3	1	8	3	7	8	5	3	3	4	9	5	3	7	73
Black Hawk	23	19	24	16	19	16	17	13	13	18	13	16	19	24	29	279
Boone	9	1	6	1	3	3	2	6	1	5	2	2	6	7	3	57
Bremer	4	8	1	6	5	5	9	2	3	4	2	4	3	5	8	69
Buchanan	2	3	3	2	3	4	8	1	1	2	4	6	7	5	5	56
Buena Vista	4	3	6	4	3	4	8	2	3	2	5	3	6	5	6	64
Butler	4	4	4	3	2	3	6	6	5	1	3	2	2	2	5	52
Calhoun	1	0	3	3	2	10	4	3	2	5	3	3	2	2	7	50
Carroll	5	4	4	7	2	1	6	5	3	3	3	3	5	3	8	62
Cass	2	4	4	2	2	0	4	1	7	4	1	6	4	4	10	55
Cedar	4	3	2	7	2	3	9	4	2	7	4	0	5	8	5	65
Cerro Gordo	5	13	8	6	3	6	3	8	5	8	3	5	8	10	16	107
Cherokee	3	1	1	5	1	5	5	3	0	4	4	1	4	7	4	48
Chickasaw	2	2	3	6	1	1	5	2	3	1	5	1	2	2	6	42
Clarke	0	4	2	3	2	2	1	2	4	3	0	0	3	4	1	31
Clay	4	2	0	6	4	1	1	2	4	4	1	3	6	2	8	48
Clayton	8	9	4	6	2	13	3	1	8	3	5	5	6	10	11	94
Clinton	12	7	4	11	9	8	20	10	10	8	6	11	14	16	11	157
Crawford	6	5	2	5	2	2	4	7	4	10	2	9	2	6	6	72
Dallas	5	11	10	9	10	5	11	6	5	7	5	6	8	7	5	110
Davis	2	3	2	2	3	3	0	2	3	3	5	1	1	0	0	30
Decatur	1	3	1	3	1	1	1	0	1	2	3	2	8	4	2	33
Delaware	1	4	2	4	2	1	1	4	2	4	3	2	4	4	4	42
Des Moines	5	13	3	10	7	5	12	8	8	4	11	9	5	8	9	117
Dickinson	2	2	6	4	1	2	2	3	0	2	1	0	1	1	5	32
Dubuque	16	9	18	9	11	18	15	14	14	14	15	18	12	21	18	222
Emmet	1	1	2	5	0	3	3	4	1	8	3	2	0	5	4	42
Fayette	6	3	5	7	13	3	12	8	3	6	3	4	4	5	2	84
Floyd	6	4	3	3	2	5	4	4	1	3	2	5	8	6	7	63
Franklin	1	2	4	1	0	4	4	2	1	1	3	3	2	3	3	34
Fremont	3	3	0	1	2	2	2	5	4	4	3	2	2	4	3	40
Greene	5	0	2	0	4	2	9	1	0	0	1	2	1	5	8	40
Grundy	3	0	0	3	1	0	1	2	1	2	1	2	4	2	3	25
Guthrie	2	2	2	1	1	1	5	1	1	3	2	2	3	1	2	29
Hamilton	4	4	4	1	4	4	7	7	2	0	3	6	3	8	4	61
Hancock	3	4	0	2	5	2	2	2	4	1	3	3	1	1	2	35
Hardin	7	4	2	3	2	3	8	5	3	3	8	2	2	7	7	66
Harrison	6	4	12	7	6	6	5	2	4	2	5	4	6	1	8	78
Henry	3	7	2	11	2	7	1	2	7	0	3	1	5	6	4	61
Howard	1	1	4	1	2	4	2	3	3	1	5	1	1	5	2	36
Humboldt	3	2	3	1	1	4	1	3	3	2	2	4	0	5	2	36
Ida	1	4	5	0	2	1	2	7	1	5	2	3	0	1	0	34
Iowa	3	3	6	2	2	1	3	3	2	8	1	0	5	5	5	49
Jackson	4	4	4	8	7	3	8	11	8	7	4	7	10	8	7	100
Jasper	4	9	4	1	8	10	6	8	7	3	10	9	5	6	5	95

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Jefferson	0	2	2	6	5	2	3	5	2	2	4	5	1	4	5	48
Johnson	9	8	8	11	10	14	6	5	8	22	8	7	14	9	11	150
Jones	3	6	7	2	5	4	6	4	2	4	1	7	3	6	6	66
Keokuk	5	6	2	2	5	0	5	6	3	3	8	9	6	8	3	71
Kossuth	2	6	2	1	1	9	3	4	2	10	3	1	7	7	5	63
Lee	6	3	7	16	16	9	9	8	5	8	6	10	9	13	14	139
Linn	24	19	12	22	21	26	19	19	16	20	19	15	20	32	29	313
Louisa	6	3	3	1	4	5	3	0	3	0	2	3	3	2	2	40
Lucas	2	0	5	2	6	2	0	3	2	3	3	3	2	4	1	38
Lyon	2	3	2	2	2	2	0	2	5	3	4	1	2	5	4	39
Madison	5	0	2	4	2	3	1	2	1	4	3	3	1	3	1	35
Mahaska	6	7	6	6	5	3	6	7	3	4	4	5	3	0	6	71
Marion	9	8	9	4	7	8	6	2	4	5	2	5	1	8	4	82
Marshall	9	5	12	17	6	11	2	9	10	9	6	9	13	10	11	139
Mills	1	3	2	3	7	2	2	3	5	3	2	1	3	3	4	44
Mitchell	1	2	6	0	1	2	3	3	1	1	1	4	1	2	3	31
Monona	3	1	3	2	3	5	4	4	5	0	3	3	3	6	7	52
Monroe	4	4	3	1	3	5	1	1	1	3	3	6	1	3	6	45
Montgomery	2	2	0	3	4	2	3	2	3	2	1	2	2	6	2	36
Muscatine	7	3	5	9	11	19	14	8	4	18	10	15	8	12	9	152
O'Brien	6	1	5	3	1	4	3	3	0	1	7	3	3	8	3	51
Osceola	3	2	1	0	1	0	3	0	6	2	2	4	1	2	0	27
Page	2	1	5	3	7	2	5	1	2	2	8	4	3	5	6	56
Palo Alto	2	2	3	5	4	3	3	0	2	7	1	1	1	2	2	38
Plymouth	5	5	2	2	4	3	6	8	4	9	1	5	7	8	10	79
Pocahontas	2	0	3	3	4	6	5	3	7	1	2	3	3	5	4	51
Polk	53	34	39	45	35	48	60	41	43	45	44	43	28	58	77	693
Pottawattamie	17	14	20	8	14	14	15	25	17	14	11	21	21	22	5	238
Poweshiek	4	1	2	3	2	5	4	6	5	3	8	2	6	5	6	62
Ringgold	2	2	1	1	1	0	2	3	0	2	2	3	1	1	3	24
Sac	2	3	4	1	2	4	4	7	1	7	1	3	4	3	5	51
Scott	20	17	18	10	18	21	19	22	21	15	18	33	18	29	28	307
Shelby	1	7	6	2	3	4	4	2	0	2	2	5	5	2	7	52
Sioux	3	2	1	6	8	7	4	6	9	5	4	4	4	4	6	73
Story	2	7	7	13	9	4	5	9	6	6	9	5	6	9	9	106
Tama	7	5	6	6	6	3	2	5	5	5	4	8	3	7	4	76
Taylor	4	2	1	0	2	2	1	5	4	2	0	5	3	2	3	36
Union	4	3	5	5	1	2	4	1	5	3	3	0	5	3	5	49
Van Buren	2	4	0	4	2	2	2	0	0	1	2	1	3	3	1	27
Wapello	14	7	8	10	9	11	7	2	9	8	5	5	7	11	5	118
Warren	6	1	3	1	4	8	11	3	7	7	5	6	6	6	11	85
Washington	3	7	3	3	3	4	3	4	5	10	4	4	3	10	8	74
Wayne	7	3	1	2	0	0	1	3	0	3	1	3	2	3	3	32
Webster	12	4	4	11	8	11	10	8	11	12	14	11	9	11	17	153
Winnebago	4	3	3	2	5	4	3	3	1	1	5	7	3	3	4	51
Winneshiek	2	2	1	3	8	5	3	2	3	2	5	7	4	4	3	54
Woodbury	12	12	15	12	16	17	16	14	13	19	13	20	22	15	12	228
Worth	2	0	0	1	1	3	3	1	1	2	2	1	3	0	0	20
Wright	2	3	1	6	6	4	4	3	4	7	5	3	4	2	3	57
State of Iowa	518	463	467	502	491	541	570	501	455	521	473	536	509	655	679	7881

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Adair	1	0	3	6	2	3	1	4	2	1	4	0	4	2	4	37
Adams	4	4	3	2	0	3	3	1	1	2	2	1	1	2	3	32
Allamakee	3	2	3	3	4	7	5	5	8	2	4	4	5	3	3	61
Appanoose	1	3	2	2	3	3	4	4	9	6	4	2	6	1	3	53
Audubon	2	0	4	2	0	2	2	0	2	2	2	4	3	1	2	28
Benton	6	3	3	4	5	6	4	4	1	5	4	7	2	4	6	64
Black Hawk	30	36	16	23	24	14	15	22	24	14	16	33	21	25	27	340
Boone	2	9	5	8	3	8	11	11	8	8	3	9	3	9	5	102
Bremer	6	4	4	5	4	3	5	1	5	2	4	4	4	8	2	61
Buchanan	5	3	10	3	4	1	5	7	3	5	4	3	6	8	4	71
Buena Vista	4	2	4	0	2	7	6	3	0	4	2	8	3	4	6	55
Butler	3	0	0	1	2	2	3	4	7	2	1	2	2	4	5	38
Calhoun	4	2	2	6	2	1	4	4	4	2	3	4	0	1	2	41
Carroll	9	3	6	3	2	7	6	8	2	5	8	3	11	3	5	81
Cass	7	0	6	6	6	8	7	5	1	8	3	1	4	3	5	70
Cedar	6	4	2	0	5	1	2	0	1	6	5	2	2	4	0	40
Cerro Gordo	6	4	5	12	2	8	4	8	11	10	9	7	8	13	9	116
Cherokee	2	1	2	4	5	9	7	2	1	3	2	4	3	1	2	48
Chickasaw	1	4	2	4	1	1	1	1	4	1	3	0	2	3	3	31
Clarke	5	3	3	3	4	2	1	2	0	3	2	3	1	3	7	42
Clay	2	3	4	1	2	0	2	4	1	0	4	3	6	4	5	41
Clayton	8	6	4	7	3	5	8	4	2	6	9	6	8	6	7	89
Clinton	6	14	13	6	6	14	11	13	9	13	6	8	20	5	14	158
Crawford	3	4	3	2	4	5	1	3	5	5	5	3	5	5	4	57
Dallas	8	8	10	4	3	6	11	10	4	8	8	7	6	4	4	101
Davis	1	1	0	3	2	2	1	2	0	2	2	4	5	1	1	27
Decatur	6	4	8	6	5	4	4	2	3	3	1	2	2	1	5	56
Delaware	2	1	8	5	3	6	6	2	5	6	9	2	7	1	4	67
Des Moines	9	7	9	12	11	13	11	4	11	14	2	5	7	9	7	131
Dickinson	5	4	0	0	6	3	0	3	3	4	3	3	8	4	3	49
Dubuque	12	14	6	17	20	13	10	7	22	20	16	13	13	15	19	217
Emmet	6	4	2	2	1	3	6	1	1	4	5	3	0	4	2	44
Fayette	4	7	5	4	5	7	3	8	3	6	8	3	6	10	8	87
Floyd	3	4	6	4	1	1	5	5	2	2	5	4	6	3	10	61
Franklin	2	2	4	4	3	3	3	1	6	5	1	3	1	5	2	45
Fremont	2	3	0	4	3	2	3	2	1	0	2	7	3	8	3	43
Greene	3	0	3	6	1	0	1	3	3	5	1	7	2	0	4	39
Grundy	2	2	1	4	2	2	1	2	2	2	0	1	4	4	6	35
Guthrie	3	3	0	3	2	4	1	5	3	4	3	1	6	3	8	49
Hamilton	3	1	5	1	3	1	2	1	5	2	3	6	1	1	5	40
Hancock	2	3	2	1	3	2	3	3	5	0	3	3	5	3	1	39
Hardin	4	6	2	6	5	1	1	3	4	3	2	4	5	4	9	59
Harrison	3	1	4	5	4	3	6	4	2	8	3	9	3	4	3	62
Henry	6	6	7	0	1	3	7	2	3	7	1	8	2	3	3	59
Howard	2	2	1	3	3	3	5	2	1	2	0	3	3	1	0	31
Humboldt	4	3	7	2	3	0	2	2	1	0	4	1	5	5	1	40
Ida	2	1	1	1	2	3	7	3	2	0	4	3	3	4	2	38
Iowa	5	1	2	3	2	3	2	3	2	2	3	1	1	3	3	36
Jackson	8	3	6	2	5	2	2	3	2	2	5	4	9	11	4	68
Jasper	14	11	5	13	4	8	5	6	12	7	8	9	8	12	11	133

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Jefferson	2	2	4	2	2	4	1	7	3	4	2	4	2	4	0	43
Johnson	8	7	13	11	16	8	11	11	13	6	6	13	11	12	6	152
Jones	9	6	4	1	5	6	4	3	5	5	3	7	1	3	6	68
Keokuk	5	5	4	2	4	0	6	5	4	6	6	3	4	4	2	60
Kossuth	1	2	2	5	6	8	7	3	11	3	4	4	4	3	4	67
Lee	19	7	7	5	6	7	17	10	4	8	6	15	11	8	12	142
Linn	25	22	24	28	19	25	29	17	26	23	23	22	21	29	32	365
Louisa	4	4	1	1	4	1	0	5	2	5	1	1	5	2	0	36
Lucas	5	2	1	5	1	7	4	0	1	3	0	2	5	1	1	38
Lyon	2	0	0	2	5	2	3	5	3	1	7	1	3	5	3	42
Madison	2	4	5	4	3	3	8	2	5	5	3	3	3	4	6	60
Mahaska	6	4	7	12	7	4	5	7	4	4	3	5	4	4	4	80
Marion	8	7	11	9	11	6	5	6	14	7	8	8	8	11	6	125
Marshall	10	7	13	10	10	7	10	8	6	9	12	9	5	9	11	136
Mills	4	5	0	3	7	3	1	2	2	2	2	1	1	4	2	39
Mitchell	0	2	2	1	4	8	1	4	2	3	6	2	4	6	7	52
Monona	3	5	6	2	3	5	3	1	5	2	3	4	3	0	3	48
Monroe	3	0	4	3	1	4	1	3	1	6	3	1	2	0	7	39
Montgomery	1	7	5	7	6	6	1	5	2	3	3	1	3	6	1	57
Muscatine	11	2	4	13	5	5	12	8	8	12	6	8	10	9	5	118
O'Brien	2	2	7	7	3	0	4	8	9	6	2	3	6	6	2	67
Osceola	0	1	1	0	1	3	0	2	1	5	0	3	1	1	3	22
Page	2	3	7	4	5	2	5	3	5	7	2	4	6	3	4	62
Palo Alto	4	1	0	2	1	4	1	1	1	2	5	0	2	4	5	33
Plymouth	5	1	3	2	3	5	0	4	2	2	3	4	6	5	2	47
Pocahontas	3	1	1	1	6	1	2	0	2	0	1	0	8	1	4	31
Polk	57	70	71	82	68	72	88	60	78	61	74	51	58	71	80	1041
Pottawattamie	16	13	15	21	13	21	22	14	16	17	11	15	19	16	14	243
Poweshiek	7	6	4	6	3	6	7	7	3	5	3	5	6	2	6	76
Ringgold	3	0	2	1	1	1	0	3	2	2	5	1	0	0	1	22
Sac	3	5	5	3	5	3	2	1	2	4	1	4	4	8	4	54
Scott	27	32	21	14	14	27	13	34	27	19	21	24	25	24	22	344
Shelby	2	5	2	3	6	2	4	0	3	4	9	6	3	3	6	58
Sioux	5	9	5	4	3	7	3	2	6	5	7	5	8	7	10	86
Story	5	14	7	17	16	9	7	11	8	13	5	14	14	14	13	167
Tama	4	2	2	4	8	6	1	2	12	5	4	1	6	4	4	65
Taylor	0	1	1	2	2	3	4	0	1	1	1	1	5	1	2	25
Union	3	4	1	3	3	5	6	6	0	3	4	4	5	6	3	56
Van Buren	1	5	1	1	3	5	2	2	6	2	2	1	1	1	2	35
Wapello	12	6	10	8	9	10	6	9	7	4	8	15	7	14	12	137
Warren	6	4	8	4	8	7	9	3	7	7	9	9	8	9	4	102
Washington	10	5	5	5	7	4	9	8	3	6	9	4	3	5	7	90
Wayne	1	1	2	2	1	0	0	3	2	4	2	3	2	8	4	35
Webster	18	13	13	13	10	13	12	8	6	11	7	10	9	14	12	169
Winnebago	2	4	5	5	1	1	4	1	3	2	2	4	3	4	3	44
Winneshiek	4	6	0	4	6	2	6	7	2	11	2	2	5	5	5	67
Woodbury	21	21	14	18	14	29	18	14	21	15	15	27	12	18	29	286
Worth	3	1	5	1	3	0	0	0	2	1	2	1	2	2	2	25
Wright	2	7	3	7	3	2	4	1	5	6	2	0	6	4	8	60
State of Iowa	603	559	551	598	549	587	594	535	582	580	536	572	601	629	652	8728

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Adair	0	1	1	3	1	2	1	2	3	0	1	2	0	2	1	20
Adams	0	1	1	0	0	1	1	0	0	0	2	1	0	0	0	7
Allamakee	2	2	0	1	1	1	2	5	4	3	2	1	2	0	3	29
Appanoose	1	1	1	2	3	4	2	2	2	0	4	0	4	1	3	30
Audubon	2	0	3	2	1	1	1	0	1	1	1	0	1	2	0	16
Benton	1	5	1	3	4	1	4	3	3	5	1	2	2	1	1	37
Black Hawk	12	18	14	12	12	13	16	16	14	16	17	15	12	15	13	215
Boone	1	4	1	3	3	1	3	3	3	4	3	2	3	0	4	38
Bremer	7	1	2	1	3	3	0	3	0	2	3	2	0	1	4	32
Buchanan	2	3	4	3	4	1	2	2	1	2	7	1	2	3	3	40
Buena Vista	1	4	1	2	0	1	2	1	2	3	5	2	0	1	0	25
Butler	1	1	1	1	2	2	2	3	3	2	1	2	0	1	0	22
Calhoun	1	2	2	2	1	2	1	3	0	0	2	1	4	1	1	23
Carroll	2	4	2	3	3	6	2	2	2	1	2	3	2	2	3	39
Cass	0	0	0	2	1	2	1	2	5	1	1	5	1	1	2	24
Cedar	2	0	2	4	1	2	1	2	4	2	4	2	1	3	0	30
Cerro Gordo	6	6	3	5	5	6	3	9	4	9	2	5	8	4	4	79
Cherokee	1	3	4	4	1	0	0	3	2	2	1	1	1	1	1	25
Chickasaw	4	1	2	1	1	0	2	3	1	2	1	1	0	0	2	21
Clarke	0	3	1	2	1	2	2	2	0	0	1	0	3	0	2	19
Clay	2	1	0	0	1	1	0	0	1	1	2	2	0	3	3	17
Clayton	1	2	5	5	2	0	2	3	4	4	3	2	0	4	3	40
Clinton	7	7	4	2	6	3	5	9	11	6	11	6	6	9	7	99
Crawford	0	2	2	2	3	3	0	0	1	2	1	2	2	0	2	22
Dallas	3	3	7	10	2	5	3	4	4	4	2	3	7	4	3	64
Davis	0	2	4	0	0	0	0	0	1	0	0	1	0	4	2	14
Decatur	0	4	2	2	0	0	1	1	1	3	0	0	0	0	0	14
Delaware	4	1	0	5	1	1	1	3	2	2	3	5	0	1	0	29
Des Moines	12	9	3	8	6	6	5	12	7	2	3	5	7	6	4	95
Dickinson	2	1	1	1	2	1	3	1	7	3	1	5	1	1	0	30
Dubuque	7	9	12	11	6	9	11	12	5	9	7	12	8	6	10	134
Emmet	2	0	1	1	2	1	1	1	0	1	4	0	0	1	8	23
Fayette	2	3	1	4	2	3	2	7	2	3	1	3	4	6	3	46
Floyd	1	2	2	3	1	2	1	4	0	3	0	1	2	3	0	25
Franklin	1	1	0	0	3	0	0	2	1	1	1	0	0	2	1	13
Fremont	2	0	1	1	1	3	2	1	1	1	2	0	0	0	0	15
Greene	1	1	2	0	1	3	1	4	1	2	1	3	1	0	4	25
Grundy	4	1	0	1	1	2	3	0	2	3	2	1	1	0	2	23
Guthrie	3	1	3	0	2	2	1	0	3	3	2	2	3	1	3	29
Hamilton	2	3	2	5	1	4	4	3	3	3	3	0	1	1	0	35
Hancock	1	1	2	2	0	1	3	2	1	1	3	1	0	1	2	21
Hardin	3	0	1	0	1	0	1	2	1	2	1	0	6	0	1	19
Harrison	1	2	0	3	0	2	2	1	2	1	3	1	3	4	1	26
Henry	2	2	4	2	2	4	3	1	0	1	7	3	1	6	1	39
Howard	0	0	0	1	1	0	0	0	0	1	1	2	1	0	0	7
Humboldt	4	3	1	0	0	1	0	2	0	1	3	0	3	0	3	21
Ida	0	1	2	1	1	1	1	0	0	0	3	1	1	0	1	13
Iowa	2	1	1	4	1	1	1	2	3	1	1	0	1	0	2	21
Jackson	1	3	3	3	3	2	1	3	2	2	4	2	3	4	1	37
Jasper	4	2	2	7	4	4	3	3	6	4	3	3	2	1	5	53

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Jefferson	2	3	0	1	6	0	2	2	2	1	2	2	0	0	2	25
Johnson	11	8	7	10	9	3	11	12	10	14	7	4	6	11	8	131
Jones	4	1	2	1	8	4	2	3	1	4	1	2	1	2	4	40
Keokuk	2	3	4	1	2	1	0	2	1	2	0	1	2	3	1	25
Kossuth	0	1	0	0	2	2	0	4	1	1	1	3	3	2	2	22
Lee	8	6	2	6	3	2	2	6	5	7	4	4	4	4	4	67
Linn	22	22	17	25	24	20	30	28	27	16	19	13	20	22	20	325
Louisa	1	0	2	1	4	1	3	3	1	3	6	1	0	3	0	29
Lucas	3	1	3	1	1	2	3	4	1	0	2	0	2	1	4	28
Lyon	0	1	1	1	1	1	0	1	2	0	4	3	0	0	5	20
Madison	1	1	1	0	0	2	1	0	2	1	4	1	3	1	1	19
Mahaska	3	2	3	0	4	2	2	1	5	2	2	7	1	2	2	38
Marion	1	1	2	2	3	5	2	7	6	3	6	6	2	3	5	54
Marshall	9	3	6	4	6	1	6	6	12	5	5	6	7	5	3	84
Mills	3	2	0	1	2	0	2	1	0	1	0	2	1	3	1	19
Mitchell	1	1	2	2	2	4	0	0	0	1	0	4	1	2	2	22
Monona	1	1	1	0	2	0	2	0	4	1	1	0	0	0	1	14
Monroe	0	1	0	0	3	2	0	1	0	0	1	0	2	0	1	11
Montgomery	2	2	2	0	1	4	1	2	3	2	2	3	5	0	3	32
Muscatine	7	6	5	4	8	2	4	7	5	4	3	6	7	2	1	71
O'Brien	1	1	2	3	4	0	0	0	2	3	1	2	3	0	0	22
Osceola	1	1	0	1	1	1	1	1	3	2	0	0	0	2	1	15
Page	0	0	3	3	1	2	1	0	3	0	2	1	0	2	1	19
Palo Alto	0	1	0	0	0	0	2	0	2	0	0	1	2	3	0	11
Plymouth	0	0	2	3	3	2	2	6	2	3	1	3	2	0	0	29
Pocahontas	1	0	0	3	2	1	2	1	0	2	2	0	2	3	1	20
Polk	47	44	25	46	49	46	51	42	42	50	31	47	46	40	40	646
Pottawattamie	11	9	16	10	13	11	11	16	8	12	12	11	10	9	13	172
Poweshiek	1	4	1	1	1	3	3	2	0	0	2	4	3	2	2	29
Ringgold	0	1	0	2	3	0	0	0	1	1	1	0	0	0	0	9
Sac	3	1	1	0	2	2	1	1	3	0	0	0	1	2	1	18
Scott	21	13	21	17	13	19	16	31	27	20	22	28	13	25	36	322
Shelby	0	1	1	2	4	1	2	1	1	2	2	2	0	2	2	23
Sioux	1	2	0	1	1	0	2	1	2	3	3	2	0	0	0	18
Story	7	5	3	5	6	6	5	8	5	6	6	3	9	4	3	81
Tama	4	5	0	1	0	1	2	2	3	3	3	5	3	3	1	36
Taylor	0	0	0	1	3	3	2	3	1	2	2	2	1	0	1	21
Union	1	5	2	2	3	1	0	3	0	1	3	1	1	1	2	26
Van Buren	0	1	0	1	0	1	2	0	4	3	1	4	0	0	1	18
Wapello	7	6	2	2	4	4	3	5	7	5	5	7	7	4	4	72
Warren	3	2	5	3	3	6	3	5	3	5	5	1	3	2	5	54
Washington	2	4	7	1	2	3	1	3	1	3	1	3	0	2	1	34
Wayne	0	1	3	1	1	0	1	1	2	1	1	0	0	0	0	12
Webster	2	1	6	6	7	7	5	6	11	3	5	3	10	7	4	83
Winnebago	0	1	1	0	1	0	2	2	1	2	1	1	1	2	0	15
Winneshiek	1	3	2	5	3	2	2	3	3	3	3	2	0	4	2	38
Woodbury	4	11	7	12	9	12	12	14	12	7	17	10	11	11	9	158
Worth	2	0	0	1	0	3	0	0	1	0	2	1	2	0	0	12
Wright	1	1	3	1	2	3	1	2	2	0	3	0	1	0	2	22
State of Iowa	322	318	287	334	336	314	317	398	366	335	346	326	308	303	321	4931



Table 4. Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Adair	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Adams	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Allamakee	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Appanoose	0	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	0
Benton	0	0	0	0	0	1	0	3	1	0	0	0	0	1	1	7
Black Hawk	4	8	0	5	6	3	3	0	1	3	2	6	4	10	4	59
Boone	0	1	1	0	0	0	0	1	0	0	2	1	0	1	2	9
Bremer	0	0	1	0	0	0	1	0	1	0	0	0	0	1	0	4
Buchanan	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	3
Buena Vista	0	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	0	1	4	0	0	0	5
Calhoun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carroll	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2
Cass	0	1	0	1	0	0	1	0	0	0	1	0	0	0	0	4
Cedar	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
Cerro Gordo	1	2	0	1	0	0	2	0	1	0	2	0	3	1	0	13
Cherokee	0	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	0
Clarke	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2
Clay	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Clayton	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	3
Clinton	0	0	2	0	1	1	2	0	4	3	0	0	1	9	1	24
Crawford	1	0	0	0	0	0	0	1	2	0	0	0	0	0	0	4
Dallas	0	0	0	3	0	2	1	1	0	0	1	0	1	1	0	10
Davis	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3
Decatur	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	3
Delaware	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Des Moines	1	1	1	2	2	2	0	0	1	0	1	3	3	0	4	21
Dickinson	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	3
Dubuque	1	0	2	3	0	0	0	1	0	1	0	1	0	1	1	11
Emmet	0	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	0
Floyd	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Franklin	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	3
Fremont	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	4
Greene	0	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	0
Guthrie	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hamilton	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
Hancock	0	1	0	0	0	0	0	0	0	2	0	0	1	1	0	5
Hardin	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	4
Harrison	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
Henry	0	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	0	1	1	0	2
Humboldt	0	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	0
Iowa	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
Jackson	0	0	0	0	1	0	0	1	0	1	1	1	0	1	1	7
Jasper	1	0	0	0	0	2	3	0	3	1	1	2	2	0	0	15

Table 4. Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1994
Jefferson	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	3
Johnson	1	1	0	7	1	0	2	0	0	4	1	0	0	2	0	19
Jones	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
Keokuk	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	3
Kossuth	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	3
Lee	0	0	0	5	0	1	0	0	0	2	1	1	3	2	2	17
Linn	5	3	4	5	2	5	1	3	2	2	7	6	4	3	3	55
Louisa	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Lucas	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	3
Lyon	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Madison	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	4
Mahaska	0	0	0	1	1	0	1	1	0	1	0	1	1	0	0	7
Marion	0	1	1	0	2	0	0	0	1	1	0	0	1	0	1	8
Marshall	1	1	0	0	1	1	0	2	0	0	1	0	2	1	1	11
Mills	0	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	0
Monona	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Monroe	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	4
Montgomery	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Muscatine	1	1	3	0	0	0	1	1	2	4	0	0	3	1	1	18
O'Brien	1	0	0	1	1	0	0	0	0	1	0	0	0	1	0	5
Osceola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Page	0	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	0
Plymouth	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Pocahontas	0	0	0	1	0	1	0	0	0	0	0	0	2	1	0	5
Polk	20	12	11	12	18	15	15	19	21	13	18	13	17	13	19	236
Pottawattamie	5	2	2	4	2	1	4	2	4	0	4	4	1	1	5	41
Poweshiek	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3
Ringgold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Sac	0	0	2	0	0	0	0	0	0	0	0	0	1	0	1	4
Scott	8	6	3	2	3	5	3	5	2	6	9	6	5	8	9	80
Shelby	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Sioux	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0	5
Story	0	1	2	1	0	0	0	2	2	1	1	0	0	0	0	10
Tama	0	0	0	0	2	0	1	0	1	0	0	0	0	0	3	7
Taylor	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	3
Union	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2
Van Buren	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2
Wapello	1	0	1	1	0	0	1	3	0	0	1	1	1	2	0	12
Warren	0	4	2	1	0	1	0	1	0	1	1	0	1	0	0	12
Washington	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	4
Wayne	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Webster	0	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	0
Winneshiek	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Woodbury	4	3	3	7	1	6	1	3	4	0	2	6	2	4	1	47
Worth	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Wright	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
State of Iowa	64	60	49	76	52	55	53	58	62	58	74	69	68	80	78	956

### Deaths Due to Suicide

Iowa recorded 322 suicides in 1994, a number substantially greater than the 1992 low of 287 (Table 3, Figure 1). Polk, Linn, and Scott were the only counties with at least 20 suicides in 1994. A large majority (83) of the counties had five or fewer; of these, 21 had no suicides in 1994.

A total of 4,931 Iowans committed suicide from 1980 through 1994. More than 100 occurred to residents of Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, and Woodbury counties. Adams and Howard (7 each) had the lowest totals for the 15 years.

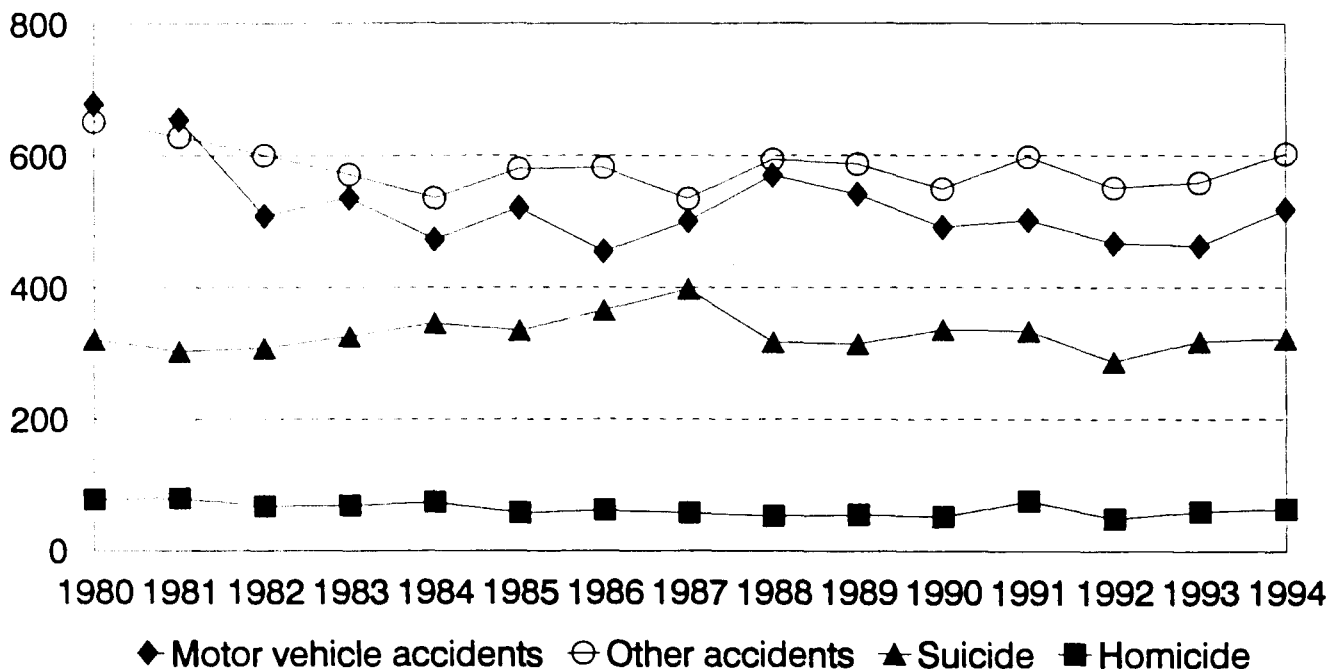
### Deaths Due to Homicide

There were more homicides in Iowa in 1994 (64) than in 8 of the other 14 years reported (Table 4, Figure 1); the highest number during the decade was 80 in 1981. More than three-fourths (78) of Iowa's counties had no homicides in 1994 and another 13 counties had only one. Polk (20) had the most; Linn, Pottawattamie, and Scott also had at least five homicides in 1994.

From 1980 through 1994, 956 Iowans died by homicide. Of these, 236 were Polk residents, 80 were from Scott, 59 from Black Hawk, and 55 from Linn. These four counties accounted for 45.0 percent of all of Iowa's homicides during these 15 years. Eleven counties had no homicides from 1980 to 1994, while 31 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, 1980-1994.



## **Injuries and Fatalities on Farms in Iowa's Counties:**

### **1990-1994**

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Liu Dong Wang, Iowa State University  
Sandra Charvat Burke, Iowa State University  
Mary Harlan, Iowa Department of Public Health  
Dale Anthony, Iowa Department of Public Health

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

#### **Injuries on Farms**

In 1994, 2,433 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; a gain of 129 took place between 1993 and 1994. Of the 12,614 injuries that occurred over this four-year period, 10,585 (83.9%) were related to work. Both work- and leisure-related injuries increased from 1990 through 1992, declined between 1992 and 1993, and then gained again between 1993 and 1994.

Sioux (490) and Winneshiek (488) were the only counties listing at least 400 farm-related injuries from 1990 through 1994. Another five (Buchanan, Crawford, Dubuque, Fayette, Poweshiek) noted 300-399. Of the 45 counties where injuries totaled less than 100 in the 1990-1994 period, six (Buena Vista, Dallas, Louisa, Lucas, Polk, Warren) had fewer than 40.

In the five years examined, work-related injuries on farms ranged from fewer than 50 in 21 counties to more than 200 in eight (Buchanan, Crawford, Dubuque, Fayette, Poweshiek, Sioux, Washington, Winneshiek). Ten counties reported at least 50 leisure-related injuries during the five-year period; 29 counties had fewer than 10 such injuries.

#### **Fatalities on Farms**

In 1994, 66 farm-related fatalities occurred in Iowa. Of the 45 counties that had fatalities, three (Cedar, Marshall, Sioux) reported three fatalities while 15 had two farm-related deaths. Fifty-four counties had no fatalities that were related to farms in 1994.

From 1990 through 1994, 353 farm-related deaths took place in the state. Two counties (Grundy, O'Brien) 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, 1990-1994.

County	Total Injuries						Work-Related Injuries						Leisure-Related Injuries						Total Fatalities					
	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994
Adair	9	9	29	37	12	96	8	8	24	30	12	82	1	1	5	7	0	14	1	1	1	1	0	4
Adams	20	22	33	17	32	124	14	17	28	11	26	96	6	5	5	6	6	28	0	0	2	0	0	2
Allamakee	27	37	32	55	20	171	24	36	24	39	17	140	3	1	8	16	3	31	0	0	0	2	1	3
Appanoose	3	9	24	5	4	45	3	5	10	5	4	27	0	4	14	0	0	18	0	0	0	0	2	2
Audubon	24	10	20	5	7	66	23	7	15	4	7	56	1	3	5	1	0	10	1	0	2	0	0	3
Benton	13	16	59	11	19	118	11	14	46	10	16	97	2	2	13	1	3	21	2	1	0	0	1	4
Black Hawk	74	34	91	59	8	266	55	24	55	43	7	184	19	10	36	16	1	82	0	1	1	1	2	5
Boone	10	14	7	22	10	63	8	13	7	19	10	57	2	1	0	3	0	6	0	1	1	0	0	2
Bremer	44	24	53	43	29	193	34	23	43	36	25	161	10	1	10	7	4	32	2	0	2	0	0	4
Buchanan	91	70	105	56	40	362	71	51	77	46	32	277	20	19	28	10	8	85	1	1	1	0	0	3
Buena Vista	3	2	8	4	17	34	1	2	6	4	17	30	2	0	2	0	0	4	0	0	1	0	0	1
Butler	30	15	23	28	30	126	26	13	20	22	26	107	4	2	3	6	4	19	0	0	1	0	0	1
Calhoun	16	14	7	7	18	62	13	12	6	7	17	55	3	2	1	0	1	7	0	1	0	2	0	3
Carroll	26	9	16	5	26	82	24	9	12	4	23	72	2	0	4	1	3	10	0	1	0	0	0	1
Cass	27	33	30	40	42	172	27	31	25	34	39	156	0	2	5	6	3	16	1	0	0	1	2	4
Cedar	15	14	24	15	18	86	10	11	20	14	17	72	5	3	4	1	1	14	3	0	0	0	0	3
Cerro Gordo	1	4	18	6	13	42	0	3	14	6	12	35	1	1	4	0	1	7	0	0	1	0	0	1
Cherokee	32	7	5	2	7	53	27	7	4	1	7	46	5	0	1	1	0	7	0	0	0	1	3	4
Chickasaw	12	28	25	27	17	109	11	27	20	23	15	96	1	1	5	4	2	13	0	0	1	1	1	3
Clarke	20	15	26	3	6	70	18	9	17	1	5	50	2	6	9	2	1	20	1	0	1	3	2	7
Clay	4	23	18	15	13	73	4	21	17	13	11	66	0	2	1	2	2	7	0	2	1	0	0	3
Clayton	29	35	42	37	14	157	28	30	38	31	14	141	1	5	4	6	0	16	2	2	5	4	1	14
Clinton	15	23	27	8	27	100	14	21	24	7	24	90	1	2	3	1	3	10	1	1	0	2	1	5
Crawford	37	53	45	76	89	300	35	53	45	59	67	259	2	0	0	17	20	39	1	1	3	0	2	7
Dallas	7	11	11	4	4	37	5	10	8	4	4	31	2	1	3	0	0	6	0	1	0	0	0	1
Davis	24	24	37	32	14	131	24	22	31	27	13	117	0	2	6	5	1	14	1	0	1	1	2	5
Decatur	6	9	9	10	18	52	6	8	7	9	18	48	0	1	2	1	0	4	2	2	1	1	0	6
Delaware	18	18	37	33	44	150	16	15	34	31	44	140	2	3	3	2	0	10	2	0	2	3	2	9
Des Moines	2	11	14	11	6	44	2	9	13	10	5	39	0	2	1	1	1	5	0	2	2	0	1	5
Dickinson	7	6	13	4	15	45	4	6	12	4	14	40	3	0	1	0	1	5	0	1	0	0	1	2
Dubuque	53	75	71	72	78	349	48	64	62	67	70	311	5	11	9	5	8	38	2	0	0	1	2	5
Emmet	19	1	7	22	21	70	15	1	6	17	19	58	4	0	1	5	2	12	2	0	0	1	0	3
Fayette	73	72	84	51	41	321	57	66	71	40	37	271	16	6	13	11	4	50	0	1	1	0	2	4

\*Not available.

Table 1. Farm-Related Injuries and Fatalities in Iowa Counties, 1990-1994 (continued).

County	Total Injuries						Work-Related Injuries						Leisure-Related Injuries						Total Fatalities					
	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994
Floyd	16	24	17	27	19	103	16	16	11	15	15	73	0	8	6	12	4	30	1	0	2	0	0	3
Franklin	17	13	13	16	13	72	17	12	11	16	13	69	0	1	2	0	0	3	2	0	0	1	0	3
Fremont	18	13	10	8	11	60	17	10	7	6	9	49	1	3	3	2	2	11	2	2	0	0	0	4
Greene	14	24	41	27	36	142	14	24	39	26	33	136	0	0	2	1	3	6	0	0	1	1	0	2
Grundy	22	6	13	30	17	88	20	5	12	24	16	77	2	1	1	6	1	11	0	0	0	0	0	0
Guthrie	14	11	25	16	13	79	13	10	22	16	12	73	1	1	3	0	1	6	0	0	1	0	0	1
Hamilton	7	11	16	26	3	63	6	10	14	16	2	48	1	1	2	10	1	15	0	1	0	1	0	2
Hancock	14	24	35	33	34	140	13	23	32	33	29	130	1	1	3	0	5	10	0	1	0	0	1	2
Hardin	19	18	13	26	22	98	18	18	11	18	20	85	1	0	2	8	2	13	0	0	0	1	0	1
Harrison	38	34	32	9	7	120	33	31	26	7	7	104	5	3	6	2	0	16	1	0	0	0	1	2
Henry	13	4	18	22	18	75	12	3	16	17	18	66	1	1	2	5	0	9	0	0	3	2	0	5
Howard	35	37	55	41	9	177	32	35	47	38	8	160	3	2	8	3	1	17	0	1	0	2	0	3
Humboldt	66	79	56	20	4	225	47	66	42	17	4	176	19	13	14	3	0	49	0	0	0	0	1	1
Ida	1	4	22	11	6	44	0	4	22	10	5	41	1	0	0	1	1	3	0	0	0	0	1	1
Iowa	22	41	44	54	43	204	18	39	36	44	38	175	4	2	8	10	5	29	0	0	0	0	2	2
Jackson	18	27	23	15	35	118	16	19	14	13	34	96	2	8	9	2	1	22	1	1	4	5	2	13
Jasper	34	17	39	33	36	159	28	13	37	30	29	137	6	4	2	3	6	21	2	0	4	1	0	7
Jefferson	32	36	29	45	23	165	28	27	22	32	19	128	4	9	7	13	4	37	1	0	1	0	0	2
Johnson	34	38	66	41	45	224	21	32	41	38	41	173	13	6	25	3	4	51	1	0	2	0	1	4
Jones	32	22	20	28	37	139	28	19	18	26	37	128	4	3	2	2	0	11	1	3	0	1	1	6
Keokuk	36	46	51	36	42	211	32	40	45	28	36	181	4	6	6	8	6	30	2	1	0	0	0	3
Kossuth	16	21	14	28	27	106	16	19	13	22	25	95	0	2	1	6	2	11	0	1	1	1	2	5
Lee	58	60	55	57	23	253	40	32	34	36	17	159	18	28	21	21	6	94	0	1	0	0	1	2
Linn	19	7	69	19	19	133	19	7	35	15	17	93	0	0	34	4	1	39	1	0	1	0	1	3
Louisa	9	7	10	5	5	36	9	6	9	5	5	34	0	1	1	0	0	2	0	0	1	0	0	1
Lucas	12	3	4	12	3	34	12	3	3	11	3	32	0	0	1	1	0	2	1	1	0	0	0	2
Lyon	24	25	14	21	24	108	19	25	14	21	24	103	5	0	0	0	0	5	0	0	0	2	1	3
Madison	33	7	17	20	7	84	19	7	9	15	5	55	14	0	8	5	2	29	0	0	0	3	0	3
Mahaska	42	38	48	25	15	168	31	31	39	25	13	139	11	7	9	0	2	29	0	0	1	0	1	2
Marion	22	28	15	23	9	97	19	25	14	21	9	88	3	3	1	2	0	9	2	1	0	2	3	8
Marshall	47	24	32	22	12	137	41	22	26	21	12	122	6	2	6	1	0	15	3	0	1	0	1	5
Mills	2	7	12	23	7	51	2	6	11	21	6	46	0	1	1	2	1	5	0	0	0	1	0	1
Mitchell	7	11	28	23	*	.	6	11	26	20	.	.	1	0	2	3	.	.	0	1	2	0	.	.

Table 1. Farm-Related Injuries and Fatalities in Iowa Counties, 1990-1994 (continued).

County	Total Injuries						Work-Related Injuries						Leisure-Related Injuries						Total Fatalities					
	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994	1994	1993	1992	1991	1990	1990-1994
Monona	12	8	2	40	9	71	12	8	2	27	8	57	0	0	0	13	1	14	0	2	0	0	2	4
Monroe	9	31	34	45	30	149	7	28	30	37	26	128	2	3	4	8	3	20	0	0	0	1	1	2
Montgomery	10	1	29	25	15	80	8	1	24	22	15	70	2	0	5	3	0	10	0	0	2	1	0	3
Muscatine	16	14	25	12	11	78	16	12	21	12	9	70	0	2	4	0	2	8	2	1	0	0	0	3
O'Brien	31	47	40	50	42	210	24	39	38	42	39	182	7	8	2	8	3	28	0	0	0	0	0	0
Osceola	32	3	8	11	14	68	30	2	7	10	13	62	2	1	1	1	1	6	0	0	2	0	1	3
Page	26	28	21	13	23	111	20	23	19	12	15	89	6	5	2	1	8	22	0	1	0	0	0	1
Palo Alto	4	7	10	10	21	52	3	5	10	10	20	48	1	2	0	0	1	4	0	0	0	0	1	1
Plymouth	13	9	22	19	18	81	11	8	22	16	14	71	2	1	0	3	4	10	1	1	2	1	2	7
Pocahontas	15	13	16	11	18	73	14	12	15	10	15	66	1	1	1	1	3	7	0	0	0	0	2	2
Polk	5	6	10	3	4	28	3	4	7	3	3	20	2	2	3	0	0	7	0	2	0	0	1	3
Pottawattamie	24	35	48	40	25	172	24	32	35	35	17	143	0	3	13	5	8	29	1	3	5	3	4	16
Poweshiek	59	55	45	57	86	302	43	44	36	48	64	235	16	11	9	9	22	67	1	0	2	1	0	4
Ringgold	24	25	26	23	31	129	20	22	23	20	22	107	4	3	3	3	8	21	1	0	1	0	2	4
Sac	21	16	29	9	26	101	18	14	24	8	24	88	3	2	5	1	2	13	0	0	2	0	0	2
Scott	8	20	4	7	4	43	7	14	2	5	4	32	1	6	2	2	0	11	1	0	0	0	0	1
Shelby	12	13	12	28	43	108	12	13	12	27	38	102	0	0	0	1	5	6	1	0	0	1	3	5
Sioux	110	64	109	118	89	490	103	60	84	99	69	415	7	4	25	19	19	74	3	0	1	1	1	6
Story	6	16	47	31	19	119	6	15	42	28	18	109	0	1	5	3	1	10	0	2	1	1	0	4
Tama	54	23	48	49	17	191	43	18	42	41	14	158	11	5	6	8	3	33	1	0	0	3	1	5
Taylor	25	28	20	10	13	96	19	25	16	6	9	75	6	3	4	4	4	21	0	0	0	1	0	1
Union	6	13	10	16	12	57	4	12	8	10	11	45	2	1	2	6	1	12	1	0	0	0	0	1
Van Buren	28	26	41	32	33	160	24	20	34	26	29	133	4	6	7	6	4	27	0	0	0	1	1	2
Wapello	43	48	47	36	27	201	32	32	35	28	24	151	11	16	12	8	3	50	0	0	0	1	0	1
Warren	6	5	10	5	13	39	5	4	8	4	10	31	1	1	2	1	3	8	2	0	2	1	1	6
Washington	63	51	57	39	39	249	56	48	56	32	35	227	7	3	1	7	3	21	0	0	4	0	1	5
Wayne	37	37	35	69	15	193	24	29	25	51	13	142	13	8	10	18	2	51	1	0	0	0	0	1
Webster	22	38	83	12	2	157	15	29	68	8	2	122	7	9	15	4	0	35	2	1	2	0	0	5
Winnebago	1	4	22	11	10	48	1	3	19	8	9	40	0	1	3	3	1	8	0	2	1	2	0	5
Winneshiak	109	90	123	111	55	488	98	83	113	93	39	426	11	7	10	18	16	62	0	0	0	0	5	5
Woodbury	3	8	12	12	6	41	2	8	11	7	6	34	1	0	1	5	0	7	1	0	0	0	4	5
Worth	2	.	4	3	4	.	2	.	4	3	3	.	0	.	0	0	1	.	0	.	0	1	1	.
Wright	13	8	20	15	9	65	12	6	16	12	8	54	1	2	4	3	1	11	1	1	0	0	2	4
State of Iowa	2433	2304	3075	2636	2166	12614	2046	1971	2507	2181	1880	10585	387	333	568	455	277	2020	66	51	83	69	84	353

## Marriages and Dissolutions in Iowa's Counties:

1980-1994

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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 22,924 marriages in 1994, 102 more than in 1993 (Table 1, Figure 1). This was only the fourth time since 1980 that there was an increase in marriages over the previous year; declines occurred each year from 1989 through 1993.

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 1994, Polk's 3,112 marriages constituted the highest number in any county. Linn and Scott also had more than 1,000 marriages that year. Seven counties (Black Hawk, Chickasaw, Dubuque, Johnson, Pottawattamie, Story, Woodbury) recorded 500 to 999 marriages, 14 were between 200 and 499, and 35 counties had 100 to 199 marriages. Forty counties had fewer than 100 marriages in 1994; the lowest number was in Adams (29).

Fifty of the counties followed the state trend with more marriages in 1994 than in 1993. Six counties (Clinton, Dubuque, Johnson, Polk, Pottawattamie, Woodbury) increased by at least 50 marriages. Declines greater than 50 occurred in Chickasaw, Muscatine, and Scott.

More than 3,400 fewer marriages occurred in Iowa in 1994 than in 1984. Ninety-one counties mirrored this trend. Five (Chickasaw, Clinton, Des Moines, Pottawattamie, Scott) had at least 100 fewer marriages in 1994 than in 1984. Increases occurred in eight counties, with Van Buren (+20) gaining the most marriages when the numbers for 1984 and 1994 were compared.

### Dissolutions

There were 10,885 dissolutions in Iowa in 1994, 185 more than in 1993. Between 1980 and 1994 there were seven 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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	59	34	43	49	63	49	59	51	58	62	82	54	60	74	57
Adams	29	31	20	24	24	35	41	38	40	43	38	34	45	43	36
Allamakee	129	121	123	110	134	133	118	115	121	133	150	144	139	150	149
Appanoose	130	129	131	121	157	113	112	104	115	125	112	130	106	119	129
Audubon	42	49	47	45	48	48	65	54	42	49	71	82	74	70	64
Benton	150	174	159	150	156	157	153	168	178	160	169	163	158	189	190
Black Hawk	974	1007	865	935	1074	1097	958	948	913	1044	1066	1130	1115	1144	1256
Boone	164	179	196	208	179	202	224	192	194	216	209	205	209	224	235
Bremer	160	182	183	162	169	203	186	196	167	175	209	206	198	191	224
Buchanan	140	162	159	178	174	174	165	141	147	183	170	220	206	213	216
Buena Vista	136	150	167	149	164	165	164	155	163	180	171	188	189	173	207
Butler	92	87	98	111	97	81	101	113	103	107	123	127	124	134	122
Calhoun	67	65	72	70	80	71	69	77	84	76	110	93	99	119	117
Carroll	178	155	155	147	189	191	177	187	167	163	206	232	247	214	240
Cass	114	109	122	119	150	141	141	117	126	145	181	162	181	187	160
Cedar	118	129	153	117	139	121	118	122	117	103	134	140	148	176	156
Cerro Gordo	365	347	375	384	406	371	346	327	357	375	361	388	448	395	411
Cherokee	96	94	94	125	94	107	112	102	105	105	124	139	152	164	136
Chickasaw	601	690	630	721	806	751	800	741	775	791	897	963	915	910	850
Clarke	68	55	53	67	59	73	53	54	48	58	64	94	66	56	72
Clay	103	110	127	130	162	123	159	119	104	132	143	149	149	178	144
Clayton	121	136	155	141	149	162	160	144	151	154	166	164	182	186	204
Clinton	461	400	437	464	447	591	677	454	454	554	571	540	624	553	560
Crawford	141	132	128	142	131	119	141	134	144	135	152	176	142	149	163
Dallas	237	230	175	219	229	228	208	213	216	227	248	252	206	250	230
Davis	61	66	72	58	57	69	53	61	73	57	72	68	85	74	68
Decatur	66	59	81	60	67	66	70	80	72	80	75	74	71	75	81
Delaware	132	118	127	116	137	149	159	162	146	140	162	162	177	141	191
Des Moines	366	380	427	460	487	572	532	425	415	402	491	449	516	477	457
Dickinson	152	141	149	158	130	147	133	136	111	135	150	153	133	144	122
Dubuque	879	796	865	875	888	938	968	887	864	894	920	886	966	917	949
Emmet	87	78	81	93	107	87	86	109	100	96	115	95	116	107	104
Fayette	132	156	169	160	193	185	175	157	177	185	182	181	225	219	201
Floyd	119	124	124	133	134	123	128	120	137	155	160	145	152	176	153
Franklin	71	75	70	89	73	73	78	80	60	87	100	89	92	116	79
Fremont	81	71	72	54	75	73	67	71	66	52	80	81	65	71	80
Greene	76	73	66	93	107	104	84	74	84	73	86	99	99	99	105
Grundy	82	80	60	72	76	91	83	62	82	92	101	94	102	90	91
Guthrie	80	82	85	82	106	87	98	85	92	75	92	92	98	97	112
Hamilton	136	123	143	124	129	148	126	132	127	125	146	158	181	146	170
Hancock	75	84	93	93	95	82	80	77	101	101	100	101	103	112	101
Hardin	145	153	140	137	136	153	150	135	174	172	207	174	172	195	195
Harrison	100	105	114	130	124	134	117	111	122	136	145	145	137	131	147
Henry	158	152	171	164	156	171	183	168	158	167	168	166	158	171	164
Howard	74	61	70	83	75	88	94	68	81	92	106	92	98	82	104
Humboldt	91	82	64	90	89	67	97	83	75	82	109	98	109	100	107
Ida	46	65	51	46	63	61	53	63	45	59	66	61	67	65	69
Iowa	104	90	123	110	129	106	113	85	87	102	118	134	116	145	138
Jackson	157	157	192	148	184	195	188	198	181	176	177	200	214	218	238
Jasper	269	264	264	260	289	271	289	295	273	298	296	290	319	307	344

Table 1. Marriages in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	129	140	171	150	158	155	159	142	139	144	170	184	198	156	144
Johnson	710	637	653	685	770	774	721	668	677	697	734	746	727	706	731
Jones	135	145	144	145	155	146	157	137	163	159	138	169	162	187	169
Keokuk	69	72	64	84	101	77	76	91	66	99	111	118	90	107	122
Kossuth	142	117	131	119	154	145	143	138	134	152	160	188	212	179	182
Lee	383	368	359	365	396	487	437	373	372	412	446	423	407	399	442
Linn	1436	1471	1516	1493	1525	1519	1505	1386	1365	1453	1507	1436	1532	1588	1562
Louisa	83	61	82	76	69	92	96	85	93	91	101	89	97	107	74
Lucas	55	46	66	64	70	64	83	59	77	72	89	98	97	68	95
Lyon	61	86	87	71	77	78	78	81	91	90	101	102	120	117	116
Madison	103	126	97	82	97	101	91	87	79	66	104	108	103	96	100
Mahaska	201	175	202	195	189	201	194	183	167	179	202	212	214	213	201
Marion	227	252	239	251	326	258	242	249	259	246	272	266	279	283	296
Marshall	343	330	353	339	341	346	349	298	302	339	365	360	402	371	378
Mills	94	96	80	92	105	98	98	69	81	82	107	134	135	115	101
Mitchell	65	77	68	75	93	80	77	61	80	93	111	103	99	127	101
Monona	61	82	72	86	83	85	82	72	75	72	87	94	116	89	127
Monroe	83	72	63	68	73	61	65	61	67	77	76	81	77	85	83
Montgomery	96	104	100	113	99	97	106	90	84	103	101	141	111	117	105
Muscatine	322	410	355	402	421	429	373	340	415	383	375	412	444	454	398
O'Brien	111	107	109	97	120	124	113	88	107	119	112	122	139	149	139
Osceola	44	51	46	55	58	66	57	53	42	47	51	59	73	64	58
Page	130	146	130	111	144	107	136	136	136	137	163	148	170	136	154
Palo Alto	69	61	70	94	87	73	78	87	92	97	96	105	108	115	131
Plymouth	146	155	165	188	169	170	179	162	154	172	183	233	239	228	197
Pocahontas	42	54	54	56	57	70	76	82	51	84	95	96	93	79	94
Polk	3112	3040	3013	3001	3217	3187	3108	2966	2928	2987	3130	3133	3114	3150	3118
Pottawattamie	787	731	772	819	938	894	877	877	901	961	1085	1192	1052	998	978
Poweshiek	132	129	149	143	154	143	121	111	137	141	152	141	146	148	169
Ringgold	45	43	30	39	39	36	44	29	37	44	58	51	57	49	60
Sac	82	77	71	93	94	101	82	89	76	110	109	97	96	117	118
Scott	1300	1385	1391	1484	1354	1726	1910	1353	1427	1505	1483	1484	1483	1523	1614
Shelby	98	125	87	111	120	125	100	118	105	115	136	146	157	153	146
Sioux	229	231	203	222	221	208	223	225	225	246	245	214	250	247	277
Story	510	496	517	468	490	513	511	491	475	527	530	538	573	566	589
Tama	107	112	127	122	143	144	125	121	125	131	134	174	138	142	139
Taylor	48	58	52	50	55	50	50	47	48	43	67	70	62	71	60
Union	112	93	115	123	113	121	98	99	108	101	101	112	120	121	164
Van Buren	69	47	57	53	56	57	53	55	46	55	49	62	52	73	87
Wapello	320	334	351	363	365	317	353	309	353	369	392	365	424	409	396
Warren	281	291	307	292	333	304	273	260	278	288	284	315	316	311	329
Washington	158	157	153	153	137	140	146	152	145	135	176	187	165	181	162
Wayne	48	55	47	47	51	56	57	63	50	43	75	60	64	57	73
Webster	333	313	323	330	354	345	372	338	371	365	411	417	442	405	407
Winnebago	95	73	94	99	87	74	90	95	90	100	114	116	116	106	113
Winneshiek	149	149	158	130	180	158	147	171	160	151	184	170	188	204	185
Woodbury	815	716	761	714	760	752	738	674	705	802	844	812	758	843	883
Worth	45	45	51	48	66	63	48	63	62	54	74	75	71	69	57
Wright	95	89	84	97	81	104	82	88	99	112	125	149	148	139	152
State of Iowa	22924	22822	23129	23533	24931	25267	25090	23062	23311	24578	26366	26769	27189	27153	27474

Table 2. Dissolutions in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	27	26	30	21	30	24	22	26	26	27	39	26	24	20	34
Adams	16	20	14	18	18	11	15	17	23	17	9	27	11	20	11
Allamakee	32	52	44	31	26	38	24	30	32	43	33	32	25	43	29
Appanoose	53	53	67	64	54	66	62	34	56	51	55	66	82	50	59
Audubon	22	18	20	15	23	10	22	15	19	14	21	17	20	29	22
Benton	81	66	64	80	68	81	79	65	53	58	45	45	50	63	39
Black Hawk	405	490	553	496	493	523	514	476	496	512	564	560	539	670	671
Boone	120	110	97	123	96	104	106	120	102	113	95	104	97	114	133
Bremer	59	84	73	66	70	54	57	56	59	65	76	85	74	79	70
Buchanan	60	63	51	64	67	56	69	54	53	59	61	41	62	72	64
Buena Vista	67	49	57	75	75	63	57	56	68	63	54	50	58	72	59
Butler	40	38	36	40	45	33	42	31	38	42	42	44	37	30	35
Calhoun	43	28	31	27	39	27	23	27	39	40	32	35	33	37	39
Carroll	65	62	74	66	48	78	48	56	53	52	52	47	47	53	65
Cass	53	61	57	50	56	61	60	60	50	60	67	57	67	55	52
Cedar	44	61	49	64	47	69	53	65	55	55	39	65	67	64	67
Cerro Gordo	186	198	159	179	166	186	158	186	196	164	191	183	154	228	161
Cherokee	47	45	36	45	48	50	51	55	36	45	63	54	40	45	46
Chickasaw	32	37	40	43	28	29	42	37	30	34	32	34	36	38	38
Clarke	44	38	39	29	44	39	40	51	22	25	30	37	21	60	38
Clay	71	82	68	75	87	72	62	59	82	70	63	85	76	86	83
Clayton	56	43	53	41	41	44	44	33	45	49	43	54	49	65	59
Clinton	183	155	196	204	191	152	201	175	179	241	218	240	258	256	245
Crawford	65	65	63	67	73	77	62	62	75	53	66	57	64	60	64
Dallas	160	119	112	126	116	111	128	147	104	123	118	107	115	116	121
Davis	33	30	27	32	37	26	31	21	26	36	28	38	28	39	32
Decatur	28	23	31	36	29	32	28	23	31	24	29	33	36	44	37
Delaware	44	41	54	52	41	48	49	28	26	40	34	33	38	56	35
Des Moines	123	157	167	184	188	162	194	167	199	170	182	134	182	171	178
Dickinson	51	57	58	72	63	70	53	52	60	53	50	42	46	67	78
Dubuque	278	307	275	302	315	274	240	265	251	258	261	231	260	268	293
Emmet	38	42	26	26	37	38	33	34	32	38	44	27	37	43	57
Fayette	68	61	74	55	82	64	64	52	54	44	67	56	40	60	64
Floyd	82	48	41	52	57	57	56	55	51	56	56	60	76	59	82
Franklin	40	37	39	36	32	32	34	30	28	38	37	35	35	48	47
Fremont	36	30	40	40	33	31	30	25	32	36	26	27	41	48	29
Greene	41	46	31	41	38	40	40	52	39	30	22	32	33	27	33
Grundy	38	35	39	22	27	27	21	31	21	33	30	28	18	36	35
Guthrie	48	58	46	41	42	40	44	41	38	33	34	40	41	39	38
Hamilton	68	76	87	55	66	60	56	61	58	50	55	65	57	57	56
Hancock	32	31	24	40	26	21	33	33	32	29	32	33	36	43	35
Hardin	68	71	60	74	69	68	73	46	52	67	58	62	58	71	62
Harrison	50	49	58	46	61	57	54	58	57	63	56	62	75	61	58
Henry	87	82	96	99	86	73	90	66	52	56	64	59	55	65	61
Howard	27	16	29	33	27	19	30	23	24	23	22	23	22	21	16
Humboldt	41	45	32	37	29	39	31	34	24	28	39	40	31	32	38
Ida	22	42	29	36	17	24	27	24	27	20	17	21	30	23	24
Iowa	49	43	46	38	49	52	37	20	40	29	45	31	42	34	39
Jackson	67	63	76	63	53	50	62	68	38	53	48	31	45	57	41
Jasper	84	124	128	145	156	158	131	165	144	123	117	123	132	167	154

Table 2. Dissolutions in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	111	96	112	94	85	90	69	76	90	98	82	84	77	71	64
Johnson	298	238	283	253	237	216	216	286	224	270	289	313	319	305	331
Jones	57	54	67	57	69	55	54	61	50	59	65	45	51	73	56
Keokuk	21	26	26	25	12	31	28	28	20	21	21	21	29	39	24
Kossuth	37	48	43	44	40	38	44	40	44	37	49	34	44	56	49
Lee	157	157	168	143	203	151	191	179	155	174	186	174	183	216	218
Linn	600	648	655	647	606	566	608	548	531	584	576	540	541	559	579
Louisa	61	54	52	44	43	54	51	39	48	40	37	37	40	44	59
Lucas	47	46	46	47	39	40	40	38	31	51	38	35	48	45	48
Lyon	27	21	16	19	11	19	26	15	19	24	13	20	13	18	18
Madison	44	49	47	54	62	50	42	56	32	35	27	53	41	53	45
Mahaska	124	116	118	132	125	96	115	81	72	108	107	99	89	103	100
Marion	118	139	107	106	127	122	114	137	111	109	122	98	106	113	112
Marshall	191	194	221	182	195	174	201	166	163	160	152	190	185	193	219
Mills	56	58	53	47	54	48	50	41	60	31	59	54	40	65	62
Mitchell	37	27	25	29	27	20	23	25	19	23	24	28	17	22	21
Monona	43	33	29	26	25	32	44	27	34	29	26	37	20	45	39
Monroe	38	31	32	37	38	28	29	26	19	23	27	24	30	26	26
Montgomery	56	64	58	51	44	68	72	72	64	68	62	42	39	77	69
Muscatine	219	220	255	187	212	219	244	279	225	212	225	229	238	227	227
O'Brien	35	45	39	40	41	35	45	44	28	37	32	28	29	40	28
Osceola	13	19	14	17	16	18	13	11	16	11	12	17	16	19	8
Page	76	70	90	89	70	75	60	67	75	75	63	99	69	109	73
Palo Alto	33	28	20	22	22	29	21	18	28	29	34	31	34	27	35
Plymouth	59	64	74	56	65	47	72	51	53	63	63	56	42	54	55
Pocahontas	23	20	29	21	30	27	31	26	18	18	27	32	29	22	33
Polk	1761	1608	1709	1810	1642	1665	1780	1705	1707	1716	1578	1571	1703	1888	1919
Pottawattamie	418	446	499	466	465	465	468	439	488	446	434	429	465	553	513
Poweshiek	69	70	77	69	71	82	60	60	75	58	58	82	55	55	48
Ringgold	15	14	17	18	21	21	16	16	17	10	28	28	20	30	17
Sac	31	39	30	37	32	29	28	32	37	29	30	31	38	33	35
Scott	719	679	677	649	725	664	735	777	743	747	736	804	873	962	984
Shelby	36	35	44	39	37	41	40	36	33	31	33	37	31	53	39
Sioux	48	57	48	53	48	41	55	33	46	42	46	52	40	31	48
Story	231	172	124	212	208	211	212	203	195	165	207	226	253	258	241
Tama	62	51	54	49	58	65	51	53	56	45	56	51	58	58	46
Taylor	24	27	17	20	12	15	22	25	29	30	25	30	19	28	19
Union	64	52	54	51	74	63	46	46	63	45	60	65	77	64	72
Van Buren	30	28	31	36	40	26	30	32	32	27	22	23	25	30	17
Wapello	188	158	148	197	204	157	177	169	166	209	224	206	210	228	215
Warren	134	144	133	135	149	128	130	155	122	133	120	121	140	146	138
Washington	67	64	68	79	86	60	70	61	70	76	66	68	66	70	43
Wayne	14	24	28	22	30	32	17	25	19	16	31	17	33	28	21
Webster	174	203	163	173	177	184	174	197	167	148	168	174	169	189	188
Winnebago	39	43	46	34	35	31	29	27	39	36	49	21	34	35	48
Winneshiek	48	41	41	43	50	45	67	41	65	68	48	49	46	48	51
Woodbury	464	428	467	443	447	449	451	409	429	474	431	490	475	526	540
Worth	28	21	30	21	23	20	22	27	16	23	19	18	19	26	22
Wright	66	54	44	48	72	45	43	55	54	57	61	57	51	50	66
State of Iowa	10885	10700	10924	10939	10913	10507	10808	10527	10324	10525	10509	10588	10869	12071	11854

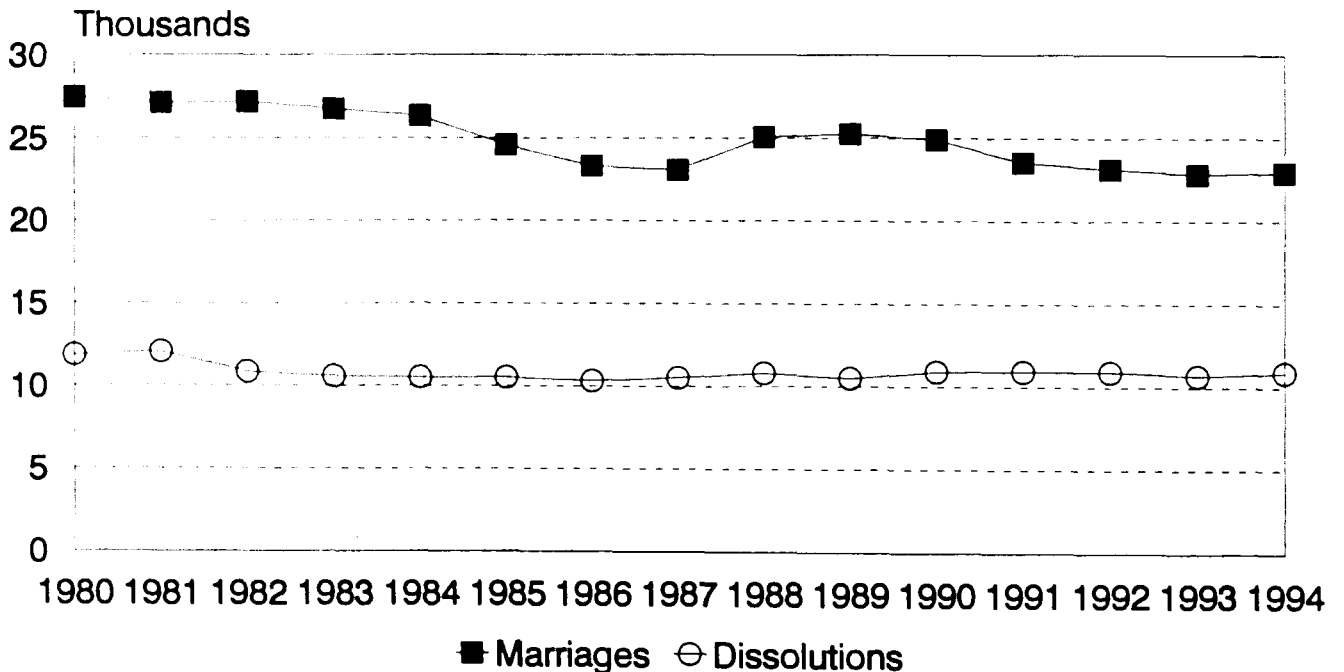
Dissolutions were highest in 1994 in Polk, the only county with more than 1,000. Other counties with at least 400 dissolutions that year were Black Hawk, Linn, Pottawattamie, Scott, and Woodbury. Seventeen counties had between 100 and 399 dissolutions, 30 recorded 50 to 99, and 46 counties had fewer than 50. Adams, Osceola, Ringgold, and Wayne were the only counties with fewer than 20 dissolutions.

Between 1993 and 1994, the number of dissolutions remained the same in three counties, decreased in 42, and increased in 54. Increases were 10 or more in 21 counties, although a gain greater than 60 occurred only in Polk (+153). Among the counties with fewer dissolutions in 1994 than in 1993, 31 declined by less than 20. The largest drop occurred in Black Hawk (-85), the only county where the number of dissolutions declined by at least 50.

Across the state, there were 376 more dissolutions in 1994 than in 1984. More than half (61) the counties followed that trend. Thirty-four counties had fewer dissolutions at the end of the period than at the beginning, while four had the same number both years. Only Black Hawk had at least 100 fewer dissolutions in 1994 than in 1984. Among counties that had more dissolutions at the end than the beginning of the period, most showed relatively low gains. Only Polk had at least 100 more dissolutions in 1994 than in 1984.

**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, 1980-1994.



## **Estimated Employment and Unemployment in Iowa's Counties: 1979-1994**

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Iowa's labor force was estimated to include 1,570,000 people in 1994, which is the highest figure reported for the period included in Table 1 (1979-1994). Although the state's labor force grew from 1979 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 generally occurred. 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 1994, Polk county had 208,600 in the labor force, nearly double the next highest county (Linn, 105,400). Adams and Ringgold, in contrast, reported fewer than 3,000 in the labor force. Polk's labor force increased by 41,800 between 1984 and 1994. Black Hawk, Dubuque, Johnson, Linn, Scott, Story, and Woodbury each had gains of more than 5,000. Although Iowa had 155,000 more people in the labor force in 1994 than in 1984, 30 counties had a smaller labor force at the end of the period. Of these 30 counties, only Cass and Wright had declines greater than 1,000.

### **Employment**

Employment in Iowa in 1994 (1,508,000) was 20,000 above that for 1993 (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 1994 show that the state rebounded from employment losses from 1979 through 1982 and from 1984 to 1985.

In Iowa's counties in 1994, the number employed ranged from under 3,000 in Adams and Ringgold to 202,000 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 1994; another 29 had employment totals ranging from 10,000 to 49,000.

The state had 196,000 more employed persons in 1994 than in 1984, an increase of 14.9 percent. Polk increased the most (+45,400) and Linn was second (+24,100); Black Hawk, Johnson, and Scott were the only other counties gaining at least 10,000 employees. Black Hawk, Johnson, Linn, Polk, and Scott together accounted for more than half (52.8%) of the state's gain in employment from 1984 to 1994. Twenty-three counties had lower numbers employed in 1994 than in 1984. Only Wright had a decrease of at least 1,000.

Between 1984 and 1994, employment increased more than 25 percent in five counties (Dubuque, Linn, Louisa, Madison, Polk), with the greatest percentage increase occurring in Louisa (+37.4%). A percentage decline from 1984 to 1994 of at least 10 percent occurred in Adams, Fremont, Lucas, Pocahontas, and Wright.

Table 1. Labor Force Estimates in Iowa Counties, 1979-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Adair	4330	4100	4170	4500	4520	4550	4620	4410	4450	4430	4420	4560	4440	4450	4560	4600
Adams	2460	2350	2410	2970	2990	3100	3190	3050	2920	2870	3030	2780	2660	2590	2690	2640
Allamakee	7690	7430	7390	7440	7380	7680	7630	7470	7510	7390	7380	7150	6990	6920	7040	7160
Appanoose	6820	6720	6680	6750	6440	6530	6600	6320	6150	5850	5910	5780	6020	6020	6110	6150
Audubon	3720	3640	3810	3690	3600	3510	3490	3490	3660	3740	3880	4090	4050	4100	4060	4110
Benton	11850	11910	11380	10530	10960	10790	10800	10230	10730	10650	10660	10830	10940	10910	11200	11040
Black Hawk	67900	68800	65900	62800	61100	61400	60600	58060	59220	59880	61710	64950	67170	68690	69500	68920
Boone	13730	13440	12990	12460	12410	12800	12890	12040	12250	11940	12070	12310	12090	12290	12300	12570
Bremer	12400	12500	12200	11800	11500	10700	10500	10120	10120	10190	10590	11190	10720	10610	10920	10640
Buchanan	10760	10380	10020	10160	9870	9950	10080	9810	9970	9900	10130	11270	11110	10910	11250	10940
Buena Vista	11090	11030	10770	11730	11120	11350	11630	11090	10940	10990	10930	11110	10330	10560	10750	10570
Butler	8320	8010	7940	7610	7360	7450	7350	7470	7660	7730	7920	8140	7820	7880	8290	8190
Calhoun	5240	5370	5170	5590	5500	5510	5560	5450	5580	5660	5790	6150	6200	6200	6240	6120
Carroll	12090	11870	11510	11850	11610	11720	11440	11120	11160	11080	11200	12270	12050	12180	11700	11610
Cass	7760	7790	7690	8030	8120	8520	8400	8260	8340	8510	8780	9250	8970	8910	8890	8920
Cedar	9640	9580	9250	9690	9580	9670	9560	9030	8980	8880	9020	8440	8520	8290	8370	8550
Cerro Gordo	25880	25860	25320	26690	26020	26370	26490	25610	25570	25450	24710	24110	23920	24620	24090	24200
Cherokee	7030	6990	6910	7050	6910	7010	7120	7100	7510	7450	7550	7740	7610	7630	7710	7830
Chickasaw	7800	7450	7260	7220	7220	7320	7220	7170	7320	7470	7340	7330	7130	7170	7340	7100
Clarke	4010	3950	4180	4630	4500	4590	4440	4200	4140	4010	3920	4700	4550	4710	4820	4570
Clay	9670	9300	8990	8920	9040	9270	9240	8780	8750	8890	9150	9810	9900	10080	10240	10340
Clayton	9620	9520	9550	9770	9850	10200	10220	9770	10010	9930	10110	10540	10320	10250	10300	10460
Clinton	26940	27130	26910	24000	23450	23820	23790	23030	23230	23260	23940	25570	26570	26960	28050	27630
Crawford	8920	8860	8630	8400	8460	8980	9200	9120	9150	9060	9240	10470	10230	10130	9840	9810
Dallas	17700	17500	16900	17100	16800	17000	16300	15480	15200	15020	15820	15520	13560	13300	13450	13180
Davis	4260	4220	4070	3870	3810	3840	3870	3740	3860	3680	3760	3700	3720	3690	3600	3650
Decatur	4000	3960	3890	3890	3830	3930	3820	3940	4070	4230	4090	3980	4160	4070	4160	3960
Delaware	9420	8990	9060	8980	8880	8880	8720	8410	8420	8490	8760	9140	8960	8880	8950	8790
Des Moines	23800	23300	22900	22970	22530	23100	23020	22480	22120	21410	21520	19060	19240	19600	19720	19540
Dickinson	9440	9450	8790	10410	10050	9780	9340	8770	8650	8510	8670	7700	7480	7430	7380	7560
Dubuque	49700	49700	48000	45800	44400	44900	44700	43590	43360	42330	41900	42750	43100	44980	45670	45590
Emmet	5790	5800	5750	5170	5030	5050	5100	5070	5220	5410	5690	5920	6160	6340	6280	6260
Fayette	11350	10750	10640	10540	10410	10550	10610	10380	10870	11130	11470	11530	11420	11370	11560	11790

Table 1. Labor Force Estimates in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Floyd	8470	8700	8730	8570	8530	8730	8720	8410	8390	8470	8620	7680	7740	7750	7980	8130
Franklin	6170	5790	5800	5120	5240	5290	5340	5480	5710	5770	5670	6300	6350	6280	6540	6490
Fremont	4070	3980	3810	4070	4120	4300	4300	4290	4350	4590	4830	6030	5820	5800	5580	5620
Greene	5160	5260	5240	5020	4900	5230	5190	5190	5290	5320	5400	5350	5320	5300	5640	5660
Grundy	6200	6130	6020	6770	6740	6770	6670	6480	6660	6750	6980	6410	6290	6170	6200	6190
Guthrie	5830	5840	5620	5460	5340	5390	5260	5210	5370	5320	5280	5750	5670	5590	5750	5530
Hamilton	8570	8460	8670	10040	9840	10400	10200	9420	9420	9150	9270	9160	8990	8960	8650	8720
Hancock	6100	5810	5920	6130	6390	6430	6350	6070	6130	6180	6100	6680	6740	7070	7120	7280
Hardin	9740	9500	9460	9780	9710	9580	9760	9790	9950	9960	10120	10880	10860	10950	10890	10970
Harrison	7610	7610	7350	6980	6890	6960	7040	6800	6830	6930	7080	7460	7330	7130	7180	7220
Henry	11110	10690	10440	12210	12080	12280	11830	10910	10440	9970	9460	10000	9860	9940	9900	10120
Howard	5300	4840	4880	5040	4970	5030	5090	4970	4990	5060	5030	5520	5400	5390	5610	5470
Humboldt	5380	5220	5130	5380	5380	5330	5510	5260	5430	5510	5550	5510	5430	5520	5460	5550
Ida	4150	4030	3830	4480	4670	4740	4720	4370	4210	4160	4150	4480	4320	4170	4250	4450
Iowa	9290	9250	8890	8640	8300	8620	8370	8140	8100	8050	8270	8970	8650	8970	9250	8940
Jackson	11050	10890	10580	11100	10820	10880	10800	10270	9980	10100	10130	10480	10390	10300	10390	10380
Jasper	18500	18000	17860	18140	18110	17950	18120	17710	17220	17380	17370	16010	15870	16040	16420	16390
Jefferson	9730	9440	8960	9120	8980	9220	9180	8470	8530	8080	7980	7490	7570	7720	7840	7850
Johnson	65000	63700	60200	62000	60900	62000	60600	59520	58130	54750	53960	48280	45980	44620	43720	42860
Jones	9540	9340	9520	9440	9450	9430	9150	8850	8870	8750	8780	9780	9910	9690	10020	9920
Keokuk	5150	5100	5220	5490	5580	5820	5700	5540	5830	5940	5770	5320	5310	5220	5240	5410
Kossuth	8880	8750	8880	9040	9090	9250	9190	9080	9560	9780	9760	11170	11060	11090	11410	11490
Lee	19630	19380	19380	18850	18310	18450	18520	18450	18700	18630	18810	20210	20620	21390	21430	21760
Linn	105400	104200	99200	97000	96600	97700	96500	91790	89340	85720	83960	84650	85570	87890	89620	88490
Louisa	6510	6550	6400	8220	7970	7800	7790	6610	5860	5110	4960	4890	5600	6160	5370	4550
Lucas	4340	4360	4400	5000	4980	4940	4930	4810	4950	5000	4990	4670	4620	4630	4550	4570
Lyon	5850	5930	5870	6170	6180	6170	6040	5780	5890	5590	5720	6130	6080	6020	6360	6450
Madison	7440	7070	6470	6180	6170	6170	6290	5970	5800	5570	5640	5700	5720	5780	5860	5960
Mahaska	11360	11110	10750	10580	10470	10500	10540	10180	10150	10060	9940	9790	9660	9850	9940	10320
Marion	17050	17000	16260	16410	16270	16370	16190	15560	15010	14260	13930	16170	15940	16330	16270	16000
Marshall	21220	20460	20140	20260	20090	20280	19950	19350	19920	19720	20510	19570	19680	19320	19370	19110
Mills	6830	6760	6700	5540	5420	5610	5620	5460	5570	5850	6050	6450	6570	6410	6410	6420
Mitchell	5740	5460	5270	5700	5700	5830	5770	5640	5760	5760	5650	6120	6090	6070	6000	5930



Table 1. Labor Force Estimates in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Monona	5200	5220	4830	4630	4650	4780	4780	4670	4790	4890	5100	5470	5350	5300	5400	5430
Monroe	4210	4060	3920	4200	4070	4000	3700	3670	3710	3870	3810	4330	4400	4930	4850	4940
Montgomery	6270	6010	5960	6120	6290	6460	6130	5870	5900	6080	6320	6480	6370	6350	6570	6690
Muscatine	21510	21740	21330	21600	21590	21630	21400	20980	21070	20760	20480	21610	21640	21510	20360	19800
O'Brien	8100	7930	7640	8180	8040	8080	8070	7760	7750	7720	7900	8270	7970	7770	7880	7730
Osceola	3640	3630	3680	3600	3550	3540	3500	3420	3480	3510	3690	3510	3540	3520	3440	3590
Page	9280	8910	8500	8470	8440	8450	8410	8130	8400	8570	8750	9020	9080	8940	9020	9190
Palo Alto	5340	5340	5180	5110	5050	5240	5230	5190	5190	5380	5640	5630	5510	5400	5480	5380
Plymouth	12910	12870	12540	13400	12810	12510	12490	12140	11900	11720	11650	11490	11320	11320	11420	11440
Pocahontas	4300	4270	4890	4870	4900	4960	4920	4820	4820	4830	5000	4750	4780	4770	4720	4890
Polk	208600	207300	208500	201800	197700	199100	196100	186320	179650	171370	166850	163030	165450	165500	165770	164470
Pottawattamie	47300	46500	46700	45900	45800	48700	48300	47330	46800	44890	46070	41920	42170	41990	41170	43540
Poweshiek	10400	10240	10590	10440	10620	10920	10830	10300	9980	9710	9490	10260	10230	10090	10170	10320
Ringgold	2700	2700	2590	2490	2480	2580	2590	2520	2610	2580	2670	3340	3300	3300	3230	3270
Sac	6130	6040	5640	5530	5500	5690	5690	5560	5700	5710	6030	6200	6250	6220	6390	6400
Scott	83400	85000	85500	83700	81900	82800	83700	81570	80900	75880	72770	72410	74620	75760	75050	73780
Shelby	6840	6740	6830	6810	6700	6850	6910	6690	6890	7050	7060	6820	6730	6750	6570	6460
Sioux	17080	16700	17430	16740	16590	16390	15980	15150	14900	15160	14890	16560	15790	15790	16200	16070
Story	45400	44480	43380	42660	42380	42550	42080	40100	39610	38950	38500	39240	38170	37960	38470	38230
Tama	9490	9110	8400	8500	8620	8870	8920	8870	8860	8680	8440	9800	9740	9430	9680	9610
Taylor	3270	3210	3480	3520	3320	3360	3330	3390	3510	3540	3640	3570	3540	3480	3500	3490
Union	6490	6660	6800	6520	6560	6620	6540	6330	6370	6200	6320	7320	7350	7320	7160	7360
Van Buren	4130	4030	3630	3490	3470	3630	3650	3750	3780	3740	3700	3910	3850	3890	3820	3760
Wapello	18430	18350	16450	16280	15730	15840	15700	15440	16260	16420	16910	16400	16490	16900	17150	17280
Warren	22400	22300	22300	21600	21200	20600	20400	19290	18540	18580	18850	18290	18540	18680	18850	18480
Washington	11230	11060	9850	9650	9500	9520	9510	9470	9600	9580	9690	9740	9630	9810	9880	10040
Wayne	3410	3250	3350	3180	3230	3280	3250	3220	3260	3270	3370	3810	3760	3790	3710	3820
Webster	20210	20120	20930	20610	20460	20810	20800	20200	20570	20880	21180	21600	22000	22530	22920	22950
Winnebago	6880	6670	7320	6850	7300	7640	7790	7350	7120	7250	7330	6260	5820	5690	5860	6800
Winneshiek	12060	11840	13930	13520	13380	13120	12050	12350	12330	11940	11840	12120	11880	11640	11340	10990
Woodbury	55000	54700	54500	53300	51900	52300	51800	51200	49310	48250	48400	46790	45890	47000	46110	48890
Worth	4030	4000	4990	5020	5160	4980	4870	4650	4430	4450	4550	4010	3830	3810	3970	3890
Wright	6970	6940	7890	7870	7760	7970	7790	7500	7640	8000	8350	8240	7980	7660	7630	7870
State of Iowa	1566000	1550000	1551000	1517000	1496000	1513000	1500000	1449000	1439000	1412000	1411000	1420000	1417000	1427000	1432000	1425000

Table 2. Estimates of the Number Employed in Iowa Counties, 1979-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Adair	4180	3960	4030	4350	4380	4380	4480	4260	4250	4220	4220	4310	4250	4270	4370	4450
Adams	2370	2270	2300	2850	2880	3000	3100	2940	2800	2710	2890	2630	2510	2480	2580	2530
Allamakee	7330	7090	6970	7030	6940	7220	7240	6980	6930	6620	6690	6520	6340	6310	6470	6720
Appanoose	6440	6380	6270	6280	5980	6120	6200	5860	5570	5190	5280	5020	5170	5410	5460	5710
Audubon	3610	3550	3700	3580	3460	3380	3370	3310	3380	3420	3600	3830	3840	3910	3910	4000
Benton	11360	11450	10830	9910	10330	10300	10330	9620	9910	9750	9950	9880	9580	10090	10630	10710
Black Hawk	64600	65100	61800	59200	58000	58100	57100	53190	51650	51260	54300	56350	59010	63170	64630	65690
Boone	13230	12950	12420	11910	11950	12300	12430	11410	11480	11160	11400	11390	11220	11670	11730	12140
Bremer	12000	12000	11600	11300	11100	10300	10100	9400	9140	9230	9780	10160	9680	9890	10280	10270
Buchanan	10240	9830	9400	9560	9320	9440	9590	9120	9040	8790	9090	9960	10030	10140	10540	10520
Buena Vista	10770	10710	10470	11500	10890	11100	11310	10720	10450	10450	10440	10560	9580	10090	10410	10320
Butler	7880	7590	7420	7100	6980	7090	6960	6930	6930	6980	7280	7270	7040	7290	7780	7950
Calhoun	5060	5160	4990	5400	5340	5360	5360	5190	5230	5220	5480	5800	5830	5920	6030	5960
Carroll	11710	11500	11160	11410	11120	11180	10940	10480	10370	10190	10540	11500	11160	11370	11070	11220
Cass	7390	7400	7280	7610	7670	8160	8050	7790	7820	7840	8080	8740	8490	8460	8520	8670
Cedar	9350	9270	8910	9380	9290	9370	9200	8630	8450	8280	8570	7890	7940	7950	8090	8360
Cerro Gordo	24710	24550	23820	25320	24690	25110	25160	24140	23750	23390	23010	22220	22020	22860	22610	22950
Cherokee	6790	6790	6680	6840	6700	6770	6860	6660	7000	7050	7190	7360	7210	7200	7420	7620
Chickasaw	7380	7020	6780	6730	6790	6930	6830	6630	6570	6560	6590	6360	6290	6400	6550	6760
Clarke	3740	3620	3900	4300	4250	4350	4160	3930	3790	3650	3600	4350	4150	4380	4520	4380
Clay	9380	9020	8710	8600	8800	9010	8950	8360	8210	8200	8440	9270	9340	9510	9760	9990
Clayton	9050	9000	8970	9190	9300	9630	9640	9110	9190	8860	9190	9570	9270	9410	9480	9960
Clinton	25680	25820	25340	22300	21920	22230	22170	21250	21120	20750	21570	22560	23260	24760	26470	26530
Crawford	8590	8490	8270	8030	7980	8310	8560	8670	8600	8450	8690	9900	9580	9640	9490	9410
Dallas	17200	17000	16300	16500	16200	16000	15700	14800	14230	14140	14980	14480	12580	12460	12670	12690
Davis	4070	4030	3860	3600	3650	3630	3610	3420	3440	3320	3450	3270	3330	3390	3400	3490
Decatur	3760	3670	3590	3670	3620	3800	3630	3700	3750	3930	3830	3650	3910	3850	3960	3800
Delaware	8920	8480	8570	8500	8450	8360	8320	7920	7750	7550	8020	8190	8030	8150	8270	8480
Des Moines	22680	22080	21510	21570	21330	21750	21610	20990	20210	19130	19470	16550	16770	17650	18150	18560
Dickinson	9070	9140	8490	10080	9750	9490	8970	8300	7970	7710	8060	7120	6920	6970	6980	7230
Dubuque	47900	47700	45500	43000	41900	42200	42300	40920	40000	38280	38320	37580	36960	40150	41760	43040
Emmet	5510	5550	5440	4860	4760	4760	4800	4630	4580	4610	5070	5120	5380	5910	5940	6040
Fayette	10890	10240	10030	9960	9930	10080	10120	9710	9880	10000	10470	10370	10220	10610	10780	11220

Table 2. Estimates of the Number Employed in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Floyd	7770	8110	8130	7980	8030	8290	8230	7770	7500	7170	7770	6370	6620	6800	6960	7650
Franklin	5950	5570	5550	4860	4960	5060	5070	5090	5310	5350	5290	5800	5910	6020	6280	6310
Fremont	3930	3780	3590	3870	3970	4140	4130	4090	4050	4200	4470	5740	5550	5620	5440	5490
Greene	4940	5040	5010	4740	4620	4880	4940	4900	4890	4820	4970	4920	4870	4920	5290	5490
Grundy	6000	5940	5790	6540	6550	6580	6410	6200	6260	6340	6600	5920	5910	5930	5920	6040
Guthrie	5600	5600	5370	5160	5090	5060	5060	4930	4960	4940	4960	5420	5320	5270	5480	5350
Hamilton	8290	8150	8240	9660	9410	10030	9900	9040	8860	8570	8710	8570	8450	8450	8250	8420
Hancock	5900	5580	5540	5760	5980	6130	6140	5760	5650	5590	5760	6250	6210	6710	6590	6940
Hardin	9430	9100	8970	9270	9310	9190	9250	9140	9340	9370	9510	10360	10340	10480	10520	10730
Harrison	7260	7250	6930	6570	6580	6560	6600	6360	6290	6290	6540	6820	6730	6750	6860	6900
Henry	10730	10300	9950	11730	11710	11810	11370	10360	9830	9230	8760	9190	9060	9180	9320	9750
Howard	5120	4650	4670	4840	4770	4760	4770	4700	4590	4590	4670	5090	4960	5050	5260	5250
Humboldt	5210	5040	4960	5170	5200	5160	5350	5020	5050	5080	5170	5110	5070	5220	5170	5330
Ida	4040	3920	3720	4340	4550	4610	4600	4230	4040	3950	3980	4340	4180	4040	4110	4340
Iowa	9100	9030	8660	8410	8060	8420	8150	7870	7650	7530	7930	8550	8070	8550	8980	8730
Jackson	10490	10350	9920	10420	10150	10100	10000	9490	9050	8920	9140	9070	8990	9260	9480	9770
Jasper	17900	17350	17150	17320	17410	17210	17370	16850	16110	16300	16230	14630	14180	14760	15160	15670
Jefferson	9260	9020	8470	8690	8590	8770	8740	7880	7850	7500	7470	6870	6790	7190	7370	7550
Johnson	63400	62000	58400	60900	59900	61000	59400	58310	56590	53040	52640	46570	44040	42510	42190	41720
Jones	9150	8900	8980	8960	8990	9040	8790	8350	8270	8010	8120	8950	9010	9080	9470	9610
Keokuk	4900	4830	4900	5180	5290	5530	5380	5200	5350	5450	5320	4810	4750	4670	4800	5130
Kossuth	8530	8430	8450	8520	8630	8820	8730	8500	8810	8940	9120	10460	10260	10390	10720	10940
Lee	18580	18040	17900	17280	17010	17060	16990	16660	16790	16680	16990	17960	18150	19460	19900	20730
Linn	102000	100600	95000	92200	91600	94100	93000	87030	83780	79570	77940	77650	77300	80800	83800	85250
Louise	6240	6220	6030	7860	7660	7490	7500	6270	5450	4590	4540	4350	5270	5930	5160	4340
Lucas	4110	4090	4100	4750	4690	4700	4720	4540	4660	4620	4650	4350	4260	4340	4280	4350
Lyon	5700	5770	5720	6040	6050	6020	5870	5590	5620	5330	5460	5860	5880	5750	6100	6280
Madison	7130	6770	6130	5800	5870	5850	5960	5660	5340	5160	5240	5230	5250	5370	5530	5730
Mahaska	11000	10670	10290	10050	10030	10000	10160	9710	9460	9220	9320	9090	8860	9190	9390	9960
Marion	16480	16410	15700	15810	15730	15820	15670	15010	14370	13700	13350	15420	15100	15670	15640	15590
Marshall	20540	19630	19330	19450	19350	19510	19140	18170	18490	18170	18950	17490	17820	18130	18300	18400
Mills	6610	6540	6420	5300	5170	5380	5410	5200	5180	5420	5710	6150	6280	6150	6210	6220
Mitchell	5520	5260	5060	5480	5490	5630	5560	5360	5330	5210	5240	5530	5590	5570	5520	5610

Table 2. Estimates of the Number Employed in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Monona	5020	5010	4610	4390	4450	4550	4490	4330	4390	4450	4700	5090	4960	4980	5100	5160
Monroe	4040	3850	3710	3960	3840	3750	3440	3360	3230	3370	3320	3780	3780	4470	4510	4660
Montgomery	6010	5750	5670	5830	5970	6140	5890	5590	5520	5550	5860	6080	5970	6010	6240	6520
Muscatine	20670	20870	20150	20350	20480	20540	20290	19710	19540	19180	19060	19950	20130	20310	19380	18930
O'Brien	7890	7720	7390	7990	7850	7900	7840	7450	7360	7350	7510	7920	7640	7450	7610	7520
Osceola	3530	3520	3560	3480	3430	3400	3320	3250	3230	3240	3450	3270	3280	3300	3260	3440
Page	8930	8560	8020	7930	8020	8040	8070	7700	7830	7870	8150	8320	8410	8510	8660	8930
Palo Alto	5160	5160	5010	4910	4880	5050	5030	4990	4870	4920	5210	5170	5100	5050	5190	5170
Plymouth	12550	12530	12090	12970	12450	12090	12000	11580	11240	10900	10970	10870	10670	10720	10940	10950
Pocahontas	4170	4140	4730	4720	4780	4840	4780	4640	4580	4540	4750	4440	4420	4510	4540	4740
Polk	202400	200000	200200	194000	191300	192000	188800	177970	169300	160110	156950	150850	152150	153370	156450	157590
Pottawattamie	45400	44600	44300	43600	43700	46400	46000	44460	43530	41510	42580	39150	38780	38600	38630	41240
Poweshiek	9960	9750	10190	10060	10240	10540	10500	9910	9480	9090	8930	9600	9540	9590	9640	9980
Ringgold	2590	2600	2450	2370	2350	2460	2460	2340	2450	2400	2470	3050	3110	3180	3120	3160
Sac	5890	5830	5450	5280	5220	5390	5360	5210	5240	5180	5490	5550	5560	5810	6080	6180
Scott	79800	81000	80500	79300	77800	77900	78000	76200	74950	69640	66970	64630	66260	69750	71100	70770
Shelby	6520	6440	6450	6440	6410	6520	6570	6310	6410	6420	6470	6430	6360	6410	6310	6220
Sioux	16590	16300	17090	16420	16300	16060	15610	14560	14210	14430	14240	15910	15070	15040	15530	15560
Story	44100	43170	42380	41680	41570	41840	41360	39160	38350	37640	37280	37570	36540	36440	37160	37330
Tama	9110	8710	7930	8030	8220	8500	8510	8310	8190	8000	8020	9360	9270	9120	9410	9370
Taylor	3070	3070	3310	3350	3180	3220	3200	3180	3260	3250	3380	3270	3320	3340	3360	3370
Union	6160	6360	6500	6140	6260	6360	6230	5930	5950	5750	5800	6780	6890	6880	6800	7080
Van Buren	3960	3850	3370	3240	3300	3350	3380	3420	3420	3360	3410	3530	3440	3580	3530	3600
Wapello	17490	17300	15220	14960	14730	14780	14540	13870	14070	14460	15200	14310	14450	14930	15790	16100
Warren	21900	21600	21500	20800	20600	20000	19700	18490	17670	17620	18010	17350	17500	17640	18000	17910
Washington	10880	10700	9420	9260	9150	9130	9080	8910	8840	8790	9090	9020	8980	9240	9360	9660
Wayne	3280	3080	3140	3040	3130	3180	3100	3040	3060	3030	3150	3540	3530	3620	3560	3680
Webster	19330	19150	19720	19560	19450	19800	19800	18980	18980	19020	19520	19800	20220	21010	21590	21980
Winnebago	6700	6450	7110	6530	6870	7350	7600	7070	6740	6730	7080	5930	5420	5320	5300	6350
Winneshiek	11450	11200	13390	13040	12870	12550	11430	11610	11440	11030	11020	11240	11090	10810	10640	10420
Woodbury	53300	53000	52100	50800	49800	50100	49000	47780	45250	44090	44800	43280	42170	43340	43160	45240
Worth	3850	3820	4770	4750	4880	4740	4650	4410	4080	4040	4250	3690	3510	3500	3650	3650
Wright	6710	6650	7520	7520	7470	7700	7490	7140	7180	7370	7870	7740	7530	7280	7260	7630
State of Iowa	1508000	1488000	1479000	1447000	1433000	1448000	1433000	1369000	1338000	1300000	1312000	1305000	1296000	1328000	1350000	1366000

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1979-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Adair	140	140	150	160	140	170	140	150	200	200	200	250	200	180	190	160
Adams	90	90	100	120	110	100	90	110	130	160	140	150	150	110	110	110
Allamakee	360	340	420	410	440	450	390	480	580	770	690	630	650	610	580	440
Appanoose	380	350	410	470	460	410	400	460	580	660	620	760	850	610	640	440
Audubon	110	90	110	120	140	130	120	190	280	320	280	260	210	180	140	110
Benton	490	460	550	610	630	490	480	620	810	900	710	950	1370	820	570	340
Black Hawk	3300	3700	4100	3600	3100	3300	3500	4870	7570	8620	7410	8590	8160	5520	4870	3230
Boone	500	490	570	550	460	500	460	630	770	780	670	920	880	620	570	430
Bremer	400	500	600	500	400	400	400	710	980	960	810	1030	1040	720	640	370
Buchanan	510	550	620	600	540	520	490	680	930	1120	1040	1300	1080	770	710	420
Buena Vista	320	320	300	230	220	250	320	370	490	540	490	550	740	470	340	260
Butler	450	420	520	510	380	360	390	540	730	750	630	870	770	590	510	240
Calhoun	190	210	190	180	150	160	200	260	340	440	310	350	360	290	210	160
Carroll	380	370	350	430	490	540	500	640	790	880	660	760	890	820	630	390
Cass	370	390	410	430	450	370	360	470	520	680	700	510	470	450	370	250
Cedar	290	310	340	310	290	310	370	400	530	600	440	550	580	340	280	190
Cerro Gordo	1170	1310	1490	1370	1320	1260	1330	1470	1820	2060	1700	1890	1900	1760	1490	1250
Cherokee	240	200	230	210	210	240	260	440	510	400	360	380	390	430	290	220
Chickasaw	420	430	480	500	440	400	400	540	760	910	760	970	840	770	780	340
Clarke	270	330	280	320	250	240	270	280	350	360	330	350	390	330	290	190
Clay	290	280	290	330	240	260	290	420	540	690	710	550	560	560	480	350
Clayton	570	520	570	580	550	570	580	660	820	1070	920	970	1050	840	820	500
Clinton	1260	1310	1570	1700	1530	1590	1620	1780	2110	2510	2370	3010	3310	2200	1590	1110
Crawford	330	380	350	370	480	670	640	460	550	620	560	570	650	490	350	400
Dallas	500	500	600	600	600	1000	600	690	970	880	840	1040	980	840	790	490
Davis	190	190	210	270	160	210	270	320	420	360	310	420	390	300	200	160
Decatur	250	290	310	220	220	130	200	240	310	300	260	330	250	220	200	160
Delaware	500	510	500	480	430	520	400	500	680	950	750	950	930	730	680	310
Des Moines	1120	1220	1390	1390	1200	1350	1410	1490	1910	2290	2060	2500	2470	1950	1580	990
Dickinson	370	310	310	330	290	280	370	470	680	800	610	580	560	470	400	330
Dubuque	1800	2000	2500	2800	2500	2700	2400	2670	3370	4040	3580	5170	6140	4830	3910	2550
Emmet	290	260	320	310	270	290	300	430	640	800	620	800	780	430	340	220
Fayette	460	510	610	580	480	470	490	670	990	1130	1000	1160	1200	770	780	570

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Floyd	700	590	610	600	490	440	490	630	890	1300	850	1310	1120	960	1020	480
Franklin	220	220	250	260	270	230	270	390	390	420	380	500	440	260	260	180
Fremont	140	200	210	210	150	160	170	200	300	390	360	290	270	180	130	140
Greene	220	210	230	280	280	350	250	290	400	500	430	430	440	380	350	170
Grundy	190	190	230	230	190	190	260	280	400	410	380	490	380	240	280	150
Guthrie	230	240	250	290	250	340	200	280	410	380	320	320	350	320	270	180
Hamilton	280	300	430	380	430	370	300	370	570	580	560	590	540	510	410	300
Hancock	200	230	380	370	410	300	220	300	480	600	340	430	520	370	530	340
Hardin	320	390	490	510	400	400	510	640	620	600	610	530	520	470	370	240
Harrison	350	360	420	400	310	400	440	440	530	630	530	640	600	390	320	320
Henry	380	380	480	480	370	470	450	550	610	740	700	810	800	760	590	370
Howard	180	180	210	210	210	270	310	270	390	470	360	430	440	350	350	220
Humboldt	170	180	170	210	190	170	160	240	380	420	380	400	370	300	290	220
Ida	110	100	110	140	120	130	130	140	170	210	170	150	140	130	140	110
Iowa	190	220	230	230	240	200	220	270	450	520	340	420	580	420	270	210
Jackson	560	540	660	680	670	780	810	770	930	1180	990	1410	1400	1040	910	620
Jasper	600	650	710	810	710	740	750	860	1110	1080	1140	1380	1680	1280	1260	720
Jefferson	470	420	500	440	380	440	440	590	680	580	510	620	780	540	470	300
Johnson	1700	1700	1900	1100	1000	900	1100	1210	1540	1710	1320	1710	1930	2110	1530	1140
Jones	400	440	550	480	460	400	370	500	600	750	660	830	900	610	550	310
Keokuk	250	270	330	310	280	290	320	340	480	500	450	520	560	550	450	280
Kossuth	350	320	420	520	460	430	460	580	750	840	630	710	800	700	690	550
Lee	1050	1340	1470	1570	1300	1380	1530	1790	1920	1950	1820	2250	2470	1930	1540	1030
Linn	3400	3600	4200	4900	5000	3600	3600	4760	5560	6150	6020	7000	8270	7100	5820	3240
Louisa	270	330	370	350	310	310	280	340	420	520	420	540	340	230	210	210
Lucas	240	270	300	250	290	230	210	270	300	380	340	320	360	290	280	220
Lyon	150	160	150	130	130	150	170	190	270	260	260	270	200	260	270	160
Madison	310	300	340	380	300	320	330	310	460	410	400	470	460	420	340	240
Mahaska	370	440	460	530	440	500	380	470	680	850	630	700	800	660	560	360
Marion	570	590	570	600	540	550	520	540	640	560	580	750	840	660	630	410
Marshall	680	840	820	800	740	770	810	1190	1430	1550	1560	2080	1860	1190	1070	710
Mills	220	230	280	240	240	230	210	270	390	430	340	300	290	260	210	200
Mitchell	220	200	210	230	220	210	210	280	430	550	410	590	490	500	480	320

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Monona	180	210	220	240	200	230	290	340	400	440	400	380	390	320	290	270
Monroe	170	210	220	240	230	250	260	310	480	490	490	550	620	460	330	280
Montgomery	260	270	300	280	320	320	240	280	390	540	450	400	400	340	330	180
Muscatine	840	870	1180	1250	1110	1090	1110	1270	1530	1580	1420	1660	1510	1200	980	870
O'Brien	210	200	260	180	190	180	230	320	390	380	390	350	330	320	270	210
Osceola	120	110	130	120	120	140	190	170	260	270	240	240	260	220	170	140
Page	340	360	480	540	430	410	350	430	560	710	610	700	670	430	360	260
Palo Alto	180	190	170	200	170	190	200	200	320	460	430	470	410	350	290	210
Plymouth	360	340	440	430	370	420	490	560	660	830	680	620	650	600	480	490
Pocahontas	130	130	160	140	120	120	140	180	240	290	250	310	360	250	190	140
Polk	6200	7300	8300	7700	6500	7100	7400	8350	10350	11250	9900	12180	13300	12130	9320	6870
Pottawattamie	1800	2000	2500	2300	2100	2300	2300	2860	3270	3380	3480	2770	3390	3400	2540	2300
Poweshiek	430	490	400	380	380	380	340	390	500	620	560	660	690	500	530	340
Ringgold	100	100	140	120	130	120	130	180	160	180	200	290	190	130	120	110
Sec	240	210	200	250	280	300	330	350	460	530	540	650	690	410	310	220
Scott	3600	4000	5000	4500	4100	5000	5700	5370	5950	6240	5810	7790	8360	6010	3950	3010
Shelby	320	300	380	370	290	330	340	380	490	630	590	390	370	330	260	240
Sioux	490	390	340	320	290	330	370	580	690	740	650	660	710	750	670	510
Story	1300	1310	1000	980	810	710	720	940	1260	1310	1220	1680	1630	1520	1310	900
Tama	380	400	470	470	410	370	410	560	670	680	420	440	470	310	280	240
Taylor	200	140	170	170	140	140	120	210	250	290	260	310	210	140	130	120
Union	330	300	300	380	300	270	310	400	420	450	520	540	460	430	370	280
Van Buren	170	180	270	250	180	280	280	340	360	380	290	380	410	310	290	160
Wapello	950	1050	1230	1320	1000	1070	1160	1570	2190	1960	1710	2090	2040	1970	1360	1180
Warren	500	700	800	700	600	600	700	810	870	970	840	940	1050	1040	850	560
Washington	350	370	420	390	350	390	430	560	760	790	590	720	650	580	520	380
Wayne	140	170	210	140	110	100	150	190	200	250	230	270	230	170	160	130
Webster	880	960	1210	1040	1010	1010	1000	1220	1590	1860	1660	1800	1780	1520	1330	970
Winnebago	180	220	210	320	430	290	190	280	380	520	260	330	400	370	560	450
Winneshiek	600	640	550	480	510	570	620	750	880	910	820	890	790	830	700	570
Woodbury	1700	1700	2300	2500	2100	2200	2700	3410	4060	4160	3600	3500	3720	3660	2950	3650
Worth	180	180	230	270	280	240	220	240	350	400	290	320	320	310	320	240
Wright	260	290	380	340	290	280	300	350	460	630	480	510	450	370	380	240
State of Iowa	58000	62000	72000	70000	63000	65000	67000	80000	101000	112000	99000	115000	121000	99000	82000	59000

Table 4. Estimated Unemployment Rates in Iowa Counties, 1979-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Adair	3.2	3.4	3.6	3.6	3.1	3.7	3.0	3.4	4.5	4.5	4.5	5.5	4.5	4.0	4.2	3.5
Adams	3.7	3.8	4.1	4.0	3.7	3.2	2.7	3.6	4.5	5.6	4.6	5.4	5.6	4.2	4.1	4.2
Allamakee	4.7	4.6	5.7	5.5	6.0	5.9	5.2	6.4	7.7	10.4	9.3	8.8	9.3	8.8	8.2	6.1
Appanoose	5.6	5.2	6.1	7.0	7.1	6.3	6.0	7.3	9.4	11.3	10.5	13.1	14.1	10.1	10.5	7.2
Audubon	3.0	2.5	2.9	3.3	3.9	3.7	3.5	5.4	7.7	8.6	7.2	6.4	5.2	4.4	3.4	2.7
Benton	4.1	3.9	4.8	5.8	5.7	4.5	4.4	6.1	7.5	8.5	6.7	8.8	12.5	7.5	5.1	3.1
Black Hawk	4.9	5.4	6.2	5.7	5.1	5.4	5.7	8.4	12.8	14.4	12.0	13.2	12.1	8.0	7.0	4.7
Boone	3.6	3.6	4.4	4.4	3.7	3.9	3.6	5.2	6.3	6.5	5.6	7.5	7.3	5.0	4.6	3.4
Bremer	3.2	4.0	4.9	4.2	3.5	3.7	4.1	7.0	9.7	9.4	7.6	9.2	9.7	6.8	5.9	3.5
Buchanan	4.7	5.3	6.2	5.9	5.5	5.2	4.9	6.9	9.3	11.3	10.3	11.5	9.7	7.1	6.3	3.8
Buena Vista	2.9	2.9	2.8	2.0	2.0	2.2	2.7	3.3	4.5	4.9	4.5	5.0	7.2	4.5	3.2	2.5
Butler	5.4	5.2	6.5	6.7	5.2	4.8	5.3	7.2	9.5	9.7	8.0	10.7	9.8	7.5	6.2	2.9
Calhoun	3.6	3.9	3.7	3.2	2.7	2.9	3.5	4.8	6.1	7.8	5.4	5.7	5.8	4.7	3.4	2.6
Carroll	3.1	3.1	3.0	3.6	4.2	4.6	4.3	5.8	7.1	7.9	5.9	6.2	7.4	6.7	5.4	3.4
Cass	4.8	5.0	5.3	5.4	5.5	4.3	4.2	5.7	6.2	8.0	8.0	5.5	5.2	5.1	4.2	2.8
Cedar	3.0	3.2	3.7	3.2	3.0	3.2	3.8	4.4	5.9	6.8	4.9	6.5	6.8	4.1	3.3	2.2
Cerro Gordo	4.5	5.1	5.9	5.1	5.1	4.8	5.0	5.7	7.1	8.1	6.9	7.8	7.9	7.1	6.2	5.2
Cherokee	3.4	2.9	3.3	3.0	3.0	3.4	3.6	6.2	6.8	5.4	4.8	4.9	5.1	5.6	3.8	2.8
Chickasaw	5.4	5.8	6.6	6.9	6.1	5.5	5.5	7.5	10.4	12.2	10.4	13.2	11.8	10.7	10.6	4.8
Clarke	6.7	8.4	6.7	6.9	5.6	5.2	6.2	6.7	8.5	9.0	8.4	7.4	8.6	7.0	6.0	4.2
Clay	3.0	3.0	3.2	3.7	2.7	2.8	3.1	4.8	6.2	7.8	7.8	5.6	5.7	5.6	4.7	3.4
Clayton	5.9	5.5	6.0	5.9	5.6	5.6	5.7	6.8	8.2	10.8	9.1	9.2	10.2	8.2	8.0	4.8
Clinton	4.7	4.8	5.8	7.1	6.5	6.7	6.8	7.7	9.1	10.8	9.9	11.8	12.5	8.2	5.7	4.0
Crawford	3.7	4.3	4.1	4.4	5.7	7.5	6.9	5.0	6.0	6.8	6.1	5.4	6.4	4.8	3.6	4.1
Dallas	2.8	2.9	3.6	3.5	3.6	5.9	3.4	4.5	6.4	5.9	5.3	6.7	7.2	6.3	5.9	3.7
Davis	4.5	4.5	5.2	7.0	4.2	5.5	6.9	8.6	10.9	9.8	8.2	11.4	10.5	8.1	5.6	4.4
Decatur	6.3	7.3	8.0	5.7	5.7	3.3	5.1	6.1	7.6	7.1	6.4	8.3	6.0	5.4	4.8	4.0
Delaware	5.3	5.7	5.5	5.3	4.8	5.9	4.6	5.9	8.1	11.2	8.6	10.4	10.4	8.2	7.6	3.5
Des Moines	4.7	5.2	6.1	6.1	5.3	5.8	6.1	6.6	8.6	10.7	9.6	13.1	12.8	9.9	8.0	5.1
Dickinson	3.9	3.3	3.5	3.2	2.9	2.9	3.9	5.4	7.9	9.4	7.0	7.5	7.5	6.3	5.4	4.4
Dubuque	3.6	4.0	5.2	6.1	5.6	6.0	5.5	6.1	7.8	9.5	8.5	12.1	14.2	10.7	8.6	5.6
Emmet	5.0	4.5	5.6	6.0	5.4	5.7	5.9	8.5	12.3	14.8	10.9	13.5	12.7	6.8	5.4	3.5
Fayette	4.1	4.7	5.7	5.5	4.6	4.5	4.7	6.5	9.1	10.2	8.7	10.1	10.5	6.8	6.7	4.8



Table 4. Estimated Unemployment Rates in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Floyd	8.3	6.8	7.0	7.0	5.7	5.0	5.7	7.5	10.6	15.3	9.9	17.1	14.5	12.4	12.8	5.9
Franklin	3.6	3.8	4.3	5.1	5.2	4.3	5.1	7.1	6.8	7.3	6.7	7.9	6.9	4.1	4.0	2.8
Fremont	3.4	5.0	5.5	5.2	3.6	3.7	3.9	4.7	6.9	8.5	7.5	4.8	4.6	3.1	2.3	2.5
Greene	4.3	4.0	4.4	5.6	5.7	6.7	4.7	5.6	7.6	9.4	8.0	8.0	8.3	7.2	6.2	3.0
Grundy	3.1	3.1	3.8	3.4	2.8	2.8	3.9	4.3	6.0	6.1	5.4	7.6	6.0	3.9	4.5	2.4
Guthrie	3.9	4.1	4.4	5.3	4.7	6.3	3.9	5.4	7.6	7.1	6.1	5.6	6.2	5.7	4.7	3.3
Hamilton	3.3	3.5	5.0	3.8	4.4	3.6	2.9	3.9	6.1	6.3	6.0	6.4	6.0	5.7	4.7	3.4
Hancock	3.3	4.0	6.4	6.0	6.4	4.7	3.4	4.9	7.8	9.7	5.6	6.4	7.7	5.2	7.4	4.7
Hardin	3.3	4.1	5.2	5.2	4.1	4.2	5.2	6.5	6.2	6.0	6.0	4.9	4.8	4.3	3.4	2.2
Harrison	4.6	4.7	5.7	5.7	4.5	5.7	6.2	6.5	7.8	9.1	7.5	8.6	8.2	5.5	4.5	4.4
Henry	3.4	3.6	4.6	3.9	3.1	3.8	3.8	5.0	5.8	7.4	7.4	8.1	8.1	7.6	6.0	3.7
Howard	3.4	3.7	4.3	4.2	4.2	5.4	6.2	5.4	7.8	9.3	7.2	7.8	8.1	6.5	6.2	4.0
Humboldt	3.2	3.4	3.3	3.9	3.5	3.2	2.9	4.6	7.0	7.6	6.8	7.3	6.8	5.4	5.3	4.0
Ida	2.7	2.5	2.9	3.1	2.6	2.7	2.7	3.2	4.0	5.0	4.1	3.3	3.2	3.1	3.3	2.5
Iowa	2.0	2.4	2.6	2.7	2.9	2.3	2.7	3.3	5.6	6.5	4.1	4.7	6.7	4.7	2.9	2.3
Jackson	5.1	5.0	6.2	6.1	6.2	7.2	7.5	7.5	9.3	11.7	9.8	13.5	13.5	10.1	8.8	6.0
Jasper	3.2	3.6	4.0	4.5	3.9	4.1	4.1	4.9	6.4	6.2	6.6	8.6	10.6	8.0	7.7	4.4
Jefferson	4.8	4.4	5.6	4.8	4.2	4.8	4.8	7.0	8.0	7.2	6.4	8.3	10.3	7.0	6.0	3.8
Johnson	2.6	2.7	3.2	1.8	1.6	1.5	1.8	2.0	2.6	3.1	2.4	3.5	4.2	4.7	3.5	2.7
Jones	4.2	4.7	5.8	5.1	4.9	4.2	4.0	5.6	6.8	8.6	7.5	8.5	9.1	6.3	5.5	3.1
Keokuk	4.9	5.3	6.3	5.6	5.0	5.0	5.6	6.1	8.2	8.4	7.8	9.8	10.5	10.5	8.6	5.2
Kossuth	3.9	3.7	4.7	5.8	5.1	4.6	5.0	6.4	7.8	8.6	6.5	6.4	7.2	6.3	6.0	4.8
Lee	5.3	6.9	7.6	8.3	7.1	7.5	8.3	9.7	10.3	10.5	9.7	11.1	12.0	9.0	7.2	4.7
Linn	3.2	3.5	4.2	5.1	5.2	3.7	3.7	5.2	6.2	7.2	7.2	8.3	9.7	8.1	6.5	3.7
Louisa	4.1	5.0	5.8	4.3	3.9	4.0	3.6	5.1	7.2	10.2	8.5	11.0	6.1	3.7	3.9	4.6
Lucas	5.5	6.2	6.8	5.0	5.8	4.7	4.3	5.6	6.1	7.6	6.8	6.9	7.8	6.3	6.2	4.8
Lyon	2.6	2.7	2.6	2.1	2.1	2.4	2.8	3.3	4.6	4.7	4.5	4.4	3.3	4.3	4.2	2.5
Madison	4.2	4.2	5.3	6.1	4.9	5.2	5.2	5.2	7.9	7.4	7.1	8.2	8.0	7.3	5.8	4.0
Mahaska	3.3	4.0	4.3	5.0	4.2	4.8	3.6	4.6	6.7	8.4	6.3	7.2	8.3	6.7	5.6	3.5
Marion	3.3	3.5	3.5	3.7	3.3	3.4	3.2	3.5	4.3	3.9	4.2	4.6	5.3	4.0	3.9	2.6
Marshall	3.2	4.1	4.1	3.9	3.7	3.8	4.1	6.1	7.2	7.9	7.6	10.6	9.5	6.2	5.5	3.7
Mills	3.2	3.4	4.2	4.3	4.4	4.1	3.8	4.9	7.0	7.4	5.6	4.7	4.4	4.1	3.3	3.1
Mitchell	3.8	3.7	4.0	4.0	3.9	3.6	3.6	5.0	7.5	9.5	7.3	9.6	8.0	8.2	8.0	5.4

Table 4. Estimated Unemployment Rates in Iowa Counties, 1979-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979
Monona	3.5	4.0	4.6	5.2	4.3	4.8	6.1	7.3	8.4	9.0	7.8	6.9	7.3	6.0	5.4	5.0
Monroe	4.0	5.2	5.6	5.7	5.7	6.3	7.0	8.4	12.9	12.7	12.9	12.7	14.1	9.3	6.8	5.7
Montgomery	4.1	4.5	5.0	4.6	5.1	5.0	3.9	4.8	6.6	8.9	7.1	6.2	6.3	5.4	5.0	2.7
Muscatine	3.9	4.0	5.5	5.8	5.1	5.0	5.2	6.1	7.3	7.6	6.9	7.7	7.0	5.6	4.8	4.4
O'Brien	2.6	2.5	3.4	2.2	2.4	2.2	2.8	4.1	5.0	4.9	4.9	4.2	4.1	4.1	3.4	2.7
Osceola	3.3	3.0	3.5	3.3	3.4	4.0	5.3	5.0	7.5	7.7	6.5	6.8	7.3	6.3	4.9	3.9
Page	3.7	4.0	5.6	6.4	5.1	4.9	4.1	5.3	6.7	8.3	7.0	7.8	7.4	4.8	4.0	2.8
Palo Alto	3.4	3.6	3.3	3.9	3.4	3.6	3.8	3.9	6.2	8.6	7.6	8.3	7.4	6.5	5.3	3.9
Plymouth	2.8	2.6	3.5	3.2	2.9	3.4	3.9	4.6	5.5	7.1	5.8	5.4	5.7	5.3	4.2	4.3
Pocahontas	3.0	3.0	3.3	2.9	2.4	2.4	2.9	3.7	5.0	6.0	5.0	6.5	7.5	5.2	4.0	2.9
Polk	3.0	3.5	4.0	3.8	3.3	3.6	3.8	4.5	5.8	6.6	5.9	7.5	8.0	7.3	5.6	4.2
Pottawattamie	3.8	4.3	5.4	5.0	4.6	4.7	4.8	6.0	7.0	7.5	7.6	6.6	8.0	8.1	6.2	5.3
Poweshiek	4.1	4.8	3.8	3.6	3.6	3.5	3.1	3.8	5.0	6.4	5.9	6.4	6.7	5.0	5.2	3.3
Ringgold	3.7	3.7	5.4	4.8	5.2	4.7	4.9	7.1	6.1	7.0	7.5	8.7	5.8	3.9	3.7	3.4
Sac	3.9	3.5	3.5	4.5	5.1	5.3	5.7	6.3	8.1	9.3	9.0	10.5	11.0	6.6	4.9	3.4
Scott	4.3	4.7	5.8	5.4	5.0	6.0	6.8	6.6	7.4	8.2	8.0	10.8	11.2	7.9	5.3	4.1
Shelby	4.7	4.5	5.6	5.4	4.3	4.8	4.9	5.7	7.1	8.9	8.4	5.7	5.5	4.9	4.0	3.7
Sioux	2.9	2.3	2.0	1.9	1.7	2.0	2.3	3.8	4.6	4.9	4.4	4.0	4.5	4.7	4.1	3.2
Story	2.9	2.9	2.3	2.3	1.9	1.7	1.7	2.3	3.2	3.4	3.2	4.3	4.3	4.0	3.4	2.4
Tama	4.0	4.4	5.6	5.5	4.8	4.2	4.6	6.3	7.6	7.8	5.0	4.5	4.8	3.3	2.9	2.5
Taylor	6.1	4.4	4.9	4.8	4.2	4.2	3.7	6.2	7.1	8.2	7.1	8.7	5.9	4.0	3.7	3.4
Union	5.1	4.5	4.4	5.8	4.6	4.1	4.7	6.3	6.6	7.3	8.2	7.4	6.3	5.9	5.2	3.8
Van Buren	4.1	4.5	7.4	7.2	5.2	7.7	7.5	9.1	9.5	10.2	7.8	9.7	10.6	8.0	7.6	4.3
Wapello	5.2	5.7	7.5	8.1	6.4	6.8	7.4	10.2	13.5	11.9	10.1	12.7	12.4	11.7	7.9	6.8
Warren	2.2	3.1	3.6	3.2	2.8	2.9	3.5	4.2	4.7	5.2	4.5	5.1	5.7	5.6	4.5	3.0
Washington	3.1	3.3	4.3	4.0	3.7	4.1	4.6	5.9	7.9	8.2	6.1	7.4	6.7	5.9	5.3	3.8
Wayne	4.1	5.2	6.3	4.4	3.4	3.0	4.7	5.9	6.1	7.6	6.8	7.1	6.1	4.5	4.3	3.4
Webster	4.4	4.8	5.8	5.0	4.9	4.9	4.8	6.0	7.7	8.9	7.8	8.3	8.1	6.7	5.8	4.2
Winnebago	2.6	3.3	2.9	4.7	5.9	3.8	2.4	3.8	5.3	7.2	3.5	5.3	6.9	6.5	9.6	6.6
Winneshiek	5.0	5.4	3.9	3.6	3.8	4.3	5.2	6.1	7.1	7.6	6.9	7.3	6.6	7.1	6.2	5.2
Woodbury	3.1	3.1	4.2	4.7	4.0	4.2	5.3	6.7	8.2	8.6	7.4	7.5	8.1	7.8	6.4	7.5
Worth	4.5	4.5	4.6	5.4	5.4	4.8	4.5	5.2	7.9	9.0	6.4	8.0	8.4	8.1	8.1	6.2
Wright	3.7	4.2	4.8	4.3	3.7	3.5	3.8	4.7	6.0	7.9	5.7	6.2	5.6	4.8	5.0	3.0
State of Iowa	3.7	4.0	4.6	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

## Unemployment

Unemployment figures for Iowa during this period reflect the economic difficulties encountered by the state in the first half of the 1980s. Unemployment was 59,000 in 1979, but it was 121,000 in 1982 (Table 3). For four of the five years from 1982 through 1986, unemployment was more than 100,000. Relatively rapid decreases, especially from 1986 through 1988, brought the figure down to 63,000 in 1990. That was a decline of 47.9 percent from the period high in 1982. But the number unemployed increased by 7,000 between 1990 and 1991 and by 2,000 between 1991 and 1992. In contrast, a decrease of 10,000 occurred between 1992 and 1993 on the number unemployed. The 1994 figure of 58,000 was lower than any year reported here.

Just as Polk led in labor force and employment numbers, it also had the highest number unemployed (6,200) in 1994. Black Hawk, Linn, and Scott were the only others above 3,000. Nine counties had from 1,000 to 3,000 unemployed. Twenty-two counties had fewer than 200 unemployed in 1994; the lowest was Adams, the only county with fewer than 100 unemployed.

Unemployment in 1994 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 except Johnson and Story had lower numbers unemployed in 1994 than in 1984.

## 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 1992 but decreased to 3.7 percent in 1994.

For the counties in 1994, unemployment rates varied from 2.0 percent (Iowa) to 8.3 percent (Floyd). Unemployment rates in 1994 were much lower than those in 1984. In 1984, 51 counties had unemployment rates of 7.0 percent or greater. Ten years later, only one county was above 7.0 percent. Ninety-eight counties had lower unemployment rates in 1994 than they did in 1984. The rate increased insignificantly in Johnson 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.

## Per Capita Income in Iowa's Counties: 1973-1993

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Per capita income, a measure of average income per person, was \$18,275 for Iowa in 1993, a figure more than \$2,000 below that for the United States (Table 1). It increased for Iowa every year from 1973 through 1993, although the gains were small from 1981 through 1983 and again from 1992 to 1993. 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 (Figure 1). In 1993, Polk had the highest (\$23,063) and Taylor the lowest (\$12,525) per capita income, a difference of more than \$10,000. 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 and exceeded \$10,000 for the first time in 1993. Polk has had the highest per capita income since 1976 and Linn consistently has been among the top five in recent years. Decatur has ranked among the lowest five every year in the 1973-1993 period. Other counties among the lowest in recent years were Davis, Ringgold, Taylor, and Van Buren.

Per capita income gained in all counties from 1977 to 1978, 1980 to 1981, 1988 to 1989, and 1991 to 1992. Between 1992 and 1993, however, per capita income decreased in 68 of Iowa's 99 counties. A majority of Iowa counties also 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 1973 to 1993, Iowa's per capita income increased by \$12,986 (Table 3, Figure 2). Increases were under \$10,000 in 27 counties, although only Osceola, Ringgold, and Taylor reported gains below \$8,000. Seven counties had increases in per capita income of at least \$14,000, with Polk (+\$17,441) the only one exceeding \$16,000. During the 1973-1993 period, 23 counties increased every year, but the other 76 declined one or more times. Some counties decreased in eight (Greene, Ida, Palo Alto, Pocahontas) or nine (Adair) of the 20 comparisons of one year with the next.

In percentage terms, Iowa's per capita income increased 245 percent between 1973 and 1993. Gains in Iowa's counties ranged from 106 percent in Osceola to 327 percent in Johnson. Two others (Polk, Winneshiek) increased by at least 300 percent.

### Per Capita Income Adjusted for Inflation

Rising prices of goods and services between 1973 and 1993 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 1993 dollars based on the consumer price index for each year. Per

Table 1. Per Capita Income in Iowa Counties, 1973-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Adair	14826	16034	14881	15149	14411	12301	12391	12286	10695	9730	8381	8954	8995	7136	7568	7766	5933	6245	5391	4871	5422
Adams	14238	15247	14316	14426	13570	11485	12489	11976	10353	9225	8912	9284	9016	7133	7349	7208	5760	6513	5389	4538	5528
Allamakee	14969	15106	13870	14414	13249	11697	12070	11087	10149	9984	7836	8324	8253	6869	6951	6835	6179	6219	5189	4528	4506
Appanoose	14747	14559	13815	13358	12531	11533	11123	10462	9656	9315	8947	8837	8492	7769	7400	6581	5987	5843	5221	4718	4390
Audubon	16012	17134	16434	15759	15224	12828	13437	11660	11226	9978	8031	8727	9463	7358	7327	7691	5810	5696	5563	5002	5431
Benton	16342	16447	15478	15389	14708	12958	13352	12942	11709	11589	10279	10143	10256	8746	8624	8379	6805	6264	6095	5429	5419
Black Hawk	17974	17373	16299	15913	14802	13568	12803	12052	11857	11667	11347	11219	11150	10177	9357	8296	7592	6544	6071	5472	4899
Boone	18912	18719	17441	16883	16405	14755	14494	13590	12627	11944	11451	11037	10877	9768	9075	8514	6547	6513	6413	5776	5416
Bremer	17096	17120	15804	15439	14233	12823	12503	11791	11617	11262	10158	10037	10072	8880	8388	7794	6966	6032	5629	5217	5044
Buchanan	15373	15867	15243	14965	13679	12037	12364	10915	10474	10232	8486	8862	9034	7765	7626	7210	6197	5593	5582	5027	4684
Buena Vista	16009	16507	15933	15615	15111	13728	13279	13123	12529	11290	10361	10360	10825	9266	8862	8497	7366	5747	6307	5857	5906
Butler	15409	16062	15063	14920	12942	12113	12634	11821	11700	11166	9357	9272	9495	8371	8062	7967	6493	5795	5727	4957	5199
Calhoun	15634	17558	15373	15237	15196	13891	13368	13000	12249	11375	10771	10458	11212	9696	9204	8320	6424	5438	6015	5831	6043
Carroll	17616	18215	17104	16526	15674	14752	14529	13399	12846	12424	11311	11345	11678	9858	9364	8714	6686	5767	5805	5305	5572
Cass	16225	17135	16192	15678	15234	13365	13406	12711	12147	11542	10593	10460	10609	8650	8663	8199	6921	6646	5736	5302	5670
Cedar	17726	17693	16816	16852	15891	14040	13965	12693	12423	12423	10407	10442	10677	8816	8960	8709	7030	6527	6796	5546	5603
Cerro Gordo	18071	17763	16969	16727	15192	14547	14156	13333	12788	12524	11662	11046	10864	9549	8865	8269	7332	6638	6178	5522	5129
Cherokee	16141	16796	16583	16203	15006	14096	13347	12505	11690	11022	9644	9846	10071	8344	8059	7905	6539	5511	6144	5743	5907
Chickasaw	16122	16737	15876	15594	14433	13035	13207	12008	11426	11024	9268	9237	9652	8267	8235	7895	6887	5643	5516	5176	5331
Clarke	13787	14151	13530	13698	13060	11729	11805	11129	10296	9190	8873	8972	8548	7699	6960	6690	5992	5502	5016	4515	4798
Clay	16979	17383	16247	16516	15626	14350	13578	12893	11864	10798	10078	10159	10466	9504	9004	8472	7927	6707	6406	5666	5773
Clayton	14840	15751	14449	14933	13663	11829	12404	11512	10358	10330	7424	8082	8320	6596	6936	6790	5653	5249	4929	4452	4515
Clinton	17504	17320	16253	15805	14830	13547	13118	12371	11974	11776	10580	10436	10627	9450	8756	7909	6863	6156	5761	5180	4872
Crawford	16439	16949	15660	15095	13879	13052	12570	12021	10889	10614	9167	9591	9967	7483	7442	7402	5804	5008	5283	4787	5039
Dallas	19844	19601	18314	17674	16858	15342	14928	14017	13150	12873	12192	11738	11407	9631	9262	8285	7246	6891	6528	6071	5824
Davis	14507	14337	13398	13584	11771	10639	10588	10152	9539	9266	8376	8583	8006	7118	6834	6245	5149	5213	4901	4374	4785
Decatur	12744	12773	12282	12188	11703	9948	10293	9642	9084	8131	7154	7377	6917	5865	5741	5942	4673	4730	4274	3995	4108
Delaware	14967	15830	15282	16023	14169	12520	13215	11890	10697	10531	7871	8287	8726	6818	7421	7398	5947	5339	5700	4760	4536
Des Moines	18328	17807	16993	16640	15438	14472	14050	13511	12952	12516	11486	11055	10824	9844	9317	8354	7528	6822	6272	5744	5322
Dickinson	19475	19601	18183	18269	17117	15297	14629	13741	12708	12784	11228	10816	10638	9274	8948	8610	7423	6376	6219	5766	6041
Dubuque	18503	18092	16903	16517	15326	14264	13781	12754	12198	11696	10479	10093	9978	9014	8562	7869	6993	6071	5593	5173	4653
Emmet	15783	16036	14688	14938	13854	12701	12691	12277	11670	10797	9988	9917	10703	9788	8339	8173	7060	5998	6080	5799	5734
Fayette	14469	14987	14347	14449	13285	11517	11987	10892	10380	10327	8669	8506	8638	7359	7656	7168	6007	5369	5084	4727	4562
Floyd	16405	16722	16063	15950	14160	13097	13156	12371	11558	11488	10003	9942	9685	8732	8400	7855	7156	6177	5921	5445	5331
Franklin	15064	17283	15252	15870	14724	13386	13754	13487	11990	11418	9715	9517	10127	8385	8112	8273	6470	6186	6956	6226	6020
Fremont	14798	16645	15407	14725	14166	13563	12722	13587	12654	11017	11684	10542	10697	9414	8690	8275	6402	6873	5880	5201	6350

Table 1. Per Capita Income in Iowa Counties, 1973-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Greene	15724	17676	15728	15132	15344	13202	13798	13306	11941	11145	11227	10939	11390	9857	9488	9205	5871	6560	6918	6537	7003
Grundy	18072	18961	17595	17125	15295	14134	14527	13494	12717	12588	11535	11530	11933	10173	9784	9077	7831	6931	6957	6588	6209
Guthrie	16323	16928	16061	15943	15144	13034	13250	12146	11631	10855	9392	9786	9731	7757	7746	7461	5765	5664	5325	4890	5084
Hamilton	17416	18432	17716	16826	17221	14035	14660	14218	13503	12522	12081	11699	11934	10095	9566	8949	7306	6701	6963	6187	6523
Hancock	14687	15891	14280	15195	13702	13149	12906	13155	12584	11991	10916	10634	10883	8756	8566	8410	7333	6418	6808	6099	5995
Hardin	16902	17376	16250	16104	14655	13282	13912	13499	12612	11944	11024	10649	10882	9459	8855	8453	6886	6563	6310	5863	5827
Harrison	15207	16025	14509	13993	13006	12234	11952	11728	11777	10645	9536	9646	9693	7680	7707	7400	5800	5307	5459	4595	5122
Henry	17152	16620	15779	15509	14234	13439	12942	12425	12040	11330	10219	10118	9953	8739	8468	7922	7008	6650	6217	5287	5106
Howard	14986	15548	14767	14920	13802	11813	12680	12043	10830	11153	8887	8763	9048	7481	7759	7397	6440	5304	4923	4422	5134
Humboldt	16457	17433	15273	15687	15838	13518	13335	12601	11622	11475	10452	10758	10913	8819	8592	8733	7044	6277	6900	6239	5959
Ide	15968	16870	15761	15974	15261	14080	13656	12496	12075	11543	8544	9338	9779	7114	7876	8302	6264	4859	5719	5650	5920
Iowa	19056	19299	17255	16573	15459	13749	14348	12801	12675	12652	10060	9832	9984	8354	8361	8188	6779	6284	5752	5002	5243
Jackson	15961	15909	14842	14681	13657	12294	12276	11122	10700	10627	8803	8991	9017	7697	7455	7246	6155	5716	5225	4699	4790
Jasper	18280	18205	17171	16916	15983	14814	14855	13990	13399	13052	11829	11227	11127	9601	9024	8459	7085	6731	6184	5706	5561
Jefferson	15749	16103	15153	15255	14239	12980	13048	12447	11311	10823	9026	8679	9016	7721	7721	7076	6208	6009	5663	5535	4868
Johnson	19578	18853	17914	17137	16218	14721	14037	13548	12792	12312	11507	10967	10539	9621	8749	8093	7092	6217	5708	4963	4585
Jones	13992	14199	13480	13882	12984	11538	11595	10685	10322	10183	8401	8501	8764	7424	7457	7290	6009	5455	5418	4965	4779
Keokuk	15528	15900	15294	15373	14578	12480	14065	12602	12027	11610	9932	9897	9435	7921	7936	7907	6505	5948	5998	4971	5554
Kossuth	14864	16843	14646	15583	15437	14018	13630	13440	11919	11378	10439	9927	10230	8596	7982	8178	6816	5873	6769	6269	6370
Lee	16854	16603	15943	15375	14416	13374	12885	12711	12389	11883	10896	10586	10387	9194	8708	7974	6878	6375	5827	5250	4873
Linn	21096	20372	19387	18870	17924	16566	15661	14798	14025	13249	12519	12136	11649	10661	9956	8789	7831	7093	6397	5851	5296
Louisa	16331	16845	15221	15533	14302	12955	12994	12418	11556	11359	9554	10471	10199	8782	7668	7107	6339	5980	6041	5175	5256
Lucas	16212	16274	15187	15200	14489	13396	12818	12189	11218	10595	9945	9859	9543	8561	7797	7552	6107	6243	5453	4781	4931
Lyon	14152	14975	14671	14148	13801	11770	12264	11786	11414	10941	9196	9795	9463	7284	8083	7623	5974	4711	5142	4826	5989
Madison	16808	16901	15969	15840	14977	13465	13165	12571	11876	11128	10048	10171	9567	8490	7864	7692	6539	6584	5890	5034	5440
Mahaska	16199	16140	15389	15221	14168	12855	13253	12650	11901	11114	9978	10145	10007	8477	8310	8005	6625	6199	5812	5236	5174
Marion	18509	17990	16939	16607	15636	14721	14583	13557	12865	12311	11691	11045	10648	9246	8888	8146	6734	6670	6361	5716	5339
Marshall	18844	18696	17897	17285	16398	14516	14388	13653	13204	12697	12007	11568	11373	10273	9423	8739	7535	7368	6751	6147	5779
Mills	19604	20357	19355	18614	17320	16625	15802	14729	13315	11931	10775	10599	9997	8805	8207	8287	6866	6834	6394	5558	5953
Mitchell	17014	18251	17302	17548	16026	13899	14992	14023	12731	12400	10046	9718	9505	7738	7769	7832	6740	5377	5763	4875	5624
Monona	15137	16100	14541	14755	14095	12379	11962	11912	11293	10389	9205	10414	10626	7384	7204	7710	6308	4869	6042	5229	6285
Monroe	16880	16576	15761	15250	13824	12935	12339	11102	10673	10200	9172	9210	8632	7971	7127	6750	5883	5777	5155	4571	4641
Montgomery	16690	17196	16404	15767	15237	13576	13250	12865	11835	11310	10609	10806	10567	9178	9534	8308	6968	6727	5918	5508	5702
Muscatine	20070	19539	18061	17720	16429	15413	14792	14151	13800	13323	12173	11840	11468	10097	9111	8372	7460	6973	6359	5547	5148
O'Brien	16169	16907	16710	16446	15541	14770	14091	13454	12570	11798	10587	10591	10305	8670	8548	8608	7213	6273	6398	5886	6007
Osceola	13899	15724	15327	14941	14074	12909	12376	11519	10462	10124	9087	9040	9838	8375	8225	8468	7090	5590	6388	5317	6732

Table 1. Per Capita Income in Iowa Counties, 1973-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Page	17587	17785	16499	16020	15189	13331	13322	13099	11718	10581	10222	9873	9584	8364	8381	7634	6652	6524	5819	5040	5379
Palo Alto	14985	16294	14279	15189	14033	12897	13178	12587	11983	10266	9436	9805	10288	9176	7907	8158	6749	5619	6075	5625	6108
Plymouth	17259	17683	17043	16475	15264	13110	13877	12584	12297	11371	9287	9678	9503	7329	7935	8022	6373	5499	5711	5119	5675
Pocahontas	14745	17058	15326	15175	15275	13373	13072	13602	13012	10691	9758	10727	11386	8975	8130	8716	7131	5391	6496	6270	6699
Polk	23063	22324	21160	20331	19101	17823	16605	15845	15219	14613	13792	13181	12464	11464	10637	9399	8444	7503	6808	6183	5622
Pottawattamie	16883	16594	15721	15113	14151	13586	13117	12767	12347	11810	10967	10507	10159	8998	8330	7889	6784	6202	5479	5142	4884
Poweshiek	17692	17593	16691	16358	15538	14137	14318	13417	12102	12023	10547	10439	10215	8650	8553	8165	6790	6553	6047	5529	5575
Ringgold	13371	14559	13325	13468	13362	11142	11865	11135	9359	8266	8159	8875	8187	7186	6767	7075	5480	6075	5384	4513	5628
Sac	15698	16537	15292	15212	14502	13335	12946	13208	11647	11308	9851	10314	11166	8555	9166	8735	6813	5781	6287	6139	6254
Scott	19935	19257	18426	17994	16625	15419	14729	14069	13657	13182	12215	11939	11742	10697	9793	8715	7805	7009	6424	5983	5432
Shelby	15754	16415	15886	15613	14717	13243	13102	11967	12082	11140	9295	9742	9993	7668	8454	8405	5990	5551	5379	5047	5482
Sioux	15546	15788	15079	14567	13819	12331	12526	11892	11860	11377	9347	8949	9575	7956	8148	8046	6241	5597	5182	5190	5368
Story	17858	17347	16326	15424	14698	13438	13134	12360	11798	11115	10314	9911	9419	8592	7902	7206	6148	5645	5160	4694	4481
Tama	16027	16031	15418	15566	14454	13495	13664	12815	12126	11530	10023	10445	10559	8650	7979	7838	6834	6438	6294	5413	5517
Taylor	12525	13454	12784	12358	11584	10238	11264	10999	10176	8568	8286	8935	8312	7127	7335	6783	5868	5941	5154	4264	4915
Union	15507	15625	14711	14504	13643	12603	12128	11751	11251	10465	9981	10039	9211	8249	7566	6904	6005	5915	5230	4649	4859
Van Buren	13412	13877	12787	12748	11767	10544	10914	10229	9649	8961	7931	8147	7937	6822	6957	6805	5847	5612	5276	4459	4428
Wapello	16619	16252	15612	15056	14007	12630	12020	11470	11193	10884	10183	10039	9624	9060	8212	7289	6514	5901	5362	4802	4452
Warren	17788	17447	16499	15875	14564	13347	12623	12015	11762	11252	10560	10272	9891	9094	8586	7906	6717	6352	5796	5153	4947
Washington	17337	17196	16805	16784	15309	13632	14264	13582	13489	13410	11719	11640	11351	9384	9388	8760	7132	6653	6762	5389	5577
Wayne	13975	14501	13545	13627	12979	11583	11958	11441	10477	9613	8918	8970	8654	7507	7219	6916	5177	5518	5088	4259	4687
Webster	17428	17311	16261	15296	14703	13184	12825	12650	11698	11256	11091	10901	10837	9908	9125	8263	7049	6420	6076	5684	5245
Winnebago	17210	17841	16066	16729	16043	15811	14989	14104	13209	13079	10982	10206	9863	8366	8327	8345	7767	6826	6666	5452	6169
Winneshiek	16249	16353	15230	15419	13960	12149	12441	11447	10405	10272	7757	7924	7822	6380	6288	6442	5540	5010	4609	4177	4038
Woodbury	19434	18909	17142	16397	15442	14514	14072	13082	12551	11992	11368	11047	10774	9456	8814	8246	7406	6711	6169	5534	5255
Worth	14648	15671	14846	15623	14309	13396	13680	12759	12103	11908	9669	9317	9267	7373	7603	8115	6855	5936	6463	5475	6075
Wright	15359	16663	15400	15572	16045	14055	13786	13487	12716	13001	11870	11574	11436	9861	9454	9103	7817	6793	7171	6569	6249
State of Iowa	18275	18148	17091	16684	15647	14332	13936	13209	12575	12049	11010	10791	10617	9346	8844	8209	7081	6413	6046	5475	5289
Counties:																					
Range: Low	12525	12773	12282	12188	11584	9948	10293	9642	9084	8131	7154	7377	6917	5865	5741	5942	4673	4711	4274	3995	4038
High	23063	22324	21160	20331	19101	17823	16605	15845	15219	14613	13792	13181	12464	11464	10637	9399	8444	7503	7171	6588	7003
Number Dec.	68	0	33	5	0	43	4	2	3	2	41	44	0	26	19	0	12	31	1	56	
United States	20800	20137	19201	18666	17690	16610	15638	14906	14155	13332	12223	11583	11009	9940	9017	8117	7267	6629	6045	5628	5168

Table 2. Adjusted Per Capita Income (1993 Dollars) in Iowa Counties, 1973-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Adair	14826	16496	15747	16684	16699	14947	15645	16081	14203	13384	11922	13129	13967	12219	14724	16810	13830	15496	14150	13957	17268
Adams	14238	15686	15149	15888	15724	13955	15769	15675	13749	12689	12677	13613	14000	12214	14298	15602	13427	16161	14144	13003	17605
Allamakee	14969	15541	14677	15874	15352	14213	15240	14512	13478	13733	11147	12205	12815	11762	13523	14794	14403	15432	13619	12974	14350
Appanoose	14747	14978	14619	14711	14520	14013	14044	13694	12823	12813	12727	12957	13186	13303	14397	14245	13956	14499	13703	13519	13981
Audubon	16012	17628	17390	17356	17641	15587	16966	15262	14908	13725	11424	12796	14694	12599	14255	16647	13543	14134	14601	14332	17296
Benton	16342	16921	16379	16948	17043	15745	16859	16940	15550	15941	14622	14872	15925	14976	16778	18136	15862	15543	15997	15556	17258
Black Hawk	17974	17873	17248	17525	17152	16486	16165	15775	15746	16048	16141	16450	17314	17426	18204	17957	17697	16238	15934	15679	15602
Boone	18912	19258	18456	18594	19009	17928	18301	17788	16769	16429	16289	16183	16890	16726	17656	18429	15261	16161	16832	16550	17248
Bremer	17096	17613	16724	17003	16492	15581	15787	15433	15428	15491	14450	14717	15640	15205	16319	16870	16238	14968	14774	14948	16064
Buchanan	15373	16324	16130	16481	15851	14626	15611	14287	13910	14074	12071	12994	14028	13296	14837	15606	14445	13878	14651	14404	14917
Buena Vista	16009	16983	16860	17197	17510	16680	16766	17177	16639	15530	14738	15191	16809	15866	17241	18392	17170	14261	16554	16782	18809
Butler	15409	16525	15940	16432	14997	14718	15952	15473	15538	15359	13310	13595	14744	14334	15685	17245	15135	14380	15031	14203	16557
Calhoun	15634	18064	16268	16781	17608	16878	16879	17016	16267	15646	15321	15334	17410	16603	17907	18009	14974	13494	15787	16708	19245
Carroll	17616	18740	18099	18200	18162	17925	18345	17538	17060	17089	16090	16635	18134	16880	18218	18861	15585	14310	15236	15201	17745
Cass	16225	17629	17134	17267	17652	16239	16927	16637	16131	15876	15068	15337	16474	14812	16854	17747	16133	16491	15055	15192	18057
Cedar	17726	18203	17795	18559	18414	17060	17633	16614	16498	17088	14804	15311	16579	15096	17432	18851	16387	16196	17837	15891	17844
Cerro Gordo	18071	18275	17957	18422	17604	17676	17874	17452	16983	17227	16589	16196	16870	16351	17247	17898	17091	16471	16215	15822	16334
Cherokee	16141	17280	17548	17845	17388	17128	16852	16368	15525	15161	13718	14437	15638	14288	15679	17110	15242	13675	16126	16456	18812
Chickasaw	16122	17219	16800	17174	16724	15838	16676	15717	15174	15164	13183	13544	14988	14156	16021	17089	16054	14002	14478	14831	16978
Clarke	13787	14559	14317	15086	15133	14252	14905	14567	13673	12641	12622	13155	13273	13183	13541	14481	13967	13653	13165	12937	15280
Clay	16979	17884	17193	18189	18107	17436	17144	16876	15756	14853	14336	14896	16252	16274	17518	18338	18478	16643	16814	16235	18385
Clayton	14840	16205	15290	16446	15832	14373	15662	15068	13756	14209	10560	11850	12919	11295	13494	14697	13177	13025	12937	12756	14379
Clinton	17504	17819	17199	17406	17184	16461	16563	16192	15902	16198	15050	15302	16502	16182	17035	17119	15998	15275	15121	14842	15516
Crawford	16439	17437	16571	16624	16082	15859	15871	15734	14461	14600	13040	14063	15477	12813	14479	16022	13529	12427	13866	13716	16048
Dallas	19844	20166	19380	19465	19534	18642	18848	18347	17463	17707	17343	17211	17713	16491	18019	17933	16890	17099	17134	17395	18548
Davis	14507	14750	14178	14960	13640	12927	13369	13288	12668	12746	11915	12585	12432	12188	13296	13517	12002	12935	12864	12533	15239
Decatur	12744	13141	12997	13423	13561	12087	12996	12620	12064	11184	10176	10817	10741	10043	11169	12861	10893	11737	11218	11447	13083
Delaware	14967	16286	16171	17646	16418	15213	16686	15563	14206	14486	11196	12151	13550	11675	14438	16013	13862	13248	14961	13639	14446
Des Moines	18328	18320	17982	18326	17889	17584	17740	17685	17201	17216	16339	16210	16807	16856	18126	18082	17548	16928	16462	16458	16949
Dickinson	19475	20166	19241	20120	19834	18587	18471	17986	16876	17585	15972	15859	16519	15880	17409	18636	17303	15821	16323	16521	19239
Dubuque	18503	18613	17887	18191	17759	17332	17400	16694	16199	16088	14906	14799	15494	15435	16658	17032	16301	15065	14680	14822	14818
Emmet	15783	16498	15543	16452	16053	15433	16024	16069	15498	14851	14208	14541	16620	16760	16224	17690	16457	14883	15958	16616	18261
Fayette	14469	15419	15182	15913	15394	13994	15135	14257	13785	14205	12331	12472	13413	12601	14895	15515	14002	13323	13344	13544	14529
Floyd	16405	17204	16998	17566	16408	15914	16611	16192	15349	15802	14229	14578	15039	14952	16342	17002	16681	15328	15541	15602	16978
Franklin	15064	17781	16140	17478	17061	16265	17366	17653	15923	15706	13819	13955	15725	14358	15782	17907	15082	15350	18257	17840	19172
Fremont	14798	17124	16304	16217	16415	16480	16063	17784	16805	15154	16620	15457	16610	16120	16907	17911	14923	17055	15433	14903	20223



Table 2. Adjusted Per Capita Income (1993 Dollars) in Iowa Counties, 1973-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Greene	15724	18185	16643	16665	17780	16041	17422	17416	15858	15330	15970	16040	17686	16878	18459	19924	13685	16278	18157	18731	22303
Grundy	18072	19507	18619	18860	17723	17174	18342	17662	16888	17315	16408	16906	18530	17420	19035	19647	18254	17199	18260	18877	19774
Guthrie	16323	17416	16996	17558	17548	15837	16730	15898	15446	14931	13360	14349	15110	13283	15070	16149	13438	14055	13976	14011	16191
Hamilton	17416	18963	18747	18531	19955	17053	18510	18610	17932	17224	17185	17154	18531	17286	18611	19370	17030	16628	18276	17728	20774
Hancock	14687	16349	15111	16735	15877	15977	16295	17219	16712	16494	15528	15592	16899	14993	16665	18203	17093	15926	17869	17476	19092
Hardin	16902	17877	17196	17736	16981	16139	17566	17669	16749	16429	15681	15614	16898	16197	17228	18297	16051	16285	16562	16799	18557
Harrison	15207	16487	15353	15411	15071	14865	15091	15351	15640	14642	13565	14144	15051	13151	14994	16017	13520	13169	14328	13166	16312
Henry	17152	17099	16697	17080	16494	16329	16341	16263	15989	15585	14536	14836	15455	14964	16475	17147	16336	16501	16318	15149	16261
Howard	14986	15996	15626	16432	15993	14354	16010	15763	14382	15341	12642	12849	14050	12810	15095	16011	15012	13161	12921	12670	16350
Humboldt	16457	17935	16162	17276	18352	16425	16837	16493	15434	15784	14868	15774	16946	15101	16716	18903	16420	15576	18110	17877	18978
Ida	15968	17356	16678	17593	17684	17108	17242	16356	16036	15878	12154	13692	15185	12182	15323	17970	14601	12057	15010	16189	18854
Iowa	19056	19855	18259	18252	17913	16706	18116	16755	16833	17403	14310	14416	15503	14305	16267	17723	15802	15593	15097	14332	16697
Jackson	15961	16367	15706	16169	15825	14938	15500	14558	14210	14618	12522	13183	14002	13180	14504	15684	14347	14184	13714	13464	15255
Jasper	18280	18729	18170	18630	18520	18000	18756	18312	17794	17953	16826	16462	17278	16440	17556	18310	16515	16702	16231	16350	17710
Jefferson	15749	16567	16035	16801	16499	15772	16475	16292	15021	14887	12839	12726	14000	13221	15021	15316	14471	14911	14864	15860	15503
Johnson	19578	19396	18957	18873	18793	17887	17723	17733	16988	16935	16368	16081	16365	16474	17021	17517	16531	15427	14982	14221	14602
Jones	13992	14608	14265	15289	15045	14019	14640	13986	13708	14007	11950	12465	13609	12712	14508	15779	14007	13536	14220	14226	15220
Keokuk	15528	16358	16184	16931	16892	15164	17759	16495	15972	15970	14128	14512	14651	13563	15440	17115	15163	14759	15743	14244	17688
Kossuth	14864	17328	15498	17162	17888	17033	17210	17592	15829	15651	14849	14556	15885	14719	15529	17701	15888	14573	17766	17963	20287
Lee	16854	17081	16871	16933	16705	16250	16269	16637	16453	16345	15499	15522	16129	15743	16942	17260	16033	15819	15294	15043	15519
Linn	21096	20959	20515	20782	20769	20129	19774	19369	18625	18224	17808	17795	18089	18255	19370	19024	18254	17600	16790	16765	16866
Louisa	16331	17330	16107	17107	16572	15741	16407	16254	15347	15624	13590	15353	15837	15038	14918	15383	14776	14839	15856	14828	16739
Lucas	16212	16743	16071	16740	16789	16277	16184	15954	14898	14574	14147	14456	14818	14659	15169	16346	14235	15491	14312	13699	15704
Lyon	14152	15406	15525	15581	15992	14301	15485	15427	15158	15050	13081	14362	14694	12473	15726	16500	13925	11690	13496	13828	19073
Madison	16808	17388	16898	17445	17355	16361	16622	16454	15772	15307	14293	14913	14856	14538	15300	16649	15242	16337	15459	14424	17325
Mahaska	16199	16605	16285	16763	16417	15620	16734	16558	15805	15287	14193	14875	15539	14515	16167	17327	15443	15382	15255	15003	16478
Marion	18509	18508	17925	18290	18118	17887	18413	17745	17085	16934	16630	16195	16534	15832	17292	17632	15697	16551	16696	16378	17003
Marshall	18844	19235	18939	19036	19001	17638	18167	17870	17535	17465	17080	16962	17660	17591	18333	18916	17564	18283	17719	17613	18404
Mills	19604	20943	20481	20500	20070	20200	19952	19279	17683	16411	15327	15541	15523	15077	15967	17937	16005	16958	16782	15926	18959
Mitchell	17014	18777	18309	19326	18570	16888	18929	18355	16907	17056	14290	14249	14759	13250	15115	16952	15711	13342	15126	13968	17911
Monona	15137	16564	15387	16250	16333	15041	15104	15592	14997	14290	13094	15270	16500	12644	14016	16688	14704	12082	15858	14983	20016
Monroe	16880	17053	16678	16795	16019	15717	15580	14531	14174	14030	13047	13504	13404	13649	13866	14610	13713	14335	13530	13097	14780
Montgomery	16690	17691	17359	17365	17656	16496	16730	16839	15717	15557	15091	15845	16408	15716	18549	17983	16242	16692	15533	15782	18159
Muscatine	20070	20102	19112	19515	19037	18728	18677	18522	18327	18326	17316	17361	17807	17289	17726	18121	17389	17303	16690	15894	16395
O'Brien	16169	17394	17683	18112	18008	17947	17792	17610	16693	16228	15060	15529	16002	14846	16630	18632	16814	15566	16793	16865	19131
Osceola	13899	16177	16219	16455	16308	15685	15626	15077	13894	13926	12926	13255	15276	14341	16002	18329	16527	13871	16766	15235	21439

Table 2. Adjusted Per Capita Income (1993 Dollars) in Iowa Counties, 1973-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973
Page	17587	18297	17459	17643	17600	16198	16821	17145	15562	14554	14541	14477	14882	14322	16305	16524	15506	16189	15273	14441	17131
Palo Alto	14985	16763	15110	16728	16261	15671	16639	16475	15914	14121	13422	14377	15975	15712	15383	17658	15732	13943	15945	16117	19452
Plymouth	17259	18192	18035	18144	17687	15930	17521	16471	16331	15641	13211	14191	14756	12550	15438	17364	14855	13645	14990	14668	18073
Pocahontas	14745	17549	16218	16713	17700	16249	16505	17804	17280	14706	13881	15729	17680	15368	15817	18866	16622	13377	17050	17966	21334
Polk	23063	22967	22392	22391	22133	21656	20966	20740	20211	20100	19619	19327	19354	19630	20695	20344	19683	18618	17869	17716	17904
Pottawattamie	16883	17072	16636	16644	16397	16508	16562	16711	16397	16245	15600	15406	15775	15408	16206	17076	15814	15390	14381	14734	15554
Poweshiek	17692	18100	17662	18015	18005	17177	18078	17562	16072	16538	15003	15306	15862	14812	16640	17673	15828	16261	15871	15842	17755
Ringgold	13371	14978	14101	14833	15483	13538	14981	14575	12429	11370	11606	13013	12713	12305	13165	15314	12774	15074	14131	12931	17924
Sac	15698	17013	16182	16753	16804	16203	16346	17288	15467	15554	14013	15123	17339	14649	17833	18907	15881	14345	16501	17590	19917
Scott	19935	19812	19498	19817	19264	18735	18597	18415	18137	18132	17376	17506	18233	18317	19053	18864	18193	17392	16861	17143	17299
Shelby	15754	16888	16811	17195	17053	16091	16543	15664	16045	15323	13222	14284	15517	13130	16447	18193	13963	13774	14118	14461	17459
Sioux	15546	16243	15957	16043	16013	14983	15816	15565	15750	15649	13296	13122	14868	13623	15852	17416	14548	13888	13601	14871	17096
Story	17858	17847	17276	16987	17031	16328	16583	16178	15668	15289	14671	14532	14626	14712	15374	15597	14331	14007	13543	13450	14271
Tama	16027	16493	16315	17143	16749	16397	17253	16774	16104	15860	14257	15315	16396	14812	15523	16965	15930	15975	16520	15510	17570
Taylor	12525	13842	13528	13610	13423	12440	14222	14397	13514	11785	11787	13101	12907	12204	14270	14682	13678	14742	13528	12218	15653
Union	15507	16075	15567	15974	15809	15313	15313	15381	14942	14395	14198	14720	14303	14125	14720	14944	13998	14677	13727	13321	15475
Van Buren	13412	14277	13531	14040	13635	12812	13780	13389	12814	12326	11282	11946	12325	11682	13535	14729	13629	13926	13848	12777	14102
Wapello	16619	16720	16521	16581	16231	15346	15177	15013	14865	14971	14485	14720	14944	15514	15977	15777	15184	14643	14073	13759	14178
Warren	17788	17950	17459	17483	16876	16217	15938	15726	15620	15477	15021	15062	15359	15572	16704	17113	15657	15762	15213	14765	15755
Washington	17337	17691	17783	18485	17739	16564	18010	17777	17914	18446	16670	17067	17626	16068	18265	18961	16625	16509	17748	15441	17761
Wayne	13975	14919	14333	15008	15039	14074	15098	14975	13914	13223	12686	13152	13438	12854	14045	14970	12068	13692	13354	12203	14927
Webster	17428	17810	17207	16846	17037	16019	16193	16558	15535	15483	15777	15984	16828	16966	17753	17885	16431	15931	15948	16287	16704
Winnebago	17210	18355	17001	18424	18590	19211	18926	18461	17542	17990	15622	14965	15315	14325	16200	18063	18105	16938	17496	15622	19646
Winneshiek	16249	16824	16116	16981	16176	14762	15708	14983	13818	14129	11034	11619	12146	10925	12233	13944	12914	12432	12097	11968	12860
Woodbury	19434	19454	18140	18058	17893	17635	17768	17123	16668	16495	16171	16198	16730	16192	17148	17848	17263	16653	16192	15857	16736
Worth	14648	16122	15710	17206	16581	16277	17273	16700	16073	16380	13754	13661	14390	12625	14792	17565	15979	14730	16963	15688	19347
Wright	15359	17143	16296	17150	18592	17078	17407	17653	16887	17883	16885	16971	17758	16885	18393	19703	18221	16856	18822	18822	19901
State of Iowa	18275	18671	18086	18374	18131	17414	17596	17289	16700	16574	15661	15823	16486	16003	17206	17768	16506	15913	15869	15688	16844
Counties:																					
Range: Low	12525	13141	12997	13423	13423	12087	12996	12620	12064	11184	10176	10817	10741	10043	11169	12861	10893	11690	11218	11447	12860
High	23063	22967	22392	22391	22133	21656	20966	20740	20211	20100	19619	19327	19354	19630	20695	20344	19683	18618	18822	18877	22303
Number Dec.	91	5	91	28	6	81	24	6	36	6	76	92	14	97	91	2	35	49	33	97	
United States	20800	20717	20319	20557	20498	20182	19745	19510	18798	18338	17387	16984	17095	17021	17543	17569	16939	16449	15866	16126	16459

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1973-1993.

County	Change in Per Capita Income, 1973-1993			Change in Adjusted Per Capita Income, 1973-1993		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Adair	9404	173.4	9	-2442	-14.1	11
Adams	8710	157.6	7	-3367	-19.1	9
Allamakee	10463	232.2	6	619	4.3	10
Appanoose	10357	235.9	0	766	5.5	9
Audubon	10581	194.8	6	-1284	-7.4	10
Benton	10923	201.6	3	-916	-5.3	12
Black Hawk	13075	266.9	0	2372	15.2	7
Boone	13496	249.2	0	1664	9.6	10
Bremer	12052	238.9	2	1032	6.4	10
Buchanan	10689	228.2	4	456	3.1	10
Buena Vista	10103	171.1	4	-2800	-14.9	12
Butler	10210	196.4	4	-1148	-6.9	10
Calhoun	9591	158.7	4	-3611	-18.8	12
Carroll	12044	216.2	5	-129	-0.7	10
Cass	10555	186.2	5	-1832	-10.1	11
Cedar	12123	216.4	6	-118	-0.7	10
Cerro Gordo	12942	252.3	0	1737	10.6	9
Cherokee	10234	173.3	5	-2671	-14.2	10
Chickasaw	10791	202.4	4	-856	-5.0	10
Clarke	8989	187.3	5	-1493	-9.8	9
Clay	11206	194.1	5	-1406	-7.6	10
Clayton	10325	228.7	7	461	3.2	9
Clinton	12632	259.3	1	1988	12.8	9
Crawford	11400	226.2	5	391	2.4	10
Dallas	14020	240.7	0	1296	7.0	11
Davis	9722	203.2	4	-732	-4.8	9
Decatur	8636	210.2	6	-339	-2.6	10
Delaware	10431	230.0	7	521	3.6	10
Des Moines	13006	244.4	0	1379	8.1	7
Dickinson	13434	222.4	4	236	1.2	9
Dubuque	13850	297.7	0	3685	24.9	7
Emmet	10049	175.3	4	-2478	-13.6	11
Fayette	9907	217.2	5	-60	-0.4	11
Floyd	11074	207.7	2	-573	-3.4	11
Franklin	9044	150.2	6	-4108	-21.4	11
Fremont	8448	133.0	6	-5425	-26.8	10
Greene	8721	124.5	8	-6579	-29.5	13
Grundy	11863	191.1	4	-1702	-8.6	11
Guthrie	11239	221.1	4	132	0.8	10
Hamilton	10893	167.0	6	-3358	-16.2	9
Hancock	8692	145.0	5	-4405	-23.1	11
Hardin	11075	190.1	3	-1655	-8.9	11
Harrison	10085	196.9	7	-1105	-6.8	11
Henry	12046	235.9	0	891	5.5	8
Howard	9852	191.9	7	-1364	-8.3	9
Humboldt	10498	176.2	7	-2521	-13.3	11
Ida	10048	169.7	8	-2886	-15.3	11
Iowa	13813	263.5	5	2359	14.1	9
Jackson	11171	233.2	3	706	4.6	9
Jasper	12719	228.7	1	570	3.2	10

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1973-1993 (continued).

County	Change in Per Capita Income, 1973-1993			Change in Adjusted Per Capita Income, 1973-1993		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Jefferson	10881	223.5	4	246	1.6	8
Johnson	14993	327.0	0	4976	34.1	6
Jones	9213	192.8	6	-1228	-8.1	11
Keokuk	9974	179.6	6	-2160	-12.2	9
Kossuth	8494	133.3	6	-5423	-26.7	11
Lee	11981	245.9	0	1335	8.6	9
Linn	15800	298.3	0	4230	25.1	5
Louisa	11075	210.7	6	-408	-2.4	10
Lucas	11281	228.8	4	508	3.2	9
Lyon	8163	136.3	6	-4921	-25.8	12
Madison	11368	209.0	4	-517	-3.0	8
Mahaska	11025	213.1	2	-279	-1.7	8
Marion	13170	246.7	0	1506	8.9	8
Marshall	13065	226.1	0	440	2.4	8
Mills	13651	229.3	3	645	3.4	8
Mitchell	11390	202.5	7	-897	-5.0	9
Monona	8852	140.8	7	-4879	-24.4	11
Monroe	12239	263.7	2	2100	14.2	8
Montgomery	10988	192.7	4	-1469	-8.1	11
Muscatine	14922	289.9	0	3675	22.4	7
O'Brien	10162	169.2	5	-2962	-15.5	10
Osceola	7167	106.5	5	-7540	-35.2	10
Page	12208	227.0	3	456	2.7	9
Palo Alto	8877	145.3	8	-4467	-23.0	9
Plymouth	11584	204.1	7	-814	-4.5	9
Pocahontas	8046	120.1	8	-6589	-30.9	12
Polk	17441	310.2	0	5159	28.8	4
Pottawattamie	11999	245.7	0	1329	8.5	10
Poweshiek	12117	217.3	2	-63	-0.4	10
Ringgold	7743	137.6	7	-4553	-25.4	10
Sac	9444	151.0	7	-4219	-21.2	13
Scott	14503	267.0	0	2636	15.2	7
Shelby	10272	187.4	6	-1705	-9.8	11
Sioux	10178	189.6	6	-1550	-9.1	9
Story	13377	298.5	0	3587	25.1	7
Tama	10510	190.5	6	-1543	-8.8	10
Taylor	7610	154.8	6	-3128	-20.0	10
Union	10648	219.1	3	32	0.2	8
Van Buren	8984	202.9	4	-690	-4.9	9
Wapello	12167	273.3	0	2441	17.2	8
Warren	12841	259.6	0	2033	12.9	9
Washington	11760	210.9	4	-424	-2.4	12
Wayne	9288	198.2	6	-952	-6.4	10
Webster	12183	232.3	0	724	4.3	13
Winnebago	11041	179.0	4	-2436	-12.4	11
Winneshiek	12211	302.4	5	3389	26.4	9
Woodbury	14179	269.8	0	2698	16.1	7
Worth	8573	141.1	7	-4699	-24.3	9
Wright	9110	145.8	5	-4542	-22.8	12
State of Iowa	12986	245.5	0	1431	8.5	8

Table 4. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1983-1993.

County	Change in Per Capita Income, 1983-1993			Change in Adjusted Per Capita Income, 1983-1993		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Adair	6445	76.9	3	2904	24.4	5
Adams	5326	59.8	3	1561	12.3	3
Allamakee	7133	91.0	3	3822	34.3	4
Appanoose	5800	64.8	0	2020	15.9	3
Audubon	7981	99.4	2	4588	40.2	3
Benton	6063	59.0	2	1720	11.8	6
Black Hawk	6627	58.4	0	1833	11.4	3
Boone	7461	65.2	0	2623	16.1	4
Bremer	6938	68.3	1	2646	18.3	4
Buchanan	6887	81.2	2	3302	27.4	4
Buena Vista	5648	54.5	1	1271	8.6	5
Butler	6052	64.7	2	2099	15.8	4
Calhoun	4863	45.1	1	313	2.0	5
Carroll	6305	55.7	1	1526	9.5	4
Cass	5632	53.2	2	1157	7.7	4
Cedar	7319	70.3	1	2922	19.7	4
Cerro Gordo	6409	55.0	0	1482	8.9	5
Cherokee	6497	67.4	1	2423	17.7	3
Chickasaw	6854	74.0	2	2939	22.3	3
Clarke	4914	55.4	3	1165	9.2	4
Clay	6901	68.5	2	2643	18.4	2
Clayton	7416	99.9	3	4280	40.5	4
Clinton	6924	65.4	0	2454	16.3	4
Crawford	7272	79.3	1	3399	26.1	4
Dallas	7652	62.8	0	2501	14.4	5
Davis	6131	73.2	1	2592	21.8	4
Decatur	5590	78.1	2	2568	25.2	4
Delaware	7096	90.2	3	3771	33.7	4
Des Moines	6842	59.6	0	1989	12.2	3
Dickinson	8247	73.5	3	3503	21.9	3
Dubuque	8024	76.6	0	3597	24.1	3
Emmet	5795	58.0	2	1575	11.1	4
Fayette	5800	66.9	3	2138	17.3	4
Floyd	6402	64.0	2	2176	15.3	4
Franklin	5349	55.1	3	1245	9.0	4
Fremont	3114	26.7	3	-1822	-11.0	5
Greene	4497	40.1	4	-246	-1.5	5
Grundy	6537	56.7	2	1664	10.1	4
Guthrie	6931	73.8	2	2963	22.2	3
Hamilton	5335	44.2	3	231	1.3	4
Hancock	3771	34.5	3	-841	-5.4	5
Hardin	5878	53.3	2	1221	7.8	4
Harrison	5671	59.5	2	1642	12.1	5
Henry	6933	67.8	0	2616	18.0	2
Howard	6099	68.6	4	2344	18.5	4
Humboldt	6005	57.5	3	1589	10.7	5
Ida	7424	86.9	2	3814	31.4	4
Iowa	8996	89.4	2	4746	33.2	4
Jackson	7158	81.3	0	3439	27.5	4
Jasper	6451	54.5	1	1454	8.6	4

Table 4. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1983-1993 (continued).

County	Change in Per Capita Income, 1983-1993			Change in Adjusted Per Capita Income, 1983-1993		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Jefferson	6723	74.5	3	2910	22.7	3
Johnson	8071	70.1	0	3210	19.6	1
Jones	5591	66.6	3	2042	17.1	4
Keokuk	5596	56.3	3	1400	9.9	3
Kossuth	4425	42.4	2	15	.1	5
Lee	5958	54.7	0	1355	8.7	4
Linn	8577	68.5	0	3288	18.5	1
Louisa	6777	70.9	3	2741	20.2	4
Lucas	6267	63.0	2	2065	14.6	3
Lyon	4956	53.9	2	1071	8.2	5
Madison	6760	67.3	1	2515	17.6	3
Mahaska	6221	62.3	1	2006	14.1	3
Marion	6818	58.3	0	1879	11.3	2
Marshall	6837	56.9	0	1764	10.3	3
Mills	8829	81.9	1	4277	27.9	3
Mitchell	6968	69.4	3	2724	19.1	4
Monona	5932	64.4	2	2043	15.6	5
Monroe	7708	84.0	0	3833	29.4	2
Montgomery	6081	57.3	1	1599	10.6	5
Muscatine	7897	64.9	0	2754	15.9	2
O'Brien	5582	52.7	1	1109	7.4	3
Osceola	4812	53.0	1	973	7.5	4
Page	7365	72.1	1	3046	20.9	4
Palo Alto	5549	58.8	3	1563	11.6	3
Plymouth	7972	85.8	2	4048	30.6	3
Pocahontas	4987	51.1	3	864	6.2	5
Polk	9271	67.2	0	3444	17.6	0
Pottawattamie	5916	53.9	0	1283	8.2	5
Poweshiek	7145	67.7	1	2689	17.9	4
Ringgold	5212	63.9	3	1765	15.2	5
Sac	5847	59.4	2	1685	12.0	6
Scott	7720	63.2	0	2559	14.7	1
Shelby	6459	69.5	2	2532	19.1	4
Sioux	6199	66.3	2	2250	16.9	4
Story	7544	73.1	0	3187	21.7	2
Tama	6004	59.9	3	1770	12.4	3
Taylor	4239	51.2	2	738	6.3	5
Union	5526	55.4	1	1309	9.2	3
Van Buren	5481	69.1	2	2130	18.9	3
Wapello	6436	63.2	0	2134	14.7	3
Warren	7228	68.4	0	2767	18.4	2
Washington	5618	47.9	1	667	4.0	6
Wayne	5057	56.7	3	1289	10.2	4
Webster	6337	57.1	0	1651	10.5	5
Winnebago	6228	56.7	2	1588	10.2	5
Winneshiek	8492	109.5	3	5215	47.3	4
Woodbury	8066	71.0	0	3263	20.2	2
Worth	4979	51.5	3	894	6.5	4
Wright	3489	29.4	4	-1526	-9.0	6
State of Iowa	7265	66.0	0	2614	16.7	3

capita income adjusted for inflation was higher in 1993 than it was in 1973 for Iowa (Table 2, Figure 3), but it did not increase each year as was the case before adjustment (Table 1). Instead, there were eight times (1973 to 1974, 1978 to 1979, 1979 to 1980, 1981 to 1982, 1982 to 1983, 1987 to 1988, 1990 to 1991, 1992 to 1993) when it declined. The purchasing power of Iowa's residents was greater in 1978 than it was from 1979 through 1988.

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 4 years, \$8,000-\$8,999 in 8 years, and more than \$9,000 in 7 years. Adjusted per capita income never increased in all Iowa counties. More than 90 counties had decreases from 1973 to 1974, 1978 to 1979, 1979 to 1980, 1981 to 1982, 1990 to 1991, and 1992 to 1993 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 1973 and 1993, Iowa's adjusted per capita income increased by \$1,431. Forty-one counties experienced gains (Table 3). Seven counties (Dubuque, Johnson, Linn, Muscatine, Polk, Story, Winneshiek) increased by at least \$3,000, with only Polk exceeding \$5,000. In 58 counties, adjusted per capita income was lower in 1993 than it had been 20 years earlier. Eighteen counties had figures at least \$3,000 lower in 1993 than in 1973. In five (Fremont, Greene, Kossuth, Osceola, Pocahontas), the drop exceeded \$5,000. In these and several other rural counties, the decline is due to comparing relatively good (1973) and bad (1993) years for agriculture. None of the counties had increases in adjusted per capita income in all 20 year-to-year comparisons from 1973 through 1993. Polk declined only four times, while Linn had five and Johnson had six decreases. Nineteen counties declined in 11 instances when adjacent years were compared, seven declined 12 times, and Greene, Sac, and Webster had losses in 13 of the 20 comparisons.

The state's percentage increase in adjusted per capita income from 1973 to 1993 was 8.5 percent. Gains ranged from less than 10 percent in 25 counties to more than 20 percent in seven others. Thirty counties had percentage declines of less than 10 percent in adjusted per capita income when 1973 and 1993 were compared; another 15 were down at least 20 percent. These percentage changes for adjusted per capita income were much less dramatic than those for the unadjusted figures. The adjusted numbers, however, represented real gains in buying power after the effect of inflation was removed.

When the span of change is shortened to 1983-1993, again per capita income increased in every county (Table 4). The state and 25 counties had no instances when per capita income decreased from one year to the next during this period, although declines occurred three times in 25 counties and four times in Greene, Howard, and Wright. The gain statewide in per capita income was \$7,265 from 1983 to 1993, an increase of 66 percent.

When income in 1983 is adjusted for inflation that occurred from that year to 1993, however, the increase is reduced to \$2,614 (+16.7%) (Table 4). In three of the year-to-year comparisons, adjusted per capita income declined in Iowa during those years. Benton, Sac, Washington, and Wright reported decreases in 6 of the 10 comparisons; declines occurred in 5 years for 20 others. Only Polk had an increase in adjusted per capita income each year. All but four counties noted adjusted figures higher in 1993 than in 1983, indicating that buying power had increased in most. Gains of at least 30 percent occurred in eight counties, with three (Audubon, Clayton, Winneshiek) at 40 percent or higher when the 1983 and 1993 figures for adjusted per capita income were compared.

Figure 1. Per capita income, 1993.

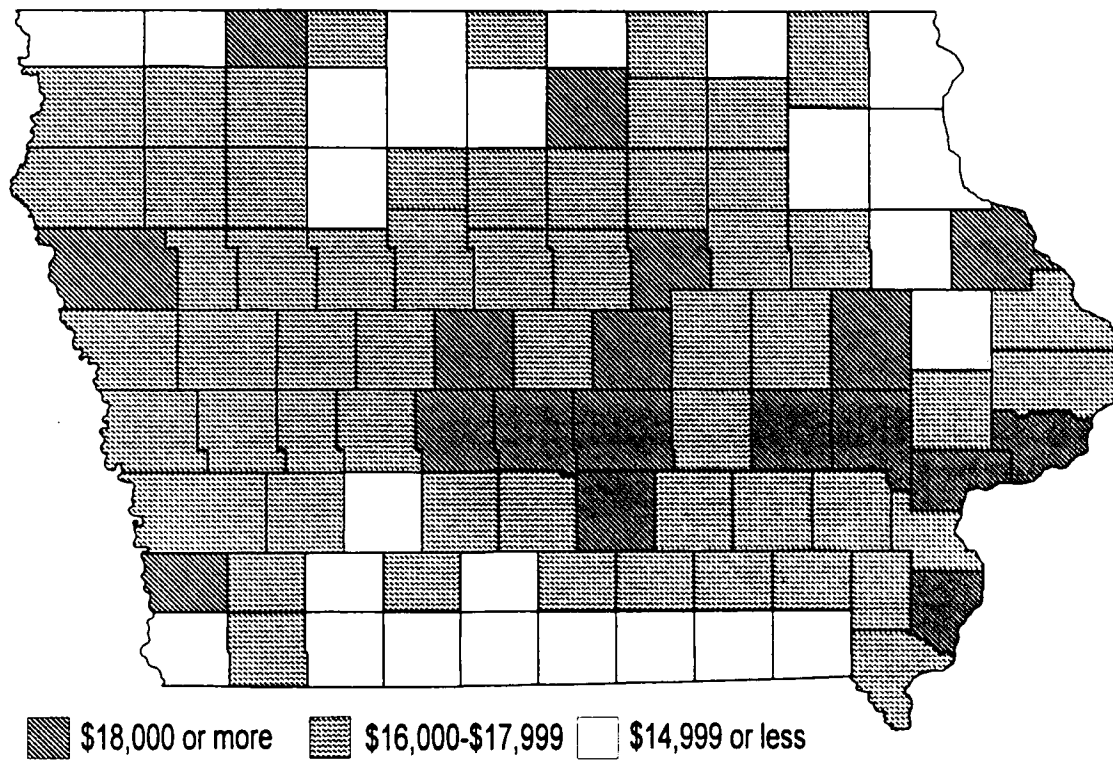




Figure 2. Per capita income in Iowa, 1973-1993.

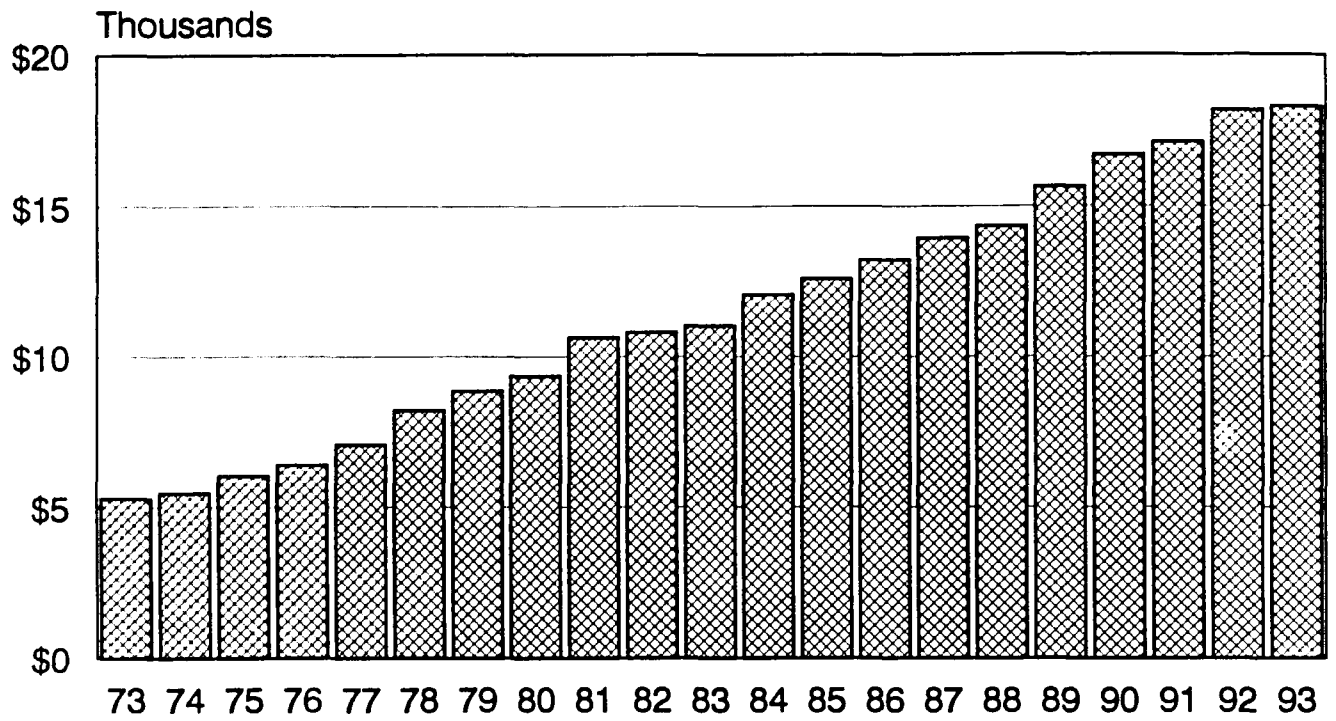
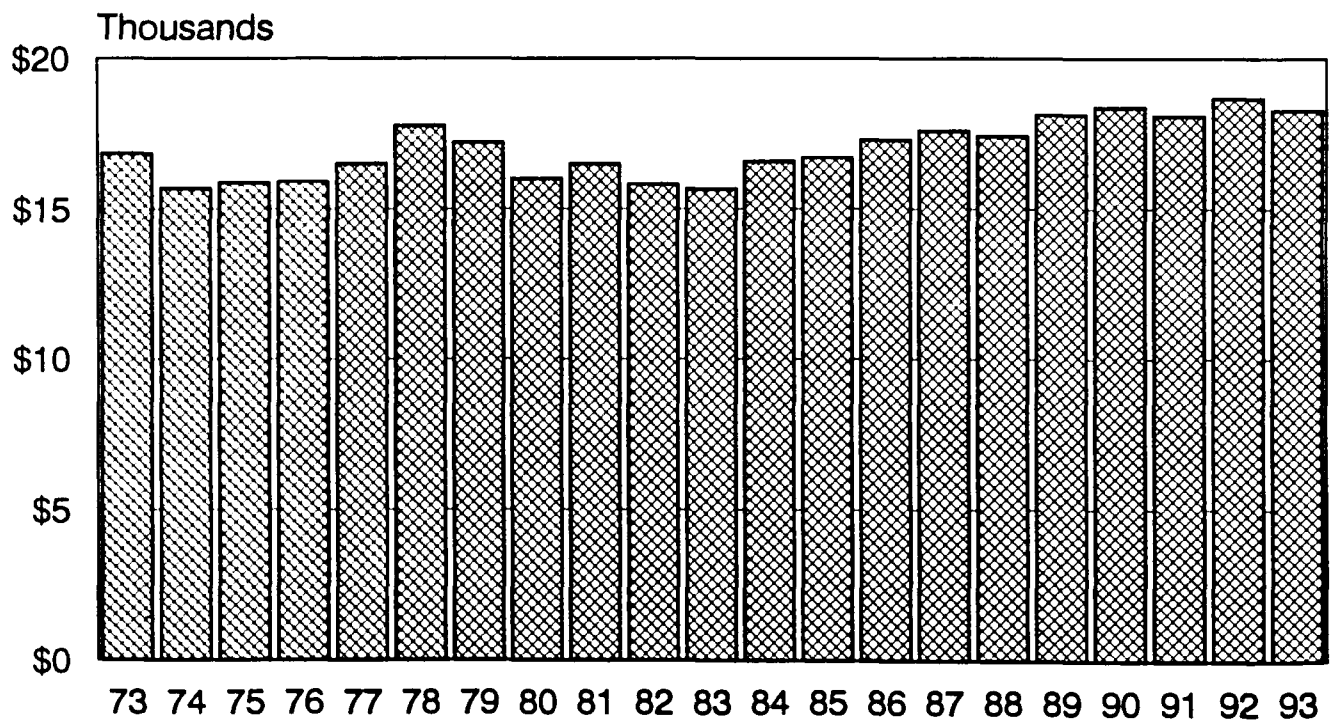


Figure 3. Adjusted per capita income (in 1993 dollars) in Iowa, 1973-1993.



## Personal Income in Iowa's Counties:

1983-1993

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Information related to selected categories of income is estimated annually by the Bureau of Economic Analysis of the U.S. Department of Commerce. Four categories are included in this report. Nonfarm earnings include any income from wages, salaries, and self-employment received from other than farming activities. The second category consists of farm earnings, which refer to wages, salaries, and self-employment earnings received in farming activities. Dividends, interest, and rent constitute the third category. The fourth category includes transfer payments, with social security and public assistance benefits the two primary components; also included is the imputed value of non-monetary income or benefits such as Medicare, public housing subsidies, and other "in-kind" resources. The sum of the four categories represents total 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 1993 dollar values) are presented. The adjusted figures indicate whether income trends were keeping pace with the rising prices of goods and services.

### Total Personal Income

Total personal income is derived from broad sources: personal employment, which generates personal earnings from farm or nonfarm sources; dividends, interest, and rents received by individuals, 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 \$51.6 billion in 1993, up a half billion from 1992 and \$20 billion from 1983 (Table 1). In 1993, income ranged from \$65.4 million in Adams to \$7.9 billion in Polk. 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 63.1 percent from 1983 to 1993 in Iowa; gains occurred in all counties. Two (Adams, Fremont) increased by less than \$20 million; three others (Linn, Polk, Scott) each gained more than \$1 billion from 1983 to 1993.

When inflation is taken into account, however, increases in total personal income show a somewhat different pattern (Table 2). Adjusted income increased between 1983 and 1993 but not annually. Instead, only 6 of the 10 year-to-year comparisons produced gains; the total increase for the period was \$6.6 billion or 14.7 percent. County patterns also differed; 22 counties had lower total personal income in 1993 than in 1983 after inflation was included in the calculations. In general, declines in adjusted total income occurred in rural counties. Wright's decrease was more than \$50 million, which was the highest drop in these 22 counties. Gains in adjusted income in the remaining 77 counties were greatest in Polk (+\$1.9 billion), Linn (+\$742 million), and Johnson (+\$528 million); eight others increased by at least \$100 million from 1983 to 1993.

### Nonfarm Earnings

Of the four categories that are summed to yield total personal income, nonfarm earnings constitutes by far the largest share (\$33.1 billion, or 64.2% of the total in 1993) (Table 3). Statewide,

Table 1. Total Personal Income (in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	124952	134573	125045	127099	121819	104931	106378	107343	96331	89883	77751
Adams	65409	71036	67744	69835	66536	57025	63980	61292	54376	49558	48443
Allamakee	209011	210185	192198	199182	183932	163188	169706	158564	147967	147942	117037
Appanoose	204254	201239	189870	183497	172230	158888	154561	145995	136918	134771	131846
Audubon	112273	122010	118920	115526	112536	96030	101688	91132	90596	82567	66072
Benton	381465	374803	349437	345376	328646	288754	296263	288924	264617	264480	235196
Black Hawk	2236108	2160763	2031152	1972132	1837708	1694820	1604778	1536987	1557240	1575277	1545333
Boone	477312	473992	442463	425440	411934	369905	363324	343003	321974	306565	296052
Bremer	396081	394799	362580	352843	325545	294984	289349	278373	279576	275902	251411
Buchanan	325157	332891	318890	311917	285274	251776	258180	230969	229028	228647	193101
Buena Vista	324357	331632	318047	311758	301345	273956	266326	267229	256582	234739	214718
Butler	241912	253638	238481	234532	204476	192942	202365	193270	196316	190899	161331
Calhoun	180342	202477	176960	175235	175586	161745	156528	154806	150444	144255	139856
Carroll	380632	391177	366401	353798	335554	316190	311832	292381	284568	278365	253941
Cass	244149	257388	243578	236818	231599	204980	207573	202091	198939	194883	178891
Cedar	310572	312779	294171	293952	276661	245567	245275	227227	227250	229273	193579
Cerro Gordo	842065	832063	798947	781947	709285	679845	662829	635771	614424	597118	556793
Cherokee	224791	234872	233252	228522	212905	202155	194158	186061	178591	172404	152746
Chickasaw	214855	222138	210307	207254	193541	177190	182798	171541	166584	164725	140896
Clarke	115219	118219	111960	113418	107560	96035	96261	90360	84609	77162	75294
Clay	300368	308404	286329	291477	276102	255710	242712	235459	222916	208782	196129
Clayton	279839	295680	272599	284594	261350	227960	240520	226600	210716	212947	153714
Clinton	897327	887802	828533	807047	758281	695953	675850	646664	640058	639877	584190
Crawford	271413	282518	261075	252424	233945	221921	216907	209555	196838	196279	170824
Dallas	626556	606252	555879	527951	497412	448621	430255	404874	383118	374716	357057
Davis	121846	119271	111435	113005	98209	89396	90504	88156	83683	82773	75300
Decatur	102718	103944	99975	101049	98153	84282	88503	84996	81146	74379	66582
Delaware	274050	289831	277530	289203	255730	226739	241110	218073	201138	199781	148686
Des Moines	786197	763245	727052	709532	657527	617358	599132	580345	564956	552551	511397
Dickinson	299961	298891	276321	272845	254217	226582	215163	204291	191737	194579	171477
Dubuque	1628026	1580276	1467283	1427384	1323305	1233336	1195165	1114650	1081774	1045925	944762
Emmet	179995	186160	170439	172985	160787	148377	147437	145642	144362	137320	127909
Fayette	317662	329360	315707	316041	292453	256734	270231	251547	248485	254067	214688
Floyd	275834	283419	270778	271700	242887	226862	229833	220478	213357	214575	189603
Franklin	169422	193264	172587	180098	168446	154827	161388	162518	148342	142742	123231
Fremont	120720	136321	125801	121168	116994	112855	108389	115955	110152	98203	104932
Greene	159268	178406	158207	151547	155853	136393	145637	144426	133926	128209	131647
Grundy	217854	228973	210364	205754	185768	174260	181602	173659	169334	169032	159361
Guthrie	182928	189224	178778	174523	166193	144013	147030	137440	133368	125658	108279
Hamilton	279701	297334	284256	269733	277014	226547	238283	235376	225338	212259	208622
Hancock	178937	196844	178394	191566	173111	166444	163452	169633	166367	160080	145051
Hardin	314605	326643	307985	307279	282053	258860	276167	275775	265088	255785	236014
Harrison	225402	235561	212998	206023	191552	180530	177105	176297	178851	164039	149440
Henry	335369	325844	307257	299181	271149	253453	245484	234664	222687	208820	189173
Howard	148378	153925	145676	146246	135844	117043	127908	123407	113326	120140	95594
Humboldt	172371	184148	163040	168635	171204	147455	146206	142254	134771	136015	124725
Ida	132761	139801	130550	133210	128100	118987	115405	108228	106190	101879	75395
Iowa	283209	285025	254569	242234	226061	201372	211352	191354	191617	191835	152015
Jackson	320959	319154	295184	292227	273778	248551	250915	231265	227679	229299	191807
Jasper	639493	634607	596683	588903	553768	511485	511235	482810	463591	455864	416174

Table 1. Total Personal Income (in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	264087	265535	248291	249072	230661	208841	208690	199152	181750	174638	144363
Johnson	1938600	1849051	1733069	1652445	1531893	1361472	1272192	1212925	1135654	1082082	991872
Jones	277657	280590	263893	270288	251844	223577	224351	209835	205171	204632	168773
Keokuk	180499	184618	177788	178315	170158	146776	166885	152402	148633	144561	124586
Kossuth	269918	306984	268051	289261	289282	266009	261084	264631	243802	237802	219652
Lee	655437	648581	620448	593933	559584	522703	508744	510480	503279	491593	455365
Linn	3690067	3524801	3308252	3192165	3002296	2753279	2579099	2433814	2316706	2193831	2072644
Louisa	191591	192487	176825	180404	165265	149400	149562	143036	135135	134543	113826
Lucas	146820	147259	138489	137530	132129	123300	119884	116017	109433	106258	99951
Lyon	169330	179328	175295	169553	165216	141540	148189	144133	142438	138539	118009
Madison	216617	216152	200837	198295	185598	165589	160823	153333	144844	135695	123508
Mahaska	350369	347132	330213	328037	304113	275562	284069	273330	259198	245264	219500
Marion	562882	543827	510764	498053	464835	433350	425596	394796	375066	362380	344940
Marshall	714455	706465	682438	661655	629313	560330	559097	542504	532324	520156	498927
Mills	262384	272296	256782	245219	227459	217360	204886	191819	176059	158032	142801
Mitchell	187206	197992	189019	191675	175546	153110	167222	158097	146127	143782	119118
Monona	152095	161173	144845	147565	142178	125994	123056	124818	121479	115640	104751
Monroe	137723	135924	128660	123936	112627	106195	102022	93050	92066	88910	81317
Montgomery	201195	204821	196452	190324	184602	165509	161422	159863	153027	149398	139726
Muscatine	826572	797984	732339	708132	653127	611010	585387	566880	555882	542933	499249
O'Brien	248937	261761	258016	253755	240518	229764	220218	214451	205164	196901	179095
Osceola	99948	113480	111472	108788	103007	95588	92868	88279	82462	82653	74450
Page	292822	296417	278006	270192	257405	227794	229331	229579	211448	194283	188804
Palo Alto	156250	171330	151140	161532	151468	141685	145998	144174	143369	125287	117835
Plymouth	411724	418294	399564	385247	355502	304290	321960	293012	287203	270709	223744
Pocahontas	135095	158745	143926	144010	147377	131523	130615	140853	139918	115387	106628
Polk	7901780	7544457	7038286	6675119	6166787	5665877	5198616	4910497	4694860	4489004	4219180
Pottawattamie	1412337	1385923	1302784	1249660	1167031	1119951	1085910	1063346	1040879	1004347	933856
Poweshiek	334302	333293	316244	311301	293546	265046	266585	249415	227140	225002	200012
Ringgold	72072	78514	71861	72904	72715	61080	64889	62412	54448	49669	49037
Sac	189300	201237	186037	187257	179356	166038	162827	168631	152236	150149	132593
Scott	3101312	2986597	2825019	2722978	2507151	2327186	2231676	2155038	2120855	2067006	1928055
Shelby	207333	217296	210857	206485	195573	177469	177594	166109	172272	164326	136366
Sioux	479366	480147	454100	435845	411800	366635	371292	355929	360475	348252	286631
Story	1337709	1289995	1209302	1145802	1084488	985491	952947	906837	869496	817894	753847
Tama	282099	279466	267972	271274	252876	238030	243277	233456	225498	218700	190779
Taylor	88640	94959	90405	87828	83153	74529	83312	83404	79905	69216	68170
Union	194815	196238	186344	185363	174138	161465	157058	152865	148284	141538	136623
Van Buren	104155	107280	98923	97972	90431	81318	84325	80376	77065	73069	66095
Wapello	599184	583664	558126	537699	502834	458022	442245	431505	431643	425451	400024
Warren	674826	649938	604335	574263	528511	489938	459024	432972	419004	398524	372417
Washington	351504	347418	334366	329439	298399	264180	276128	264595	264110	264708	231724
Wayne	97686	101189	95319	96360	92465	83558	88629	85993	80330	75860	70870
Webster	695415	694551	654393	616694	595471	538002	526882	526862	499573	490434	489020
Winnebago	203950	212679	192435	203062	194425	191957	182428	175452	167055	166500	138421
Winneshiek	341927	343455	320380	321272	290683	253141	260249	241547	223027	222769	168957
Woodbury	1959900	1889904	1701425	1614505	1510381	1413997	1358154	1272265	1237879	1190595	1132537
Worth	116682	123534	117034	124561	114988	108711	111081	107306	104533	104288	85043
Wright	217657	237670	217957	221960	230375	203937	201491	202293	197397	206394	188188
State of Iowa	51558316	50955232	47712445	46374629	43352498	39680920	38564901	36884078	35587442	34447409	31605944

Table 2. Adjusted Total Personal Income (1993 dollars in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	124952	138450	132323	139977	141158	127498	134316	140501	127930	123635	110599
Adams	65409	73082	71687	76911	77098	69289	80783	80225	72212	68168	68909
Allamakee	209011	216240	203384	219363	213131	198284	214275	207545	196503	203497	166482
Appanoose	204254	207036	200921	202089	199571	193060	195153	191093	181830	185380	187548
Audubon	112273	125525	125841	127231	130401	116683	128394	119283	120313	113572	93986
Benton	381465	385600	369775	380370	380818	350855	374069	378173	351417	363796	334560
Black Hawk	2236108	2223007	2149367	2171952	2129441	2059320	2026235	2011763	2068048	2166818	2198198
Boone	477312	487646	468215	468546	477328	449459	458742	448957	427588	421685	421127
Bremer	396081	406172	383683	388594	377225	358425	365340	364363	371283	379508	357626
Buchanan	325157	342480	337450	343521	330561	305925	325985	302315	304154	314508	274681
Buena Vista	324357	341185	336558	343346	349183	332875	336270	349776	340746	322887	305431
Butler	241912	260944	252361	258295	236936	234437	255511	252971	260712	262585	229489
Calhoun	180342	208310	187259	192990	203460	196531	197636	202626	199793	198425	198942
Carroll	380632	402445	387726	389645	388823	384192	393727	382698	377912	382895	361225
Cass	244149	264802	257754	260813	268365	249064	262087	264517	264195	268065	254468
Cedar	310572	321789	311292	323736	320581	298380	309691	297418	301793	315369	275361
Cerro Gordo	842065	856032	845447	861175	821883	826057	836905	832161	815968	821345	792024
Cherokee	224791	241638	246828	251676	246703	245632	245149	243535	237173	237144	217277
Chickasaw	214855	228537	222547	228253	224265	215298	230806	224530	221227	226582	200421
Clarke	115219	121624	118476	124910	124635	116689	121542	118272	112363	106138	107104
Clay	300368	317288	302994	321010	319933	310705	306455	308192	296037	287183	278989
Clayton	279839	304198	288465	313430	302839	276987	303687	296597	279835	292912	218654
Clinton	897327	913377	876754	888818	878657	845629	853346	846419	850011	880161	830996
Crawford	271413	290656	276270	278000	271083	269649	273872	274287	261405	269985	242993
Dallas	626556	623716	588232	581444	576375	545104	543251	529940	508789	515428	507905
Davis	121846	122707	117921	124455	113800	108622	114273	115387	111133	113856	107112
Decatur	102718	106938	105794	111287	113735	102408	111746	111251	107764	102309	94711
Delaware	274050	298180	293683	318506	296327	275503	304432	285436	267116	274802	211502
Des Moines	786197	785231	769367	781423	761908	750131	756480	759614	750274	760043	727450
Dickinson	299961	307501	292403	300490	294574	275312	271670	267397	254631	267646	243922
Dubuque	1628026	1625798	1552680	1572009	1533378	1498586	1509047	1458966	1436619	1438686	1343900
Emmet	179995	191523	180359	190512	186312	180288	186158	190631	191716	188886	181947
Fayette	317662	338848	334081	348063	338879	311949	341201	329250	329993	349473	305388
Floyd	275834	291583	286538	299229	281445	275652	290193	288584	283343	295151	269706
Franklin	169422	198831	182632	198346	195187	188125	203773	212720	197001	196344	175293
Fremont	120720	140248	133123	133445	135567	137126	136855	151774	146284	135080	149263
Greene	159268	183545	167415	166902	180594	165727	183885	189039	177857	176354	187265
Grundy	217854	235569	222607	226601	215258	211738	229295	227302	224879	232506	226687
Guthrie	182928	194675	189183	192206	192576	174985	185644	179895	177116	172845	154024
Hamilton	279701	305899	300800	297063	320990	275270	300862	308084	299254	291966	296760
Hancock	178937	202514	188777	210976	200592	202241	206379	222033	220939	220193	206331
Hardin	314605	336052	325910	338413	326829	314532	348696	360962	352042	351836	335724
Harrison	225402	242347	225395	226898	221961	219356	223617	230755	237518	225638	212575
Henry	335369	335230	325140	329494	314194	307962	309955	307152	295733	287235	269094
Howard	148378	158359	154154	161064	157409	142215	161500	161527	150499	165254	135980
Humboldt	172371	189453	172529	185721	198382	179168	184604	186196	178979	187091	177418
Ida	132761	143828	138148	146707	148436	144577	145713	141660	141023	140136	107248
Iowa	283209	293236	269385	266778	261948	244680	266859	250463	254471	263872	216238
Jackson	320959	328348	312364	321836	317240	302006	316812	302703	302363	315404	272841
Jasper	639493	652888	631411	648572	641678	621488	645499	631950	615659	627048	591997

Table 2. Adjusted Total Personal Income (1993 dollars in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	264087	273184	262742	274308	267278	253756	263497	260670	241368	240217	205353
Johnson	1938600	1902316	1833935	1819873	1775079	1654279	1606303	1587598	1508173	1488421	1410913
Jones	277657	288673	279252	297674	291824	271661	283271	274653	272471	281475	240075
Keokuk	180499	189936	188135	196382	197170	178343	210713	199479	197388	198846	177220
Kossuth	269918	315827	283652	318569	335205	323219	329652	346376	323774	327100	312450
Lee	655437	667264	656559	654111	648417	635119	642354	668168	668365	676194	647745
Linn	3690067	3626338	3500796	3515600	3478906	3345418	3256438	3185620	3076635	3017649	2948284
Louisa	191591	198032	187116	198683	191501	181531	188841	187220	179462	185066	161915
Lucas	146820	151501	146549	151465	153104	149818	151369	151855	145329	146160	142178
Lyon	169330	184494	185497	186732	191444	171981	187107	188656	189161	190563	167865
Madison	216617	222379	212526	218387	215061	201202	203059	200698	192356	186651	175687
Mahaska	350369	357132	349432	361274	352390	334826	358673	357762	344220	337365	312233
Marion	562882	559493	540491	548517	538627	526549	537369	516749	498096	498459	490669
Marshall	714455	726816	722157	728695	729216	680838	705931	710084	706938	715483	709711
Mills	262384	280140	271727	270065	263568	264107	258694	251072	233810	217376	203131
Mitchell	187206	203695	200020	211096	203414	186039	211139	206933	194060	197774	169442
Monona	152095	165816	153275	162517	164749	153091	155374	163374	161327	159065	149006
Monroe	137723	139840	136148	136493	130506	129034	128816	121793	122266	122297	115671
Montgomery	201195	210721	207886	209608	213907	201104	203816	209245	203223	205499	198757
Muscatine	826572	820971	774962	779881	756810	742418	739125	741990	738223	746813	710169
O'Brien	248937	269301	273033	279466	278700	279179	278053	280695	272462	270840	254758
Osceola	99948	116749	117960	119811	119359	116146	117258	115548	109511	113691	105903
Page	292822	304956	294186	297568	298268	276785	289559	300496	280807	267239	268569
Palo Alto	156250	176265	159937	177899	175513	172157	184341	188709	190397	172334	167617
Plymouth	411724	430344	422819	424281	411937	369733	406515	383524	381412	372365	318270
Pocahontas	135095	163318	152303	158601	170773	159809	164918	184363	185814	158717	151676
Polk	7901780	7761787	7447922	7351453	7145756	6884419	6563909	6427352	6234874	6174696	6001679
Pottawattamie	1412337	1425847	1378607	1376278	1352295	1360815	1371098	1391814	1382309	1381495	1328387
Poweshiek	334302	342894	334650	342843	340146	322049	336597	326459	301647	309494	284512
Ringgold	72072	80776	76043	80291	84258	74216	81931	81691	72308	68320	69754
Sac	189300	207034	196865	206230	207829	201747	205590	220721	202173	206532	188610
Scott	3101312	3072631	2989438	2998874	2905158	2827687	2817773	2820730	2816541	2843199	2742610
Shelby	207333	223556	223129	227406	226620	215637	224235	217420	228781	226033	193977
Sioux	479366	493978	480529	480006	477173	445486	468803	465876	478718	479026	407725
Story	1337709	1327155	1279685	1261896	1256649	1197437	1203216	1186959	1154709	1125026	1072329
Tama	282099	287516	283568	298760	293020	289222	307168	305571	299466	300825	271378
Taylor	88640	97694	95667	96727	96353	90558	105192	109168	106116	95208	96970
Union	194815	201891	197189	204144	201782	196191	198306	200085	196924	194688	194343
Van Buren	104155	110370	104680	107899	104787	98807	106471	105204	102344	100508	94018
Wapello	599184	600477	590610	592180	582658	556527	558390	564797	573231	585215	569024
Warren	674826	668660	639508	632448	612411	595307	579576	566717	556446	548176	529754
Washington	351504	357426	353826	362818	345769	320996	348646	346329	350744	364110	329622
Wayne	97686	104104	100867	106123	107144	101529	111905	112556	106680	104347	100811
Webster	695415	714559	692479	679178	690001	653708	665255	689610	663444	674600	695619
Winnebago	203950	218806	203635	223637	225290	233241	230338	229649	221853	229023	196900
Winneshiek	341927	353349	339026	353824	336829	307583	328597	316161	296185	306422	240337
Woodbury	1959900	1944346	1800450	1778089	1750152	1718101	1714841	1665268	1643930	1637682	1611006
Worth	116682	127093	123846	137182	133242	132091	140254	140453	138822	143450	120972
Wright	217657	244516	230642	244449	266947	247797	254408	264781	262147	283898	267693

State of Iowa 51558316 52423078 50489360 51073380 50234644 48214970 48693057 48277589 47260879 47382956 44958669

Table 3. Nonfarm Earnings (in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	67032	63910	58768	56290	51694	49577	45198	41757	40502	39406	38250
Adams	32973	31465	29710	29514	28478	27329	25686	24675	24776	25529	24698
Allamakee	110127	103588	96801	91491	87253	82845	80124	75060	72794	72226	67613
Appanoose	108241	103920	98487	89832	83438	79660	74860	70128	67277	67521	66942
Audubon	56416	54645	51148	47558	44845	42190	37651	36287	35933	36438	34064
Benton	244138	227746	209658	198910	187649	175383	160664	152447	145684	142101	133068
Black Hawk	1469886	1406018	1308480	1264921	1183592	1108236	1009960	930061	964950	1009012	1003973
Boone	270799	254446	236250	227838	216381	203469	188481	180353	176192	171767	163903
Bremer	253978	240164	220870	206536	191210	178329	162798	152501	157996	160591	155873
Buchanan	191050	181267	170741	163305	151805	142555	128820	117964	118401	119832	115819
Buena Vista	183646	173222	163089	154375	150168	138821	130035	126433	123272	121333	112013
Butler	136376	130106	121412	114476	105174	97772	92893	85281	86209	87131	81212
Calhoun	86829	82292	77563	72848	70436	64233	59469	56830	57455	59343	57752
Carroll	205983	194703	178498	166908	156934	151611	143085	139305	138344	141451	135906
Cass	126085	121250	113382	108552	105978	101707	95519	93936	94534	96576	93831
Cedar	183435	175308	164447	157168	147408	138641	128330	122932	120996	120578	114313
Cerro Gordo	521531	499003	478102	455853	426916	411747	382235	362408	358465	352727	339219
Cherokee	117476	112056	108004	102505	94135	90237	86189	86107	87429	85654	83350
Chickasaw	130932	123696	116716	110840	107726	100874	94325	89197	86411	85364	81044
Clarke	67089	66610	63458	61485	60613	53684	49916	47209	44115	43434	42313
Clay	188898	176642	164383	160645	150183	141485	128241	119323	116479	114562	111977
Clayton	142029	136096	124619	120390	112882	107311	98657	94877	91635	91723	87746
Clinton	558272	544623	507414	480827	453060	428820	398344	382331	380713	383313	373318
Crawford	140744	134375	123961	117188	114681	115560	112182	108035	105979	104126	99439
Dallas	437062	410983	372702	349581	320586	306788	278720	256346	248688	241076	232945
Davis	69350	64479	60259	57963	53242	49025	44747	42987	43487	44082	42265
Decatur	52189	50668	49716	48707	48818	42939	43555	41734	41712	39278	35754
Delaware	155062	147769	140225	135357	123803	116568	104430	95643	92528	93303	88888
Des Moines	504002	485204	463777	446084	415851	391977	375920	351877	335951	328535	315325
Dickinson	174577	162372	144863	140281	125008	111979	101720	94733	90399	96967	87910
Dubuque	1041095	993828	913331	866767	813021	774086	736164	666514	663366	638021	590247
Emmet	101664	95075	88947	85130	76795	73576	68450	64767	65888	68973	62974
Fayette	166577	159019	149070	142926	134405	128013	120991	116324	118362	121966	117392
Floyd	144901	139326	132968	128967	122981	114977	107577	100509	96200	100572	92117
Franklin	86256	82781	77435	76124	71013	67011	62618	61506	60092	60111	56939
Fremont	63121	60048	55298	51334	49666	49284	48674	46158	47373	49251	48785
Greene	75686	72054	65242	61286	59367	57589	55521	53361	52834	53144	52397
Grundy	123963	119265	109977	104873	96495	88866	84163	78595	80799	82844	80207
Guthrie	99832	93773	88861	84476	77041	71759	66279	62833	60993	59895	56394
Hamilton	162987	156607	150269	141505	137687	130335	119936	115082	112474	112054	107791
Hancock	98227	93519	88198	86323	83614	80092	73180	68962	69374	71574	64385
Hardin	168326	160687	151899	148385	133919	128269	126055	124896	123748	123386	119256
Harrison	126787	121550	112870	107553	99914	93997	88628	85703	81675	79427	75065
Henry	215499	204618	189657	179260	167075	155035	143555	133128	126244	120662	112654
Howard	77834	72971	67046	62256	57337	54676	52691	49141	47569	47678	44980
Humboldt	89880	84777	79239	76296	72899	68587	63825	60142	59612	59666	57275
Ida	70924	65491	61019	59294	56149	54447	50114	45361	44505	42714	40155
Iowa	175049	166601	148572	134956	126964	117020	108862	101263	98009	98420	87569
Jackson	185250	176687	163561	152864	142491	134691	127757	120821	117998	116966	110534
Jasper	399656	385748	362354	355546	336705	316186	297793	276477	265634	257927	243566

Table 3. Nonfarm Earnings (in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	163315	160842	150541	145514	136768	131597	121828	111118	100986	95048	83552
Johnson	1460036	1374618	1291550	1215051	1132132	1024189	931763	875293	823392	783589	741138
Jones	164735	158781	147623	141584	131447	121133	111480	104930	100945	98723	94905
Keokuk	82974	80338	75965	73769	69149	64803	62728	61767	62035	59965	55377
Kossuth	147665	141384	132999	130242	124047	114007	107214	104103	103656	103205	96228
Lee	400596	389673	368321	357020	338878	319086	302835	299678	296207	297499	280590
Linn	2632994	2494361	2317916	2227745	2091873	1957555	1791387	1659888	1582290	1489387	1410367
Louisa	124155	118555	110864	107998	101736	91310	86134	79011	73003	70390	68487
Lucas	82186	80241	76637	73104	71791	67275	64261	62660	61002	59463	57694
Lyon	89223	84037	77421	71808	67557	62986	58972	55979	54508	53591	50484
Madison	140802	132278	122761	117894	107387	101634	93280	85603	81220	78963	74053
Mahaska	203079	191956	177732	175088	160500	151529	143364	136542	130931	126573	118905
Marion	356406	336689	313402	302410	287280	270569	255908	230456	219509	212240	201674
Marshall	451489	437055	423686	402923	376629	348956	328937	317460	319208	318171	307803
Mills	143543	138084	130031	124216	118007	111440	103250	97650	95909	92131	86733
Mitchell	97964	92826	86027	81148	75151	69401	68076	62968	61047	60513	56639
Monona	78222	70968	65923	61676	58951	53469	50087	49180	48849	49500	47106
Monroe	80993	76749	71543	67803	61307	59228	56273	50932	52001	48415	43129
Montgomery	107183	100677	97469	94348	89975	84508	78890	74139	75253	76862	71380
Muscatine	533632	504210	465831	446435	418576	393254	372197	355775	348903	342442	325657
O'Brien	130595	123501	114737	108929	100459	97810	90488	85448	83333	82090	77457
Osceola	52880	50476	47058	44157	39900	37503	35484	34247	34158	34777	34198
Page	158584	148285	136092	130660	125529	116645	109588	105573	101867	100537	92425
Palo Alto	80614	74912	68700	65660	63851	60046	57999	55686	54730	56083	53667
Plymouth	240197	222565	206047	192124	175068	157834	155246	137622	131929	129991	126511
Pocahontas	70004	68189	64625	63148	60520	55674	51843	49887	47486	47210	43564
Polk	5752806	5464026	5042229	4772248	4409262	4082104	3700118	3440648	3288096	3155001	2940249
Pottawattamie	940403	901485	855585	826276	783496	752755	712398	690335	669643	657547	627256
Poweshiek	208035	198350	188762	179787	170105	161040	149363	137892	130905	126329	117037
Ringgold	36362	34812	30921	29744	28633	25789	24332	24618	23966	23850	23645
Sac	81912	78084	73762	69804	65771	61195	58101	57338	57675	60199	58992
Scott	2127311	2050237	1930942	1849543	1714758	1602399	1530843	1461561	1453145	1425986	1331236
Shelby	103867	98019	92263	87057	83355	81201	74727	73562	73594	73256	72154
Sioux	280136	257621	236682	220026	202221	186061	169707	161426	162265	161572	154019
Story	947257	889797	836101	798019	747875	684601	638529	598209	577715	543045	498750
Tama	164041	149247	143950	140826	133329	126296	118583	113275	111874	108973	102189
Taylor	41810	39922	37940	35623	32844	31907	30122	29657	29109	29091	28554
Union	111140	107932	99091	96182	92138	86563	80257	78832	75765	75455	73175
Van Buren	58858	56339	51182	49288	46489	42348	40483	38061	37080	36131	33807
Wapello	367263	348625	330382	320389	298514	274139	256470	243868	256049	256579	238074
Warren	506788	478767	444242	419129	385505	361061	329522	310088	298164	287452	267415
Washington	198283	190127	178049	169702	157703	145477	132747	125158	122139	119262	110229
Wayne	46064	44328	41379	40887	38428	36074	35384	34561	32591	32376	30232
Webster	405071	386360	364336	346519	322408	302454	283101	275143	274971	277934	270327
Winnebago	124465	115720	106734	105011	104118	104362	93718	87536	85706	87985	76365
Winneshiek	204365	194512	182401	168346	151913	140795	130945	121710	115937	111905	102984
Woodbury	1277907	1208311	1092266	1038843	970707	908383	853513	789211	771327	750168	730835
Worth	64175	61260	57851	56592	53604	52876	48797	46044	45791	47290	44533
Wright	110959	107711	102462	99874	99163	92851	86938	85697	88377	100659	92162

State of Iowa 33093065 31476893 29334329 27986518 26162292 24476020 22733797 21378325 20868296 20455633 19365347



Table 4. Adjusted Nonfarm Earnings (1993 dollars in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	67032	65751	62188	61993	59900	60239	57068	54656	53788	54204	54410
Adams	32973	32371	31439	32504	32999	33207	32432	32297	32903	35116	35132
Allamakee	110127	106572	102435	100761	101104	100662	101167	98246	96672	99348	96178
Appanoose	108241	106914	104219	98934	96684	96792	94520	91791	89345	92876	95223
Audubon	56416	56219	54125	52377	51964	51264	47539	47496	47720	50121	48455
Benton	244138	234307	221860	219064	217438	213102	202859	199538	193471	195462	189286
Black Hawk	1469886	1446521	1384635	1393085	1371486	1346581	1275202	1217357	1281474	1387912	1428127
Boone	270799	261776	250000	250923	250731	247228	237981	236064	233987	236268	233148
Bremer	253978	247082	233725	227463	221564	216682	205553	199609	209822	220895	221725
Buchanan	191050	186489	180678	179851	175904	173214	162652	154403	157239	164831	164750
Buena Vista	183646	178212	172581	170017	174007	168677	164186	165488	163708	166895	159336
Butler	136376	133854	128478	126075	121870	118800	117289	111624	114487	119850	115522
Calhoun	86829	84663	82077	80229	81618	78047	75087	74385	76301	81627	82151
Carroll	205983	200312	188887	183819	181847	184217	180663	182336	183724	194568	193323
Cass	126085	124743	119981	119551	122802	123581	120605	122953	125543	132842	133472
Cedar	183435	180358	174018	173093	170809	168458	162033	160906	160685	165857	162607
Cerro Gordo	521531	513378	505928	502041	494688	500300	482620	474356	476049	485182	482531
Cherokee	117476	115284	114290	112891	109079	109644	108824	112705	116108	117818	118563
Chickasaw	130932	127259	123509	122070	124827	122569	119097	116750	114756	117420	115283
Clarke	67089	68529	67151	67715	70235	65230	63025	61792	58586	59744	60189
Clay	188898	181730	173950	176922	174024	171914	161920	156182	154687	157582	159284
Clayton	142029	140016	131872	132588	130802	130390	124567	124185	121693	126166	124817
Clinton	558272	560312	536946	529545	524983	521045	502960	500433	505595	527253	531036
Crawford	140744	138246	131176	129062	132886	140413	141644	141407	140742	143227	141450
Dallas	437062	422822	394394	385001	371479	372768	351919	335531	330263	331604	331358
Davis	69350	66336	63766	63836	61694	59569	56499	56266	57752	60635	60121
Decatur	52189	52128	52610	53642	56568	52174	54994	54626	55394	54028	50859
Delaware	155062	152026	148386	149072	143457	141638	131856	125187	122879	128340	126441
Des Moines	504002	499181	490769	491282	481867	476278	474646	460572	446150	451905	448542
Dickinson	174577	167049	153294	154494	144853	136062	128434	123996	120052	133380	125050
Dubuque	1041095	1022457	966488	954589	942087	940566	929500	872401	880964	877608	839612
Emmet	101664	97814	94124	93756	88986	89400	86427	84774	87501	94873	89579
Fayette	166577	163600	157746	157407	155742	155544	152766	152257	157187	167766	166987
Floyd	144901	143340	140707	142034	142504	139705	135830	131556	127756	138338	131034
Franklin	86256	85166	81942	83837	82286	81423	79063	80505	79803	82684	80994
Fremont	63121	61778	58516	56535	57550	59883	61457	60416	62912	67746	69395
Greene	75686	74130	69039	67496	68791	69974	70102	69844	70165	73100	74533
Grundy	123963	122701	116378	115499	111813	107978	106266	102873	107303	113953	114092
Guthrie	99832	96474	94033	93035	89271	87192	83686	82242	81000	82387	80219
Hamilton	162987	161118	159015	155843	159545	158366	151434	150631	149368	154132	153330
Hancock	98227	96213	93331	95069	96888	97317	92399	90264	92130	98451	91586
Hardin	168326	165316	160740	163420	155178	155855	159160	163476	164340	169719	169639
Harrison	126787	125051	119439	118450	115775	114213	111904	112177	108466	109253	106778
Henry	215499	210512	200695	197423	193598	188378	181256	174251	167655	165972	160248
Howard	77834	75073	70948	68564	66439	66435	66529	64321	63173	65582	63983
Humboldt	89880	87219	83851	84026	84472	83338	80587	78720	79166	82072	81472
Ida	70924	67378	64570	65302	65063	66157	63275	59373	59104	58754	57119
Iowa	175049	171400	157219	148630	147119	142187	137452	132543	130158	135378	124565
Jackson	185250	181777	173080	168352	165111	163659	161309	158143	156704	160889	157232
Jasper	399656	396860	383443	391570	390156	384187	376001	361881	352768	354783	346467

Table 4. Adjusted Nonfarm Earnings (1993 dollars in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	163315	165475	159303	160258	158480	159899	153823	145442	134112	130740	118851
Johnson	1460036	1414216	1366720	1338162	1311856	1244458	1176468	1145671	1093482	1077839	1054250
Jones	164735	163355	156215	155930	152314	147185	140758	137343	134057	135795	135000
Keokuk	82974	82652	80386	81243	80126	78740	79202	80847	82384	82483	78772
Kossuth	147665	145457	140740	143438	143739	138526	135371	136260	137657	141960	136882
Lee	400596	400898	389758	393194	392674	387711	382367	392249	393369	409215	399132
Linn	2632994	2566215	2452821	2453464	2423955	2378560	2261852	2172628	2101315	2048675	2006212
Louisa	124155	121970	117316	118941	117886	110948	108755	103418	96950	96823	97421
Lucas	82186	82552	81097	80511	83188	81744	81138	82016	81012	81792	82068
Lyon	89223	86458	81927	79084	78282	76532	74460	73271	72388	73715	71812
Madison	140802	136088	129906	129839	124435	123492	117778	112046	107862	108615	105339
Mahaska	203079	197486	188076	192828	185979	184118	181015	178720	173879	174103	169139
Marion	356406	346388	331642	333051	332885	328759	323116	301644	291513	291939	286876
Marshall	451489	449645	448345	443748	436418	424005	415324	415524	423915	437649	437842
Mills	143543	142062	137599	136802	136740	135407	130366	127814	127369	126728	123376
Mitchell	97964	95500	91034	89370	87081	84327	85955	82419	81072	83237	80568
Monona	78222	73012	69760	67925	68309	64968	63241	64372	64873	68088	67007
Monroe	80993	78960	75707	74673	71039	71966	71052	66665	69058	66596	61350
Montgomery	107183	103577	103142	103907	104258	102683	99609	97041	99938	105725	101536
Muscatine	533632	518735	492943	491669	485024	477830	469946	465674	463351	471034	463239
O'Brien	130595	127059	121415	119966	116407	118846	114253	111843	110668	112916	110181
Osceola	52880	51930	49797	48631	46234	45569	44803	44826	45363	47836	48646
Page	158584	152557	144013	143899	145457	141731	138369	138185	135282	138290	131472
Palo Alto	80614	77070	72698	72313	73987	72960	73231	72887	72683	77143	76340
Plymouth	240197	228976	218039	211590	202860	191779	196018	180134	175205	178805	179959
Pocahontas	70004	70153	68386	69546	70127	67648	65458	65297	63062	64938	61969
Polk	5752806	5621426	5335692	5255780	5109226	4960029	4671866	4503466	4366661	4339754	4182431
Pottawattamie	940403	927454	905381	909996	907875	914648	899492	903580	889300	904466	892256
Poweshiek	208035	204064	199748	198003	197109	195674	188590	180487	173845	173768	166482
Ringgold	36362	35815	32721	32758	33178	31335	30722	32223	31827	32806	33634
Sac	81912	80333	78055	76877	76212	74356	73360	75050	76594	82805	83915
Scott	2127311	2109297	2043325	2036942	1986973	1947022	1932883	1913038	1929807	1961466	1893650
Shelby	103867	100843	97633	95878	96587	98665	94352	96285	97734	100765	102637
Sioux	280136	265042	250457	242319	234323	226077	214277	211291	215491	222245	219088
Story	947257	915429	884763	878876	866599	831836	806223	782996	767218	746967	709459
Tama	164041	153546	152328	155095	154495	153458	149726	148266	148571	149894	145361
Taylor	41810	41072	40148	39232	38058	38769	38033	38818	38657	40015	40617
Union	111140	111041	104858	105927	106765	105180	101335	103183	100618	103790	104090
Van Buren	58858	57962	54161	54282	53869	51456	51115	49818	49243	49699	48090
Wapello	367263	358668	349611	352851	345903	333097	323826	319199	340039	352928	338654
Warren	506788	492559	470097	461596	446703	438713	416063	405874	395968	395395	380391
Washington	198283	195604	188412	186896	182738	176764	167610	163819	162203	164047	156798
Wayne	46064	45605	43787	45030	44528	43832	44677	45237	43282	44534	43004
Webster	405071	397490	385541	381629	373590	367502	357451	360135	365167	382303	384533
Winnebago	124465	119053	112946	115651	120647	126807	118331	114576	113819	121025	108627
Winneshiek	204365	200115	193017	185403	176029	171075	165335	159306	153967	153927	146492
Woodbury	1277907	1243118	1155837	1144100	1124805	1103746	1077668	1032999	1024339	1031868	1039595
Worth	64175	63025	61218	62326	62114	64248	61612	60267	60811	65048	63347
Wright	110959	110814	108425	109993	114905	112820	109770	112169	117367	138458	131098

State of Iowa 33093065 32383635 31041618 30822156 30315518 29740000 28704289 27982101 27713541 28137047 27546724

Table 5. Percentage of Total Personal Income from Nonfarm Earnings in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	53.6	47.5	47.0	44.3	42.4	47.2	42.5	38.9	42.0	43.8	49.2
Adams	50.4	44.3	43.9	42.3	42.8	47.9	40.1	40.3	45.6	51.5	51.0
Allamakee	52.7	49.3	50.4	45.9	47.4	50.8	47.2	47.3	49.2	48.8	57.8
Appanoose	53.0	51.6	51.9	49.0	48.4	50.1	48.4	48.0	49.1	50.1	50.8
Audubon	50.2	44.8	43.0	41.2	39.8	43.9	37.0	39.8	39.7	44.1	51.6
Benton	64.0	60.8	60.0	57.6	57.1	60.7	54.2	52.8	55.1	53.7	56.6
Black Hawk	65.7	65.1	64.4	64.1	64.4	65.4	62.9	60.5	62.0	64.1	65.0
Boone	56.7	53.7	53.4	53.6	52.5	55.0	51.9	52.6	54.7	56.0	55.4
Bremer	64.1	60.8	60.9	58.5	58.7	60.5	56.3	54.8	56.5	58.2	62.0
Buchanan	58.8	54.5	53.5	52.4	53.2	56.6	49.9	51.1	51.7	52.4	60.0
Buena Vista	56.6	52.2	51.3	49.5	49.8	50.7	48.8	47.3	48.0	51.7	52.2
Butler	56.4	51.3	50.9	48.8	51.4	50.7	45.9	44.1	43.9	45.6	50.3
Calhoun	48.1	40.6	43.8	41.6	40.1	39.7	38.0	36.7	38.2	41.1	41.3
Carroll	54.1	49.8	48.7	47.2	46.8	47.9	45.9	47.6	48.6	50.8	53.5
Cass	51.6	47.1	46.5	45.8	45.8	49.6	46.0	46.5	47.5	49.6	52.5
Cedar	59.1	56.0	55.9	53.5	53.3	56.5	52.3	54.1	53.2	52.6	59.1
Cerro Gordo	61.9	60.0	59.8	58.3	60.2	60.6	57.7	57.0	58.3	59.1	60.9
Cherokee	52.3	47.7	46.3	44.9	44.2	44.6	44.4	46.3	49.0	49.7	54.6
Chickasaw	60.9	55.7	55.5	53.5	55.7	56.9	51.6	52.0	51.9	51.8	57.5
Clarke	58.2	56.3	56.7	54.2	56.4	55.9	51.9	52.2	52.1	56.3	56.2
Clay	62.9	57.3	57.4	55.1	54.4	55.3	52.8	50.7	52.3	54.9	57.1
Clayton	50.8	46.0	45.7	42.3	43.2	47.1	41.0	41.9	43.5	43.1	57.1
Clinton	62.2	61.3	61.2	59.6	59.7	61.6	58.9	59.1	59.5	59.9	63.9
Crawford	51.9	47.6	47.5	46.4	49.0	52.1	51.7	51.6	53.8	53.0	58.2
Dallas	69.8	67.8	67.0	66.2	64.5	68.4	64.8	63.3	64.9	64.3	65.2
Davis	56.9	54.1	54.1	51.3	54.2	54.8	49.4	48.8	52.0	53.3	56.1
Decatur	50.8	48.7	49.7	48.2	49.7	50.9	49.2	49.1	51.4	52.8	53.7
Delaware	56.6	51.0	50.5	46.8	48.4	51.4	43.3	43.9	46.0	46.7	59.8
Des Moines	64.1	63.6	63.8	62.9	63.2	63.5	62.7	60.6	59.5	59.5	61.7
Dickinson	58.2	54.3	52.4	51.4	49.2	49.4	47.3	46.4	47.1	49.8	51.3
Dubuque	63.9	62.9	62.2	60.7	61.4	62.8	61.6	59.8	61.3	61.0	62.5
Emmet	56.5	51.1	52.2	49.2	47.8	49.6	46.4	44.5	45.6	50.2	49.2
Fayette	52.4	48.3	47.2	45.2	46.0	49.9	44.8	46.2	47.6	48.0	54.7
Floyd	52.5	49.2	49.1	47.5	50.6	50.7	46.8	45.6	45.1	46.9	48.6
Franklin	50.9	42.8	44.9	42.3	42.2	43.3	38.8	37.8	40.5	42.1	46.2
Fremont	52.3	44.0	44.0	42.4	42.5	43.7	44.9	39.8	43.0	50.2	46.5
Greene	47.5	40.4	41.2	40.4	38.1	42.2	38.1	36.9	39.5	41.5	39.8
Grundy	56.9	52.1	52.3	51.0	51.9	51.0	46.3	45.3	47.7	49.0	50.3
Guthrie	54.6	49.6	49.7	48.4	46.4	49.8	45.1	45.7	45.7	47.7	52.1
Hamilton	58.3	52.7	52.9	52.5	49.7	57.5	50.3	48.9	49.9	52.8	51.7
Hancock	54.9	47.5	49.4	45.1	48.3	48.1	44.8	40.7	41.7	44.7	44.4
Hardin	53.5	49.2	49.3	48.3	47.5	49.6	45.6	45.3	46.7	48.2	50.5
Harrison	56.2	51.6	53.0	52.2	52.2	52.1	50.0	48.6	45.7	48.4	50.2
Henry	64.3	62.8	61.7	59.9	61.6	61.2	58.5	56.7	56.7	57.8	59.6
Howard	52.5	47.4	46.0	42.6	42.2	46.7	41.2	39.8	42.0	39.7	47.1
Humboldt	52.1	46.0	48.6	45.2	42.6	46.5	43.7	42.3	44.2	43.9	45.9
Ida	53.4	46.8	46.7	44.5	43.8	45.8	43.4	41.9	41.9	41.9	53.3
Iowa	61.8	58.5	58.4	55.7	56.2	58.1	51.5	52.9	51.1	51.3	57.6
Jackson	57.7	55.4	55.4	52.3	52.0	54.2	50.9	52.2	51.8	51.0	57.6
Jasper	62.5	60.8	60.7	60.4	60.8	61.8	58.2	57.3	57.3	56.6	58.5

Table 5. Percentage of Total Personal Income from Nonfarm Earnings in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	61.8	60.6	60.6	58.4	59.3	63.0	58.4	55.8	55.6	54.4	57.9
Johnson	75.3	74.3	74.5	73.5	73.9	75.2	73.2	72.2	72.5	72.4	74.7
Jones	59.3	56.6	55.9	52.4	52.2	54.2	49.7	50.0	49.2	48.2	56.2
Keokuk	46.0	43.5	42.7	41.4	40.6	44.2	37.6	40.5	41.7	41.5	44.4
Kossuth	54.7	46.1	49.6	45.0	42.9	42.9	41.1	39.3	42.5	43.4	43.8
Lee	61.1	60.1	59.4	60.1	60.6	61.0	59.5	58.7	58.9	60.5	61.6
Linn	71.4	70.8	70.1	69.8	69.7	71.1	69.5	68.2	68.3	67.9	68.0
Louisa	64.8	61.6	62.7	59.9	61.6	61.1	57.6	55.2	54.0	52.3	60.2
Lucas	56.0	54.5	55.3	53.2	54.3	54.6	53.6	54.0	55.7	56.0	57.7
Lyon	52.7	46.9	44.2	42.4	40.9	44.5	39.8	38.8	38.3	38.7	42.8
Madison	65.0	61.2	61.1	59.5	57.9	61.4	58.0	55.8	56.1	58.2	60.0
Mahaska	58.0	55.3	53.8	53.4	52.8	55.0	50.5	50.0	50.5	51.6	54.2
Marion	63.3	61.9	61.4	60.7	61.8	62.4	60.1	58.4	58.5	58.6	58.5
Marshall	63.2	61.9	62.1	60.9	59.8	62.3	58.8	58.5	60.0	61.2	61.7
Mills	54.7	50.7	50.6	50.7	51.9	51.3	50.4	50.9	54.5	58.3	60.7
Mitchell	52.3	46.9	45.5	42.3	42.8	45.3	40.7	39.8	41.8	42.1	47.5
Monona	51.4	44.0	45.5	41.8	41.5	42.4	40.7	39.4	40.2	42.8	45.0
Monroe	58.8	56.5	55.6	54.7	54.4	55.8	55.2	54.7	56.5	54.5	53.0
Montgomery	53.3	49.2	49.6	49.6	48.7	51.1	48.9	46.4	49.2	51.4	51.1
Muscatine	64.6	63.2	63.6	63.0	64.1	64.4	63.6	62.8	62.8	63.1	65.2
O'Brien	52.5	47.2	44.5	42.9	41.8	42.6	41.1	39.8	40.6	41.7	43.2
Osceola	52.9	44.5	42.2	40.6	38.7	39.2	38.2	38.8	41.4	42.1	45.9
Page	54.2	50.0	49.0	48.4	48.8	51.2	47.8	46.0	48.2	51.7	49.0
Palo Alto	51.6	43.7	45.5	40.6	42.2	42.4	39.7	38.6	38.2	44.8	45.5
Plymouth	58.3	53.2	51.6	49.9	49.2	51.9	48.2	47.0	45.9	48.0	56.5
Pocahontas	51.8	43.0	44.9	43.8	41.1	42.3	39.7	35.4	33.9	40.9	40.9
Polk	72.8	72.4	71.6	71.5	71.5	72.0	71.2	70.1	70.0	70.3	69.7
Pottawattamie	66.6	65.0	65.7	66.1	67.1	67.2	65.6	64.9	64.3	65.5	67.2
Poweshiek	62.2	59.5	59.7	57.8	57.9	60.8	56.0	55.3	57.6	56.1	58.5
Ringgold	50.5	44.3	43.0	40.8	39.4	42.2	37.5	39.4	44.0	48.0	48.2
Sac	43.3	38.8	39.6	37.3	36.7	36.9	35.7	34.0	37.9	40.1	44.5
Scott	68.6	68.6	68.4	67.9	68.4	68.9	68.6	67.8	68.5	69.0	69.0
Shelby	50.1	45.1	43.8	42.2	42.6	45.8	42.1	44.3	42.7	44.6	52.9
Sioux	58.4	53.7	52.1	50.5	49.1	50.7	45.7	45.4	45.0	46.4	53.7
Story	70.8	69.0	69.1	69.6	69.0	69.5	67.0	66.0	66.4	66.4	66.2
Tama	58.2	53.4	53.7	51.9	52.7	53.1	48.7	48.5	49.6	49.8	53.6
Taylor	47.2	42.0	42.0	40.6	39.5	42.8	36.2	35.6	36.4	42.0	41.9
Union	57.0	55.0	53.2	51.9	52.9	53.6	51.1	51.6	51.1	53.3	53.6
Van Buren	56.5	52.5	51.7	50.3	51.4	52.1	48.0	47.4	48.1	49.4	51.1
Wapello	61.3	59.7	59.2	59.6	59.4	59.9	58.0	56.5	59.3	60.3	59.5
Warren	75.1	73.7	73.5	73.0	72.9	73.7	71.8	71.6	71.2	72.1	71.8
Washington	56.4	54.7	53.2	51.5	52.8	55.1	48.1	47.3	46.2	45.1	47.6
Wayne	47.2	43.8	43.4	42.4	41.6	43.2	39.9	40.2	40.6	42.7	42.7
Webster	58.2	55.6	55.7	56.2	54.1	56.2	53.7	52.2	55.0	56.7	55.3
Winnebago	61.0	54.4	55.5	51.7	53.6	54.4	51.4	49.9	51.3	52.8	55.2
Winneshiek	59.8	56.6	56.9	52.4	52.3	55.6	50.3	50.4	52.0	50.2	61.0
Woodbury	65.2	63.9	64.2	64.3	64.3	64.2	62.8	62.0	62.3	63.0	64.5
Worth	55.0	49.6	49.4	45.4	46.6	48.6	43.9	42.9	43.8	45.3	52.4
Wright	51.0	45.3	47.0	45.0	43.0	45.5	43.1	42.4	44.8	48.8	49.0
State of Iowa	64.2	61.8	61.5	60.3	60.3	61.7	58.9	58.0	58.6	59.4	61.3

Table 6. Farm Earnings (in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	-2146	11635	9963	12508	17259	6267	13660	16125	7527	2422	-6589
Adams	1986	10022	8770	11786	11102	3780	11121	8967	3232	-2788	-3000
Allamakee	8134	18723	13072	26865	22466	11027	19961	11305	4900	9411	-13754
Appanoose	782	5502	2754	8695	8690	4258	5654	1051	-3904	-4532	-4974
Audubon	3783	16344	17430	18622	20943	10804	21672	11406	12558	3553	-10166
Benton	6965	19684	13601	25890	28457	5395	28376	27138	10261	16425	-537
Black Hawk	5064	24731	17094	24999	14861	7063	26398	22648	18650	11855	-264
Boone	4232	25637	17468	16454	26703	8251	24280	20326	11895	10697	14770
Bremer	730	17721	11302	18552	13411	4833	13600	9700	9814	7127	-8155
Buchanan	5529	26546	23985	31523	23600	8853	29871	13381	12740	12681	-16702
Buena Vista	8682	29529	27437	32595	33808	28806	29693	30760	27071	9588	-1048
Butler	73	20766	19213	25027	10142	12389	24903	19893	23460	17685	-3079
Calhoun	86	29739	15022	20371	29336	26944	26526	25713	20821	14780	8183
Carroll	11701	38440	38094	42487	43732	39482	45473	30174	27847	21321	7638
Cass	-1192	19616	15207	17733	21886	9340	17098	10322	9127	5556	-2826
Cedar	8561	20636	18313	30278	30248	13570	23921	10998	10887	15309	-7808
Cerro Gordo	-657	23000	18038	31737	12912	21544	27873	23584	15411	13977	-1981
Cherokee	10382	29299	33488	34796	34762	33363	29625	21553	15521	11605	-5374
Chickasaw	2542	19118	17209	22084	14549	8964	20352	11695	11064	10819	-6783
Clarke	-1290	4117	2508	7119	5708	2823	6863	2858	1089	-4062	-3658
Clay	-1978	20845	16062	26341	27544	21534	24062	23316	16230	8868	1248
Clayton	12534	36582	31234	51487	41787	21104	42891	31435	21969	27203	-23304
Clinton	13788	28856	18920	35327	35582	15430	28927	11222	10465	14844	-19817
Crawford	6246	25410	23641	29054	27365	22715	21009	14680	5766	7035	-10695
Dallas	3192	15102	12567	14655	23632	4260	15991	10570	1396	4014	-2630
Davis	-2558	1295	851	6757	2978	1478	6258	5072	2246	1993	-3038
Decatur	-200	4246	3837	7026	6932	1904	7038	4550	1466	-2152	-5816
Delaware	16592	42274	40964	60433	44283	28061	53808	38390	27456	27747	-15817
Des Moines	9435	12642	8664	15857	10657	11629	11558	13474	19832	22423	696
Dickinson	-2033	13007	13488	17371	20789	15701	17490	13941	8494	6864	-710
Dubuque	12478	30136	26827	49321	39821	21763	42046	31519	20621	25221	-19417
Emmet	-2973	12458	6430	15952	18068	13700	16607	15908	14535	5325	1614
Fayette	10408	33718	33702	45319	37427	17177	38647	19374	16347	20228	-10566
Floyd	4783	21345	19363	28800	12044	15407	25908	20622	17563	15212	3164
Franklin	2352	31196	18989	30260	29674	25808	33114	33910	21354	18496	-800
Fremont	-1630	18415	14257	15100	15122	16227	12446	22830	16129	3916	10149
Greene	3542	27984	17521	17166	26690	13841	23863	21131	12344	8549	10743
Grundy	6085	23400	19259	21036	14583	15956	26868	22340	15467	14501	12697
Guthrie	4780	19382	16302	18621	23088	11301	19113	10994	10268	5330	-6742
Hamilton	4586	30077	26163	23766	41718	6853	26904	26525	20293	11545	12054
Hancock	-420	23709	12229	26810	17764	19930	21997	29435	27919	19969	11176
Hardin	437	24126	16448	23427	19060	7685	29361	27379	22063	13831	1053
Harrison	3563	20754	9325	12495	8717	10411	14782	16133	23506	10430	2022
Henry	5436	10791	9267	15065	6443	6010	10667	8764	5457	1630	-7501
Howard	-2142	9484	10377	18218	17481	4858	18913	15780	8395	15065	-431
Humboldt	-341	19450	6648	16942	27599	15339	18367	16843	11474	12020	3661
Ida	7371	21303	16876	22227	23418	18951	18768	15658	15049	13256	-8678
Iowa	4097	16384	12292	19919	19024	4771	23472	8455	14965	17559	-6686
Jackson	4819	13565	7499	23607	20676	9844	20547	5017	5020	9227	-15490
Jasper	7793	24746	20391	29300	27476	14310	34012	29181	26665	33186	12429

Table 6. Farm Earnings (in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	1764	9217	7577	12726	10608	3699	11689	13358	9680	9894	-3503
Johnson	4069	14923	14111	24819	21787	4795	20506	16929	13374	17510	-6636
Jones	391	12271	10305	20830	17816	7900	20990	10205	11048	16336	-12139
Keokuk	10038	18303	18321	23536	24209	9963	30169	15400	13154	11220	-4590
Kossuth	-3519	44209	16057	40389	54083	50113	51028	54581	34758	29476	15794
Lee	3328	13931	8299	12250	6456	6267	11147	13334	16756	12984	-3001
Linn	1177	12853	5940	19034	24822	1451	13697	7970	-232	6309	-9486
Louisa	6997	15222	7616	16614	10761	7839	11723	11966	10818	14673	-3505
Lucas	-988	3472	1568	5676	4432	2461	5253	1132	-2981	-3636	-5765
Lyon	10769	27503	31150	31597	34323	21402	33910	30712	30100	28749	8648
Madison	-238	10352	6773	12073	14868	3791	9168	7817	4204	-1131	-5200
Mahaska	13405	24768	25313	30379	29448	14902	32197	27486	21917	16672	1623
Marion	4644	12960	12157	16416	13849	10849	18563	13697	10945	7818	4820
Marshall	4910	21583	18725	22336	25783	9686	30471	19378	14386	12244	5104
Mills	-344	16384	14941	14152	11953	11560	14204	17073	12105	5453	4165
Mitchell	6122	23978	25815	34452	28435	15746	28884	22203	14668	15239	-3368
Monona	-117	18765	9193	18465	18979	13488	16835	17943	14389	8988	-2824
Monroe	-2767	1515	1994	4055	3127	1435	3268	-1200	-4629	-2458	-3742
Montgomery	412	14146	11473	12039	14483	8218	11107	12656	5988	2298	2207
Muscatine	1733	11948	4131	12704	13979	4872	8930	8125	11098	15217	-3139
O'Brien	8348	32557	39021	42838	46452	44983	41450	36685	32698	26449	15003
Osceola	-1623	15326	18842	19447	20552	18347	18056	13452	7042	5992	-867
Page	7196	24299	20436	21386	21011	10147	19894	23233	13637	-178	3346
Palo Alto	-2861	21478	9665	24855	22417	20699	27192	23290	23519	6040	-1201
Plymouth	17206	45743	49106	52271	49514	26982	49057	35845	37774	27422	-11465
Pocahontas	-1797	24271	14732	17914	27338	19490	19635	30065	32459	10140	3520
Polk	2434	14801	7560	11342	17332	5395	14913	10645	3206	4709	1395
Pottawattamie	2682	32651	29183	27459	16566	12936	26317	24558	30631	24021	66
Poweshiek	2623	15130	12064	20154	18937	7356	22046	15485	4070	8496	-3653
Ringgold	-1257	7119	5486	9263	12515	5445	10308	7221	149	-3413	-3895
Sac	13321	31882	24166	31422	32318	30257	31383	33318	17533	13196	-1246
Scott	11437	18838	15454	22429	24048	10042	18435	6590	11266	15184	-6748
Shelby	10364	27975	28695	30416	28935	18405	26002	14908	23955	18317	-6748
Sioux	22831	51672	53145	66577	69717	45886	69693	60878	67134	57443	8089
Story	5347	27093	20589	21606	30974	9620	27861	26110	19201	18086	9415
Tama	-600	14480	11330	21424	15843	13126	25066	17099	12385	11047	-6199
Taylor	-650	8221	6551	7257	8489	2808	12336	11137	8119	-2478	-2678
Union	-2845	4835	4628	7160	6509	2713	7268	2074	1970	-3047	-5129
Van Buren	-1852	4936	2954	6662	3751	1650	7242	4392	3214	1474	-3508
Wapello	-1971	5446	2731	5305	5907	1347	5618	5364	-1024	-341	-2856
Warren	-861	10892	6293	10423	10080	4989	10530	5472	8236	3377	-396
Washington	14421	22145	27603	34397	25267	13604	33099	28365	33945	41596	19148
Wayne	-2868	4021	2704	5361	6534	3870	10307	7070	4029	-1635	-3282
Webster	1137	28172	18304	18543	40635	13085	24120	27873	10748	4458	16650
Winnebago	-2906	17059	7874	21519	16952	19251	20698	15755	10272	11242	-635
Winneshiek	13265	28805	23761	41955	34279	14877	31836	23372	15345	22359	-17730
Woodbury	10119	31006	17949	28449	32175	16416	31850	9490	9708	5946	-21025
Worth	-1933	9460	7474	17800	15078	12185	17715	14449	12647	13165	-199
Wright	-1167	24567	12852	22946	33537	22774	21393	24125	14430	13718	9706
State of Iowa	383315	1976670	1582972	2250902	2189880	1320836	2217413	1773130	1400569	1153404	-179198

Table 7. Adjusted Farm Earnings (1993 dollars in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	-2146	11970	10543	13775	19999	7615	17247	21106	9996	3331	-9373
Adams	1986	10311	9280	12980	12864	4593	14042	11737	4292	-3835	-4267
Allamakee	8134	19262	13833	29587	26032	13399	25203	14797	6507	12945	-19565
Appanoose	782	5660	2914	9576	10070	5174	7139	1376	-5185	-6234	-7075
Audubon	3783	16815	18444	20509	24268	13128	27364	14929	16677	4887	-14461
Benton	6965	20251	14393	28513	32975	6555	35828	35521	13627	22593	-764
Black Hawk	5064	25443	18089	27532	17220	8582	33331	29644	24768	16307	-376
Boone	4232	26376	18485	18121	30942	10026	30657	26605	15797	14714	21010
Bremer	730	18231	11960	20432	15540	5872	17172	12696	13033	9803	-11600
Buchanan	5529	27311	25381	34717	27346	10757	37716	17514	16919	17443	-23758
Buena Vista	8682	30380	29034	35898	39175	35001	37491	40262	35951	13188	-1491
Butler	73	21364	20331	27563	11752	15053	31443	26038	31155	24326	-4380
Calhoun	86	30596	15896	22435	33993	32739	33492	33656	27651	20330	11640
Carroll	11701	39547	40311	46792	50674	47973	57415	39495	36981	29327	10865
Cass	-1192	20181	16092	19530	25360	11349	21588	13510	12121	7642	-4020
Cedar	8561	21230	19379	33346	35050	16488	30203	14395	14458	21058	-11107
Cerro Gordo	-657	23663	19088	34953	14962	26177	35193	30869	20466	19226	-2818
Cherokee	10382	30143	35437	38322	40280	40538	37405	28211	20612	15963	-7644
Chickasaw	2542	19669	18211	24322	16859	10892	25697	15308	14693	14882	-9649
Clarke	-1290	4236	2654	7840	6614	3430	8665	3741	1446	-5587	-5203
Clay	-1978	21445	16997	29010	31917	26165	30381	30518	21554	12198	1775
Clayton	12534	37636	33052	56704	48421	25643	54155	41145	29175	37418	-33149
Clinton	13788	29687	20021	38906	41231	18748	36524	14688	13898	20418	-28189
Crawford	6246	26142	25017	31998	31709	27600	26527	19215	7657	9677	-15213
Dallas	3192	15537	13298	16140	27384	5176	20191	13835	1854	5521	-3741
Davis	-2558	1332	901	7442	3451	1796	7902	6639	2983	2741	-4321
Decatur	-200	4368	4060	7738	8032	2313	8886	5955	1947	-2960	-8273
Delaware	16592	43492	43348	66556	51313	34096	67939	50249	36462	38166	-22499
Des Moines	9435	13006	9168	17464	12349	14130	14593	17636	26337	30843	990
Dickinson	-2033	13382	14273	19131	24089	19078	22083	18247	11280	9442	-1010
Dubuque	12478	31004	28388	54318	46143	26443	53088	41255	27385	34692	-27620
Emmet	-2973	12817	6804	17568	20936	16646	20968	20822	19303	7325	2296
Fayette	10408	34689	35663	49911	43368	20871	48797	25359	21709	27824	-15030
Floyd	4783	21960	20490	31718	13956	18721	32712	26992	23324	20924	4501
Franklin	2352	32095	20094	33326	34385	31358	41811	44385	28359	25442	-1138
Fremont	-1630	18945	15087	16630	17523	19717	15715	29882	21420	5387	14437
Greene	3542	28790	18541	18905	30927	16818	30130	27658	16393	11759	15282
Grundy	6085	24074	20380	23167	16898	19388	33924	29241	20541	19946	18061
Guthrie	4780	19940	17251	20508	26753	13731	24133	14390	13636	7331	-9590
Hamilton	4586	30943	27686	26174	48341	8327	33970	34719	26950	15880	17147
Hancock	-420	24392	12941	29526	20584	24216	27774	38527	37077	27468	15898
Hardin	437	24821	17405	25801	22086	9338	37072	35836	29300	19025	1498
Harrison	3563	21352	9868	13761	10101	12650	18664	21116	31216	14347	2876
Henry	5436	11102	9806	16591	7466	7303	13468	11471	7247	2242	-10670
Howard	-2142	9757	10981	20064	20256	5903	23880	20654	11149	20722	-613
Humboldt	-341	20010	7035	18659	31980	18638	23191	22046	15238	16534	5208
Ida	7371	21917	17858	24479	27136	23027	23697	20495	19985	18234	-12344
Iowa	4097	16856	13007	21937	22044	5797	29636	11067	19874	24153	-9511
Jackson	4819	13956	7935	25999	23958	11961	25943	6567	6667	12692	-22034
Jasper	7793	25459	21578	32269	31838	17388	42944	38195	35412	45648	17680

Table 7. Adjusted Farm Earnings (1993 dollars in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	1764	9483	8018	14015	12292	4495	14759	17484	12855	13609	-4983
Johnson	4069	15353	14932	27334	25246	5826	25891	22158	17761	24085	-9440
Jones	391	12624	10905	22941	20644	9599	26503	13357	14672	22470	-17267
Keokuk	10038	18830	19387	25921	28052	12106	38092	20157	17469	15433	-6529
Kossuth	-3519	45483	16992	44481	62669	60891	64429	71441	46159	40545	22467
Lee	3328	14332	8782	13491	7481	7615	14074	17453	22252	17860	-4269
Linn	1177	13223	6286	20963	28762	1763	17294	10432	-308	8678	-13494
Louisa	6997	15660	8059	18297	12469	9525	14802	15662	14367	20183	-4986
Lucas	-988	3572	1659	6251	5136	2990	6633	1482	-3959	-5001	-8201
Lyon	10769	28295	32963	34798	39772	26005	42816	40199	39973	39545	12302
Madison	-238	10650	7167	13296	17228	4606	11576	10232	5583	-1556	-7397
Mahaska	13405	25481	26786	33457	34123	18107	40653	35976	29106	22933	2309
Marion	4644	13333	12865	18079	16048	13182	23438	17928	14535	10754	6856
Marshall	4910	22205	19815	24599	29876	11769	38473	25364	19105	16842	7260
Mills	-344	16856	15811	15586	13851	14046	17934	22347	16076	7501	5925
Mitchell	6122	24669	27317	37943	32949	19132	36470	29062	19479	20961	-4791
Monona	-117	19306	9728	20336	21992	16389	21256	23486	19109	12363	-4017
Monroe	-2767	1559	2110	4466	3623	1744	4126	-1571	-6147	-3381	-5323
Montgomery	412	14553	12141	13259	16782	9985	14024	16565	7952	3161	3139
Muscatine	1733	12292	4371	13991	16198	5920	11275	10635	14738	20931	-4465
O'Brien	8348	33495	41292	47178	53826	54657	52336	48017	43424	36381	21341
Osceola	-1623	15767	19939	21417	23815	22293	22798	17607	9352	8242	-1233
Page	7196	24999	21625	23553	24346	12329	25119	30410	18110	-245	4760
Palo Alto	-2861	22097	10228	27373	25976	25151	34333	30484	31234	8308	-1708
Plymouth	17206	47061	51964	57567	57374	32785	61941	46918	50165	37719	-16309
Pocahontas	-1797	24970	15589	19729	31678	23682	24792	39352	43106	13948	5007
Polk	2434	15227	8000	12491	20083	6555	18830	13933	4258	6477	1984
Pottawattamie	2682	33592	30881	30241	19196	15718	33229	32144	40679	33041	94
Poweshiek	2623	15566	12766	22196	21943	8938	27836	20268	5405	11686	-5196
Ringgold	-1257	7324	5805	10202	14502	6616	13015	9452	198	-4695	-5541
Sac	13321	32800	25572	34606	37448	36764	39625	43610	23284	18151	-1772
Scott	11437	19381	16353	24702	27866	12202	23277	8626	14961	20886	-9599
Shelby	10364	28781	30365	33498	33528	22363	32831	19513	31813	25195	-9599
Sioux	22831	53160	56238	73323	80784	55755	87996	79683	89155	79014	11506
Story	5347	27873	21787	23795	35891	11689	35178	34175	25499	24878	13393
Tama	-600	14897	11989	23595	18358	15949	31649	22381	16448	15195	-8818
Taylor	-650	8458	6932	7992	9837	3412	15576	14577	10782	-3409	-3809
Union	-2845	4974	4897	7885	7542	3296	9177	2715	2616	-4191	-7296
Van Buren	-1852	5078	3126	7337	4346	2005	9144	5749	4268	2028	-4990
Wapello	-1971	5603	2890	5843	6845	1637	7093	7021	-1360	-469	-4063
Warren	-861	11206	6659	11479	11680	6062	13295	7162	10938	4645	-563
Washington	14421	22783	29210	37882	29278	16530	41792	37127	45080	57216	27238
Wayne	-2868	4137	2861	5904	7571	4702	13014	9254	5351	-2249	-4669
Webster	1137	28984	19369	20422	47086	15899	30455	36483	14274	6132	23684
Winnebago	-2906	17550	8332	23699	19643	23391	26134	20622	13641	15464	-903
Winneshiek	13265	29635	25144	46206	39721	18077	40197	30592	20378	30755	-25220
Woodbury	10119	31899	18994	31331	37283	19947	40215	12421	12892	8179	-29908
Worth	-1933	9733	7909	19604	17472	14806	22367	18912	16795	18109	-283
Wright	-1167	25275	13600	25271	38861	27672	27011	31577	19163	18869	13807
State of Iowa	383315	2033611	1675103	2478967	2537520	1604904	2799764	2320851	1859985	1586525	-254905



Table 8. Percentage of Total Personal Income from Farm Earnings in Iowa Counties, 1982-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	-1.7	8.6	8.0	9.8	14.2	6.0	12.8	15.0	7.8	2.7	-8.5
Adams	3.0	14.1	12.9	16.9	16.7	6.6	17.4	14.6	5.9	-5.6	-6.2
Allamakee	3.9	8.9	6.8	13.5	12.2	6.8	11.8	7.1	3.3	6.4	-11.8
Appanoose	0.4	2.7	1.5	4.7	5.0	2.7	3.7	0.7	-2.9	-3.4	-3.8
Audubon	3.4	13.4	14.7	16.1	18.6	11.3	21.3	12.5	13.9	4.3	-15.4
Benton	1.8	5.3	3.9	7.5	8.7	1.9	9.6	9.4	3.9	6.2	-2
Black Hawk	0.2	1.1	0.8	1.3	0.8	0.4	1.6	1.5	1.2	0.8	0.0
Boone	0.9	5.4	3.9	3.9	6.5	2.2	6.7	5.9	3.7	3.5	5.0
Bremer	0.2	4.5	3.1	5.3	4.1	1.6	4.7	3.5	3.5	2.6	-3.2
Buchanan	1.7	8.0	7.5	10.1	8.3	3.5	11.6	5.8	5.6	5.5	-8.6
Buena Vista	2.7	8.9	8.6	10.5	11.2	10.5	11.1	11.5	10.6	4.1	-0.5
Butler	0.0	8.2	8.1	10.7	5.0	6.4	12.3	10.3	12.0	9.3	-1.9
Calhoun	0.0	14.7	8.5	11.6	16.7	16.7	16.9	16.6	13.8	10.2	5.9
Carroll	3.1	9.8	10.4	12.0	13.0	12.5	14.6	10.3	9.8	7.7	3.0
Cass	-0.5	7.6	6.2	7.5	9.4	4.6	8.2	5.1	4.6	2.9	-1.6
Cedar	2.8	6.6	6.2	10.3	10.9	5.5	9.8	4.8	4.8	6.7	-4.0
Cerro Gordo	-0.1	2.8	2.3	4.1	1.8	3.2	4.2	3.7	2.5	2.3	-0.4
Cherokee	4.6	12.5	14.4	15.2	16.3	16.5	15.3	11.6	8.7	6.7	-3.5
Chickasaw	1.2	8.6	8.2	10.7	7.5	5.1	11.1	6.8	6.6	6.6	-4.8
Clarke	-1.1	3.5	2.2	6.3	5.3	2.9	7.1	3.2	1.3	-5.3	-4.9
Clay	-0.7	6.8	5.6	9.0	10.0	8.4	9.9	9.9	7.3	4.2	0.6
Clayton	4.5	12.4	11.5	18.1	16.0	9.3	17.8	13.9	10.4	12.8	-15.2
Clinton	1.5	3.3	2.3	4.4	4.7	2.2	4.3	1.7	1.6	2.3	-3.4
Crawford	2.3	9.0	9.1	11.5	11.7	10.2	9.7	7.0	2.9	3.6	-6.3
Dallas	0.5	2.5	2.3	2.8	4.8	0.9	3.7	2.6	0.4	1.1	-0.7
Davis	-2.1	1.1	0.8	6.0	3.0	1.7	6.9	5.8	2.7	2.4	-4.0
Decatur	-0.2	4.1	3.8	7.0	7.1	2.3	8.0	5.4	1.8	-2.9	-8.7
Delaware	6.1	14.6	14.8	20.9	17.3	12.4	22.3	17.6	13.7	13.9	-10.6
Des Moines	1.2	1.7	1.2	2.2	1.6	1.9	1.9	2.3	3.5	4.1	0.1
Dickinson	-0.7	4.4	4.9	6.4	8.2	6.9	8.1	6.8	4.4	3.5	-0.4
Dubuque	0.8	1.9	1.8	3.5	3.0	1.8	3.5	2.8	1.9	2.4	-2.1
Emmet	-1.7	6.7	3.8	9.2	11.2	9.2	11.3	10.9	10.1	3.9	1.3
Fayette	3.3	10.2	10.7	14.3	12.8	6.7	14.3	7.7	6.6	8.0	-4.9
Floyd	1.7	7.5	7.2	10.6	5.0	6.8	11.3	9.4	8.2	7.1	1.7
Franklin	1.4	16.1	11.0	16.8	17.6	16.7	20.5	20.9	14.4	13.0	-0.6
Fremont	-1.4	13.5	11.3	12.5	12.9	14.4	11.5	19.7	14.6	4.0	9.7
Greene	2.2	15.7	11.1	11.3	17.1	10.1	16.4	14.6	9.2	6.7	8.2
Grundy	2.8	10.2	9.2	10.2	7.9	9.2	14.8	12.9	9.1	8.6	8.0
Guthrie	2.6	10.2	9.1	10.7	13.9	7.8	13.0	8.0	7.7	4.2	-6.2
Hamilton	1.6	10.1	9.2	8.8	15.1	3.0	11.3	11.3	9.0	5.4	5.8
Hancock	-0.2	12.0	6.9	14.0	10.3	12.0	13.5	17.4	16.8	12.5	7.7
Hardin	0.1	7.4	5.3	7.6	6.8	3.0	10.6	9.9	8.3	5.4	0.4
Harrison	1.6	8.8	4.4	6.1	4.6	5.8	8.3	9.2	13.1	6.4	1.4
Henry	1.6	3.3	3.0	5.0	2.4	2.4	4.3	3.7	2.5	0.8	-4.0
Howard	-1.4	6.2	7.1	12.5	12.9	4.2	14.8	12.8	7.4	12.5	-0.5
Humboldt	-0.2	10.6	4.1	10.0	16.1	10.4	12.6	11.8	8.5	8.8	2.9
Ida	5.6	15.2	12.9	16.7	18.3	15.9	16.3	14.5	14.2	13.0	-11.5
Iowa	1.4	5.7	4.8	8.2	8.4	2.4	11.1	4.4	7.8	9.2	-4.4
Jackson	1.5	4.3	2.5	8.1	7.6	4.0	8.2	2.2	2.2	4.0	-8.1
Jasper	1.2	3.9	3.4	5.0	5.0	2.8	6.7	6.0	5.8	7.3	3.0

Table 8. Percentage of Total Personal Income from Farm Earnings in Iowa Counties, 1982-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	0.7	3.5	3.1	5.1	4.6	1.8	5.6	6.7	5.3	5.7	-2.4
Johnson	0.2	0.8	0.8	1.5	1.4	0.4	1.6	1.4	1.2	1.6	-0.7
Jones	0.1	4.4	3.9	7.7	7.1	3.5	9.4	4.9	5.4	8.0	-7.2
Keokuk	5.6	9.9	10.3	13.2	14.2	6.8	18.1	10.1	8.8	7.8	-3.7
Kossuth	-1.3	14.4	6.0	14.0	18.7	18.8	19.5	20.6	14.3	12.4	7.2
Lee	0.5	2.1	1.3	2.1	1.2	1.2	2.2	2.6	3.3	2.6	-0.7
Linn	0.0	0.4	0.2	0.6	0.8	0.1	0.5	0.3	0.0	0.3	-0.5
Louisa	3.7	7.9	4.3	9.2	6.5	5.2	7.8	8.4	8.0	10.9	-3.1
Lucas	-0.7	2.4	1.1	4.1	3.4	2.0	4.4	1.0	-2.7	-3.4	-5.8
Lyon	6.4	15.3	17.8	18.6	20.8	15.1	22.9	21.3	21.1	20.8	7.3
Madison	-0.1	4.8	3.4	6.1	8.0	2.3	5.7	5.1	2.9	-0.8	-4.2
Mahaska	3.8	7.1	7.7	9.3	9.7	5.4	11.3	10.1	8.5	6.8	0.7
Marion	0.8	2.4	2.4	3.3	3.0	2.5	4.4	3.5	2.9	2.2	1.4
Marshall	0.7	3.1	2.7	3.4	4.1	1.7	5.5	3.6	2.7	2.4	1.0
Mills	-0.1	6.0	5.8	5.8	5.3	5.3	6.9	8.9	6.9	3.5	2.9
Mitchell	3.3	12.1	13.7	18.0	16.2	10.3	17.3	14.0	10.0	10.6	-2.8
Monona	-0.1	11.6	6.3	12.5	13.3	10.7	13.7	14.4	11.8	7.8	-2.7
Monroe	-2.0	1.1	1.5	3.3	2.8	1.4	3.2	-1.3	-5.0	-2.8	-4.6
Montgomery	0.2	6.9	5.8	6.3	7.8	5.0	6.9	7.9	3.9	1.5	1.6
Muscatine	0.2	1.5	0.6	1.8	2.1	0.8	1.5	1.4	2.0	2.8	-0.6
O'Brien	3.4	12.4	15.1	16.9	19.3	19.6	18.8	17.1	15.9	13.4	8.4
Osceola	-1.6	13.5	16.9	17.9	20.0	19.2	19.4	15.2	8.5	7.2	-1.2
Page	2.5	8.2	7.4	7.9	8.2	4.5	8.7	10.1	6.4	-0.1	1.8
Palo Alto	-1.8	12.5	6.4	15.4	14.8	14.6	18.6	16.2	16.4	4.8	-1.0
Plymouth	4.2	10.9	12.3	13.6	13.9	8.9	15.2	12.2	13.2	10.1	-5.1
Pocahontas	-1.3	15.3	10.2	12.4	18.5	14.8	15.0	21.3	23.2	8.8	3.3
Polk	0.0	0.2	0.1	0.2	0.3	0.1	0.3	0.2	0.1	0.1	0.0
Pottawattamie	0.2	2.4	2.2	2.2	1.4	1.2	2.4	2.3	2.9	2.4	0.0
Poweshiek	0.8	4.5	3.8	6.5	6.5	2.8	8.3	6.2	1.8	3.8	-1.8
Ringgold	-1.7	9.1	7.6	12.7	17.2	8.9	15.9	11.6	0.3	-6.9	-7.9
Sac	7.0	15.8	13.0	16.8	18.0	18.2	19.3	19.8	11.5	8.8	-0.9
Scott	0.4	0.6	0.5	0.8	1.0	0.4	0.8	0.3	0.5	0.7	-0.3
Shelby	5.0	12.9	13.6	14.7	14.8	10.4	14.6	9.0	13.9	11.1	-4.9
Sioux	4.8	10.8	11.7	15.3	16.9	12.5	18.8	17.1	18.6	16.5	2.8
Story	0.4	2.1	1.7	1.9	2.9	1.0	2.9	2.9	2.2	2.2	1.2
Tama	-0.2	5.2	4.2	7.9	6.3	5.5	10.3	7.3	5.5	5.1	-3.2
Taylor	-0.7	8.7	7.2	8.3	10.2	3.8	14.8	13.4	10.2	-3.6	-3.9
Union	-1.5	2.5	2.5	3.9	3.7	1.7	4.6	1.4	1.3	-2.2	-3.8
Van Buren	-1.8	4.6	3.0	6.8	4.1	2.0	8.6	5.5	4.2	2.0	-5.3
Wapello	-0.3	0.9	0.5	1.0	1.2	.3	1.3	1.2	-0.2	-0.1	-0.7
Warren	-0.1	1.7	1.0	1.8	1.9	1.0	2.3	1.3	2.0	0.8	-0.1
Washington	4.1	6.4	8.3	10.4	8.5	5.1	12.0	10.7	12.9	15.7	8.3
Wayne	-2.9	4.0	2.8	5.6	7.1	4.6	11.6	8.2	5.0	-2.2	-4.6
Webster	0.2	4.1	2.8	3.0	6.8	2.4	4.6	5.3	2.2	0.9	3.4
Winnebago	-1.4	8.0	4.1	10.6	8.7	10.0	11.3	9.0	6.1	6.8	-0.5
Winneshiek	3.9	8.4	7.4	13.1	11.8	5.9	12.2	9.7	6.9	10.0	-10.5
Woodbury	0.5	1.6	1.1	1.8	2.1	1.2	2.3	0.7	0.8	0.5	-1.9
Worth	-1.7	7.7	6.4	14.3	13.1	11.2	15.9	13.5	12.1	12.6	-0.2
Wright	-0.5	10.3	5.9	10.3	14.6	11.2	10.6	11.9	7.3	6.6	5.2
State of Iowa	0.7	3.9	3.3	4.9	5.1	3.3	5.7	4.8	3.9	3.3	-0.6

Table 9. Dividends, Interest, and Rent (in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	32312	32937	32604	36184	32653	30472	29776	31732	30922	31633	30386
Adams	13287	13573	14465	14624	14036	13788	14894	15626	15284	16507	17117
Allamakee	45478	45385	44076	45234	41399	39204	40416	43588	42392	41189	38752
Appanoose	36008	35720	36461	36947	35151	33343	34024	35078	34136	34087	32321
Audubon	26408	26967	28274	28710	27667	25935	26179	27640	26725	28155	28327
Benton	64359	64450	67465	67409	63748	63302	63705	66509	67176	66590	63528
Black Hawk	345083	339768	343949	352928	332520	297641	296455	311265	306977	305976	287996
Boone	77036	77419	77850	79324	74890	68083	69299	70726	68692	67867	66075
Bremer	78130	77586	74990	77666	74022	68108	69651	73311	70699	70292	65989
Buchanan	65872	65851	68448	66999	62792	56958	56016	57595	57260	59083	57078
Buena Vista	69096	69261	72569	74222	69817	61667	64019	68142	66256	66380	67176
Butler	49478	49609	49892	51968	49517	46676	49142	53472	53964	54965	52636
Calhoun	46753	46555	43407	44414	42134	39389	40927	43454	44070	44139	48753
Carroll	91901	92051	89149	88598	83341	78655	79499	80361	77808	77415	73859
Cass	61882	62088	64962	65056	61932	56045	59100	62604	60735	59778	56320
Cedar	70106	69988	69253	67822	63302	60676	61321	62351	65402	65540	60047
Cerro Gordo	154542	152298	156885	161551	147875	134889	145148	144945	140928	139239	128554
Cherokee	48478	48831	49857	51886	47256	44965	45292	46661	45826	47810	48461
Chickasaw	39955	40190	40184	41661	40819	39120	40952	43503	42446	43929	41902
Clarke	20469	20584	21526	22798	20833	20692	21618	22833	22380	21717	20833
Clay	57822	58423	57675	60247	57784	55174	53971	57084	56025	54029	52506
Clayton	62621	63464	61822	62622	60351	57038	58984	61358	58668	58283	54067
Clinton	145738	144259	143297	146403	136784	130570	134838	140767	138720	137075	125382
Crawford	67125	68990	64087	61111	50801	46521	49660	53676	53462	54052	52253
Dallas	92228	91655	89838	89736	83210	74489	75800	78892	75994	75486	73842
Davis	26590	26686	25813	25500	20643	19251	20391	21356	19973	19853	19491
Decatur	17361	17606	18528	19428	18610	17282	17632	19013	18545	18655	18487
Delaware	56103	56304	56389	57144	53865	51288	52918	54545	52223	51942	49028
Des Moines	127374	127036	126245	129068	121437	112069	113548	118137	114457	114806	106565
Dickinson	74833	74360	72266	73946	70288	63937	62149	62563	60907	61101	55775
Dubuque	308308	306460	297583	301129	274997	258189	250968	253303	238743	227711	214833
Emmet	36480	36722	36715	37190	33527	31672	34532	37664	37429	37935	37838
Fayette	63075	63552	65245	66571	63921	59725	61805	67452	65488	66235	62820
Floyd	62857	63081	64101	64263	62210	54439	56094	59475	60335	62128	56926
Franklin	42610	42385	42499	43416	40019	36313	40273	42572	43538	42521	45897
Fremont	26037	26748	27687	28570	27573	24765	26169	26469	27162	26385	28117
Greene	42104	42728	42410	42375	40931	38454	41627	45436	44382	43638	46217
Grundy	50310	50207	47404	49121	45976	43039	45196	47754	48279	48514	44151
Guthrie	35271	35839	36907	37660	34473	32054	34084	36638	35996	35705	35174
Hamilton	55426	56355	58736	59058	56067	51560	56091	59102	58395	56361	57283
Hancock	42780	42986	44803	47798	44093	41283	43595	46937	46050	47469	48862
Hardin	70823	71728	74735	76382	74485	72495	72396	76938	75431	76428	75315
Harrison	36158	37236	39714	40555	40260	37917	38065	39924	39555	41743	41155
Henry	56161	55823	57049	57911	54281	51953	53417	55516	54542	53033	50601
Howard	36705	37528	37318	37883	35427	34572	35251	37598	36705	37581	31812
Humboldt	42772	43004	42845	44033	42096	37611	39644	41455	40375	42305	42707
Ida	27304	27276	28737	30066	28204	26983	28492	29909	30369	31088	29873
Iowa	60385	60923	55823	52677	48218	49913	50358	53518	51342	51445	47229
Jackson	62242	62750	64569	61848	60367	57479	60170	63772	62964	62727	56201
Jasper	119663	118559	117519	116294	108627	106665	108071	107076	103990	101481	98500

Table 9. Dividends, Interest, and Rent (in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	54190	53350	51372	54665	49796	42605	44811	45023	43030	43499	37501
Johnson	300685	295822	276257	275099	251415	216839	209189	215423	199030	192613	170116
Jones	58567	58834	59827	65148	62398	57969	56737	60178	59581	57996	54762
Keokuk	42688	43276	44393	45104	43337	40856	44112	45822	45325	46965	48237
Kossuth	66461	65974	67268	71296	67308	61817	64588	68218	68453	70626	74175
Lee	116075	115657	124845	116932	111815	103541	103726	107453	103400	99554	94370
Linn	584718	571798	573859	568584	541190	477811	466349	462928	445973	431410	400786
Louisa	26360	26848	28167	28679	27835	26954	29527	30178	30208	29842	29076
Lucas	28628	28684	27872	29015	28223	27672	26635	28665	27016	27628	26039
Lyon	36192	36708	37771	39291	38695	34670	33510	35994	37447	37285	41001
Madison	33890	33949	34884	35008	32385	31782	32247	34521	34692	34339	32093
Mahaska	63341	63493	65723	66231	61789	60648	62306	63692	61476	60584	57968
Marion	101663	100257	97580	99129	89642	83721	87545	88894	85080	85446	82995
Marshall	132394	131058	130576	135376	132808	114512	113161	120792	116615	114112	109319
Mills	28874	28906	29107	30115	28605	27771	28673	29746	28695	30156	28771
Mitchell	46927	47717	46361	47598	45351	43253	45703	48985	47132	46485	44468
Monona	29012	29387	30928	32200	32022	29765	28974	31408	32187	32163	36395
Monroe	24731	24616	24363	23838	21583	20705	19637	20474	22204	21522	20447
Montgomery	43491	43211	44927	44772	43954	39784	39671	42046	41464	41626	38448
Muscatine	176376	171757	160223	156358	134340	134603	130260	129034	123550	118611	108882
O'Brien	56590	56976	57693	59463	54723	51317	53410	58433	57586	58289	57982
Osceola	25405	25711	25780	27041	25389	23985	24439	25624	26945	28361	28230
Page	61307	61430	63626	64964	61281	55399	56503	58407	54726	55403	55317
Palo Alto	37575	37085	37254	38895	35695	34013	35368	40044	40471	39891	42860
Plymouth	87406	87076	86638	88008	82051	74913	74646	77867	76923	76091	72973
Pocahontas	33227	34187	35139	35948	34484	33187	36312	38580	38620	38036	40061
Polk	1135916	1114981	1118790	1094777	1004977	907391	850956	838210	797245	769798	715554
Pottawattamie	185189	181711	171942	166903	158431	163037	165237	168772	162045	158417	146165
Poweshiek	66859	66158	66589	66338	62562	58284	58597	60112	58036	57916	54788
Ringgold	15738	16293	17017	17051	16005	15617	16646	17624	17528	17471	18007
Sac	48932	49127	48553	49771	47534	43580	44559	49630	49603	50743	49525
Scott	467619	457502	456280	463146	411730	387025	376701	387812	366703	353996	327168
Shelby	50020	50664	52589	54890	51996	49183	48379	50207	48848	48201	48028
Sioux	97916	97416	96984	88139	83335	83301	82075	85357	85100	86396	84028
Story	218804	217761	205670	192596	181720	177522	177164	178755	173420	168480	158963
Tama	59104	59374	61082	62372	60545	58758	60688	64959	64027	64772	62155
Taylor	19948	20886	21769	22615	21123	20790	22319	24374	24913	25882	26103
Union	37229	37340	39410	41887	38046	37792	37269	40217	39119	39152	39281
Van Buren	20181	20658	21336	20324	19276	18481	18851	20343	19343	19382	19574
Wapello	83505	84904	91617	90909	84198	77269	79750	81903	79487	77437	73082
Warren	79245	76744	76943	74682	68713	64582	63883	64178	60703	60157	58257
Washington	75698	75960	73503	74923	69823	63590	70637	72275	71074	70007	69185
Wayne	22006	22267	23722	24306	23296	21855	23185	24800	24144	25235	24933
Webster	134890	135315	137948	128688	119151	118596	122047	128002	122162	120202	115207
Winnebago	43595	43907	44186	45538	44550	42048	42829	47364	47022	45289	41197
Winneshiek	66982	67018	65320	66223	62719	58977	60805	60659	57569	56560	52212
Woodbury	319945	314153	278922	261456	245278	246744	243918	250303	243315	233820	226302
Worth	26188	26176	27080	27852	25530	24490	25886	28311	28080	27247	24742
Wright	54717	54875	56196	56594	58014	51108	56997	56777	59868	59964	55484
State of Iowa	9068898	9006741	8960506	8966743	8371895	7794420	7821039	8066668	7837305	7735063	7368229

Table 10. Adjusted Dividends, Interest, and Rent (1993 dollars in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	32312	33886	34502	39850	37837	37026	37596	41534	41065	43512	43223
Adams	13287	13964	15307	16106	16264	16753	18806	20453	20297	22706	24349
Allamakee	45478	46692	46641	49817	47971	47635	51030	57052	56297	56656	55124
Appanoose	36008	36749	38583	40691	40731	40514	42960	45914	45333	46887	45976
Audubon	26408	27744	29920	31619	32059	31513	33054	36178	35491	38728	40294
Benton	64359	66307	71392	74239	73868	76916	80436	87054	89211	91596	90367
Black Hawk	345083	349556	363967	388687	385307	361654	374312	407415	407672	420875	409667
Boone	77036	79649	82381	87361	86779	82725	87499	92573	91224	93352	93990
Bremer	78130	79821	79354	85535	85773	82756	87943	95957	93890	96688	93868
Buchanan	65872	67748	72432	73787	72760	69208	70727	75386	76042	81270	81192
Buena Vista	69096	71256	76793	81742	80900	74930	80832	89191	87989	91307	95556
Butler	49478	51038	52796	57233	57378	56714	62048	69990	71665	75605	74873
Calhoun	46753	47896	45933	48914	48823	47860	51676	56877	58526	60714	69350
Carroll	91901	94703	94338	97575	96571	95571	100378	105185	103331	106486	105063
Cass	61882	63877	68743	71648	71764	68098	74621	81942	80657	82226	80114
Cedar	70106	72004	73284	74694	73351	73725	77426	81611	86855	90151	85415
Cerro Gordo	154542	156685	166016	177920	171350	163899	183268	189719	187155	191525	182865
Cherokee	48478	50238	52759	57143	54758	54635	57187	61075	60858	65763	68935
Chickasaw	39955	41348	42523	45882	47299	47533	51707	56941	56369	60425	59605
Clarke	20469	21177	22779	25108	24140	25142	27295	29886	29721	29872	29634
Clay	57822	60106	61032	66351	66957	67040	68145	74717	74402	74318	74688
Clayton	62621	65292	65420	68967	69932	69305	74475	80312	77912	80169	76909
Clinton	145738	148415	151637	161237	158498	158651	170250	184250	184223	188549	178353
Crawford	67125	70977	67817	67303	58866	56526	62702	70257	70999	74349	74329
Dallas	92228	94295	95067	98828	96419	90509	95707	103262	100922	103832	105038
Davis	26590	27455	27315	28084	23920	23391	25746	27953	26525	27308	27725
Decatur	17361	18113	19606	21396	21564	20999	22263	24886	24628	25660	26297
Delaware	56103	57926	59671	62934	62416	62318	66816	71394	69353	71447	69741
Des Moines	127374	130695	133593	142145	140715	136171	143369	154630	152001	157917	151586
Dickinson	74833	76502	76472	81438	81446	77688	78471	81889	80886	84045	79339
Dubuque	308308	315288	314903	331640	318652	313717	316879	331548	317056	313220	305595
Emmet	36480	37780	38852	40958	38849	38484	43601	49298	49707	52180	53824
Fayette	63075	65383	69042	73316	74068	72570	78037	88288	86969	91107	89360
Floyd	62857	64898	67832	70774	72086	66147	70826	77847	80126	85458	80976
Franklin	42610	43606	44972	47815	46372	44123	50850	55723	57819	58488	65287
Fremont	26037	27519	29298	31465	31950	30091	33042	34645	36072	36293	39996
Greene	42104	43959	44878	46669	47429	46724	52559	59471	58940	60025	65743
Grundy	50310	51653	50163	54098	53275	52295	57066	62505	64116	66732	62804
Guthrie	35271	36871	39055	41476	39946	38948	43035	47955	47803	49113	50034
Hamilton	55426	57978	62154	65042	64968	62649	70822	77359	77550	77525	81484
Hancock	42780	44224	47411	52641	51093	50162	55044	61436	61155	65294	69505
Hardin	70823	73794	79085	84121	86309	88086	91409	100704	100174	105128	107134
Harrison	36158	38309	42025	44664	46651	46072	48062	52257	52530	57418	58542
Henry	56161	57431	60369	63779	62898	63126	67446	72665	72433	72948	71979
Howard	36705	38609	39490	41721	41051	42007	44509	49212	48745	51693	45252
Humboldt	42772	44243	45339	48494	48779	45700	50056	54260	53619	58191	60750
Ida	27304	28062	30410	33112	32681	32786	35975	39148	40331	42762	42494
Iowa	60385	62678	59072	58014	55873	60648	63583	70050	68183	70763	67182
Jackson	62242	64558	68327	68115	69950	69841	75972	83471	83618	86282	79945
Jasper	119663	121974	124359	128077	125871	129605	136453	140152	138101	139589	140114

Table 10. Adjusted Dividends, Interest, and Rent (1993 dollars in \$1,000) in Iowa Counties, 1983-1993  
(continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	54190	54887	54362	60204	57701	51768	56580	58931	57145	59834	53344
Johnson	300685	304344	292335	302972	291327	263474	264128	281967	264316	264942	241986
Jones	58567	60529	63309	71749	72304	70436	71638	78767	79125	79774	77898
Keokuk	42688	44523	46977	49674	50217	49643	55697	59976	60193	64601	68616
Kossuth	66461	67874	71183	78520	77993	75112	81551	89291	90907	97147	105512
Lee	116075	118989	132111	128780	129565	125809	130967	140645	137317	136938	134239
Linn	584718	588270	607258	626194	627103	580572	588824	605927	592262	593411	570108
Louisa	26360	27621	29806	31585	32254	32751	37282	39500	40117	41048	41360
Lucas	28628	29510	29494	31955	32703	33623	33630	37520	35878	38003	37040
Lyon	36192	37765	39969	43272	44838	42126	42311	47113	49730	51286	58323
Madison	33890	34927	36914	38555	37526	38617	40716	45185	46072	47234	45651
Mahaska	63341	65322	69548	72942	71598	73691	78669	83366	81641	83334	82458
Marion	101663	103145	103259	109173	103873	101727	110537	116353	112988	117532	118058
Marshall	132394	134833	138176	149093	153891	139140	142880	158105	154867	156963	155504
Mills	28874	29739	30801	33166	33146	33744	36203	38935	38108	41480	40926
Mitchell	46927	49092	49059	52421	52550	52555	57706	64116	62592	63941	63255
Monona	29012	30234	32728	35463	37105	36166	36583	41110	42745	44241	51771
Monroe	24731	25325	25781	26253	25009	25158	24794	26798	29487	29604	29085
Montgomery	43491	44456	47542	49308	50932	48340	50090	55034	55065	57257	54691
Muscatine	176376	176705	169548	172200	155666	163552	164470	168893	164077	163151	154882
O'Brien	56590	58617	61051	65488	63410	62354	67437	76483	76475	80177	82478
Osceola	25405	26452	27280	29781	29419	29143	30857	33539	35784	39011	40156
Page	61307	63200	67329	71546	71009	67313	71342	76449	72677	76208	78687
Palo Alto	37575	38153	39422	42836	41362	41328	44657	52414	53746	54871	60967
Plymouth	87406	89584	91680	96925	95076	91024	94250	101920	102155	104664	103802
Pocahontas	33227	35172	37184	39590	39958	40324	45848	50497	51288	52319	56986
Polk	1135916	1147100	1183905	1205702	1164516	1102541	1074439	1097134	1058758	1058869	1017858
Pottawattamie	185189	186945	181949	183814	183582	198101	208633	220906	215199	217905	207916
Poweshiek	66859	68064	70465	73059	72494	70819	73986	78681	77073	79664	77935
Ringgold	15738	16762	18007	18779	18546	18976	21018	23068	23278	24032	25615
Sac	48932	50542	51379	54814	55080	52953	56261	64961	65874	69798	70448
Scott	467619	470681	482836	510073	477092	470261	475633	507607	486989	486927	465388
Shelby	50020	52123	55650	60452	60250	59761	61085	65716	64871	66301	68319
Sioux	97916	100222	102629	97069	96564	101216	103630	111724	113015	118839	119528
Story	218804	224034	217640	212110	210568	215701	223692	233973	230305	231747	226121
Tama	59104	61084	64637	68692	70156	71395	76626	85025	85029	89095	88414
Taylor	19948	21488	23036	24906	24476	25261	28181	31903	33085	35601	37131
Union	37229	38416	41704	46131	44086	45920	47057	52640	51951	53854	55876
Van Buren	20181	21253	22578	22383	22336	22456	23802	26627	25688	26660	27844
Wapello	83505	87350	96949	100120	97564	93887	100694	107203	105560	106516	103957
Warren	79245	78955	81421	82249	79621	78471	80660	84003	80615	82747	82869
Washington	75698	78148	77781	82514	80907	77266	89188	94601	94388	96296	98414
Wayne	22006	22908	25103	26769	26994	26555	29274	32461	32064	34711	35467
Webster	134890	139213	145977	141727	138066	144102	154100	167542	162234	165340	163879
Winnebago	43595	45172	46758	50152	51622	51091	54077	61995	62446	62296	58602
Winneshiek	66982	68949	69122	72933	72676	71661	76774	79397	76453	77799	74270
Woodbury	319945	323203	295156	287947	284216	299810	307977	327622	323127	321623	321909
Worth	26188	26930	28656	30674	29583	29757	32684	37056	37291	37479	35195
Wright	54717	56456	59467	62328	67224	62100	71966	74315	79506	82481	78925
State of Iowa	9068898	9266194	9482017	9875268	9700921	9470741	9875049	10558466	10408108	10639702	10481122

Table 11. Percentage of Total Personal Income from Dividends, Interest, and Rent in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	25.9	24.5	26.1	28.5	26.8	29.0	28.0	29.6	32.1	35.2	39.1
Adams	20.3	19.1	21.4	20.9	21.1	24.2	23.3	25.5	28.1	33.3	35.3
Allamakee	21.8	21.6	22.9	22.7	22.5	24.0	23.8	27.5	28.6	27.8	33.1
Appanoose	17.6	17.8	19.2	20.1	20.4	21.0	22.0	24.0	24.9	25.3	24.5
Audubon	23.5	22.1	23.8	24.9	24.6	27.0	25.7	30.3	29.5	34.1	42.9
Benton	16.9	17.2	19.3	19.5	19.4	21.9	21.5	23.0	25.4	25.2	27.0
Black Hawk	15.4	15.7	16.9	17.9	18.1	17.6	18.5	20.3	19.7	19.4	18.6
Boone	16.1	16.3	17.6	18.6	18.2	18.4	19.1	20.6	21.3	22.1	22.3
Bremer	19.7	19.7	20.7	22.0	22.7	23.1	24.1	26.3	25.3	25.5	26.2
Buchanan	20.3	19.8	21.5	21.5	22.0	22.6	21.7	24.9	25.0	25.8	29.6
Buena Vista	21.3	20.9	22.8	23.8	23.2	22.5	24.0	25.5	25.8	28.3	31.3
Butler	20.5	19.6	20.9	22.2	24.2	24.2	24.3	27.7	27.5	28.8	32.6
Calhoun	25.9	23.0	24.5	25.3	24.0	24.4	26.1	28.1	29.3	30.6	34.9
Carroll	24.1	23.5	24.3	25.0	24.8	24.9	25.5	27.5	27.3	27.8	29.1
Cass	25.3	24.1	26.7	27.5	26.7	27.3	28.5	31.0	30.5	30.7	31.5
Cedar	22.6	22.4	23.5	23.1	22.9	24.7	25.0	27.4	28.8	28.6	31.0
Cerro Gordo	18.4	18.3	19.6	20.7	20.8	19.8	21.9	22.8	22.9	23.3	23.1
Cherokee	21.6	20.8	21.4	22.7	22.2	22.2	23.3	25.1	25.7	27.7	31.7
Chickasaw	18.6	18.1	19.1	20.1	21.1	22.1	22.4	25.4	25.5	26.7	29.7
Clarke	17.8	17.4	19.2	20.1	19.4	21.5	22.5	25.3	26.5	28.1	27.7
Clay	19.3	18.9	20.1	20.7	20.9	21.6	22.2	24.2	25.1	25.9	26.8
Clayton	22.4	21.5	22.7	22.0	23.1	25.0	24.5	27.1	27.8	27.4	35.2
Clinton	16.2	16.2	17.3	18.1	18.0	18.8	20.0	21.8	21.7	21.4	21.5
Crawford	24.7	24.4	24.5	24.2	21.7	21.0	22.9	25.6	27.2	27.5	30.6
Dallas	14.7	15.1	16.2	17.0	16.7	16.6	17.6	19.5	19.8	20.1	20.7
Davis	21.8	22.4	23.2	22.6	21.0	21.5	22.5	24.2	23.9	24.0	25.9
Decatur	16.9	16.9	18.5	19.2	19.0	20.5	19.9	22.4	22.9	25.1	27.8
Delaware	20.5	19.4	20.3	19.8	21.1	22.6	21.9	25.0	26.0	26.0	33.0
Des Moines	16.2	16.6	17.4	18.2	18.5	18.2	19.0	20.4	20.3	20.8	20.8
Dickinson	24.9	24.9	26.2	27.1	27.6	28.2	28.9	30.6	31.8	31.4	32.5
Dubuque	18.9	19.4	20.3	21.1	20.8	20.9	21.0	22.7	22.1	21.8	22.7
Emmet	20.3	19.7	21.5	21.5	20.9	21.3	23.4	25.9	25.9	27.6	29.6
Fayette	19.9	19.3	20.7	21.1	21.9	23.3	22.9	26.8	26.4	26.1	29.3
Floyd	22.8	22.3	23.7	23.7	25.6	24.0	24.4	27.0	28.3	29.0	30.0
Franklin	25.2	21.9	24.6	24.1	23.8	23.5	25.0	26.2	29.3	29.8	37.2
Fremont	21.6	19.6	22.0	23.6	23.6	21.9	24.1	22.8	24.7	26.9	26.8
Greene	26.4	23.9	26.8	28.0	26.3	28.2	28.6	31.5	33.1	34.0	35.1
Grundy	23.1	21.9	22.5	23.9	24.7	24.7	24.9	27.5	28.5	28.7	27.7
Guthrie	19.3	18.9	20.6	21.6	20.7	22.3	23.2	26.7	27.0	28.4	32.5
Hamilton	19.8	19.0	20.7	21.9	20.2	22.8	23.5	25.1	25.9	26.6	27.5
Hancock	23.9	21.8	25.1	25.0	25.5	24.8	26.7	27.7	27.7	29.7	33.7
Hardin	22.5	22.0	24.3	24.9	26.4	28.0	26.2	27.9	28.5	29.9	31.9
Harrison	16.0	15.8	18.6	19.7	21.0	21.0	21.5	22.6	22.1	25.4	27.5
Henry	16.7	17.1	18.6	19.4	20.0	20.5	21.8	23.7	24.5	25.4	26.7
Howard	24.7	24.4	25.6	25.9	26.1	29.5	27.6	30.5	32.4	31.3	33.3
Humboldt	24.8	23.4	26.3	26.1	24.6	25.5	27.1	29.1	30.0	31.1	34.2
Ida	20.6	19.5	22.0	22.6	22.0	22.7	24.7	27.6	28.6	30.5	39.6
Iowa	21.3	21.4	21.9	21.7	21.3	24.8	23.8	28.0	26.8	26.8	31.1
Jackson	19.4	19.7	21.9	21.2	22.0	23.1	24.0	27.6	27.7	27.4	29.3
Jasper	18.7	18.7	19.7	19.7	19.6	20.9	21.1	22.2	22.4	22.3	23.7

Table 11. Percentage of Total Personal Income from Dividends, Interest, and Rent in Iowa Counties, 1983-1993  
(continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	20.5	20.1	20.7	21.9	21.6	20.4	21.5	22.6	23.7	24.9	26.0
Johnson	15.5	16.0	15.9	16.6	16.4	15.9	16.4	17.8	17.5	17.8	17.2
Jones	21.1	21.0	22.7	24.1	24.8	25.9	25.3	28.7	29.0	28.3	32.4
Keokuk	23.6	23.4	25.0	25.3	25.5	27.8	26.4	30.1	30.5	32.5	38.7
Kossuth	24.6	21.5	25.1	24.6	23.3	23.2	24.7	25.8	28.1	29.7	33.8
Lee	17.7	17.8	20.1	19.7	20.0	19.8	20.4	21.0	20.5	20.3	20.7
Linn	15.8	16.2	17.3	17.8	18.0	17.4	18.1	19.0	19.3	19.7	19.3
Louisa	13.8	13.9	15.9	15.9	16.8	18.0	19.7	21.1	22.4	22.2	25.5
Lucas	19.5	19.5	20.1	21.1	21.4	22.4	22.2	24.7	24.7	26.0	26.1
Lyon	21.4	20.5	21.5	23.2	23.4	24.5	22.6	25.0	26.3	26.9	34.7
Madison	15.6	15.7	17.4	17.7	17.4	19.2	20.1	22.5	24.0	25.3	26.0
Mahaska	18.1	18.3	19.9	20.2	20.3	22.0	21.9	23.3	23.7	24.7	26.4
Marion	18.1	18.4	19.1	19.9	19.3	19.3	20.6	22.5	22.7	23.6	24.1
Marshall	18.5	18.6	19.1	20.5	21.1	20.4	20.2	22.3	21.9	21.9	21.9
Mills	11.0	10.6	11.3	12.3	12.6	12.8	14.0	15.5	16.3	19.1	20.1
Mitchell	25.1	24.1	24.5	24.8	25.8	28.2	27.3	31.0	32.3	32.3	37.3
Monona	19.1	18.2	21.4	21.8	22.5	23.6	23.5	25.2	26.5	27.8	34.7
Monroe	18.0	18.1	18.9	19.2	19.2	19.5	19.2	22.0	24.1	24.2	25.1
Montgomery	21.6	21.1	22.9	23.5	23.8	24.0	24.6	26.3	27.1	27.9	27.5
Muscatine	21.3	21.5	21.9	22.1	20.6	22.0	22.3	22.8	22.2	21.8	21.8
O'Brien	22.7	21.8	22.4	23.4	22.8	22.3	24.3	27.2	28.1	29.6	32.4
Osceola	25.4	22.7	23.1	24.9	24.6	25.1	26.3	29.0	32.7	34.3	37.9
Page	20.9	20.7	22.9	24.0	23.8	24.3	24.6	25.4	25.9	28.5	29.3
Palo Alto	24.0	21.6	24.6	24.1	23.6	24.0	24.2	27.8	28.2	31.8	36.4
Plymouth	21.2	20.8	21.7	22.8	23.1	24.6	23.2	26.6	26.8	28.1	32.6
Pocahontas	24.6	21.5	24.4	25.0	23.4	25.2	27.8	27.4	27.6	33.0	37.6
Polk	14.4	14.8	15.9	16.4	16.3	16.0	16.4	17.1	17.0	17.1	17.0
Pottawattamie	13.1	13.1	13.2	13.4	13.6	14.6	15.2	15.9	15.6	15.8	15.7
Poweshiek	20.0	19.8	21.1	21.3	21.3	22.0	22.0	24.1	25.6	25.7	27.4
Ringgold	21.8	20.8	23.7	23.4	22.0	25.6	25.7	28.2	32.2	35.2	36.7
Sac	25.8	24.4	26.1	26.6	26.5	26.2	27.4	29.4	32.6	33.8	37.4
Scott	15.1	15.3	16.2	17.0	16.4	16.6	16.9	18.0	17.3	17.1	17.0
Shelby	24.1	23.3	24.9	26.6	26.6	27.7	27.2	30.2	28.4	29.3	35.2
Sioux	20.4	20.3	21.4	20.2	20.2	22.7	22.1	24.0	23.6	24.8	29.3
Story	16.4	16.9	17.0	16.8	16.8	18.0	18.6	19.7	19.9	20.6	21.1
Tama	21.0	21.2	22.8	23.0	23.9	24.7	24.9	27.8	28.4	29.6	32.6
Taylor	22.5	22.0	24.1	25.7	25.4	27.9	26.8	29.2	31.2	37.4	38.3
Union	19.1	19.0	21.1	22.6	21.8	23.4	23.7	26.3	26.4	27.7	28.8
Van Buren	19.4	19.3	21.6	20.7	21.3	22.7	22.4	25.3	25.1	26.5	29.6
Wapello	13.9	14.5	16.4	16.9	16.7	16.9	18.0	19.0	18.4	18.2	18.3
Warren	11.7	11.8	12.7	13.0	13.0	13.2	13.9	14.8	14.5	15.1	15.6
Washington	21.5	21.9	22.0	22.7	23.4	24.1	25.6	27.3	26.9	26.4	29.9
Wayne	22.5	22.0	24.9	25.2	25.2	26.2	26.2	28.8	30.1	33.3	35.2
Webster	19.4	19.5	21.1	20.9	20.0	22.0	23.2	24.3	24.5	24.5	23.6
Winnebago	21.4	20.6	23.0	22.4	22.9	21.9	23.5	27.0	28.1	27.2	29.8
Winneshiek	19.6	19.5	20.4	20.6	21.6	23.3	23.4	25.1	25.8	25.4	30.9
Woodbury	16.3	16.6	16.4	16.2	16.2	17.5	18.0	19.7	19.7	19.6	20.0
Worth	22.4	21.2	23.1	22.4	22.2	22.5	23.3	26.4	26.9	26.1	29.1
Wright	25.1	23.1	25.8	25.5	25.2	25.1	28.3	28.1	30.3	29.1	29.5
State of Iowa	17.6	17.7	18.8	19.3	19.3	19.6	20.3	21.9	22.0	22.5	23.3



Table 12. Transfer Payments (in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	27754	26091	23710	22117	20213	18615	17744	17729	17380	16422	15704
Adams	17163	15976	14799	13911	12920	12128	12279	12024	11084	10310	9628
Allamakee	45272	42489	38249	35592	32814	30112	29205	28611	27881	25116	24426
Appanoose	59223	56097	52168	48023	44951	41627	40023	39738	39409	37695	37557
Audubon	25666	24054	22068	20636	19081	17101	16186	15799	15380	14421	13847
Benton	66003	62923	58713	53167	48792	44674	43518	42830	41496	39364	39137
Black Hawk	416075	390246	361629	329284	306735	281880	271965	273013	266663	248434	253628
Boone	125245	116490	110895	101824	93960	90102	81264	71598	65195	56234	51304
Bremer	63243	59328	55418	50089	46902	43714	43300	42861	41067	37892	37704
Buchanan	62706	59227	55716	50090	47077	43410	43473	42029	40627	37051	36906
Buena Vista	62933	59620	54952	50566	47552	44662	42579	41894	39983	37438	36577
Butler	55985	53157	47964	43061	39643	36105	35427	34624	32683	31118	30562
Calhoun	46674	43891	40968	37602	33680	31179	29606	28809	28098	25993	25168
Carroll	71047	65983	60660	55805	51547	46442	43775	42541	40569	38178	36538
Cass	57374	54434	50027	45477	41803	37888	35856	35229	34543	32973	31566
Cedar	48470	46847	42158	38684	35703	32680	31703	30946	29965	27846	27027
Cerro Gordo	166649	157762	145922	132806	121582	111665	107573	104834	99620	91175	91001
Cherokee	48455	44686	41903	39335	36752	33590	33052	31740	29815	27335	26309
Chickasaw	41426	39134	36198	32669	30447	28232	27169	27146	26663	24613	24733
Clarke	28951	26908	24468	22016	20406	18836	17864	17460	17025	16073	15806
Clay	55626	52494	48209	44244	40591	37517	36438	35736	34182	31323	30398
Clayton	62655	59538	54924	50095	46330	42507	39988	38930	38444	35738	35205
Clinton	179529	170064	158902	144490	132855	121133	113741	112344	110160	104645	105307
Crawford	57298	53743	49386	45071	41098	37125	34056	33164	31631	31066	29827
Dallas	94074	88512	80772	73979	69984	63084	59744	59066	57040	54140	52900
Davis	28464	26811	24512	22785	21346	19642	19108	18741	17977	16845	16582
Decatur	33368	31424	27894	25888	23793	22157	20278	19699	19423	18598	18157
Delaware	46293	43484	39952	36269	33779	30822	29954	29495	28931	26789	26587
Des Moines	145386	138363	128366	118523	109582	101683	98106	96857	94716	86787	88811
Dickinson	52584	49152	45704	41247	38132	34965	33804	33054	31937	29647	28502
Dubuque	266145	249852	229542	210167	195466	179298	165987	163314	159044	154972	159099
Emmet	44824	41905	38347	34713	32397	29429	27848	27303	26510	25087	25483
Fayette	77602	73071	67690	61225	56700	51819	48788	48397	48288	45638	45042
Floyd	63293	59667	54346	49670	45652	42039	40254	39872	39259	36663	37396
Franklin	38204	36902	33664	30298	27740	25695	25383	24530	23358	21614	21195
Fremont	33192	31110	28559	26164	24633	22579	21100	20498	19488	18651	17881
Greene	37936	35640	33034	30720	28865	26509	24626	24498	24366	22878	22290
Grundy	37496	36101	33724	30724	28714	26399	25375	24970	24789	23173	22306
Guthrie	43045	40230	36708	33766	31591	28899	27554	26975	26111	24728	23453
Hamilton	56702	54295	49088	45404	41542	37799	35352	34667	34176	32299	31494
Hancock	38350	36630	33164	30635	27640	25139	24680	24299	23024	21068	20628
Hardin	75019	70102	64903	59085	54589	50411	48355	46562	43846	42140	40390
Harrison	58894	56021	51089	45420	42661	38205	35630	34537	34115	32439	31198
Henry	58273	54612	51284	46945	43350	40455	37845	37256	36444	33495	33419
Howard	35981	33942	30935	27889	25599	22937	21053	20888	20657	19816	19233
Humboldt	40060	36917	34308	31364	28610	25918	24370	23814	23310	22024	21082
Ida	27162	25731	23918	21623	20329	18606	18031	17300	16267	14821	14045
Iowa	43678	41117	37882	34682	31855	29668	28660	28118	27301	24411	23903
Jackson	68648	66152	59555	53908	50244	46537	42441	41655	41697	40379	40562
Jasper	112381	105554	96419	87763	80960	74324	71359	70076	67302	63270	61679

Table 12. Transfer Payments (in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	44818	42126	38801	36167	33489	30940	30362	29653	28054	26197	26813
Johnson	173810	163688	151151	137476	126559	115649	110734	105280	99858	88370	87254
Jones	53964	50704	46138	42726	40183	36575	35144	34522	33597	31577	31245
Keokuk	44799	42701	39109	35906	33463	31154	29876	29413	28119	26411	25562
Kossuth	59311	55417	51727	47334	43844	40072	38254	37729	36935	34495	33455
Lee	135438	129320	118983	107731	102435	93809	91036	90015	86916	81556	83406
Linn	471178	445789	410537	376802	344411	316462	307666	303028	288675	266725	270977
Louisa	34079	31862	30178	27113	24933	23297	22178	21881	21106	19638	19768
Lucas	36994	34862	32412	29735	27683	25892	23735	23560	24396	22803	21983
Lyon	33146	31080	28953	26857	24641	22482	21797	21448	20383	18914	17876
Madison	42163	39573	36419	33320	30958	28382	26128	25392	24728	23524	22562
Mahaska	70544	66915	61445	56339	52376	48483	46202	45610	44874	41435	41004
Marion	100169	93921	87625	80098	74064	68211	63580	61749	59532	56876	55451
Marshall	125662	116769	109451	101020	94093	87176	86528	84874	82115	75629	76701
Mills	90311	88922	82703	76736	68894	66589	58759	47350	39350	30292	23132
Mitchell	36193	33471	30816	28477	26609	24710	24559	23941	23280	21545	21379
Monona	44978	42053	38801	35224	32226	29272	27160	26287	26054	24989	24074
Monroe	34766	33044	30760	28240	26610	24827	22844	22844	22490	21431	21483
Montgomery	50109	46787	42583	39165	36190	32999	31754	31022	30322	28612	27691
Muscatine	114831	110069	102154	92635	86232	78281	74000	73946	72331	66663	67849
O'Brien	53404	48727	46565	42525	38884	35654	34870	33885	31547	30073	28653
Osceola	23286	21967	19792	18143	17166	15753	14889	14956	14317	13523	12889
Page	65735	62403	57852	53182	49584	45603	43346	42366	41218	38521	37716
Palo Alto	40922	37855	35521	32122	29505	26927	25439	25154	24649	23273	22509
Plymouth	66915	62910	57773	52844	48869	44561	43011	41678	40577	37205	35725
Pocahontas	33661	32098	29430	27000	25035	23172	22825	22321	21353	20001	19483
Polk	1010624	950649	869707	796752	735216	670987	632629	620994	606313	559496	561982
Pottawattamie	284063	270076	246074	229022	208538	191223	181958	179681	178560	164362	160369
Poweshiek	56785	53655	48829	45022	41942	38366	36579	35926	34129	32261	31840
Ringgold	21229	20290	18437	16846	15562	14229	13603	12949	12805	11761	11280
Sac	45135	42144	39556	36260	33733	31006	28784	28345	27425	26011	25322
Scott	494945	460020	422343	387860	356615	327720	305697	299075	289741	271840	276399
Shelby	43082	40638	37310	34122	31287	28680	28486	27432	25875	24552	22932
Sioux	78483	73438	67289	61103	56527	51387	49817	48268	45976	42841	40495
Story	166301	155344	146942	133581	123919	113748	109393	103763	99160	88283	86719
Tama	59554	56365	51610	46652	43159	39850	38940	38123	37212	33908	32634
Taylor	27532	25930	24145	22333	20697	19024	18535	18236	17764	16721	16191
Union	49291	46131	43215	40134	37445	34397	32264	31742	31430	29978	29296
Van Buren	26968	25347	23451	21698	20915	18839	17749	17580	17428	16082	16222
Wapello	150387	144689	133396	121096	114215	105267	100407	100370	97131	91776	91724
Warren	89654	83535	76857	70029	64213	59306	55089	53234	51901	47538	47141
Washington	63102	59186	55211	50417	45606	41509	39645	38797	36952	33843	33162
Wayne	32484	30573	27514	25806	24207	21759	19753	19562	19566	19884	18987
Webster	154317	144704	133805	122944	113277	103867	97614	95844	91692	87840	86836
Winnebago	38796	35993	33641	30994	28805	26296	25183	24797	24055	21984	21494
Winneshiek	57315	53120	48898	44748	41772	38492	36663	35806	34176	31945	31491
Woodbury	351929	336434	312288	285757	262221	242454	228873	223261	213529	200661	196425
Worth	28252	26638	24629	22317	20776	19160	18683	18502	18015	16586	15967
Wright	53148	50517	46447	42546	39661	37204	36163	35694	34722	32053	30836
State of Iowa	9013038	8494928	7834638	7170466	6628431	6089644	5792652	5665955	5481272	5103309	5051566

Table 13. Adjusted Transfer Payments (1993 dollars in \$1,000) in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	27754	26843	25090	24358	23422	22618	22404	23205	23081	22589	22339
Adams	17163	16436	15660	15320	14971	14736	15504	15738	14720	14182	13696
Allamakee	45272	43713	40475	39198	38023	36588	36875	37449	37027	34547	34745
Appanoose	59223	57713	55204	52889	52087	50580	50534	52013	52336	51850	53424
Audubon	25666	24747	23352	22727	22110	20779	20437	20679	20425	19836	19697
Benton	66003	64736	62130	58554	56538	54282	54947	56060	55108	54146	55671
Black Hawk	416075	401488	382676	362648	355429	342503	343390	357347	354134	341725	360780
Boone	125245	119846	117349	112141	108876	109480	102606	93715	86580	77351	72979
Bremer	63243	61037	58643	55164	54348	53115	54672	56101	54538	52121	53633
Buchanan	62706	60933	58959	55165	54550	52746	54890	55012	53954	50964	52498
Buena Vista	62933	61337	58150	55689	55101	54267	53761	54835	53098	51497	52030
Butler	55985	54688	50756	47424	45936	43870	44731	45319	43404	42803	43474
Calhoun	46674	45155	43352	41412	39027	37885	37381	37708	37315	35754	35801
Carroll	71047	67884	64190	61459	59730	56430	55271	55682	53876	52514	51974
Cass	57374	56002	52939	50085	48439	46036	45273	46111	45874	45355	44902
Cedar	48470	48197	44612	42604	41371	39708	40029	40505	39794	38303	38445
Cerro Gordo	166649	162307	154415	146262	140883	135680	135824	137217	132297	125413	129447
Cherokee	48455	45973	44342	43320	42586	40814	41732	41545	39595	37600	37424
Chickasaw	41426	40261	38305	35979	35280	34304	34304	35531	35409	33856	35182
Clarke	28951	27683	25892	24247	23645	22887	22556	22853	22610	22109	22484
Clay	55626	54006	51015	48727	47035	45586	46008	46775	45394	43085	43240
Clayton	62655	61253	58121	55171	53685	51649	50490	50955	51054	49158	50078
Clinton	179529	174963	168150	159130	153946	147185	143612	147047	146295	143941	149797
Crawford	57298	55291	52260	49638	47622	45109	43000	43408	42007	42732	42428
Dallas	94074	91062	85473	81475	81094	76651	75434	77312	75750	74470	75249
Davis	28464	27583	25939	25094	24735	23866	24126	24530	23874	23171	23587
Decatur	33368	32329	29517	28511	27570	26922	25604	25784	25794	25582	25828
Delaware	46293	44737	42277	39944	39141	37451	37821	38606	38421	36849	37819
Des Moines	145386	142349	135837	130532	126978	123552	123871	126776	125785	119377	126331
Dickinson	52584	50568	48364	45426	44185	42485	42682	43264	42413	40780	40543
Dubuque	266145	257049	242902	231461	226496	217859	209580	213762	211214	213166	226314
Emmet	44824	43112	40579	38230	37540	35758	35162	35737	35206	34508	36249
Fayette	77602	75176	71630	67428	65701	62964	61601	63347	64127	62776	64071
Floyd	63293	61386	57509	54703	52899	51080	50826	52188	52137	50431	53195
Franklin	38204	37965	35623	33368	32144	31221	32049	32107	31020	29730	30149
Fremont	33192	32006	30221	28815	28543	27435	26641	26830	25880	25655	25435
Greene	37936	36667	34957	33833	33447	32210	31093	32065	32359	31469	31707
Grundy	37496	37141	35687	33837	33272	32077	32039	32683	32920	31875	31730
Guthrie	43045	41389	38844	37187	36606	35114	34790	35308	34676	34014	33361
Hamilton	56702	55859	51945	50004	48137	45928	44636	45376	45386	44428	44799
Hancock	38350	37685	35094	33739	32028	30546	31162	31805	30576	28979	29343
Hardin	75019	72121	68680	65072	63255	61253	61054	60945	58228	57964	57454
Harrison	58894	57635	54062	50022	49433	46422	44987	45205	45305	44620	44378
Henry	58273	56185	54269	51702	50232	49156	47784	48764	48398	46073	47538
Howard	35981	34920	32735	30715	29663	27870	26582	27340	27433	27257	27358
Humboldt	40060	37980	36305	34542	33152	31492	30770	31170	30956	30294	29989
Ida	27162	26472	25310	23814	23556	22608	22766	22644	21603	20387	19979
Iowa	43678	42301	40087	38196	36912	36049	36187	36804	36256	33578	34001
Jackson	68648	68058	63021	59370	58220	56546	53587	54522	55375	55542	57698
Jasper	112381	108595	102031	96655	93812	90309	90100	91723	89378	87029	87737

Table 13. Adjusted Transfer Payments (1993 dollars in \$1,000) in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	44818	43340	41059	39831	38805	37594	38336	38813	37256	36034	38141
Johnson	173810	168403	159948	151405	146650	140521	139816	137801	132614	121554	124117
Jones	53964	52165	48823	47055	46562	44441	44374	45186	44618	43435	44445
Keokuk	44799	43931	41385	39544	38775	37854	37722	38499	37343	36329	36361
Kossuth	59311	57013	54738	52130	50804	48690	48301	49384	49050	47448	47589
Lee	135438	133045	125908	118646	118696	113984	114944	117821	115426	112182	118643
Linn	471178	458631	434431	414980	399086	384522	388467	396634	383367	366884	385458
Louisa	34079	32780	31934	29860	28891	28307	28003	28640	28029	27012	28119
Lucas	36994	35866	34298	32748	32078	31461	29968	30838	32398	31366	31270
Lyon	33146	31975	30638	29578	28553	27317	27521	28073	27069	26017	25428
Madison	42163	40713	38539	36696	35873	34486	32990	33236	32839	32358	32094
Mahaska	70544	68843	65021	62047	60691	58910	58336	59699	59594	56994	58327
Marion	100169	96627	92725	88214	85822	82881	80278	80823	79060	78234	78878
Marshall	125662	120133	115821	111256	109030	105925	109253	111092	109050	104029	109105
Mills	90311	91484	87516	84511	79831	80910	74191	61976	52258	41667	32905
Mitchell	36193	34435	32610	31362	30833	30024	31009	31336	30916	29635	30411
Monona	44978	43264	41059	38793	37342	35567	34293	34407	34600	34373	34245
Monroe	34766	33996	32550	31101	30834	30166	28843	29901	29867	29479	30559
Montgomery	50109	48135	45061	43133	41935	40096	40093	40605	40268	39356	39390
Muscatine	114831	113240	108099	102021	99921	95117	93434	96788	96057	91696	96514
O'Brien	53404	50131	49275	46834	45057	43322	44028	44352	41895	41366	40758
Osceola	23286	22600	20944	19981	19891	19141	18799	19576	19013	18601	18334
Page	65735	64201	61219	58570	57455	55411	54730	55453	54738	52986	53650
Palo Alto	40922	38945	37588	35377	34189	32718	32120	32924	32734	32012	32018
Plymouth	66915	64722	61135	58198	56627	54145	54307	54552	53887	51176	50818
Pocahontas	33661	33023	31143	29736	29009	28156	28819	29216	28357	27512	27714
Polk	1010624	978034	920325	877480	851930	815294	798774	812819	805197	769596	799405
Pottawattamie	284063	277856	260396	252227	241643	232349	229745	235185	237131	226083	228121
Poweshiek	56785	55201	51671	49584	48600	46617	46186	47024	45324	44376	45292
Ringgold	21229	20874	19510	18553	18032	17289	17176	16949	17005	16177	16046
Sac	45135	43358	41858	39934	39088	37674	36343	37101	36421	35779	36020
Scott	494945	473272	446924	427159	413227	398202	385981	391459	384782	373920	393171
Shelby	43082	41809	39481	37579	36254	34848	35967	35906	34363	33772	32620
Sioux	78483	75553	71205	67294	65501	62439	62900	63178	61057	58928	57603
Story	166301	159819	155494	147116	143591	138211	138122	135815	131687	121435	123356
Tama	59554	57989	54614	51379	50010	48420	49167	49899	49418	46641	46421
Taylor	27532	26677	25550	24596	23983	23115	23403	23869	23591	23000	23031
Union	49291	47460	45730	44200	43389	41795	40737	41547	41740	41235	41673
Van Buren	26968	26077	24816	23896	24235	22891	22410	23010	23145	22121	23075
Wapello	150387	148857	141160	133366	132346	127906	126777	131374	128992	126239	130475
Warren	89654	85941	81330	77124	74407	72061	69557	69678	68926	65389	67057
Washington	63102	60891	58424	55525	52846	50436	50057	50781	49073	46552	47172
Wayne	32484	31454	29115	28421	28050	26439	24941	25605	25984	27351	27009
Webster	154317	148872	141593	135401	131260	126205	123250	125450	121769	120825	123522
Winnebago	38796	37030	35599	34134	33378	31951	31797	32457	31946	30239	30575
Winneshiek	57315	54650	51744	49282	48403	46770	46292	46866	45386	43941	44795
Woodbury	351929	346126	330463	314710	303848	294598	288981	292226	283571	276012	279410
Worth	28252	27405	26062	24578	24074	23281	23590	24217	23924	22814	22713
Wright	53148	51972	49150	46857	45957	45205	45660	46720	46112	44089	43863
State of Iowa	9013038	8739638	8290622	7896989	7680685	7399324	7313955	7416171	7279246	7019682	7185727

Table 14. Percentage of Total Personal Income from Transfer Payments in Iowa Counties, 1983-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	22.2	19.4	19.0	17.4	16.6	17.7	16.7	16.5	18.0	18.3	20.2
Adams	26.2	22.5	21.8	19.9	19.4	21.3	19.2	19.6	20.4	20.8	19.9
Allamakee	21.7	20.2	19.9	17.9	17.8	18.5	17.2	18.0	18.8	17.0	20.9
Appanoose	29.0	27.9	27.5	26.2	26.1	26.2	25.9	27.2	28.8	28.0	28.5
Audubon	22.9	19.7	18.6	17.9	17.0	17.8	15.9	17.3	17.0	17.5	21.0
Benton	17.3	16.8	16.8	15.4	14.8	15.5	14.7	14.8	15.7	14.9	16.6
Black Hawk	18.6	18.1	17.8	16.7	16.7	16.6	16.9	17.8	17.1	15.8	16.4
Boone	26.2	24.6	25.1	23.9	22.8	24.4	22.4	20.9	20.2	18.3	17.3
Bremer	16.0	15.0	15.3	14.2	14.4	14.8	15.0	15.4	14.7	13.7	15.0
Buchanan	19.3	17.8	17.5	16.1	16.5	17.2	16.8	18.2	17.7	16.2	19.1
Buena Vista	19.4	18.0	17.3	16.2	15.8	16.3	16.0	15.7	15.6	15.9	17.0
Butler	23.1	21.0	20.1	18.4	19.4	18.7	17.5	17.9	16.6	16.3	18.9
Calhoun	25.9	21.7	23.2	21.5	19.2	19.3	18.9	18.6	18.7	18.0	18.0
Carroll	18.7	16.9	16.6	15.8	15.4	14.7	14.0	14.5	14.3	13.7	14.4
Cass	23.5	21.1	20.5	19.2	18.0	18.5	17.3	17.4	17.4	16.9	17.6
Cedar	15.6	15.0	14.3	13.2	12.9	13.3	12.9	13.6	13.2	12.1	14.0
Cerro Gordo	19.8	19.0	18.3	17.0	17.1	16.4	16.2	16.5	16.2	15.3	16.3
Cherokee	21.6	19.0	18.0	17.2	17.3	16.6	17.0	17.1	16.7	15.9	17.2
Chickasaw	19.3	17.6	17.2	15.8	15.7	15.9	14.9	15.8	16.0	14.9	17.6
Clarke	25.1	22.8	21.9	19.4	19.0	19.6	18.6	19.3	20.1	20.8	21.0
Clay	18.5	17.0	16.8	15.2	14.7	14.7	15.0	15.2	15.3	15.0	15.5
Clayton	22.4	20.1	20.1	17.6	17.7	18.6	16.6	17.2	18.2	16.8	22.9
Clinton	20.0	19.2	19.2	17.9	17.5	17.4	16.8	17.4	17.2	16.4	18.0
Crawford	21.1	19.0	18.9	17.9	17.6	16.7	15.7	15.8	16.1	15.8	17.5
Dallas	15.0	14.6	14.5	14.0	14.1	14.1	13.9	14.6	14.9	14.4	14.8
Davis	23.4	22.5	22.0	20.2	21.7	22.0	21.1	21.3	21.5	20.4	22.0
Decatur	32.5	30.2	27.9	25.6	24.2	26.3	22.9	23.2	23.9	25.0	27.3
Delaware	16.9	15.0	14.4	12.5	13.2	13.6	12.4	13.5	14.4	13.4	17.9
Des Moines	18.5	18.1	17.7	16.7	16.7	16.5	16.4	16.7	16.8	15.7	17.4
Dickinson	17.5	16.4	16.5	15.1	15.0	15.4	15.7	16.2	16.7	15.2	16.6
Dubuque	16.3	15.8	15.6	14.7	14.8	14.5	13.9	14.7	14.7	14.8	16.8
Emmet	24.9	22.5	22.5	20.1	20.1	19.8	18.9	18.7	18.4	18.3	19.9
Fayette	24.4	22.2	21.4	19.4	19.4	20.2	18.1	19.2	19.4	18.0	21.0
Floyd	22.9	21.1	20.1	18.3	18.8	18.5	17.5	18.1	18.4	17.1	19.7
Franklin	22.5	19.1	19.5	16.8	16.5	16.6	15.7	15.1	15.7	15.1	17.2
Fremont	27.5	22.8	22.7	21.6	21.1	20.0	19.5	17.7	17.7	19.0	17.0
Greene	23.8	20.0	20.9	20.3	18.5	19.4	16.9	17.0	18.2	17.8	16.9
Grundy	17.2	15.8	16.0	14.9	15.5	15.1	14.0	14.4	14.6	13.7	14.0
Guthrie	23.5	21.3	20.5	19.3	19.0	20.1	18.7	19.6	19.6	19.7	21.7
Hamilton	20.3	18.3	17.3	16.8	15.0	16.7	14.8	14.7	15.2	15.2	15.1
Hancock	21.4	18.6	18.6	16.0	16.0	15.1	15.1	14.3	13.8	13.2	14.2
Hardin	23.8	21.5	21.1	19.2	19.4	19.5	17.5	16.9	16.5	16.5	17.1
Harrison	26.1	23.8	24.0	22.0	22.3	21.2	20.1	19.6	19.1	19.8	20.9
Henry	17.4	16.8	16.7	15.7	16.0	16.0	15.4	15.9	16.4	16.0	17.7
Howard	24.2	22.1	21.2	19.1	18.8	19.6	16.5	16.9	18.2	16.5	20.1
Humboldt	23.2	20.0	21.0	18.6	16.7	17.6	16.7	16.7	17.3	16.2	16.9
Ida	20.5	18.4	18.3	16.2	15.9	15.6	15.6	16.0	15.3	14.5	18.6
Iowa	15.4	14.4	14.9	14.3	14.1	14.7	13.6	14.7	14.2	12.7	15.7
Jackson	21.4	20.7	20.2	18.4	18.4	18.7	16.9	18.0	18.3	17.6	21.1
Jasper	17.6	16.6	16.2	14.9	14.6	14.5	14.0	14.5	14.5	13.9	14.8

Table 14. Percentage of Total Personal Income from Transfer Payments in Iowa Counties, 1983-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	17.0	15.9	15.6	14.5	14.5	14.8	14.5	14.9	15.4	15.0	18.6
Johnson	9.0	8.9	8.7	8.3	8.3	8.5	8.7	8.7	8.8	8.2	8.8
Jones	19.4	18.1	17.5	15.8	16.0	16.4	15.7	16.5	16.4	15.4	18.5
Keokuk	24.8	23.1	22.0	20.1	19.7	21.2	17.9	19.3	18.9	18.3	20.5
Kossuth	22.0	18.1	19.3	16.4	15.2	15.1	14.7	14.3	15.1	14.5	15.2
Lee	20.7	19.9	19.2	18.1	18.3	17.9	17.9	17.6	17.3	16.6	18.3
Linn	12.8	12.6	12.4	11.8	11.5	11.5	11.9	12.5	12.5	12.2	13.1
Louisa	17.8	16.6	17.1	15.0	15.1	15.6	14.8	15.3	15.6	14.6	17.4
Lucas	25.2	23.7	23.4	21.6	21.0	21.0	19.8	20.3	22.3	21.5	22.0
Lyon	19.6	17.3	16.5	15.8	14.9	15.9	14.7	14.9	14.3	13.7	15.1
Madison	19.5	18.3	18.1	16.8	16.7	17.1	16.2	16.6	17.1	17.3	18.3
Mahaska	20.1	19.3	18.6	17.2	17.2	17.6	16.3	16.7	17.3	16.9	18.7
Marion	17.8	17.3	17.2	16.1	15.9	15.7	14.9	15.6	15.9	15.7	16.1
Marshall	17.6	16.5	16.0	15.3	15.0	15.6	15.5	15.6	15.4	14.5	15.4
Mills	34.4	32.7	32.2	31.3	30.3	30.6	28.7	24.7	22.4	19.2	16.2
Mitchell	19.3	16.9	16.3	14.9	15.2	16.1	14.7	15.1	15.9	15.0	17.9
Monona	29.6	26.1	26.8	23.9	22.7	23.2	22.1	21.1	21.4	21.6	23.0
Monroe	25.2	24.3	23.9	22.8	23.6	23.4	22.4	24.6	24.4	24.1	26.4
Montgomery	24.9	22.8	21.7	20.6	19.6	19.9	19.7	19.4	19.8	19.2	19.8
Muscatine	13.9	13.8	13.9	13.1	13.2	12.8	12.6	13.0	13.0	12.3	13.6
O'Brien	21.5	18.6	18.0	16.8	16.2	15.5	15.8	15.8	15.4	15.3	16.0
Osceola	23.3	19.4	17.8	16.7	16.7	16.5	16.0	16.9	17.4	16.4	17.3
Page	22.4	21.1	20.8	19.7	19.3	20.0	18.9	18.5	19.5	19.8	20.0
Palo Alto	26.2	22.1	23.5	19.9	19.5	19.0	17.4	17.4	17.2	18.6	19.1
Plymouth	16.3	15.0	14.5	13.7	13.7	14.6	13.4	14.2	14.1	13.7	16.0
Pocahontas	24.9	20.2	20.4	18.7	17.0	17.6	17.5	15.8	15.3	17.3	18.3
Polk	12.8	12.6	12.4	11.9	11.9	11.8	12.2	12.6	12.9	12.5	13.3
Pottawattamie	20.1	19.5	18.9	18.3	17.9	17.1	16.8	16.9	17.2	16.4	17.2
Poweshiek	17.0	16.1	15.4	14.5	14.3	14.5	13.7	14.4	15.0	14.3	15.9
Ringgold	29.5	25.8	25.7	23.1	21.4	23.3	21.0	20.7	23.5	23.7	23.0
Sac	23.8	20.9	21.3	19.4	18.8	18.7	17.7	16.8	18.0	17.3	19.1
Scott	16.0	15.4	15.0	14.2	14.2	14.1	13.7	13.9	13.7	13.2	14.3
Shelby	20.8	18.7	17.7	16.5	16.0	16.2	16.0	16.5	15.0	14.9	16.8
Sioux	16.4	15.3	14.8	14.0	13.7	14.0	13.4	13.6	12.8	12.3	14.1
Story	12.4	12.0	12.2	11.7	11.4	11.5	11.5	11.4	11.4	10.8	11.5
Tama	21.1	20.2	19.3	17.2	17.1	16.7	16.0	16.3	16.5	15.5	17.1
Taylor	31.1	27.3	26.7	25.4	24.9	25.5	22.2	21.9	22.2	24.2	23.8
Union	25.3	23.5	23.2	21.7	21.5	21.3	20.5	20.8	21.2	21.2	21.4
Van Buren	25.9	23.6	23.7	22.1	23.1	23.2	21.0	21.9	22.6	22.0	24.5
Wapello	25.1	24.8	23.9	22.5	22.7	23.0	22.7	23.3	22.5	21.6	22.9
Warren	13.3	12.9	12.7	12.2	12.1	12.1	12.0	12.3	12.4	11.9	12.7
Washington	18.0	17.0	16.5	15.3	15.3	15.7	14.4	14.7	14.0	12.8	14.3
Wayne	33.3	30.2	28.9	26.8	26.2	26.0	22.3	22.7	24.4	26.2	26.8
Webster	22.2	20.8	20.4	19.9	19.0	19.3	18.5	18.2	18.4	17.9	17.8
Winnebago	19.0	16.9	17.5	15.3	14.8	13.7	13.8	14.1	14.4	13.2	15.5
Winneshiek	16.8	15.5	15.3	13.9	14.4	15.2	14.1	14.8	15.3	14.3	18.6
Woodbury	18.0	17.8	18.4	17.7	17.4	17.1	16.9	17.5	17.2	16.9	17.3
Worth	24.2	21.6	21.0	17.9	18.1	17.6	16.8	17.2	17.2	15.9	18.8
Wright	24.4	21.3	21.3	19.2	17.2	18.2	17.9	17.6	17.6	15.5	16.4
State of Iowa	17.5	16.7	16.4	15.5	15.3	15.3	15.0	15.4	15.4	14.8	16.0

nonfarm earnings increased each year from 1983 to 1993; the gain was 70.9 percent during this period. All counties reported increases as well. Nonfarm earnings tend to follow the distribution of population; counties with greater numbers of residents generally have higher nonfarm earnings. Polk's nonfarm earnings of \$5.8 billion is more than twice that of Linn's \$2.6 billion; Black Hawk, Dubuque, Johnson, Scott, and Woodbury also reported earnings in this category of at least \$1 billion in 1993. Adams, Ringgold, Taylor, and Wayne are the only counties with nonfarm earnings of less than \$50 million in 1993, although another 26 were under \$100 million that year.

Although the state had an inflation-adjusted increase in nonfarm earnings of \$5.5 billion (20.1%) from 1983 to 1993, nine counties had lower nonfarm earnings in the later year after inflation is factored into the calculations (Table 4). Seven of the nine experienced declines of at least \$1 million, although Wright's decrease of \$20.1 million far surpassed Cass' \$7.4 million drop, which was the second greatest decline. In the remaining 90 counties, changes in nonfarm earnings exceeded the rate of inflation. Polk's increase of \$1.6 billion was followed by a \$627 million gain in Linn. Seven others reported at least \$100 million more in adjusted nonfarm earnings in 1993 than in 1983. Inflation-adjusted changes in nonfarm earnings across counties range from a decline of 15.4 percent in Wright to a gain of 40.5 percent in Iowa when 1983 and 1993 are compared.

In 1983, nonfarm earnings accounted for 61.3 percent of total personal income in Iowa. This percentage changed little between that year and 1993, when the figure was 64.2 percent (Table 5). Substantial differences occurred in counties, however. In 1993, for example, more than 70 percent of total income was derived from nonfarm earnings in Johnson, Linn, Polk, Story, and Warren counties, while this source of income accounted for less than 50 percent of the total in Calhoun, Greene, Keokuk, Sac, Taylor, and Wayne.

### **Farm Earnings**

Iowa's farm earnings totaled \$383 million in 1993, which was far lower than 10 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 \$668 million between 1990 and 1991, they rebounded by \$394 million between 1991 and 1992 only to decline again by nearly \$1.6 billion between 1992 and 1993, a year when flooding greatly affected farms.

Farm earnings were negative in 33 counties in 1993. Only in Kossuth was that negative figure greater than \$3 million. In the 66 counties with positive numbers, earnings ranged from less than \$5 million in 31 to more than \$10 million in 18 others.

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 1983 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; that string was broken in 1993. Inflation-adjusted farm earnings (Table 7) still show significant year-to-year variations. The adjusted figure was highest in 1987 (\$2.8 billion); it was about \$2.5 billion in 1989 and 1990.

Farm earnings constituted a relatively small percentage of Iowa's total personal income in the 1983-1993 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 1993, farm earnings accounted for less than 1 percent of total income in the state. Earnings from farms were at least 5.0 percent of total income in only six counties that year; in 1990-1992, at least 20 counties had 10 percent or more of personal income from farming.

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

Income from dividends, interest, and rent increased from 1983 to 1986, declined from 1986 to 1988, gained again from 1988 to 1990, decreased slightly from 1990 to 1991, and then increased slightly to 1993's figure of \$9.1 billion (Table 9). Over the period, income from this source increased by \$1.7

billion. In 1993, 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 1993 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 17.6 percent in 1993.

Again, differences occur across counties. Dividends, interest, and rent accounted for at least 25.0 percent of total personal income in nine counties. In another seven, less than 15.0 percent of total income came from dividends, interest, and rent in 1993.

### **Transfer Payments**

The final category of income includes transfer payments, which increased annually from \$5.1 billion in 1983 to \$9.0 billion 10 years later (Table 12). Twenty counties listed at least \$100 million in transfer payments in 1993, although only Polk (\$1.0 billion) reported a total greater than \$500 million. Adams (\$17 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 25.4 percent from 1983 to 1993, with annual gains occurring from 1987 to 1993. 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 1983-1993 period, increased to 17.5 percent in 1993; this nearly equaled the percentage of 17.6 from dividends, interest, and rent that year.

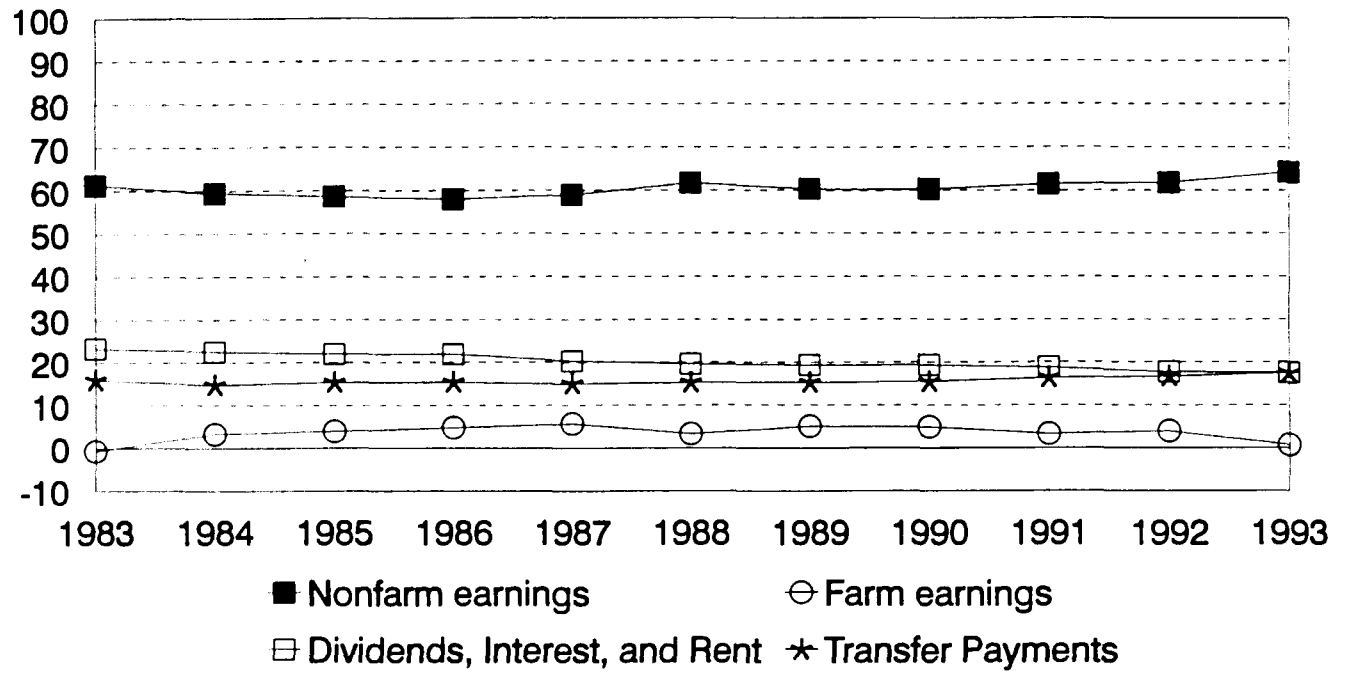
Only in Johnson (9.0%) did less than 12 percent of total personal income come from transfer payments in 1993. Decatur, Mills, Taylor, and Wayne were the only counties with more than 30 percent of income generated by this source. Caution is urged in interpreting these and all numbers and percentages in this report, of course; the location of a state institution in Mills could have influenced these results, for example.

### **Concluding Comments**

In 1993, 64.2 percent of total personal income came from nonfarm earnings; 0.7 percent from farm earnings; 17.6 percent from dividends, interest, and rent; and 17.5 percent from transfer payments (Figure 1). The percentages for 1983 were 61.3, -0.6, 23.3, and 16.0, 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.



Figure 1. Percent of income from selected sources, 1983-1993.



## Sales Subject to Sales Tax in Iowa's Counties:

### 1980-1994

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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 1994, this figure had increased to more than \$24 billion. Increases of more than \$1 billion from 1988 to 1989, from 1989 to 1990, from 1992 to 1993, and from 1993 to 1994 were the largest reported between 1980 and 1994. A minor decrease occurred between 1980 and 1981.

Sales varied greatly among Iowa's counties. In 1994, for example, Polk had sales subject to tax of \$5.4 billion, which was more than a fifth (22.0%) of all dollars subject to sales tax in the state. Four other counties (Black Hawk, Linn, Scott, Woodbury) reported at least a billion dollars in sales. Nearly half (47.3%) of all sales in the state were generated in these five counties in 1994. Sales were less than \$50 million in 24 counties; six of these (Adams, Ringgold, Taylor, Van Buren, Wayne, Worth) had receipts from sales of less than \$25 million in 1994.

When 1984 and 1994 are compared, 82 counties had sales that were greater at the end of the period than the beginning (Figure 2). The greatest increase was in Polk (+\$2.5 billion); Linn's \$971 million gain was the second highest. Another 12 counties reported at least \$100 million more in sales in 1994 than in 1984. Of the 17 counties that declined in sales, 14 dropped by less than \$5 million when 1984 and 1994 are compared. Calhoun, Kossuth, and Pocahontas declined by \$6.3 million to \$9.4 million during this period.

Three counties in which sales subject to sales tax increased by at least 80 percent from 1984 to 1994 deserve special mention. Iowa County began the period at \$89 million; it was \$85 million higher by 1994, with much of the increase due to a major shopping center constructed near an interstate highway. Sales in Polk increased by \$2.5 billion over this period; they were \$2.9 billion in 1984. And Dickinson gained \$77 million by 1994 from its base of \$93 million in 1984; this is related to its status as a recreational center.

When adjusted for inflation, sales subject to sales tax varied in a relatively narrow band in the years from 1984 to 1994, with the highest figure (\$24.4 billion in 1994) about \$1.8 billion above the lowest one (\$22.5 billion in 1986) (Table 2). Sales in 1994, however, would have to have been \$2.1 billion higher to equal the adjusted sales of 1980. In only 21 counties did adjusted sales increase in the period between 1984 and 1994, which suggests that sales did not keep pace with inflation in more than three-quarters of the state's counties (Figure 3).

Table 1. Sales (in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	47085	44794	44158	41630	40683	40798	41626	42847	43041	42748	44944	48603	47299	45732	46122
Adams	22261	21142	20202	19390	19600	19780	20205	20149	18471	19139	20044	22426	21147	19710	20544
Allamakee	80958	79335	76400	76268	68683	68593	70415	68834	65866	66158	66812	67298	67098	61841	61787
Appanoose	83133	84566	79520	71767	66834	68339	66703	71046	64235	62429	63322	64160	62947	65866	65428
Audubon	33009	33361	33898	32634	28740	28482	29768	28980	30633	33449	34900	37079	33906	33939	38407
Benton	99719	95356	92304	90474	85157	83217	82078	80411	76461	83023	84497	87937	86707	87513	89725
Black Hawk	1199518	1159371	1099887	1063237	1005436	940556	854311	817100	791059	822513	811969	790325	807585	789589	772710
Boone	145523	140752	136507	132792	127000	117378	112314	106344	106351	108035	108428	103032	95100	98033	101264
Bremer	134048	126414	124219	120756	113444	109543	107662	103908	98188	104160	107199	108042	110078	108326	105713
Buchanan	107471	103393	98632	93557	92402	86499	84045	79745	76597	81744	81323	86940	80862	77594	81309
Buena Vista	150104	146352	142910	142795	133518	131636	131353	135676	121581	130724	135402	130199	123003	122209	127355
Butler	57534	57101	54690	53557	51979	53334	54099	54114	55383	56147	59521	63417	62111	58905	61055
Calhoun	46734	45074	42033	42986	46649	62068	72101	56649	47478	49059	53035	56397	55578	56799	59779
Carroll	196771	182835	171669	165652	160253	155566	151356	146098	133510	138373	145997	145810	135468	131918	138155
Cass	101806	99442	99613	97058	93991	92502	91466	91176	90453	99347	99477	100620	95004	97155	96427
Cedar	72715	71584	66862	64865	62519	62293	61762	66642	61449	64041	65441	75801	71742	71293	72972
Cerro Gordo	501078	474966	457949	450533	430451	410350	383790	374668	350064	346906	334994	324798	303631	292656	286525
Cherokee	88924	84406	82744	81155	76089	78368	75565	75319	75924	78129	81172	84826	77383	77344	79824
Chickasaw	66468	63453	61055	57772	55368	56659	57575	62371	55401	59103	61607	64650	65488	63330	67894
Clarke	47843	49833	50298	48344	45941	44588	43367	41534	40363	38561	39612	38831	41525	42492	40470
Clay	164434	152634	146960	146136	141888	138520	129794	128404	119482	130165	136207	136110	136788	137205	136717
Clayton	81083	78309	78141	73662	70078	70007	73354	72332	67995	72654	78598	81423	80203	80647	87199
Clinton	359805	351560	340329	333187	319160	316064	296565	282351	279952	275889	277727	274440	275239	269954	260690
Crawford	99678	97598	95067	88688	84819	83143	83294	83713	79601	81903	82604	83005	77920	78913	80950
Dallas	139815	133466	129483	127506	119478	115311	110024	111437	111967	123929	125069	120607	119091	117625	116938
Davis	34904	34490	33915	33206	30791	31157	30452	30529	30395	28688	28422	29812	30876	29798	29333
Decatur	33149	26239	26259	25956	24149	24668	24262	24037	24583	24871	25147	25550	26367	25971	24699
Delaware	95003	90454	89378	85243	74415	72518	80114	73093	70176	73033	73519	76392	73610	72574	75055
Des Moines	421306	394399	385059	361824	340744	335287	317488	298971	284125	276396	266705	267579	260038	254610	252944
Dickinson	169777	168501	153482	148070	136452	120573	110234	101287	92539	94166	92911	86185	81572	79391	81664
Dubuque	818488	788170	745005	703878	668050	635491	612932	575734	551085	538324	528239	507296	499035	497984	496155
Emmet	82752	79685	76437	74725	73993	71815	67935	69253	61522	61893	67385	64646	67868	69271	67281
Fayette	128311	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	96646	98589	95646	90844	89561	88823	84161	82582	79681	86301	88630	88137	88986	83998	85736
Franklin	56413	54793	56306	53104	50283	54094	56102	62215	52931	57200	57593	67425	66187	67370	68697
Fremont	44834	42349	36287	30904	30549	31573	31947	33648	32322	35844	34468	34197	32951	30393	28359
Greene	63833	61487	56691	52327	52089	51318	50701	51754	50322	53954	57158	57829	54525	56523	59423
Grundy	50052	48782	46818	44610	41951	43334	46217	49093	46656	52791	53636	58373	57640	55654	56226
Guthrie	50852	47796	48638	46637	45106	44591	41138	40133	39004	41808	43702	44011	41238	40488	43751
Hamilton	94948	92022	90087	93027	88007	86618	84391	81930	79727	83581	85720	87310	84114	83164	87868
Hancock	56937	55084	53407	53380	52951	55864	55545	56306	54241	57127	60703	62488	59728	60842	65778
Hardin	134712	127418	125287	121269	114617	113661	116399	114209	115277	120061	125928	126560	123838	124053	128964
Harrison	56663	60525	57011	53677	51358	50229	50925	56228	53227	54147	57513	57228	53888	57502	58310
Henry	120015	136446	132010	126527	117024	116959	112340	110256	98335	96785	93046	94097	87927	87928	89433
Howard	53338	52079	49973	47472	43960	43774	46009	49438	45171	44870	48219	50810	50358	47783	49418
Humboldt	63376	62787	60039	59530	60935	59778	59135	56735	54634	58218	60688	61498	62531	60815	62396
Ida	47653	44822	45335	43658	45565	45270	46455	45619	43352	45025	47134	47047	41097	39781	42423
Iowa	174072	160638	151840	112269	101882	97437	92812	91992	86416	88467	88903	86181	84776	85495	83459
Jackson	103107	100184	96596	94149	85880	84868	83579	84608	83105	83106	84821	84828	82866	82175	82451
Jasper	205045	219770	227739	224584	211708	189793	188372	182496	180102	184622	180871	170856	164412	162003	167233
Jefferson	111587	106444	98528	95047	94566	100221	94971	89634	84911	82374	77579	74412	72195	71759	71203
Johnson	888226	825557	774419	738389	705148	656467	597298	578282	528083	518157	497889	459339	415822	387711	366750
Jones	123460	116655	112303	112409	105949	108813	102412	100147	91482	92454	89342	89620	88015	84458	91639
Keokuk	36883	38334	37380	36145	35445	35652	37943	39859	39294	40714	40782	45875	45873	45019	48967
Kossuth	112712	109526	105949	104626	103791	98556	99967	108226	106751	113328	121174	123847	127761	121319	128373
Lee	300336	284046	274242	263718	251736	245632	239793	241840	229971	230595	222663	223988	218822	215502	209094
Linn	2217771	2031936	1907676	1834635	1737351	1631777	1516450	1439992	1361418	1334752	1246837	1169591	1132107	1106281	1109708
Louisa	30338	31488	30483	29605	29806	30783	29888	31010	33557	33083	32968	36593	35565	36072	34548
Lucas	38177	62960	62463	62313	55286	59295	56229	50918	38541	39960	39997	39632	41618	40424	39551
Lyon	49347	47457	46263	44680	40657	40654	40907	41952	37061	39205	41662	44469	41085	42977	48149
Madison	56897	56209	52047	49925	46773	42930	41419	39102	34230	34359	36101	38461	37487	38359	39185
Mahaska	164390	160278	155131	145140	133378	130331	130564	128008	123531	123501	118403	119015	111827	111709	117659
Marion	184628	172626	165384	161591	156081	153508	148284	141318	135236	131088	126509	122319	119283	114955	118698
Marshall	350465	313405	301437	297446	280758	268442	251609	234886	234918	240047	232617	227858	218573	216640	210844
Mills	39670	42245	42767	42203	40956	39596	39210	41294	39201	39816	40204	40748	38588	37664	37416
Mitchell	56292	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	48161	48763	45525	45416	44440	45389	44972	47540	46697	45692	50602	50872	49872	51069	56761
Monroe	39615	38608	34915	36810	35468	33854	32752	32884	32103	31983	32531	30907	31496	30683	31009
Montgomery	95943	93309	87408	87705	86810	85279	79231	73427	68593	71589	72701	67219	67734	67604	67045
Muscatine	314481	302688	283404	272409	261989	249746	233345	220120	220037	230943	225050	216307	212491	197822	186131
O'Brien	92254	89599	86581	86453	86120	88484	90297	85916	75044	77701	81619	83799	80234	77940	83884
Osceola	32206	32215	30862	30326	30639	28905	28885	28410	27739	29411	33807	34031	32469	33167	35583
Page	99411	94002	91498	92622	91696	93088	90483	92594	89286	93216	94414	94741	92808	95825	100857
Palo Alto	48943	43950	42558	42691	41576	41056	40860	43389	41834	43766	48570	51476	49188	49792	51980
Plymouth	135414	131779	127175	119529	112889	109781	107755	105145	97563	99411	99433	97457	92418	91142	96470
Pocahontas	39484	38671	39297	37076	36087	36309	37130	36999	40681	47066	48838	51013	48543	49264	51667
Polk	5360643	5007727	4720949	4502306	4358547	4111700	3765168	3513382	3254482	3070912	2906398	2608614	2466204	2376725	2370263
Pottawattamie	592235	559849	539073	521820	516367	498007	471803	444704	407113	413236	404873	384239	355209	350131	331083
Poweshiek	127026	171640	172050	165222	151782	149521	128647	124048	117415	116584	111770	109707	102023	91512	91625
Ringgold	21556	21870	22082	21318	20106	20100	19984	20260	19745	19047	19758	21107	22428	21279	23230
Sac	55836	53600	55204	53239	50086	49432	48747	49668	47783	52836	55206	61277	57532	59094	65781
Scott	1716910	1638392	1616729	1497100	1481015	1294922	1252558	1188962	1164155	1155406	1078089	1019768	1009623	975293	947266
Shelby	72384	70762	67303	67623	64635	65548	64526	65588	64131	64640	67773	71355	66797	66608	69731
Sioux	195676	182904	175896	167023	151036	139978	136838	133378	125073	132152	139892	140755	134004	131772	144055
Story	578424	560705	527998	514331	478348	450646	428724	414177	396356	382423	370258	355057	335070	323558	311719
Tama	82526	78979	78062	74844	73588	72919	71343	79626	76870	75440	80291	82725	82449	81227	86014
Taylor	20798	19994	19263	18782	17669	17514	17964	19563	18824	19580	21649	23229	23800	23175	25781
Union	96527	89581	86036	85367	75755	71149	71173	70111	68371	66582	67832	68050	65517	64792	67752
Van Buren	23887	20842	21538	19147	18889	16667	16448	16265	17301	18128	17141	17923	19060	21068	22356
Wapello	305815	288355	272987	263945	247915	215842	201028	197748	201279	202055	193091	188781	179792	185458	178592
Warren	134492	125687	121462	117155	103684	98670	92747	88740	87098	86648	84468	81136	79895	76172	78876
Washington	120843	116882	114654	112964	104245	101002	105772	103420	99414	103264	101910	107640	101395	99450	103438
Wayne	23511	23318	22154	22066	21005	20549	20307	21015	21308	20856	21075	23491	25248	24556	27062
Webster	418014	398339	386136	374260	377872	317645	298096	306071	295336	304707	301798	297795	288763	290808	298213
Winnebago	66364	63060	61681	61605	60232	59411	56784	57722	55101	57501	59349	56281	54153	54685	56870
Winneshiek	135092	130892	127748	123919	116184	110092	107402	102934	91806	91095	89734	91174	89851	85230	83811
Woodbury	1033068	963271	909134	868587	847458	810994	763298	725923	695572	697824	684745	660299	632564	611872	594253
Worth	23668	22040	22137	21766	21090	21978	22302	27722	31579	24061	26370	29524	27631	30134	33565
Wright	87611	83669	81799	78197	73896	71520	72469	72790	73763	79513	86141	89211	91243	85481	87188
State of Iowa	24383700	23209561	22197620	21290549	20411068	19382175	18381662	17706087	16815459	16788670	16460399	15927770	15393059	15055781	15090180

Table 2. Adjusted Sales (1994 dollars in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	47085	45943	46580	45152	45918	48454	51838	55501	57696	58240	63391	70850	71126	72822	81058
Adams	22261	21684	21310	21030	22122	23492	25162	26100	24760	26075	28271	32691	31800	31385	36105
Allamakee	80958	81369	80591	82720	77520	81464	87690	89163	88292	90134	94234	98102	100899	98473	108589
Appanoose	83133	86734	83882	77838	75433	81163	83067	92028	86106	85053	89312	93528	94657	104882	114988
Audubon	33009	34216	35757	35395	32438	33827	37071	37539	41063	45571	49224	54051	50986	54043	67499
Benton	99719	97801	97367	98128	96114	98833	102214	104159	102495	113110	119178	128188	130386	139352	157689
Black Hawk	1199518	1189098	1160218	1153185	1134804	1117050	1063899	1058420	1060401	1120590	1145231	1152077	1214414	1257307	1358014
Boone	145523	144361	143995	144026	143341	139404	139868	137751	142562	147187	152931	150192	143008	156104	177968
Bremer	134048	129655	131033	130972	128041	130099	134075	134596	131619	141907	151197	157496	165531	172494	185787
Buchanan	107471	106044	104042	101472	104291	102730	104664	103297	102677	111368	114701	126735	121597	123557	142898
Buena Vista	150104	150105	150749	154875	150698	156337	163578	175746	162977	178098	190976	189794	184967	194600	223822
Butler	57534	58565	57690	58088	58667	63342	67371	70096	74240	76495	83951	92445	93400	93798	107302
Calhoun	46734	46230	44339	46623	52651	73715	89790	73380	63643	66838	74803	82211	83576	90444	105060
Carroll	196771	187523	181085	179666	180872	184758	188488	189246	178968	188519	205920	212551	203711	210061	242803
Cass	101806	101992	105077	105269	106085	109860	113905	118104	121251	135350	140306	146676	142863	154705	169467
Cedar	72715	73419	70530	70352	70563	73982	76914	86324	82371	87249	92300	110497	107883	113524	128246
Cerro Gordo	501078	487145	483069	488648	485836	487352	477945	485321	469255	472624	472488	473466	456588	466013	503559
Cherokee	88924	86570	87283	88021	85879	93074	94103	97563	101775	106443	114488	123653	116365	123159	140288
Chickasaw	66468	65080	64404	62659	62492	67291	71700	80791	74264	80522	86893	94242	98478	100844	119322
Clarke	47843	51111	53057	52434	51852	52955	54006	53801	54106	52535	55870	56605	62444	67662	71125
Clay	164434	156548	155021	158499	160144	164513	161636	166326	160164	177337	192111	198411	205696	218479	240276
Clayton	81083	80317	82427	79894	79095	83144	91350	93694	91146	98984	110858	118692	120606	128419	153250
Clinton	359805	360574	358997	361374	360226	375373	369321	365740	375271	375871	391717	400058	413893	429863	458155
Crawford	99678	100101	100282	96191	95733	98745	103729	108437	106704	111584	116508	120999	117173	125658	142267
Dallas	139815	136888	136585	138293	134851	136949	137016	144348	150090	168841	176402	175812	179084	187301	205515
Davis	34904	35374	35775	36015	34753	37004	37923	39545	40744	39084	40087	43458	46430	47449	51552
Decatur	33149	26912	27699	28152	27256	29297	30214	31136	32953	33884	35468	37245	39650	41355	43408
Delaware	95003	92773	94281	92454	83990	86126	99768	94680	94070	99500	103694	111359	110692	115564	131907
Des Moines	421306	404512	406180	392434	384587	398203	395377	387268	380865	376561	376171	390057	391035	405430	444541
Dickinson	169777	172822	161901	160597	154009	143198	137278	131201	124047	128292	131045	125634	122665	126419	143522
Dubuque	818488	808379	785870	763425	754007	754740	763303	745769	738720	733411	745048	739499	750429	792968	871977
Emmet	82752	81728	80630	81047	83514	85291	84601	89706	82469	84323	95042	94236	102057	110304	118244
Fayette	128311	128691	129016	130231	128789	132869	138572	150341	151029	153971	165850	175109	182537	189990	215605

Table 2. Adjusted Sales (1994 dollars in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	96646	101117	100892	98529	101085	105490	104808	106972	106811	117576	125007	128480	133814	133755	150678
Franklin	56413	56198	59395	57597	56753	64245	69866	80589	70953	77929	81231	98287	99529	107277	120733
Fremont	44834	43435	38277	33518	34480	37498	39785	43585	43327	48834	48615	49850	49550	48396	49840
Greene	63833	63064	59801	56754	58791	60948	63139	67039	67456	73507	80618	84299	81992	90005	104434
Grundy	50052	50033	49386	48384	47349	51466	57555	63592	62542	71922	75650	85092	86677	88621	98815
Guthrie	50852	49022	51306	50582	50910	52958	51230	51986	52284	56959	61639	64156	62012	64471	76891
Hamilton	94948	94382	95028	100897	99331	102872	105095	106127	106873	113871	120903	127274	126487	132427	154425
Hancock	56937	56496	56336	57896	59764	66347	69172	72935	72709	77830	85618	91090	89817	96882	115603
Hardin	134712	130685	132159	131528	129365	134989	144955	147939	154527	163571	177614	184490	186223	197537	226650
Harrison	56663	62077	60138	58218	57966	59654	63418	72834	71350	73770	81118	83423	81035	91564	102478
Henry	120015	139945	139251	137231	132081	138906	139900	142819	131816	131860	131236	137168	132221	140013	157176
Howard	53338	53414	52714	51488	49616	51988	57296	64039	60551	61131	68010	74067	75726	76088	86851
Humboldt	63376	64397	63332	64566	68775	70995	73643	73491	73236	79316	85597	89647	94032	96839	109659
Ida	47653	45971	47822	47351	51428	53765	57852	59092	58113	61342	66480	68582	61800	63346	74557
Iowa	174072	164757	160169	121767	114991	115721	115582	119161	115839	120527	125392	125628	127483	136139	146677
Jackson	103107	102753	101895	102114	96930	100793	104083	109596	111401	113223	119635	123656	124611	130852	144905
Jasper	205045	225405	240231	243584	238948	225407	234585	236394	241424	251529	255107	249061	247236	257967	293907
Jefferson	111587	109173	103932	103088	106734	119027	118270	116106	113822	112226	109420	108472	108564	114266	125137
Johnson	888226	846725	816898	800856	795878	779652	743833	749070	707886	705936	702241	669590	625296	617374	644552
Jones	123460	119646	118463	121919	119581	129232	127537	129724	122630	125959	126011	130641	132353	134487	161053
Keokuk	36883	39317	39430	39203	40006	42342	47252	51631	52673	55469	57520	66873	68982	71686	86058
Kossuth	112712	112334	111761	113477	117146	117050	124492	140189	143098	154398	170908	180535	192122	193183	225612
Lee	300336	291329	289285	286028	284126	291724	298621	313264	308272	314162	314052	326513	329056	343156	367476
Linn	2217771	2084037	2012316	1989843	1960893	1937977	1888481	1865275	1824957	1818463	1758585	1704943	1702417	1761594	1950278
Louisa	30338	32295	32155	32110	33641	36559	37220	40168	44983	45072	46499	53343	53481	57439	60717
Lucas	38177	64574	65889	67585	62400	70422	70024	65956	51664	54441	56413	57773	62583	64369	69510
Lyon	49347	48674	48801	48460	45888	48283	50943	54342	49680	53413	58762	64824	61782	68435	84620
Madison	56897	57650	54902	54149	52791	50986	51580	50650	45885	46811	50918	56066	56371	61081	68866
Mahaska	164390	164388	163640	157419	150540	154787	162595	165813	165591	168257	167000	173491	168161	177881	206782
Marion	184628	177052	174456	175261	176164	182314	184663	183054	181282	178594	178433	178308	179373	183049	208608
Marshall	350465	321441	317972	322610	316883	318815	313336	304256	314903	327040	328092	332155	328681	344968	370552
Mills	39670	43328	45113	45773	46226	47026	48829	53490	52548	54245	56705	59399	58027	59975	65757
Mitchell	56292	55759	55660	56085	54160	55652	61486	63883	59949	64508	70450	75522	75520	78150	92777

Table 2. Adjusted Sales (1994 dollars in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	48161	50013	48022	49258	50158	53906	56005	61580	62597	62251	71371	74157	74995	81320	99756
Monroe	39615	39598	36830	39924	40032	40207	40787	42596	43034	43574	45883	45054	47362	48858	54497
Montgomery	95943	95702	92203	95125	97980	101281	98669	95113	91948	97533	102540	97987	101856	107650	117830
Muscatine	314481	310449	298949	295454	295699	296610	290592	285130	294956	314636	317419	315316	319535	315003	327120
O'Brien	92254	91896	91330	93767	97201	105088	112450	111290	100595	105860	115118	122156	120653	124108	147424
Osceola	32206	33041	32555	32892	34581	34329	35971	36801	37184	40069	47683	49608	48826	52814	62536
Page	99411	96412	96517	100458	103494	110556	112681	119940	119686	126997	133165	138106	139561	152588	177253
Palo Alto	48943	45077	44892	46303	46926	48760	50884	56203	56078	59627	68505	75038	73967	79287	91353
Plymouth	135414	135158	134151	129641	127414	130381	134191	136198	130782	135437	140244	142066	138974	145131	169543
Pocahontas	39484	39663	41453	40213	40730	43122	46239	47926	54532	64123	68883	74363	72997	78446	90803
Polk	5360643	5136130	4979904	4883195	4919353	4883254	4688877	4551013	4362576	4183804	4099292	3802644	3708577	3784594	4165664
Pottawattamie	592235	574204	568642	565965	582807	591457	587550	576041	545728	562992	571048	560115	534149	557533	581868
Poweshiek	127026	176041	181487	179200	171312	177578	160208	160684	157393	158834	157645	159923	153418	145720	161028
Ringgold	21556	22431	23293	23121	22693	23872	24887	26244	26468	25950	27867	30768	33726	33884	40826
Sac	55836	54974	58232	57743	56530	58708	60706	64337	64052	71984	77865	89325	86514	94099	115608
Scott	1716910	1680402	1705410	1623753	1671574	1537912	1559848	1540106	1560529	1574123	1520577	1486542	1518230	1553014	1664791
Shelby	72384	72576	70995	73344	72951	77848	80356	84959	85966	88065	95590	104016	100447	106064	122550
Sioux	195676	187594	185544	181153	170470	166245	170408	172769	167658	180044	197309	205182	201510	209828	253172
Story	578424	575082	556960	557843	539896	535209	533903	536499	531308	521012	522226	517576	503865	515220	547837
Tama	82526	81004	82344	81176	83056	86602	88846	103142	103043	102779	113245	120590	123983	129342	151167
Taylor	20798	20507	20320	20371	19942	20800	22371	25341	25233	26676	30535	33862	35789	36903	45309
Union	96527	91878	90755	92589	85502	84500	88634	90817	91650	90711	95673	99198	98522	103172	119072
Van Buren	23887	21376	22719	20767	21319	19795	20483	21069	23192	24698	24176	26127	28662	33548	39290
Wapello	305815	295749	287961	286274	279814	256344	250346	256150	269811	275279	272343	275191	270364	295315	313870
Warren	134492	128910	128124	127066	117025	117185	115501	114948	116753	118049	119137	118274	120143	121293	138622
Washington	120843	119879	120943	122521	117658	119955	131721	133964	133263	140687	143738	156910	152474	158360	181789
Wayne	23511	23916	23369	23933	23708	24405	25289	27222	28563	28414	29725	34243	37967	39102	47561
Webster	418014	408553	407316	405922	426492	377251	371228	396465	395893	415132	425667	434103	434230	463070	524100
Winnebago	66364	64677	65064	66817	67982	70559	70715	74769	73862	78339	83708	82042	81433	87078	99947
Winneshiek	135092	134248	134755	134402	131133	130751	133751	133334	123064	124108	126564	132907	135114	135717	147295
Woodbury	1033068	987970	959002	942068	956499	963176	950558	940315	932402	950714	965790	962535	951224	974318	1044381
Worth	23668	22605	23351	23607	23804	26102	27773	35909	42331	32781	37193	43038	41550	47984	58989
Wright	87611	85814	86286	84812	83404	84941	90248	94288	98878	108328	121496	130045	137208	136116	153230
State of Iowa	24383700	23804678	23415211	23091702	23037323	23019210	22891235	22935346	22540830	22872847	23216360	23218324	23147457	23974174	26520527



Table 3. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	-18475	-17515	-16745	-15587	-11108	-7484	-3624	-2380	-1427	-1948	1519	7668	-1960	-1567	-6037
Adams	-13577	-12495	-12474	-10840	-9064	-7501	-5428	-5789	-7233	-5598	-5524	-2516	-3638	-5411	-6620
Allamakee	-17701	-15743	-13688	5708	1125	4105	8586	6848	4095	5822	9597	9716	-1154	-5635	-6566
Appanoose	-18783	-11242	-10084	-7803	-8946	-4788	-4077	3850	-3476	-5235	-4212	-2552	-8361	-1469	-5496
Audubon	-27938	-24761	-22082	-8609	-8556	-6813	-5497	-5899	-4352	39	1331	3587	-9797	-10093	-6005
Benton	-91853	-85074	-78073	-60459	-60822	-54093	-48480	-50532	-52040	-44155	-42292	-35989	-39397	-39561	-38038
Black Hawk	177347	174222	144873	-81401	-63826	-85799	-82300	-82269	-70451	-64851	-74958	-87152	17688	16288	25000
Boone	-72241	-63562	-58223	-61215	-60169	-59974	-57959	-58700	-51690	-50459	-50503	-46567	-43353	-36717	-36017
Bremer	-56312	-56413	-50652	-72238	-68173	-66577	-60540	-50322	-51857	-42767	-38036	-31572	-22006	-21109	-25360
Buchanan	-61953	-56346	-54740	-42955	-37048	-37376	-35216	-40877	-37789	-32826	-34189	-24118	-32791	-35303	-28628
Buena Vista	2424	3143	3386	12880	7912	14265	14878	21411	12605	25723	30087	28938	3524	6063	10814
Butler	-66182	-60840	-58918	-46992	-39318	-34122	-31401	-29626	-27349	-26791	-22507	-17582	-32149	-34105	-37113
Calhoun	-43324	-40150	-39488	-35192	-28817	-9466	4717	-5354	-14955	-13364	-11105	-6294	-14187	-11755	-11132
Carroll	22605	15014	12259	30337	30173	30763	28482	26014	14357	20588	30483	36993	15768	16576	24330
Cass	-13259	-12136	-6294	-9603	-12018	-10397	-6263	690	-805	10118	13744	17145	-3284	-2326	-2518
Cedar	-71730	-69239	-70197	-43932	-50847	-44767	-43351	-36739	-39093	-35827	-33964	-23593	-36216	-37753	-30426
Cerro Gordo	87935	77167	81371	82667	74953	74874	59267	56135	46355	44320	36668	35711	45948	27378	28155
Cherokee	-16743	-17846	-16832	-13782	-18210	-11297	-13468	-6874	-3148	-926	1305	5357	-7683	-6675	-299
Chickasaw	-36709	-35121	-32922	-21499	-23202	-17922	-17826	-7721	-12354	-8893	-5553	1210	-10434	-8158	-3544
Clarke	-10881	-7745	-6610	-1399	-3037	-282	882	2212	3491	1467	2676	2829	-3875	-2972	-6403
Clay	2363	2946	4191	20557	21720	21789	18007	14382	4491	15111	24298	32865	7466	7502	12851
Clayton	-59862	-57299	-51757	-43456	-46103	-41705	-31858	-24350	-26929	-20110	-12182	-9380	-15030	-14073	-4642
Clinton	-57703	-48193	-44914	-64719	-60504	-46729	-57106	-55071	-47462	-42205	-40095	-45796	-35126	-31470	-43386
Crawford	-23676	-20697	-16012	-6411	-11848	-11485	-6679	-6462	-8713	-5605	-2330	-2889	-6854	-4274	-4496
Dallas	-128834	-121071	-111774	-81856	-100640	-87379	-73802	-71499	-61691	-48969	-51101	-54466	-53530	-47934	-51380
Davis	-26934	-23686	-23381	-15612	-17055	-15331	-13274	-9017	-8213	-9931	-8666	-5266	-6641	-7474	-10790
Decatur	-16947	-21443	-21370	-22507	-22186	-20284	-19372	-16386	-13430	-13362	-12471	-9905	-5141	-4840	-8091
Delaware	-48900	-46101	-42901	-30346	-37042	-33777	-21302	-23751	-21732	-16401	-14144	-7072	-20767	-22611	-23758
Des Moines	53396	39752	44651	558	-8438	5687	6733	-5338	-914	-8527	-5402	8393	25426	20073	19666
Dickinson	18433	22606	15249	21899	24416	15430	5845	-978	-10705	-9251	-5857	-7224	-3925	-756	2532
Dubuque	89093	89596	69401	73430	66496	53650	60269	55210	50517	27242	42117	19746	-9044	-4669	16814
Emmet	-8922	-6329	-4293	5066	5890	5332	3877	3697	-5605	-4054	4376	-836	8090	10011	6828
Fayette	-26379	-22900	-19946	-19536	-24563	-19769	-18468	-6737	-6963	-5519	476	3952	9184	9775	10664

Table 3. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	-40068	-30880	-29572	-20987	-22463	-16066	-16596	-12810	-14075	-7739	-254	-1846	-16970	-23113	-25843
Franklin	-32003	-29606	-26038	-25728	-28459	-11539	-21891	-11084	-19488	-15511	-14504	-4888	-3310	-1979	-9446
Fremont	-16988	-15031	-18208	-23331	-31115	-27293	-22457	-18617	-17653	-14199	-11330	-7502	-17102	-17640	-15696
Greene	-12400	-12117	-15490	-22302	-22424	-21052	-19778	-13697	-15790	-12422	-6409	-3206	-18472	-17049	-18741
Grundy	-51674	-51178	-52084	-53368	-57843	-51109	-45321	-45282	-42376	-35643	-34460	-24096	-23773	-24653	-26118
Guthrie	-42191	-39507	-33339	-22352	-20198	-17910	-17986	-15706	-14314	-11604	-9294	-6902	-15818	-15416	-20131
Hamilton	-43847	-37052	-34375	-27743	-25847	-21441	-18130	-20395	-15343	-13171	-7362	-1492	-4715	-2069	1250
Hancock	-43590	-41237	-40262	-36815	-39821	-30559	-30040	-21922	-21622	-17805	-13454	-7688	-12058	-11813	-9812
Hardin	-17814	-21956	-18175	-17989	-16015	-14864	-9345	-354	3670	12854	16830	20665	7303	9542	15762
Harrison	-48647	-38767	-38323	-28473	-33223	-29339	-23923	-16880	-18146	-17008	-14136	-9682	-24507	-21294	-21596
Henry	-33530	-13581	-14750	-22626	-16939	-12252	-5124	-1812	-6565	-8237	-8847	-2566	-10837	-12312	-10032
Howard	-18216	-16217	-14008	-12857	-15519	-12680	-7166	-5714	-6954	-6113	-1786	1718	-7933	-8314	-10325
Humboldt	-32682	-27309	-26800	-15372	-15472	-14376	-14297	-10773	-11784	-6786	-5670	-3906	-7544	-8442	-3046
Ida	-19116	-18996	-15442	-7465	-5704	-3802	-2530	-631	410	3364	5071	7665	-20799	-19568	-18982
Iowa	46331	37357	33440	1941	-2325	-3171	-3112	2796	-221	2500	4002	7913	14946	19686	21315
Jackson	-54286	-50313	-48727	-33090	-38474	-35543	-35144	-32129	-26324	-26500	-22803	-21588	-23278	-19386	-23381
Jasper	-106282	-81036	-61051	-42244	-40184	-54196	-32917	-38518	-29558	-25290	-31751	-25976	-33756	-34129	-33556
Jefferson	-23704	-23049	-25283	-32784	-29354	-19769	-16159	-11427	-10758	-7267	-6032	-4448	-9158	-10312	-12984
Johnson	-124171	-126957	-133779	-91975	-1986	-8217	-30179	-34941	-51461	-58068	-81556	-85811	-1439	-8377	-8604
Jones	-39825	-37248	-28601	-7621	-11601	-3493	-6439	-8345	-14021	-11714	-7002	-1648	-9313	-9049	734
Keokuk	-46807	-44588	-43286	-39650	-35700	-34226	-27545	-26640	-21562	-20455	-20688	-13445	-17945	-18845	-18240
Kossuth	-18585	-17043	-22927	-14523	-12389	-12625	-7446	2120	1913	10140	19277	20964	1725	-924	-3365
Lee	2022	-3763	-2573	-23041	-48691	-40294	-35667	-27173	-29284	-27162	-20582	-8123	8231	12366	3846
Linn	423697	322940	283228	266102	261500	250586	206506	214210	191594	174326	90251	70938	145819	150123	185534
Louisa	-69548	-64162	-63407	-59302	-53519	-50194	-44099	-43856	-37137	-38155	-40592	-30713	-26367	-21836	-21054
Lucas	-29333	-1176	-1236	7700	-2260	3324	3568	-3670	-12414	-11342	-12038	-10215	-19068	-17653	-24318
Lyon	-33896	-31837	-29791	-14951	-15912	-13617	-11680	-9643	-14866	-11884	-10041	-7421	-21118	-17543	-10823
Madison	-54019	-49329	-47896	-27318	-22123	-21526	-20535	-22612	-23999	-25338	-24301	-17866	-20735	-20347	-27159
Mahaska	-4004	-4110	-4330	10962	707	3073	6251	4740	3037	4110	3315	7824	3756	8815	12960
Marion	-78167	-77536	-72477	-68509	-55318	-49139	-35555	-40122	-33102	-38524	-34744	-32786	-41278	-36278	-43528
Marshall	-6225	-29952	-27258	-30077	-35737	-38280	-46884	-48750	-33636	-30409	-40528	-32253	-3973	-3063	-7538
Mills	-63069	-56218	-54155	-43046	-39001	-37645	-37319	-36146	-35469	-35647	-28652	-25512	-39155	-35410	-40930
Mitchell	-34022	-32084	-29686	-20893	-22620	-20091	-15491	-10989	-14332	-10711	-9354	-2503	-6923	-8868	-2845

Table 3. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	-29215	-24004	-23411	-11999	-13193	-9081	-6054	-5030	-2802	-3911	1492	2302	-16639	-13381	-12961
Monroe	-20550	-18708	-19548	-28405	-26945	-26262	-23580	-19162	-15782	-13495	-11715	-14635	-8762	-9207	-10768
Montgomery	1702	3411	-159	6514	4004	5988	-1178	-7555	-12066	-3746	-1270	-1539	-12197	-11802	-13195
Muscatine	-56018	-44466	-46063	-77917	-79004	-75299	-69815	-61457	-50261	-38459	-38712	-39034	-8927	-16992	-32503
O'Brien	-29508	-26983	-24405	-12490	-6516	-845	4948	3955	-4776	-2058	2052	5171	-3609	-2902	-2413
Osceola	-29954	-26417	-25703	-14799	-13666	-14277	-12046	-11319	-9328	-7683	-4286	-3916	-5867	-3504	2470
Page	-35794	-36746	-34943	-28711	-30683	-23605	-24066	-14980	-14496	-8253	-5490	-2636	-3624	1575	-9081
Palo Alto	-30944	-32883	-33548	-25830	-24145	-22550	-21349	-19462	-19593	-16365	-12197	-8304	-20299	-15429	-14314
Plymouth	-67303	-56059	-51775	-27996	-37152	-20376	-22543	-20665	-21508	-19852	-22688	-19920	-30861	-24573	-17397
Pocahontas	-37940	-34246	-32042	-32486	-32004	-27903	-25592	-25275	-17974	-10225	-5718	-812	-8673	-7131	-9354
Polk	1625185	1482786	1409391	1452751	1462979	1382012	1217786	1111732	977285	837666	747005	538291	606013	561695	589259
Pottawattamie	-94310	-94095	-96565	-159867	-154371	-134091	-118807	-99258	-114734	-104770	-95434	-99869	-89447	-82204	-94868
Poweshiek	-43127	10192	16865	22607	21352	24176	11531	10153	9847	8766	7418	12185	-21735	-26711	-33344
Ringgold	-15308	-13751	-12453	-5487	-5798	-3981	-3705	-4804	-3522	-4366	-3452	-2013	-6424	-7685	-8684
Sac	-49063	-46610	-40415	-17687	-17169	-16305	-14298	-15330	-16842	-9419	-7435	-1332	-15567	-13466	-14396
Scott	352719	338469	367482	181504	151174	30598	63728	21236	45689	46640	37172	-27347	50777	44764	55894
Shelby	-33758	-30574	-27559	-17503	-21917	-18495	-15957	-8672	-9222	-8873	-6690	2940	-4267	-4078	-1118
Sioux	-28550	-27960	-22215	-1488	-18588	-20539	-21724	-12943	-15507	-4480	4483	7575	-4991	-6090	6023
Story	-86119	-64983	-57659	-91753	-73015	-74510	-84122	-74740	-71228	-74982	-90651	-80768	-66389	-56535	-60690
Tama	-50672	-52612	-52540	-42892	-31503	-27613	-29535	-20428	-19967	-18656	-11606	-7910	-22921	-20953	-27051
Taylor	-24583	-24094	-24396	-21524	-22321	-21628	-18312	-14282	-14769	-13415	-11823	-9338	-12706	-12984	-11012
Union	2131	-1407	-1787	-9299	-13214	-14655	-11812	-8445	-5486	-7504	-5449	-1898	856	2051	2188
Van Buren	-27585	-28229	-25266	-22020	-21852	-22033	-21543	-19187	-15920	-14422	-15227	-13032	-17414	-15506	-17999
Wapello	40583	29680	15823	6015	3023	-24946	-22935	-28349	-18815	-18324	-14504	-24335	-17082	-14353	-22937
Warren	-205455	-193249	-175042	-154283	-171938	-162358	-150357	-149083	-133905	-131972	-131271	-136174	-89287	-86903	-81816
Washington	-36574	-32097	-27125	-20460	-24338	-21594	-10000	-14151	-13018	-7743	-2147	4738	-5300	-6838	-1619
Wayne	-23429	-22297	-22339	-15619	-13072	-12369	-10732	-11374	-9189	-9801	-9945	-6618	-9430	-9174	-16044
Webster	74528	71602	76411	97200	109204	60587	52679	57349	53744	62365	64276	57389	44230	50626	65552
Winnebago	-21510	-23138	-22855	-38744	-36063	-32055	-35279	-30225	-27219	-23452	-15758	-12705	-4490	-3872	-12383
Winneshiek	-21934	-18375	-16024	-9046	-14215	-12785	-9823	-13243	-20246	-21200	-18309	-7269	-16601	-17999	-25675
Woodbury	152784	125910	119796	156060	165558	173233	164729	131875	125340	129898	110003	95477	99230	91916	40506
Worth	-36197	-36132	-34249	-38350	-38672	-32149	-29505	-24631	-17258	-23742	-19297	-12571	-19633	-15270	-14474
Wright	-23173	-21247	-22843	-49628	-55168	-51780	-45708	-44471	-39257	-28408	-10228	-3246	-14151	-20051	-21821

## 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 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 1991-1994, 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 18 counties in 1994 (Table 3, Figure 1). 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 \$1.6 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 81 counties had sales that were lower than their population bases would suggest. Twenty-six lost sales of less than \$25 million and 23 were down at least \$50 million in expected sales. Only Dallas, Jasper, 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. Sales subject to sales tax compared with population base, 1994.

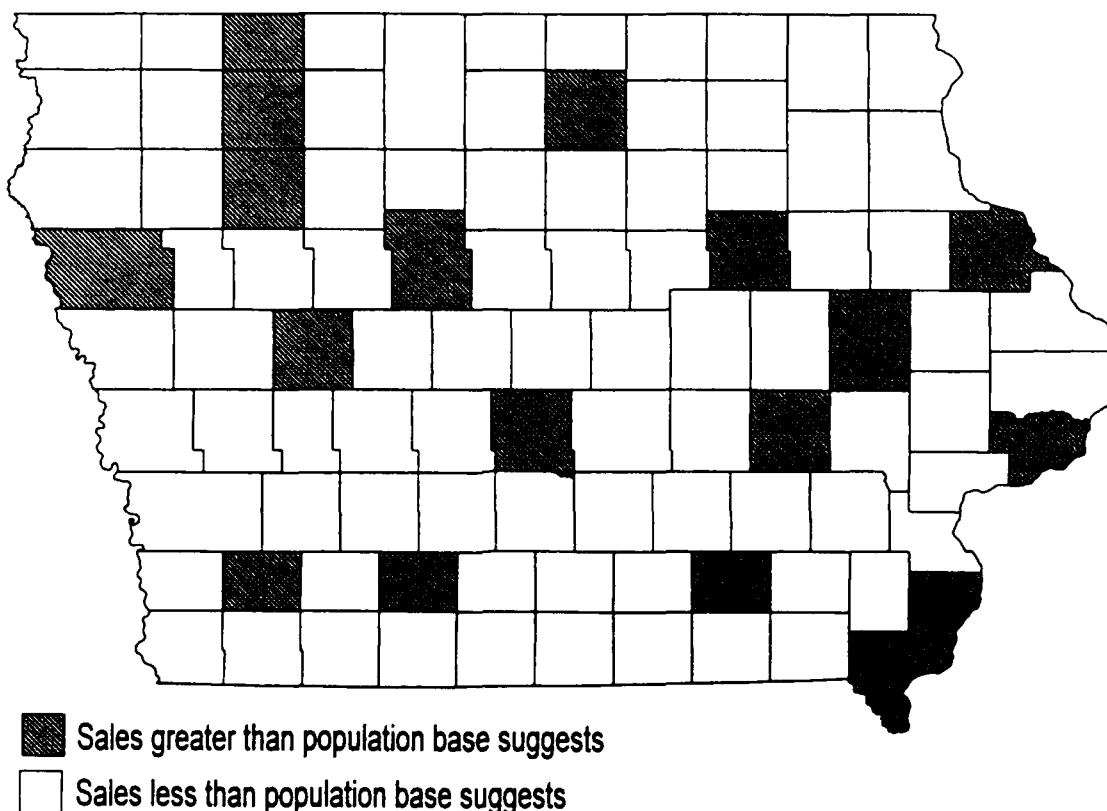


Figure 2. Change in sales (unadjusted for inflation) subject to sales tax, 1984 to 1994.

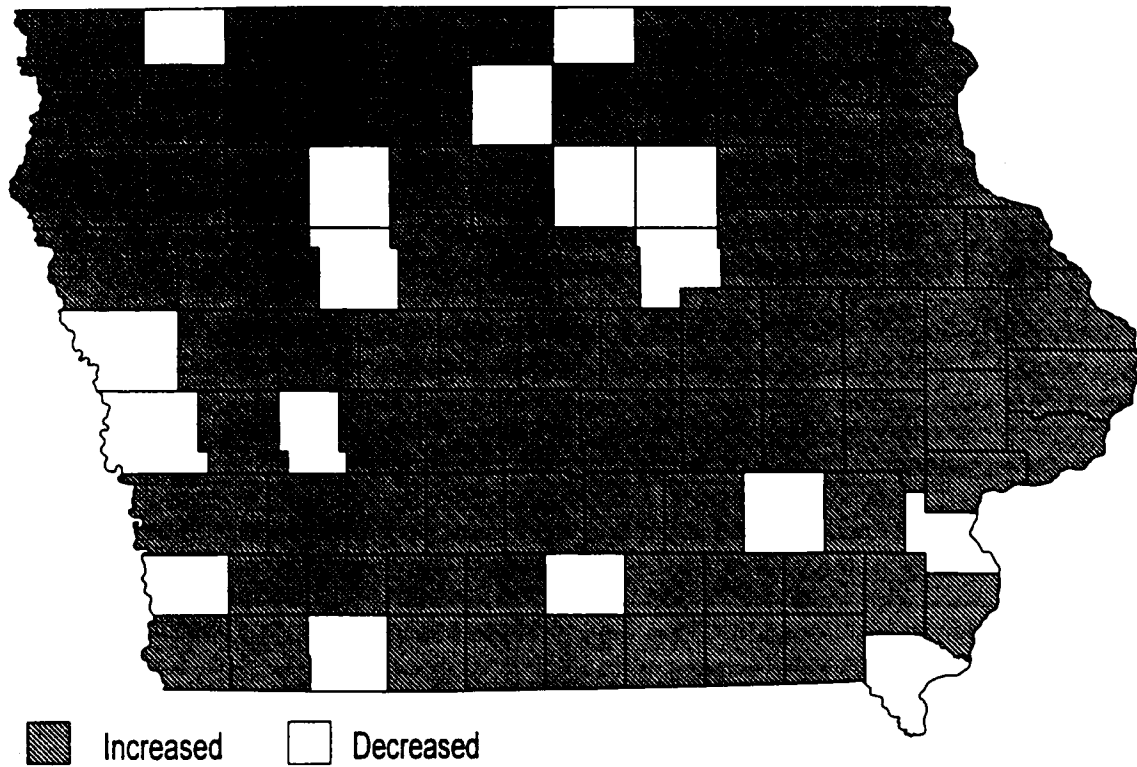
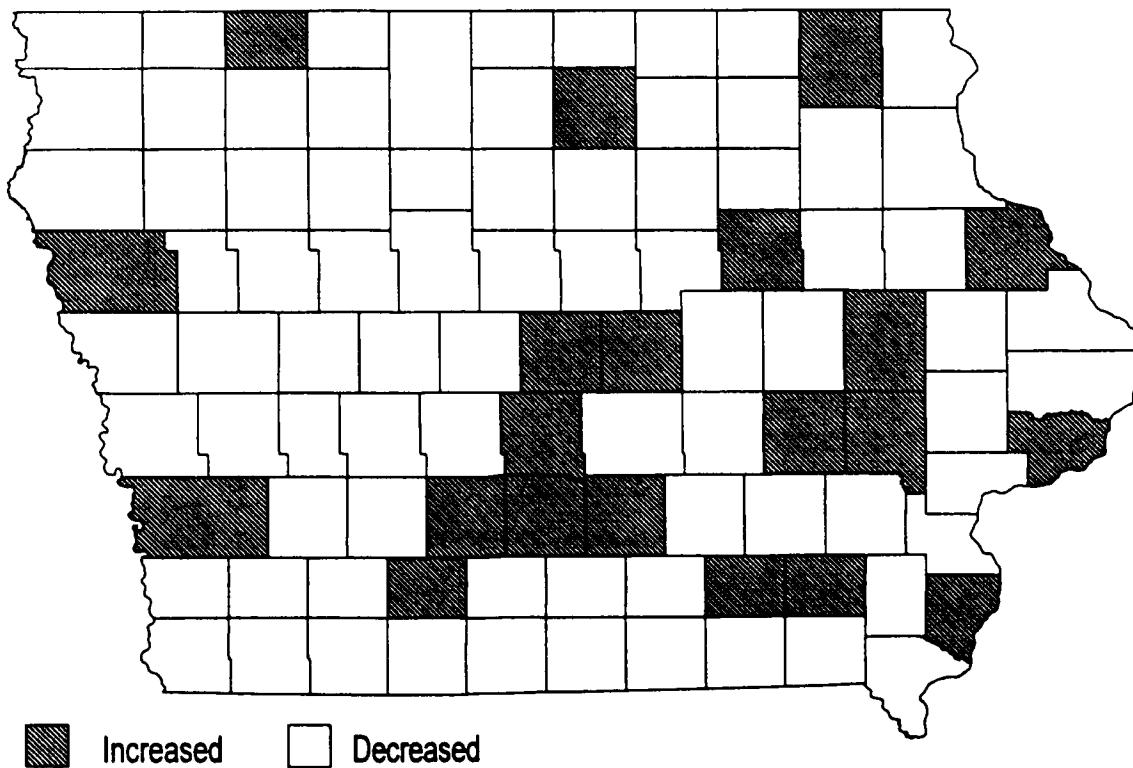


Figure 3. Change in sales (adjusted for inflation) subject to sales tax, 1984 to 1994.



## County Business Patterns in Iowa:

### 1965-1993

Sandra Charvat Burke, Iowa State University

Willis Goudy, Iowa State University

Minde Hibma, Iowa State University

Susan Cucci, Iowa State University

Martin Hansen, Iowa State University

Julia Nieves, Iowa State University

Kimberley Van Dalen, Iowa State University

Each year, the U.S. Bureau of the Census publishes reports on business patterns for counties in every state. Most of the economic divisions of the economy are covered in these reports, including agricultural services, mining, construction, manufacturing, transportation, public utilities, wholesale trade, retail trade, finance, insurance, real estate, and service industries. The data generally represent the types of employment covered by the Federal Insurance Contributions Act (FICA). This includes all covered wage and salary employment of private nonfarm employers and of nonprofit organizations and all religious organizations covered under the elective provisions of FICA. Data for employees of establishments totally exempt from FICA are excluded, as are self-employed persons, domestic service workers, railroad employees, agricultural production workers, most government employees, and employees in foreign countries.

The number of establishments, number of employees, and annual payroll are reported. An establishment is a single physical location where business is conducted or where services or industrial operations are performed. Paid employment consists of full- and part-time employees who were on the payroll in the pay period including March 12. This includes salaried officers and executives of corporations and employees on paid sick leave, holidays, or vacations. Total annual payroll is the combined amount of wages, salaries, tips reported, commissions, bonuses, vacation allowances, sick-leave pay, and the value of payments in kind paid to employees before deductions for social security, income tax, insurance, and so on.

#### Number of Establishments

Iowa had 76,957 business establishments in 1993, 986 more than in 1992 and 3,749 higher than the 1985 figure (Table 1, Figure 1). Iowa gained businesses each year since 1987; annual increases ranged from 247 (1987-1988) to 1,651 (1991-1992).

Iowa's most populous counties had the largest number of establishments; Polk's total (10,687) was more than double that of Linn (4,862) or Scott (4,237). Adams (120) and Ringgold (123) had the fewest businesses in 1993; eight other counties counted fewer than 200. In the span from 1985 to 1993, Jones (-51), Kossuth (-48), Marshall (-56), Pocahontas (-68), and Webster (-47) each declined by more than 40 businesses. Forty-seven counties had fewer establishments in 1993 than in 1985. Polk had 1,344 more firms in 1993 than in 1985. Three others (Johnson, Linn, Scott) increased by at least 300 and seven more gained from 100 to 299 firms. Fifty counties registered increases over the eight years.

#### Number of Employees

Employees in business establishments increased each year in Iowa from 1985 to 1993, when nearly 1,072,000 were counted (Table 2). The gain in employees between 1992 and 1993 was more than

Table 1. Number of Business Establishments In Iowa Counties, 1965-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Adair	214	213	221	216	225	226	225	226	244	230	230	210	216
Adams	120	120	110	125	117	122	118	123	125	117	112	106	117
Allamakee	406	400	411	396	401	396	391	394	392	393	385	343	351
Appanoose	337	332	327	328	326	318	305	309	317	320	344	297	314
Audubon	210	211	203	199	204	197	195	205	221	227	239	229	246
Benton	549	536	537	544	531	530	539	532	559	501	491	421	452
Black Hawk	3163	3096	3006	3011	2976	2950	2956	2999	3094	2903	2665	2305	2283
Boone	545	516	511	506	504	521	531	543	554	502	520	472	529
Bremer	616	615	611	584	564	567	564	580	586	537	495	451	455
Buchanan	482	493	478	465	460	446	434	430	475	439	414	335	372
Buena Vista	625	623	610	604	609	624	623	619	632	601	563	487	544
Butler	364	375	374	368	362	372	362	366	403	396	364	333	339
Calhoun	339	330	323	316	329	331	339	327	346	341	372	319	374
Carroll	799	774	740	747	734	718	727	731	743	679	662	587	608
Cass	510	496	512	487	482	488	489	501	539	518	540	464	499
Cedar	465	439	437	444	435	438	437	455	454	410	426	376	403
Cerro Gordo	1444	1448	1421	1398	1415	1405	1434	1460	1469	1394	1316	1197	1235
Cherokee	377	377	386	381	374	380	389	399	400	382	370	358	388
Chickasaw	393	391	378	368	369	374	357	359	377	364	362	298	310
Clarke	214	208	213	196	208	210	208	199	211	188	184	165	160
Clay	619	607	589	593	605	595	605	595	623	610	535	480	502
Clayton	535	520	517	531	508	509	504	493	523	452	460	446	465
Clinton	1256	1271	1249	1215	1215	1190	1193	1211	1244	1125	1139	1060	1080
Crawford	486	493	482	481	476	477	456	477	493	467	430	386	416
Dallas	718	681	650	612	597	592	591	617	616	580	584	496	532
Davis	179	175	172	174	166	179	175	174	184	168	164	158	161
Decatur	178	175	166	169	173	175	163	164	178	185	189	173	178
Delaware	414	420	424	413	410	398	400	411	417	417	366	326	365
Des Moines	1244	1220	1213	1186	1167	1181	1189	1193	1208	1090	983	1018	1042
Dickinson	647	641	611	608	598	561	551	551	550	407	408	323	339
Dubuque	2496	2440	2441	2357	2273	2255	2217	2239	2279	2035	1851	1561	1630
Emmet	316	299	278	283	281	280	288	295	318	319	330	291	304
Fayette	641	639	640	622	634	626	608	616	659	619	622	534	606
Floyd	456	460	447	446	442	440	441	448	466	445	418	400	426
Franklin	312	318	321	304	313	317	328	330	348	353	373	301	341
Fremont	201	196	192	189	185	177	179	196	199	184	210	183	215
Greene	291	278	286	287	287	290	294	303	322	291	293	269	310
Grundy	329	339	318	314	307	313	323	321	349	306	325	291	299
Guthrie	283	272	262	251	236	234	257	262	272	266	263	247	253
Hamilton	440	438	423	422	428	445	441	449	472	439	450	419	449
Hancock	346	356	351	344	335	319	331	342	356	338	352	258	297
Hardin	635	640	644	652	651	656	630	647	670	641	652	592	579
Harrison	334	349	344	327	335	338	325	324	332	320	327	313	349
Henry	517	496	476	484	482	473	470	436	464	481	454	412	431
Howard	274	266	262	252	246	241	248	263	271	283	284	256	285
Humboldt	323	317	315	311	318	314	311	318	328	330	328	281	304
Ida	259	255	234	232	246	242	240	242	242	236	256	218	249
Iowa	483	458	445	416	407	407	405	422	445	389	374	354	380
Jackson	532	526	497	470	489	485	501	511	511	463	464	418	422
Jasper	806	804	768	758	752	747	754	781	777	718	696	637	620

Table 1. Number of Business Establishments In Iowa Counties, 1965-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Jefferson	638	614	575	547	525	515	535	525	482	343	335	310	336
Johnson	2298	2221	2120	2076	2004	1997	1984	1945	1953	1499	1312	1121	1034
Jones	446	446	441	429	431	443	441	472	497	440	450	396	411
Keokuk	267	279	285	278	280	277	284	289	297	299	299	275	314
Kossuth	534	541	532	513	531	526	526	542	582	566	539	478	520
Lee	1054	1039	1036	1014	1003	1022	1032	1052	1068	973	944	843	860
Linn	4862	4737	4545	4482	4437	4411	4348	4343	4318	3757	3258	2836	2827
Louisa	233	225	222	223	225	224	226	216	231	208	207	198	216
Lucas	184	192	187	188	203	192	189	189	202	213	217	226	237
Lyon	329	333	326	309	288	283	288	282	294	269	279	247	276
Madison	309	300	290	290	273	286	276	274	274	243	235	225	212
Mahaska	569	569	558	543	553	551	558	545	572	527	528	519	552
Marion	710	700	694	677	669	653	641	655	677	599	582	478	499
Marshall	932	942	924	912	931	946	951	960	988	930	907	801	823
Mills	241	229	225	230	225	223	218	223	238	256	235	204	234
Mitchell	335	321	336	322	320	326	314	312	308	298	310	286	301
Monona	285	281	277	287	289	285	291	291	296	292	323	265	278
Monroe	195	192	182	182	190	180	179	179	190	179	176	157	170
Montgomery	348	345	337	329	330	322	321	341	368	357	347	366	377
Muscatine	987	999	970	959	952	945	976	993	992	894	871	712	743
O'Brien	543	534	527	514	501	519	510	524	530	520	514	438	474
Osceola	205	209	204	204	197	199	199	196	207	208	199	189	220
Page	533	511	543	515	524	496	504	521	550	505	510	481	505
Palo Alto	339	337	316	309	308	315	308	316	317	290	304	294	332
Plymouth	635	628	604	622	607	617	633	617	595	568	567	481	504
Pocahontas	297	275	290	294	292	299	309	359	365	315	323	301	326
Polk	10687	10569	10302	10068	9841	9638	9583	9403	9343	7946	7263	5963	6045
Pottawattamie	1838	1843	1789	1782	1758	1758	1776	1753	1708	1513	1470	1247	1333
Poweshiek	562	557	526	523	518	528	524	542	506	483	455	419	429
Ringgold	123	131	135	140	132	128	124	127	133	139	139	116	136
Sac	387	384	376	378	362	362	382	382	400	423	421	389	433
Scott	4237	4198	4106	4025	3954	3943	3903	3793	3854	3332	2989	2480	2482
Shelby	419	403	397	401	384	388	381	389	387	362	370	346	330
Sioux	996	961	926	878	858	801	791	790	809	813	749	613	614
Story	1748	1735	1717	1669	1596	1602	1548	1575	1588	1456	1311	989	980
Tama	390	393	366	370	371	381	365	394	414	415	426	389	445
Taylor	169	179	172	178	182	181	179	165	183	167	182	182	188
Union	349	342	344	347	355	342	337	342	363	366	338	329	345
Van Buren	182	175	174	167	174	169	165	166	182	167	176	137	166
Wapello	855	850	830	825	819	804	797	802	851	772	776	816	852
Warren	652	640	623	625	591	582	574	570	562	454	460	337	337
Washington	608	613	581	578	567	581	557	563	593	542	532	461	470
Wayne	186	193	192	195	179	168	167	167	172	191	189	183	198
Webster	1176	1177	1162	1156	1137	1147	1149	1180	1223	1206	1154	1083	1132
Winnebago	328	329	324	325	339	327	319	328	337	356	343	321	330
Winneshiek	592	572	566	558	542	545	542	537	559	471	441	402	418
Woodbury	2811	2751	2721	2681	2655	2646	2655	2666	2706	2557	2545	2257	2431
Worth	185	185	177	170	170	180	176	175	190	175	182	147	186
Wright	437	439	431	426	427	436	433	442	465	444	460	411	449
County Unknown	10	11	11	31	46	24	26	23	32	307	402	1526	1132
State of Iowa	76957	75971	74320	73130	72232	71782	71535	71823	73208	66904	64178	57524	59466



Table 2. Number of Employees of Business Establishments in Iowa Counties, 1965-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Adair	1763	1771	1679	1816	1825	1862	1717	1593	1590	1531	1335	1090	851
Adams	1000	1016	781	771	1022	1016	1309	1241	1325	1421	1835	738	527
Allamakee	4083	4083	3632	3503	3632	3371	3393	3281	2980	3093	2465	2417	1578
Appanoose	3260	3185	3118	2998	2895	2908	2702	2599	2518	3048	3032	2831	1901
Audubon	1553	1506	1337	1294	1168	1087	1123	1106	1223	1431	1144	1227	1026
Benton	3672	3531	3495	3493	3351	3323	3059	3109	2984	3570	3073	2454	2192
Black Hawk	50841	49937	48613	47126	45088	42766	40117	39187	41371	55515	48390	42263	36337
Boone	6475	5933	6063	6430	5943	4680	4572	4529	4777	4934	4406	3928	3202
Bremer	7631	7015	7766	7538	7946	6767	5882	6031	5891	5821	5025	4283	3253
Buchanan	4331	4044	3729	3718	3693	3266	3028	2772	2978	3063	2562	1795	1645
Buena Vista	7508	7180	6915	6748	6513	6394	6392	6229	6267	6042	3917	3895	3141
Butler	2352	2200	2019	1995	1942	1903	1936	1704	1887	2331	1667	1395	1216
Calhoun	2440	2340	2398	2278	2122	2042	2026	1899	1938	2272	1962	1594	1401
Carroll	8903	8465	8058	7552	7132	7000	6564	6667	6074	7162	5170	3933	3530
Cass	5019	4967	4784	4850	4925	4782	4553	4161	4188	4506	3754	3049	2621
Cedar	3625	3249	3135	3209	3170	2940	2711	2575	2661	2718	2369	1891	1633
Cerro Gordo	18870	18227	19582	19165	18923	17725	16848	16519	16838	17290	14899	14247	12348
Cherokee	4371	4522	4392	4128	3878	3430	3689	3654	3675	3919	3492	3168	2303
Chickasaw	3866	3837	3699	3715	3369	3286	3066	2962	3149	3437	2937	1688	1520
Clarke	2318	2764	2677	2536	2757	2188	2197	1881	1918	1948	1250	1087	751
Clay	6681	6674	6291	6142	6134	5728	5207	5262	5467	6671	4980	4182	3078
Clayton	4268	4168	4193	4330	4275	4002	3829	3324	3357	3508	2991	2415	2204
Clinton	17885	18346	17304	16831	16596	15864	15003	14472	15301	17997	16209	15508	13014
Crawford	5065	4953	4626	4775	4589	4951	4909	4774	5033	5034	3106	3193	2633
Dallas	7325	6931	6149	5317	4902	5156	4887	4686	5017	4977	4964	3706	3138
Davis	1460	1265	1170	1189	1222	1147	1059	1012	1014	1142	914	805	633
Decatur	2189	2152	1968	2135	1995	1897	2122	2557	2263	2110	1538	1455	871
Delaware	3619	3331	3162	3144	2857	2797	2465	2659	2525	3385	2248	1972	1714
Des Moines	19351	18851	19051	19101	19095	18214	17327	16420	16035	18853	16845	20300	15562
Dickinson	6590	5543	5568	5164	5098	4340	4282	3970	3802	3697	3136	2292	1612
Dubuque	45017	42939	42821	42195	40917	40225	36620	37126	36159	42224	35270	30131	24180
Emmet	2992	2969	2842	2759	2620	2603	2675	2502	2765	3943	3259	2805	2400
Fayette	6111	5628	5503	5262	5246	4870	4365	4402	4532	5000	4275	3852	3370
Floyd	4896	5045	4959	4815	4878	4504	4213	4002	3811	5330	7145	4458	4792
Franklin	2436	2293	2400	2503	2317	2339	2278	2337	2646	3002	3050	1733	1762
Fremont	1329	1276	1386	1483	1184	1183	1239	1175	1178	1207	2001	887	763
Greene	2249	2093	1922	2034	2153	2137	2075	1889	2044	2345	1707	1792	1534
Grundy	2442	2256	2093	2153	2052	2076	1937	2003	2147	2196	2222	1733	1336
Guthrie	1746	1631	1718	1637	1671	1650	1609	1551	1464	1619	1217	1126	878
Hamilton	6007	5730	5966	5911	6308	5694	5352	4840	4771	4823	3743	3937	3089
Hancock	3440	3207	2921	2887	2864	2838	2609	2680	2721	2796	2059	1418	1106
Hardin	5916	5629	5467	5318	5148	5077	5332	5157	4992	5734	4604	3931	2972
Harrison	2516	2398	2437	2279	2318	2169	2124	1927	1995	2215	1816	1678	1524
Henry	9187	8706	9663	9045	8456	7160	6707	6065	5914	5216	3751	3262	2401
Howard	2438	2309	1827	1771	1751	1736	1842	1730	1652	2013	1516	1179	1222
Humboldt	2744	2547	2513	2430	2574	2407	2225	2321	2376	2435	2266	1680	1446
Ida	2767	2671	2350	2545	2490	2443	2120	1970	1948	1927	1608	1348	888
Iowa	8126	7549	6679	6252	6739	5972	6178	5441	5822	6219	5579	3880	2975
Jackson	4637	4324	4204	4143	3655	3554	3365	3277	3244	3843	3203	2864	3342
Jasper	9614	9535	10011	10064	9861	10645	9969	9521	9754	10672	9455	8861	7343

Table 2. Number of Employees of Business Establishments in Iowa Counties, 1965-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Jefferson	7343	6577	6694	6908	6236	5797	5162	5399	4647	4780	3744	3870	3854
Johnson	39905	38519	37155	37436	34883	25941	24398	23602	22439	19287	15022	12913	9605
Jones	3736	3399	3455	3446	3262	3245	3123	3281	3506	3646	3091	2635	2082
Keokuk	1872	1787	1715	1677	1776	1587	1766	1636	1458	1852	1551	1343	1155
Kossuth	4484	4559	4703	4755	4634	4581	4481	4268	4592	4911	3592	3013	2711
Lee	14754	14595	14734	14580	13398	12820	12482	12994	13302	15916	12041	12304	10475
Linn	93329	91908	86020	87000	84017	78591	76662	73309	71172	80670	64651	58226	48789
Louisa	3089	2898	2839	2643	2720	2654	1974	1245	1249	1749	1455	1207	1009
Lucas	2716	2596	2239	2566	2617	2433	2416	2215	2407	2287	1988	1950	1399
Lyon	2249	2115	2062	1854	1703	1650	1598	1492	1544	1796	1427	1174	1132
Madison	2158	1953	1961	1955	1827	1831	1746	1666	1643	1777	1477	1370	1010
Mahaska	5826	5444	5430	5677	5358	5274	4958	4746	4403	5347	4915	4427	3576
Marion	12370	11857	11871	12100	11634	9914	9429	9039	8886	8574	6228	4339	3544
Marshall	13720	13814	14146	13886	13466	12978	12731	13039	13198	14726	13585	13026	10203
Mills	3040	2943	3259	3225	3006	1719	1686	1618	1964	2110	1650	1393	1119
Mitchell	2640	2497	2399	2390	2290	2153	2162	2071	1920	1952	1561	1384	1015
Monona	2679	2207	2282	2312	2119	1905	1920	1854	1932	1970	1567	1268	974
Monroe	2062	1968	1412	1446	1247	1244	1333	1192	1231	1786	1441	977	855
Montgomery	4139	3907	3896	4037	3998	3656	3524	3385	3698	4010	3252	2690	2307
Muscatine	18539	17860	17276	17740	16869	16538	15925	16330	15633	15956	13413	10029	7652
O'Brien	5204	4766	5008	4728	4614	4529	4082	3816	3908	4112	3139	2712	2123
Osceola	1664	1667	1547	1512	1566	1385	1273	1221	1242	1480	1384	1170	1085
Page	5996	5609	5364	5890	5485	5079	5163	4954	5243	5222	3843	3704	3128
Palo Alto	2438	2199	2102	2010	2088	1923	1898	1803	1911	2264	1745	1696	1355
Plymouth	7259	6957	6927	6082	6006	5624	5716	5270	5127	5458	4012	3209	2601
Pocahontas	2475	2448	2298	2226	2206	2143	2013	2385	2256	2183	2370	1883	1494
Polk	207302	202542	199303	195268	191434	184627	171945	166886	162538	154178	130788	113449	92773
Pottawattamie	22756	23049	22266	22089	21277	21601	20629	18303	17783	18057	16053	14342	11267
Poweshiek	8202	8030	7865	7886	7857	6913	6339	5916	5772	5718	4665	3883	2811
Ringgold	947	864	801	808	718	759	719	735	771	959	747	545	495
Sac	2701	2598	2510	2326	2366	2104	2098	1979	2092	2831	3000	2259	1941
Scott	65099	63789	64323	62261	60918	58830	57854	56496	56350	61785	50486	42483	37240
Shelby	4035	3546	3442	3592	3507	3261	3216	3200	2992	3031	2729	2848	1819
Sioux	12511	12259	12145	11855	10736	9810	8762	8623	8662	8546	5922	4370	3584
Story	23475	22802	24208	22857	22186	18541	18386	18691	17617	18086	12754	9379	7895
Tama	3940	3189	3291	3357	3365	3054	2979	2965	3059	3280	2616	2079	1870
Taylor	1297	1271	1436	1783	1479	1475	1111	941	1001	1210	866	1150	747
Union	3997	3942	3737	3883	3728	3670	3406	3007	3030	3389	2569	2461	2028
Van Buren	1330	1095	1070	1056	969	1024	990	962	1027	1019	887	752	723
Wapello	11868	11418	11580	11493	11056	9866	9451	9570	10033	11518	9792	11897	11181
Warren	5911	5657	5514	5334	5138	4828	4737	4461	4481	4000	3093	2395	1501
Washington	5812	5313	4708	4467	4323	4212	4082	4068	4422	5247	4184	2752	2324
Wayne	1491	1432	1402	1368	1219	1189	1140	1224	1240	1442	1034	851	808
Webster	15194	15099	14895	14822	14212	13536	13093	12857	13882	16420	14059	14969	12362
Winnebago	6325	6139	5225	4753	6810	6267	5504	5583	6037	4758	5323	3835	2105
Winneshiek	7808	7046	7315	7450	6814	6571	5652	5799	5758	4292	3387	3074	2502
Woodbury	43313	41415	40722	42564	40259	36854	34692	36160	35543	38134	36808	32583	27888
Worth	1369	1426	1496	1395	1277	1222	1085	965	1024	1047	814	682	565
Wright	4467	4399	3923	3863	4114	3994	3895	3786	3398	3968	3392	2819	2480
County Unknown	236	237	238	812	538	526	494	489	482	258	1492	7764	6512
State of Iowa	1071996	1038327	1019245	1007900	978584	920042	874688	852247	847486	906179	762965	674889	558431

Table 3. Average Number of Employees Per Business Establishment in Iowa Counties, 1965-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Adair	8.2	8.3	7.6	8.4	8.1	8.2	7.6	7.0	6.5	6.7	5.8	5.2	3.9
Adams	8.3	8.5	7.1	6.2	8.7	8.3	11.1	10.1	10.6	12.1	16.4	7.0	4.5
Allamakee	10.1	10.2	8.8	8.8	9.1	8.5	8.7	8.3	7.6	7.9	6.4	7.0	4.5
Appanoose	9.7	9.6	9.5	9.1	8.9	9.1	8.9	8.4	7.9	9.5	8.8	9.5	6.1
Audubon	7.4	7.1	6.6	6.5	5.7	5.5	5.8	5.4	5.5	6.3	4.8	5.4	4.2
Benton	6.7	6.6	6.5	6.4	6.3	6.3	5.7	5.8	5.3	7.1	6.3	5.8	4.8
Black Hawk	16.1	16.1	16.2	15.7	15.2	14.5	13.6	13.1	13.4	19.1	18.2	18.3	15.9
Boone	11.9	11.5	11.9	12.7	11.8	9.0	8.6	8.3	8.6	9.8	8.5	8.3	6.1
Bremer	12.4	11.4	12.7	12.9	14.1	11.9	10.4	10.4	10.1	10.8	10.2	9.5	7.1
Buchanan	9.0	8.2	7.8	8.0	8.0	7.3	7.0	6.4	6.3	7.0	6.2	5.4	4.4
Buena Vista	12.0	11.5	11.3	11.2	10.7	10.2	10.3	10.1	9.9	10.1	7.0	8.0	5.8
Butler	6.5	5.9	5.4	5.4	5.4	5.1	5.3	4.7	4.7	5.9	4.6	4.2	3.6
Calhoun	7.2	7.1	7.4	7.2	6.4	6.2	6.0	5.8	5.6	6.7	5.3	5.0	3.7
Carroll	11.1	10.9	10.9	10.1	9.7	9.7	9.0	9.1	8.2	10.5	7.8	6.7	5.8
Cass	9.8	10.0	9.3	10.0	10.2	9.8	9.3	8.3	7.8	8.7	7.0	6.6	5.3
Cedar	7.8	7.4	7.2	7.2	7.3	6.7	6.2	5.7	5.9	6.6	5.6	5.0	4.1
Cerro Gordo	13.1	12.6	13.8	13.7	13.4	12.6	11.7	11.3	11.5	12.4	11.3	11.9	10.0
Cherokee	11.6	12.0	11.4	10.8	10.4	9.0	9.5	9.2	9.2	10.3	9.4	8.8	5.9
Chickasaw	9.8	9.8	9.8	10.1	9.1	8.8	8.6	8.3	8.4	9.4	8.1	5.7	4.9
Clarke	10.8	13.3	12.6	12.9	13.3	10.4	10.6	9.5	9.1	10.4	6.8	6.6	4.7
Clay	10.8	11.0	10.7	10.4	10.1	9.6	8.6	8.8	8.8	10.9	9.3	8.7	6.1
Clayton	8.0	8.0	8.1	8.2	8.4	7.9	7.6	6.7	6.4	7.8	6.5	5.4	4.7
Clinton	14.2	14.4	13.9	13.9	13.7	13.3	12.6	12.0	12.3	16.0	14.2	14.6	12.1
Crawford	10.4	10.0	9.6	9.9	9.6	10.4	10.8	10.0	10.2	10.8	7.2	8.3	6.3
Dallas	10.2	10.2	9.5	8.7	8.2	8.7	8.3	7.6	8.1	8.6	8.5	7.5	5.9
Davis	8.2	7.2	6.8	6.8	7.4	6.4	6.1	5.8	5.5	6.8	5.6	5.1	3.9
Decatur	12.3	12.3	11.9	12.6	11.5	10.8	13.0	15.6	12.7	11.4	8.1	8.4	4.9
Delaware	8.7	7.9	7.5	7.6	7.0	7.0	6.2	6.5	6.1	8.1	6.1	6.0	4.7
Des Moines	15.6	15.5	15.7	16.1	16.4	15.4	14.6	13.8	13.3	17.3	17.1	19.9	14.9
Dickinson	10.2	8.6	9.1	8.5	8.5	7.7	7.8	7.2	6.9	9.1	7.7	7.1	4.8
Dubuque	18.0	17.6	17.5	17.9	18.0	17.8	16.5	16.6	15.9	20.7	19.1	19.3	14.8
Emmet	9.5	9.9	10.2	9.7	9.3	9.3	9.3	8.5	8.7	12.4	9.9	9.6	7.9
Fayette	9.5	8.8	8.6	8.5	8.3	7.8	7.2	7.1	6.9	8.1	6.9	7.2	5.6
Floyd	10.7	11.0	11.1	10.8	11.0	10.2	9.6	8.9	8.2	12.0	17.1	11.1	11.2
Franklin	7.8	7.2	7.5	8.2	7.4	7.4	6.9	7.1	7.6	8.5	8.2	5.8	5.2
Fremont	6.6	6.5	7.2	7.8	6.4	6.7	6.9	6.0	5.9	6.6	9.5	4.8	3.5
Greene	7.7	7.5	6.7	7.1	7.5	7.4	7.1	6.2	6.3	8.1	5.8	6.7	4.9
Grundy	7.4	6.7	6.6	6.9	6.7	6.6	6.0	6.2	6.2	7.2	6.8	6.0	4.5
Guthrie	6.2	6.0	6.6	6.5	7.1	7.1	6.3	5.9	5.4	6.1	4.6	4.6	3.5
Hamilton	13.7	13.1	14.1	14.0	14.7	12.8	12.1	10.8	10.1	11.0	8.3	9.4	6.9
Hancock	9.9	9.0	8.3	8.4	8.5	8.9	7.9	7.8	7.6	8.3	5.8	5.5	3.7
Hardin	9.3	8.8	8.5	8.2	7.9	7.7	8.5	8.0	7.5	8.9	7.1	6.6	5.1
Harrison	7.5	6.9	7.1	7.0	6.9	6.4	6.5	5.9	6.0	6.9	5.6	5.4	4.4
Henry	17.8	17.6	20.3	18.7	17.5	15.1	14.3	13.9	12.7	10.8	8.3	7.9	5.6
Howard	8.9	8.7	7.0	7.0	7.1	7.2	7.4	6.6	6.1	7.1	5.3	4.6	4.3
Humboldt	8.5	8.0	8.0	7.8	8.1	7.7	7.2	7.3	7.2	7.4	6.9	6.0	4.8
Ida	10.7	10.5	10.0	11.0	10.1	10.1	8.8	8.1	8.0	8.2	6.3	6.2	3.6
Iowa	16.8	16.5	15.0	15.0	16.6	14.7	15.3	12.9	13.1	16.0	14.9	11.0	7.8
Jackson	8.7	8.2	8.5	8.8	7.5	7.3	6.7	6.4	6.3	8.3	6.9	6.9	7.9
Jasper	11.9	11.9	13.0	13.3	13.1	14.3	13.2	12.2	12.6	14.9	13.6	13.9	11.8

Table 3. Average Number of Employees Per Business Establishment in Iowa Counties, 1965-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Jefferson	11.5	10.7	11.6	12.6	11.9	11.3	9.6	10.3	9.6	13.9	11.2	12.5	11.5
Johnson	17.4	17.3	17.5	18.0	17.4	13.0	12.3	12.1	11.5	12.9	11.4	11.5	9.3
Jones	8.4	7.6	7.8	8.0	7.6	7.3	7.1	7.0	7.1	8.3	6.9	6.7	5.1
Keokuk	7.0	6.4	6.0	6.0	6.3	5.7	6.2	5.7	4.9	6.2	5.2	4.9	3.7
Kossuth	8.4	8.4	8.8	9.3	8.7	8.7	8.5	7.9	7.9	8.7	6.7	6.3	5.2
Lee	14.0	14.0	14.2	14.4	13.4	12.5	12.1	12.4	12.5	16.4	12.8	14.6	12.2
Linn	19.2	19.4	18.9	19.4	18.9	17.8	17.6	16.9	16.5	21.5	19.8	20.5	17.3
Louisa	13.3	12.9	12.8	11.9	12.1	11.8	8.7	5.8	5.4	8.4	7.0	6.1	4.7
Lucas	14.8	13.5	12.0	13.6	12.9	12.7	12.8	11.7	11.9	10.7	9.2	8.6	5.9
Lyon	6.8	6.4	6.3	6.0	5.9	5.8	5.5	5.3	5.3	6.7	5.1	4.8	4.1
Madison	7.0	6.5	6.8	6.7	6.7	6.4	6.3	6.1	6.0	7.3	6.3	6.1	4.8
Mahaska	10.2	9.6	9.7	10.5	9.7	9.6	8.9	8.7	7.7	10.1	9.3	8.5	6.5
Marion	17.4	16.9	17.1	17.9	17.4	15.2	14.7	13.8	13.1	14.3	10.7	9.1	7.1
Marshall	14.7	14.7	15.3	15.2	14.5	13.7	13.4	13.6	13.4	15.8	15.0	16.3	12.4
Mills	12.6	12.9	14.5	14.0	13.4	7.7	7.7	7.3	8.3	8.2	7.0	6.8	4.8
Mitchell	7.9	7.8	7.1	7.4	7.2	6.6	6.9	6.6	6.2	6.6	5.0	4.8	3.4
Monona	9.4	7.9	8.2	8.1	7.3	6.7	6.6	6.4	6.5	6.7	4.9	4.8	3.5
Monroe	10.6	10.3	7.8	7.9	6.6	6.9	7.4	6.7	6.5	10.0	8.2	6.2	5.0
Montgomery	11.9	11.3	11.6	12.3	12.1	11.4	11.0	9.9	10.0	11.2	9.4	7.3	6.1
Muscatine	18.8	17.9	17.8	18.5	17.7	17.5	16.3	16.4	15.8	17.8	15.4	14.1	10.3
O'Brien	9.6	8.9	9.5	9.2	9.2	8.7	8.0	7.3	7.4	7.9	6.1	6.2	4.5
Osceola	8.1	8.0	7.6	7.4	7.9	7.0	6.4	6.2	6.0	7.1	7.0	6.2	4.9
Page	11.2	11.0	9.9	11.4	10.5	10.2	10.2	9.5	9.5	10.3	7.5	7.7	6.2
Palo Alto	7.2	6.5	6.7	6.5	6.8	6.1	6.2	5.7	6.0	7.8	5.7	5.8	4.1
Plymouth	11.4	11.1	11.5	9.8	9.9	9.1	9.0	8.5	8.6	9.6	7.1	6.7	5.2
Pocahontas	8.3	8.9	7.9	7.6	7.6	7.2	6.5	6.6	6.2	6.9	7.3	6.3	4.6
Polk	19.4	19.2	19.3	19.4	19.5	19.2	17.9	17.7	17.4	19.4	18.0	19.0	15.3
Pottawattamie	12.4	12.5	12.4	12.4	12.1	12.3	11.6	10.4	10.4	11.9	10.9	11.5	8.5
Poweshiek	14.6	14.4	15.0	15.1	15.2	13.1	12.1	10.9	11.4	11.8	10.3	9.3	6.6
Ringgold	7.7	6.6	5.9	5.8	5.4	5.9	5.8	5.8	5.8	6.9	5.4	4.7	3.6
Sac	7.0	6.8	6.7	6.2	6.5	5.8	5.5	5.2	5.2	6.7	7.1	5.8	4.5
Scott	15.4	15.2	15.7	15.5	15.4	14.9	14.8	14.9	14.6	18.5	16.9	17.1	15.0
Shelby	9.6	8.8	8.7	9.0	9.1	8.4	8.4	8.2	7.7	8.4	7.4	8.2	5.5
Sioux	12.6	12.8	13.1	13.5	12.5	12.2	11.1	10.9	10.7	10.5	7.9	7.1	5.8
Story	13.4	13.1	14.1	13.7	13.9	11.6	11.9	11.9	11.1	12.4	9.7	9.5	8.1
Tama	10.1	8.1	9.0	9.1	9.1	8.0	8.2	7.5	7.4	7.9	6.1	5.3	4.2
Taylor	7.7	7.1	8.3	10.0	8.1	8.1	6.2	5.7	5.5	7.2	4.8	6.3	4.0
Union	11.5	11.5	10.9	11.2	10.5	10.7	10.1	8.8	8.3	9.3	7.6	7.5	5.9
Van Buren	7.3	6.3	6.1	6.3	5.6	6.1	6.0	5.8	5.6	6.1	5.0	5.5	4.4
Wapello	13.9	13.4	14.0	13.9	13.5	12.3	11.9	11.9	11.8	14.9	12.6	14.6	13.1
Warren	9.1	8.8	8.9	8.5	8.7	8.3	8.3	7.8	8.0	8.8	6.7	7.1	4.5
Washington	9.6	8.7	8.1	7.7	7.6	7.2	7.3	7.2	7.5	9.7	7.9	6.0	4.9
Wayne	8.0	7.4	7.3	7.0	6.8	7.1	6.8	7.3	7.2	7.5	5.5	4.7	4.1
Webster	12.9	12.8	12.8	12.8	12.5	11.8	11.4	10.9	11.4	13.6	12.2	13.8	10.9
Winnebago	19.3	18.7	16.1	14.6	20.1	19.2	17.3	17.0	17.9	13.4	15.5	11.9	6.4
Winneshiek	13.2	12.3	12.9	13.4	12.6	12.1	10.4	10.8	10.3	9.1	7.7	7.6	6.0
Woodbury	15.4	15.1	15.0	15.9	15.2	13.9	13.1	13.6	13.1	14.9	14.5	14.4	11.5
Worth	7.4	7.7	8.5	8.2	7.5	6.8	6.2	5.5	5.4	6.0	4.5	4.6	3.0
Wright	10.2	10.0	9.1	9.1	9.6	9.2	9.0	8.6	7.3	8.9	7.4	6.9	5.5
County Unknown	23.6	21.5	21.6	26.2	11.7	21.9	19.0	21.3	15.1	.8	3.7	5.1	5.8
State of Iowa	13.9	13.7	13.7	13.8	13.5	12.8	12.2	11.9	11.6	13.5	11.9	11.7	9.4

Table 4. Annual Payroll (in \$1,000s) for Business Establishments in Iowa Counties, 1965-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970*	1965*
Adair	32139	29074	25938	27162	26036	26686	23304	20866	18918	15174	9541	4612	2936
Adams	14091	13805	8861	8118	13744	13407	16692	16039	15616	13458	11936	3140	1528
Allamakee	57849	53450	49113	47579	46218	39848	39402	39272	34648	26760	17388	10800	5340
Appanoose	56042	53704	50572	47089	42965	41869	38271	36798	34504	31398	23652	12808	5792
Audubon	21649	19649	16236	15360	13824	12875	11815	10869	11281	11839	7687	5264	3372
Benton	57502	53805	53989	51418	47340	46551	42351	38742	36788	36323	22573	11284	7820
Black Hawk	1133480	1077229	1014286	994812	931286	867362	752675	668031	727039	863624	494660	275864	183904
Boone	121916	112140	100722	99498	99321	68421	62450	68239	62651	50665	32460	18636	11820
Bremer	146059	135594	142157	130897	139673	112161	97510	93285	91621	65188	41718	24388	13404
Buchanan	78313	72369	62487	59029	57275	44834	39315	35090	34082	32463	19551	7820	5520
Buena Vista	123373	111783	105588	100198	94194	93041	84419	78776	74412	64704	29573	21016	12960
Butler	32669	30802	26105	27250	25607	23465	21658	18279	19429	20993	12692	5604	3944
Calhoun	35785	33866	32012	30141	28370	25896	24724	23807	22373	21135	12768	6204	4912
Carroll	150460	143540	123639	116062	102792	99249	97095	93166	85146	74621	39759	17424	12436
Cass	81029	70785	65676	70463	69545	68146	60739	54224	52208	40911	26162	13884	9132
Cedar	50799	47771	44312	42948	40268	37644	34078	28322	29770	27517	16389	8052	5460
Cerro Gordo	352015	346095	336236	321552	301522	270657	250277	233740	231054	197003	123300	80576	53760
Cherokee	77032	75518	69197	65447	62451	51289	58288	49175	50292	47439	28956	17280	8600
Chickasaw	66846	63028	58623	57228	52645	49511	45439	43884	44095	37281	22831	7428	5324
Clarke	37167	40322	38348	39317	37227	33431	31265	27083	24015	20675	8061	4540	3008
Clay	118843	108950	99896	97674	89504	83257	73711	68394	68533	73446	41487	22652	12548
Clayton	69059	67522	62286	63163	58724	56107	49533	41957	38374	37311	22753	9600	6888
Clinton	340005	334296	315286	304221	289800	269095	233156	217812	235620	232129	148380	94044	60180
Crawford	85633	79119	71504	70015	74773	75211	76026	72868	72622	62404	23237	17064	11376
Dallas	128885	121895	100126	85518	71459	80048	73972	65791	65306	60744	41698	18452	11736
Davis	22753	18124	16711	16850	15800	15400	13261	12382	12289	10795	6211	3144	1884
Decatur	24899	23571	20956	20204	19646	18361	18983	23864	19083	13996	9728	5408	2740
Delaware	63047	54239	51818	51023	46346	44466	36869	35814	33058	33151	17276	10328	5912
Des Moines	413350	393819	383674	369599	350848	331216	314558	288081	271525	256139	153840	119716	72948
Dickinson	116143	97279	86879	82778	78960	62793	58748	49489	50902	36617	22915	10496	5476
Dubuque	946592	884106	833673	792484	742273	725479	672956	611739	625528	587737	360465	199452	125416
Emmet	51053	47754	40786	38943	36629	34058	32664	30734	30105	52111	29052	16100	10012
Fayette	94210	88845	81788	78504	74773	67784	57493	55509	56315	48576	29335	18036	11744
Floyd	97361	84791	75053	70384	72571	68176	59351	56137	50703	71805	71865	27284	24412
Franklin	41495	37311	36733	39041	37090	34868	33859	34962	35297	34971	22724	8308	6132
Fremont	20424	19834	18214	19256	16381	13962	13821	13655	13792	12143	13409	3552	2364
Greene	37008	32123	27949	28401	27553	27591	26249	23782	24001	23250	13085	8632	4996
Grundy	41278	40161	34927	32346	28308	28702	26514	26093	25993	22176	16187	8140	4764
Guthrie	23256	19777	23096	20562	19313	18921	17537	15208	14772	12167	7446	4364	2604
Hamilton	104530	98440	104227	97097	94489	87423	79960	77261	61611	47890	27277	20360	11452
Hancock	54471	54242	47276	43770	44950	43395	36525	35693	35299	28936	14918	5952	3560
Hardin	100379	93834	83045	77989	71781	69444	72328	72020	69187	62891	36293	18956	10936
Harrison	33879	32734	31488	28455	27241	27203	24947	23285	21993	20125	11549	6364	4448
Henry	157839	148590	157133	140467	129549	116217	107028	90537	78681	53455	30572	14872	8508
Howard	36915	32057	25900	24582	22715	23545	21662	21690	20576	18203	9793	4728	4004
Humboldt	46342	40472	39836	36958	37033	34576	31470	29303	28742	26829	17696	8484	5612
Ida	52533	48163	41617	41254	38662	38972	33458	30397	27992	19579	11557	6824	3276
Iowa	168091	157809	127555	110197	108689	104635	90786	81153	81919	71314	45313	18652	10632
Jackson	63967	57822	52011	49782	42285	40517	39504	35068	34184	33596	20276	12760	12776
Jasper	216434	215960	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 4. Annual Payroll (in \$1,000s) for Business Establishments in Iowa Counties, 1965-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970*	1965*
Jefferson	136517	126405	116595	114175	103515	93185	77075	72653	63863	51082	27639	20960	16308
Johnson	727698	716361	614270	588235	564413	385299	360928	342595	309862	205248	112115	64124	37012
Jones	60329	54455	52480	50049	45380	43772	42071	40459	40094	35808	20966	12236	7412
Keokuk	27724	26140	26254	24367	23619	21866	22232	19959	17345	17208	9466	5840	3732
Kossuth	70633	70549	72222	72114	78329	66638	61939	57410	60527	51736	30520	14344	9632
Lee	310258	295026	285398	270771	255235	240114	219692	227999	226607	205857	114387	75676	48396
Linn	2258207	2155569	1955569	1942939	1835284	1669391	1511187	1410199	1325977	1148551	655800	401820	257536
Louisa	49123	47757	42899	40848	38241	38442	27393	17716	13688	19046	11158	6060	3600
Lucas	52034	49377	53086	47043	43906	42049	43305	40048	35041	27476	16166	9292	5400
Lyon	31545	29135	27892	24863	22336	21133	18645	17419	17148	17205	9408	5276	4088
Madison	31713	27459	24779	24411	22284	21675	20051	19183	17254	16468	9306	5668	2956
Mahaska	94003	90453	81046	78456	72868	70221	63374	61031	55093	49095	34134	20408	13140
Marion	282487	269689	239340	233695	212493	186520	172293	148628	144951	102243	53551	20264	13040
Marshall	308183	309324	322512	290645	268722	254205	239401	239424	234490	207737	135460	83872	48024
Mills	55476	57712	50540	47492	49576	19693	19123	17943	22981	22716	11657	7016	4372
Mitchell	42726	37377	33757	33289	29271	28411	25835	24161	22360	18684	10535	5572	3244
Monona	37475	32004	31514	28757	26416	23518	22435	20822	20833	16823	10522	4672	3024
Monroe	36272	31535	20555	16646	14819	15469	16040	14525	14846	19307	10868	3940	2484
Montgomery	69813	65743	63427	61579	58860	52529	50523	46845	47456	40180	23267	12560	8508
Muscatine	471408	446009	396481	394184	368785	352316	327587	317417	299711	240526	130557	62596	33940
O'Brien	71686	65561	67190	61576	56499	53840	47527	43527	41668	35886	20392	11724	7396
Osceola	26666	27523	23887	23478	20722	19313	17321	15088	14537	14124	9436	5544	3748
Page	106684	90989	84106	84964	81194	73325	74808	68149	65559	54078	24921	16340	11048
Palo Alto	34132	31357	26735	25275	24063	22473	21099	19527	19720	20124	10999	6944	4448
Plymouth	137119	126517	114597	107987	100102	89934	84510	76831	68593	56938	29906	14888	8808
Pocahontas	39583	37961	33351	32874	32896	28329	27585	25829	26136	21134	15798	9108	5276
Polk	5026489	4701569	4334406	4265583	3897767	3673450	3335786	3089390	2893922	2137263	1289343	729548	462480
Pottawattamie	403321	393227	359003	349807	325738	317765	305655	266205	249345	191875	119993	72124	43632
Poweshiek	160501	156167	143352	148965	134570	129865	112442	101764	93151	62559	37336	19756	10940
Ringgold	13726	10900	10354	9514	9120	8789	7603	7371	7080	7287	3781	1996	1588
Sac	36529	31704	31427	28167	25872	24488	22016	21022	21278	29218	23162	9904	6336
Scott	1476394	1403321	1367634	1298962	1214937	1175716	1113791	1060495	1032208	954959	512614	287576	189496
Shelby	57371	52314	49119	46297	42397	41738	38264	37170	34619	28425	17590	13992	6312
Sioux	199953	185008	160390	149378	137562	122377	108767	101789	101495	78015	43521	19008	12516
Story	381480	360073	340207	338109	328564	257841	232284	216567	213503	179020	92946	43712	29000
Tama	60697	47865	45314	51257	47775	48920	39732	38909	38143	32623	20633	9288	6456
Taylor	16436	16175	17876	20741	17196	16387	11142	9035	9798	9717	5066	4076	2084
Union	61735	59790	54028	52829	49583	48867	43494	40108	37677	31722	15860	11184	6784
Van Buren	20937	17849	14803	15078	14054	12293	12465	10960	11104	8501	5506	2944	2228
Wapello	239926	225576	221039	217403	207601	176583	161703	146865	169386	157977	84461	74252	55204
Warren	87581	79809	73207	67947	62183	59272	55677	50401	46540	40174	24596	11028	5284
Washington	98734	84889	70049	66089	61113	59505	55353	51878	53947	53396	29375	13752	8256
Wayne	22155	20086	18394	17941	17063	15797	12933	13662	14501	11520	6260	3196	2640
Webster	288603	297453	266266	250091	228351	211240	190798	178803	182838	198596	113450	87048	56256
Winnebago	126509	111727	95926	97568	102951	103548	86818	80841	76704	43896	42896	21164	7532
Winneshiek	119473	109686	103536	96568	87644	82468	76353	70367	66916	46830	27800	13720	8592
Woodbury	850085	809379	755076	732688	692475	624599	557121	564218	543905	471544	316259	182880	122408
Worth	21417	19877	19223	20997	17718	15537	13870	12220	11745	8929	5677	2724	1672
Wright	77124	74145	65039	66873	68411	64239	57865	54992	43765	42039	29109	14784	9396
County Unknown	4732	4811	4312	16684	11129	12714	10069	9523	9517	7015	8959	49204	34556
State of Iowa	21918291	19235845	17447939	14727611	13265591	6797939	2515516	20709355	18631850	16108393	13727312	11454080	3941996

Table 5. Adjusted Annual Payroll (in 1993 \$1,000s) for Business Establishments in Iowa Counties, 1965-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970*	1965*
Adair	32139	29912	27448	29914	30169	32425	29424	27312	25124	25983	25042	16771	13166
Adams	14091	14203	9377	8941	15926	16290	21076	20993	20738	23045	31328	11418	6852
Allamakee	57849	54990	51971	52400	53555	48418	49750	51403	46013	45822	45638	39273	23946
Appanoose	56042	55251	53515	51860	49786	50874	48322	48165	45822	53764	62079	46575	25973
Audubon	21649	20215	17181	16916	16019	15644	14918	14226	14981	20272	20176	19142	15121
Benton	57502	55355	57131	56628	54855	56563	53473	50709	48855	62197	59247	41033	35067
Black Hawk	1133480	1108260	1073319	1095608	1079126	1053903	950347	874386	965523	1478808	1298320	1003142	824682
Boone	121916	115370	106584	109579	115088	83136	78851	89318	83202	86755	85197	67767	53004
Bremer	146059	139500	150431	144160	161846	136283	123119	122101	121675	111623	109496	88684	60108
Buchanan	78313	74454	66124	65010	66367	54476	49640	45929	45262	55587	51315	28436	24753
Buena Vista	123373	115003	111733	110350	109147	113051	106590	103110	98821	110795	77619	76422	58117
Butler	32669	31689	27624	30011	29672	28512	27346	23925	25802	35947	33312	20378	17686
Calhoun	35785	34842	33875	33195	32874	31465	31217	31161	29712	36190	33512	22560	22027
Carroll	150460	147675	130835	127822	119110	120594	122595	121945	113076	127776	104354	63360	55767
Cass	81029	72824	69498	77602	80585	82802	76691	70974	69333	70053	68667	50487	40951
Cedar	50799	49147	46891	47300	46660	45740	43028	37071	39535	47118	43016	29280	24484
Cerro Gordo	352015	356065	355805	354132	349388	328866	316006	305942	306845	337334	323622	293004	241076
Cherokee	77032	77693	73224	72078	72365	62320	73596	64365	66789	81231	76000	62836	38565
Chickasaw	66846	64844	62035	63026	61002	60159	57372	57440	58559	63837	59924	27011	23874
Clarke	37167	41484	40580	43301	43137	40621	39476	35449	31892	35402	21157	16509	13489
Clay	118843	112088	105710	107570	103713	101163	93069	89521	91013	125764	108890	82371	56269
Clayton	69059	69467	65911	69563	68046	68174	62542	54918	50961	63889	59719	34909	30888
Clinton	340005	343926	333636	335045	335805	326968	294389	285094	312908	397481	389449	341978	269865
Crawford	85633	81398	75666	77109	86643	91386	95992	95377	96444	106856	60990	62051	51013
Dallas	128885	125406	105953	94183	82803	97264	93399	86114	86728	104014	109444	67098	52628
Davis	22753	18646	17684	18557	18308	18712	16744	16207	16320	18485	16302	11433	8448
Decatur	24899	24250	22176	22251	22765	22310	23968	31236	25343	23966	25533	19665	12287
Delaware	63047	55801	54834	56193	53703	54029	46552	46877	43902	56765	45344	37556	26511
Des Moines	413350	405164	406004	407047	406545	402450	397169	377069	360591	438594	403780	435331	327121
Dickinson	116143	100081	91935	91165	91495	76298	74177	64776	67599	62700	60144	38167	24556
Dubuque	946592	909574	882194	872780	860108	881505	849692	800705	830714	1006399	946102	725280	562404
Emmet	51053	49130	43160	42889	42444	41383	41242	40228	39980	89231	76252	58545	44897
Fayette	94210	91404	86548	86458	86643	82362	72592	72656	74788	83178	76995	65585	52664
Floyd	97361	87234	79421	77515	84092	82838	74938	73478	67335	122954	188622	99215	109471
Franklin	41495	38386	38871	42997	42978	42367	42751	45762	46875	59882	59643	30211	27498
Fremont	20424	20405	19274	21207	18981	16965	17451	17873	18316	20793	35194	12916	10601
Greene	37008	33048	29576	31279	31927	33525	33143	31128	31874	39812	34344	31389	22404
Grundy	41278	41318	36960	35623	32802	34875	33477	34153	34519	37973	42486	29600	21363
Guthrie	23256	20347	24440	22645	22379	22990	22143	19906	19618	20834	19543	15869	11677
Hamilton	104530	101276	110293	106935	109489	106225	100960	101127	81821	82003	71593	74036	51354
Hancock	54471	55805	50028	48205	52086	52728	46117	46719	46878	49548	39155	21644	15964
Hardin	100379	96537	87878	85891	83176	84379	91323	94267	91882	107690	95257	68931	49040
Harrison	33879	33677	33321	31338	31565	33053	31499	30478	29207	34461	30312	23142	19946
Henry	157839	152870	166278	154699	150115	141211	135136	118504	104490	91533	80241	54080	38152
Howard	36915	32980	27407	27073	26321	28609	27351	28390	27325	31170	25703	17193	17955
Humboldt	46342	41638	42154	40703	42912	42012	39735	38355	38170	45940	46446	30851	25166
Ida	52533	49550	44039	45434	44800	47354	42245	39787	37174	33526	30333	24815	14691
Iowa	168091	162355	134979	121362	125943	127139	114629	106221	108790	122113	118932	67825	47677
Jackson	63967	59488	55038	54826	48998	49231	49879	45901	45397	57527	53218	46400	57291
Jasper	216434	222181	253802	223036	226986	246622	243605	221211	228712	243224	248840	207433	165865

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

Table 5. Adjusted Annual Payroll (in 1993 \$1,000s) for Business Establishments in Iowa Counties, 1965-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970*	1965*
Jefferson	136517	130046	123381	125743	119948	113226	97317	95096	84811	87469	72543	76218	73130
Johnson	727698	736997	650021	647836	654013	468164	455717	448423	411503	351452	294265	233178	165973
Jones	60329	56024	55534	55120	52584	53186	53120	52957	53246	61315	55029	44495	33238
Keokuk	27724	26893	27782	26836	27368	26569	28071	26124	23035	29466	24845	21236	16735
Kossuth	70633	72581	76425	79421	90764	80970	78206	75144	80381	88589	80105	52160	43193
Lee	310258	303525	302008	298206	295753	291755	277389	298428	300939	352495	300228	275185	217022
Linn	2258207	2217664	2069385	2139801	2126633	2028422	1908064	1845810	1760926	1966697	1721260	1461164	1154870
Louisa	49123	49133	45396	44987	44312	46710	34587	23188	18178	32613	29286	22036	16143
Lucas	52034	50799	56176	51809	50876	51092	54678	52419	46535	47048	42430	33789	24215
Lyon	31545	29974	29515	27382	25882	25678	23542	22800	22773	29461	24693	19185	18332
Madison	31713	28250	26221	26884	25822	26337	25317	25109	22914	28199	24425	20611	13256
Mahaska	94003	93059	85763	86405	84436	85323	80018	79884	73165	84067	89591	74211	58924
Marion	282487	277458	253270	257373	246226	226634	217542	194539	192498	175074	140554	73687	58475
Marshall	308183	318235	341283	320094	311381	308876	302274	313382	311408	355714	355538	304989	215354
Mills	55476	59374	53481	52304	57446	23928	24145	23486	30519	38897	30596	25513	19605
Mitchell	42726	38454	35722	36662	33918	34521	32620	31624	29695	31993	27651	20262	14547
Monona	37475	32926	33348	31671	30610	28576	28327	27254	27667	28807	27617	16989	13561
Monroe	36272	32443	21751	18333	17171	18796	20253	19012	19716	33060	28525	14327	11139
Montgomery	69813	67637	67119	67818	68204	63826	63792	61315	63023	68801	61068	45673	38152
Muscatine	471408	458857	419557	434123	427329	428087	413620	415467	398023	411860	342669	227622	152197
O'Brien	71686	67450	71101	67815	65468	65419	60009	56973	55336	61449	53522	42633	33166
Osceola	26666	28316	25277	25857	24012	23467	21870	19749	19305	24185	24766	20160	16807
Page	106684	93610	89001	93573	94083	89095	94455	89200	87064	92599	65409	59418	49543
Palo Alto	34132	32260	28291	27836	27883	27306	26640	25559	26189	34459	28869	25251	19946
Plymouth	137119	130162	121267	118928	115993	109276	106705	100564	91093	97497	78493	54138	39498
Pocahontas	39583	39055	35292	36205	38118	34422	34830	33808	34709	36188	41465	33120	23659
Polk	5026489	4837005	4586673	4697779	4516532	4463487	4211851	4043704	3843190	3659697	3384102	2652902	2073901
Pottawattamie	403321	404555	379897	385250	377448	386106	385928	348436	331135	328553	314942	262269	195659
Poweshiek	160501	160666	151695	164058	155933	157795	141972	133199	123707	107122	97995	71840	49058
Ringgold	13726	11214	10957	10478	10568	10679	9600	9648	9402	12478	9924	7258	7121
Sac	36529	32617	33256	31021	29979	29755	27798	27516	28258	50031	60793	36015	28413
Scott	1476394	1443746	1447232	1430575	1407806	1428574	1406302	1388082	1370794	1635204	1345444	1045731	849758
Shelby	57371	53821	51978	50988	49127	50714	48313	48652	45975	48673	46168	50880	28305
Sioux	199953	190337	169725	164513	159400	148696	137332	133232	134788	133587	114228	69120	56126
Story	381480	370445	360007	372367	380723	313294	293288	283465	283537	306541	243953	158953	130045
Tama	60697	49244	47951	56450	55359	59441	50167	50928	50655	55861	54155	33775	28951
Taylor	16436	16641	18916	22843	19926	19911	14068	11826	13012	16639	13297	14822	9345
Union	61735	61512	57172	58182	57454	59377	54917	52497	50036	54318	41627	40669	30422
Van Buren	20937	18363	15665	16606	16285	14937	15739	14346	14746	14557	14451	10705	9991
Wapello	239926	232074	233904	239431	240557	214560	204170	192232	224948	270509	221682	270007	247552
Warren	87581	82108	77468	74831	72054	72019	70299	65970	61806	68791	64556	40102	23695
Washington	98734	87334	74126	72785	70815	72303	69890	67903	71643	91432	77100	50007	37022
Wayne	22155	20665	19465	19759	19772	19194	16330	17882	19258	19726	16430	11622	11839
Webster	288603	306022	281763	275431	264601	256671	240907	234035	242813	340062	297769	316538	252269
Winnebago	126509	114945	101509	107454	119294	125818	109619	105813	101865	75164	112588	76960	33776
Winneshiek	119473	112846	109562	106352	101557	100204	96405	92103	88866	80188	72966	49891	38529
Woodbury	850085	832694	799022	806925	802404	758930	703436	738505	722317	807438	830076	665018	548915
Worth	21417	20450	20342	23124	20531	18878	17513	15995	15598	15289	14900	9905	7498
Wright	77124	76281	68824	73649	79271	78055	73062	71979	58121	71985	76402	53760	42135
County Unknown	4732	4950	4563	18374	12896	15448	12713	12465	12639	12012	23514	178924	154960
State of Iowa	21918291		20355392		20217774		18595468		17616987		17842360		11280341
		21305921		20519659		19572774		17967686		19613151		14334531	



Table 6. Average Annual Payroll Per Employee for Business Establishments in Iowa Counties, 1965-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Adair	18230	16417	15448	14957	14266	14332	13573	13099	11898	9911	7147	4231	3450
Adams	14091	13588	11346	10529	13448	13196	12752	12924	11786	9471	6505	4255	2899
Allamakee	14168	13091	13522	13582	12725	11821	11613	11970	11627	8652	7054	4468	3384
Appanoose	17191	16862	16219	15707	14841	14398	14164	14159	13703	10301	7801	4524	3047
Audubon	13940	13047	12144	11870	11836	11845	10521	9827	9224	8273	6719	4290	3287
Benton	15660	15238	15447	14720	14127	14009	13845	12461	12328	10175	7346	4598	3568
Black Hawk	22295	21572	20865	21110	20655	20282	18762	17047	17574	15557	10222	6527	5061
Boone	18829	18901	16613	15474	16712	14620	13659	15067	13115	10269	7367	4744	3691
Bremer	19140	19329	18305	17365	17578	16575	16578	15468	15553	11199	8302	5694	4121
Buchanan	18082	17895	16757	15877	15509	13727	12984	12659	11445	10598	7631	4357	3356
Buena Vista	16432	15569	15269	14849	14462	14551	13207	12647	11874	10709	7550	5396	4126
Butler	13890	14001	12930	13659	13186	12331	11187	10727	10296	9006	7614	4017	3243
Calhoun	14666	14473	13349	13231	13369	12682	12203	12537	11544	9302	6508	3892	3506
Carroll	16900	16957	15344	15368	14413	14178	14792	13974	14018	10419	7690	4430	3523
Cass	16144	14251	13728	14528	14121	14251	13340	13031	12466	9079	6969	4554	3484
Cedar	14014	14703	14135	13384	12703	12804	12570	10999	11188	10124	6918	4258	3344
Cerro Gordo	18655	18988	17171	16778	15934	15270	14855	14150	13722	11394	8276	5656	4354
Cherokee	17623	16700	15755	15854	16104	14953	15800	13458	13685	12105	8292	5455	3734
Chickasaw	17291	16426	15848	15405	15626	15067	14820	14816	14003	10847	7774	4400	3503
Clarke	16034	14588	14325	15504	13503	15279	14231	14398	12521	10613	6449	4177	4005
Clay	17788	16325	15879	15903	14591	14535	14156	12998	12536	11010	8331	5417	4077
Clayton	16181	16200	14855	14587	13737	14020	12936	12622	11431	10636	7607	3975	3125
Clinton	19011	18222	18220	18075	17462	16963	15541	15051	15399	12898	9154	6064	4624
Crawford	16907	15974	15457	14663	16294	15191	15487	15264	14429	12397	7481	5344	4321
Dallas	17595	17587	16283	16084	14578	15525	15136	14040	13017	12205	8400	4979	3740
Davis	15584	14327	14283	14172	12930	13426	12522	12235	12119	9453	6795	3906	2976
Decatur	11375	10953	10648	9463	9848	9679	8946	9333	8433	6633	6325	3717	3146
Delaware	17421	16283	16388	16229	16222	15898	14957	13469	13092	9794	7685	5237	3449
Des Moines	21361	20891	20139	19350	18374	18185	18154	17545	16933	13586	9133	5897	4688
Dickinson	17624	17550	15603	16030	15488	14468	13720	12466	13388	9905	7307	4579	3397
Dubuque	21027	20590	19469	18781	18141	18036	18377	16477	17299	13920	10220	6619	5187
Emmet	17063	16084	14351	14115	13981	13084	12211	12284	10888	13216	8914	5740	4172
Fayette	15416	15786	14862	14919	14253	13919	13171	12610	12426	9715	6862	4682	3485
Floyd	19886	16807	15135	14618	14877	15137	14088	14027	13304	13472	10058	6120	5094
Franklin	17034	16272	15305	15598	16008	14907	14863	14960	13340	11649	7450	4794	3480
Fremont	15368	15544	13141	12984	13835	11802	11155	11621	11708	10060	6701	4005	3098
Greene	16455	15348	14542	13963	12797	12911	12650	12590	11742	9915	7665	4817	3257
Grundy	16903	17802	16688	15024	13795	13826	13688	13027	12107	10098	7285	4697	3566
Guthrie	13320	12126	13444	12561	11558	11467	10899	9805	10090	7515	6118	3876	2966
Hamilton	17401	17180	17470	16426	14979	15354	14940	15963	12914	9930	7287	5171	3707
Hancock	15835	16914	16185	15161	15695	15291	14000	13318	12973	10349	7245	4197	3219
Hardin	16967	16670	15190	14665	13943	13678	13565	13965	13860	10968	7883	4822	3680
Harrison	13465	13651	12921	12486	11752	12542	11745	12084	11024	9086	6360	3793	2919
Henry	17181	17068	16261	15530	15320	16231	15958	14928	13304	10248	8150	4559	3544
Howard	15142	13883	14176	13880	12973	13563	11760	12538	12455	9043	6460	4010	3277
Humboldt	16888	15890	15852	15209	14387	14365	14144	12625	12097	11018	7809	5050	3881
Ida	18986	18032	17709	16210	15527	15953	15782	15430	14370	10160	7187	5062	3689
Iowa	20686	20905	19098	17626	16128	17521	14695	14915	14071	11467	8122	4807	3574
Jackson	13795	13372	12372	12016	11569	11400	11740	10701	10538	8742	6330	4455	3823
Jasper	22512	22649	23958	20123	19865	19067	19353	17751	17656	13310	10027	6438	5037

Table 6. Average Annual Payroll Per Employee for Business Establishments in Iowa Counties, 1965-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Jefferson	18591	19219	17418	16528	16600	16075	14931	13457	13743	10687	7382	5416	4231
Johnson	18236	18598	16533	15713	16180	14853	14793	14516	13809	10642	7463	4966	3853
Jones	16148	16021	15190	14524	13912	13489	13471	12331	11436	9821	6783	4644	3560
Keokuk	14810	14628	15308	14530	13299	13778	12589	12200	11896	9292	6103	4348	3231
Kossuth	15752	15475	15357	15166	16903	14547	13823	13451	13181	10535	8497	4761	3553
Lee	21029	20214	19370	18571	19050	18730	17601	17546	17036	12934	9500	6151	4620
Linn	24196	23454	22734	22333	21844	21242	19712	19236	18631	14238	10144	6901	5279
Louisa	15903	16479	15111	15455	14059	14485	13877	14230	10959	10890	7669	5021	3568
Lucas	19158	19020	23710	18333	16777	17283	17924	18080	14558	12014	8132	4765	3860
Lyon	14026	13775	13527	13410	13116	12808	11668	11675	11106	9580	6593	4494	3611
Madison	14696	14060	12636	12486	12197	11838	11484	11514	10502	9267	6301	4137	2927
Mahaska	16135	16615	14926	13820	13600	13315	12782	12859	12513	9182	6945	4610	3674
Marion	22836	22745	20162	19314	18265	18814	18273	16443	16312	11925	8598	4670	3679
Marshall	22462	22392	22799	20931	19956	19587	18805	18362	17767	14107	9971	6439	4707
Mills	18249	19610	15508	14726	16492	11456	11342	11090	11701	10766	7065	5037	3907
Mitchell	16184	14969	14071	13928	12782	13196	11950	11666	11646	9572	6749	4026	3196
Monona	13988	14501	13810	12438	12466	12345	11685	11231	10783	8540	6715	3685	3105
Monroe	17591	16024	14557	11512	11884	12435	12033	12185	12060	10810	7542	4033	2905
Montgomery	16867	16827	16280	15254	14722	14368	14337	13839	12833	10020	7155	4669	3688
Muscatine	25428	24973	22950	22220	21862	21303	20571	19438	19172	15074	9734	6241	4435
O'Brien	13775	13756	13417	13024	12245	11888	11643	11406	10662	8727	6496	4323	3484
Osceola	16025	16510	15441	15528	13232	13944	13606	12357	11705	9543	6818	4738	3454
Page	17793	16222	15680	14425	14803	14437	14489	13756	12504	10356	6485	4411	3532
Palo Alto	14000	14260	12719	12575	11524	11686	11116	10830	10319	8889	6303	4094	3283
Plymouth	18890	18186	16544	17755	16667	15991	14785	14579	13379	10432	7454	4639	3386
Pocahontas	15993	15507	14513	14768	14912	13219	13703	10830	11585	9681	6666	4837	3531
Polk	24247	23213	21748	21845	20361	19897	19400	18512	17805	13862	9858	6431	4985
Pottawattamie	17724	17060	16123	15836	15309	14711	14817	14544	14022	10626	7475	5029	3873
Poweshiek	19569	19448	18227	18890	17127	18786	17738	17201	16138	10941	8003	5088	3892
Ringgold	14494	12616	12926	11775	12702	11580	10574	10029	9183	7599	5062	3662	3208
Sac	13524	12203	12521	12110	10935	11639	10494	10623	10171	10321	7721	4384	3264
Scott	22679	21999	21262	20863	19944	19985	19252	18771	18318	15456	10154	6769	5089
Shelby	14218	14753	14270	12889	12089	12799	11898	11616	11571	9378	6446	4913	3470
Sioux	15982	15092	13206	12600	12813	12475	12413	11804	11717	9129	7349	4350	3492
Story	16250	15791	14053	14792	14810	13907	12634	11587	12119	9898	7288	4661	3673
Tama	15405	15009	13769	15269	14198	16018	13337	13123	12469	9946	7887	4468	3452
Taylor	12672	12726	12448	11633	11627	11110	10029	9601	9788	8031	5850	3544	2790
Union	15445	15167	14458	13605	13300	13315	12770	13338	12435	9360	6174	4544	3345
Van Buren	15742	16300	13835	14278	14504	12005	12591	11393	10812	8342	6207	3915	3082
Wapello	20216	19756	19088	18916	18777	17898	17110	15346	16883	13716	8626	6241	4937
Warren	14817	14108	13277	12738	12103	12277	11754	11298	10386	10044	7952	4605	3520
Washington	16988	15978	14879	14795	14137	14127	13560	12753	12200	10176	7021	4997	3552
Wayne	14859	14027	13120	13115	13998	13286	11345	11162	11694	7989	6054	3756	3267
Webster	18995	19700	17876	16873	16067	15606	14573	13907	13171	12095	8070	5815	4551
Winnebago	20001	18200	18359	20528	15118	16523	15774	14480	12706	9226	8059	5519	3578
Winneshiek	15301	15567	14154	12962	12862	12550	13509	12134	11621	10911	8208	4463	3434
Woodbury	19627	19543	18542	17214	17201	16948	16059	15603	15303	12365	8592	5613	4389
Worth	15644	13939	12850	15052	13875	12714	12783	12663	11470	8528	6974	3994	2959
Wright	17265	16855	16579	17311	16629	16084	14856	14525	12880	10595	8582	5244	3789
County Unknown	20051	20300	18118	20547	20686	24171	20383	19474	19745	27190	6005	6337	5307
State of Iowa	20446	19945	18873	18486	17830	17508	16838	16107	15653	12640	8910	5841	4505

Table 7. Adjusted Average Annual Payroll (in 1993 \$1,000s) Per Employee for Business Establishments in Iowa Counties, 1965-1993.

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Adair	18230	16890	16348	16472	16531	17414	17137	17145	15801	16971	18758	15386	15471
Adams	14091	13979	12006	11597	15583	16033	16101	16916	15651	16217	17072	15472	13002
Allamakee	14168	13468	14309	14959	14745	14363	14663	15667	15441	14815	18514	16249	15175
Appanoose	17191	17347	17163	17298	17197	17494	17884	18532	18198	17639	20475	16452	13663
Audubon	13940	13423	12850	13073	13715	14392	13284	12863	12249	14166	17636	15601	14738
Benton	15660	15677	16346	16212	16370	17022	17481	16310	16372	17422	19280	16721	15998
Black Hawk	22295	22193	22079	23248	23934	24643	23689	22313	23338	26638	26830	23736	22695
Boone	18829	19445	17579	17042	19365	17764	17247	19721	17417	17583	19337	17252	16553
Bremer	19140	19886	19370	19124	20368	20139	20931	20246	20654	19176	21790	20706	18478
Buchanan	18082	18411	17732	17485	17971	16680	16394	16569	15199	18148	20029	15842	15047
Buena Vista	16432	16017	16158	16353	16758	17681	16676	16553	15768	18337	19816	19621	18503
Butler	13890	14404	13682	15043	15279	14983	14125	14040	13674	15421	19983	14608	14544
Calhoun	14666	14890	14126	14572	15492	15409	15408	16409	15331	15929	17081	14153	15722
Carroll	16900	17445	16237	16926	16701	17228	18677	18291	18616	17841	20185	16110	15798
Cass	16144	14662	14527	16000	16362	17315	16844	17057	16555	15547	18292	16559	15624
Cedar	14014	15127	14957	14740	14719	15558	15872	14397	14857	17336	18158	15484	14993
Cerro Gordo	18655	19535	18170	18478	18464	18554	18756	18521	18223	19510	21721	20566	19523
Cherokee	17623	17181	16672	17461	18660	18169	19950	17615	18174	20727	21764	19835	16746
Chickasaw	17291	16900	16771	16965	18107	18308	18712	19392	18596	18573	20403	16002	15707
Clarke	16034	15009	15159	17075	15646	18565	17968	18846	16628	18174	16926	15188	17961
Clay	17788	16795	16803	17514	16908	17661	17874	17013	16648	18852	21865	19697	18281
Clayton	16181	16667	15719	16065	15917	17035	16334	16522	15181	18212	19966	14455	14015
Clinton	19011	18747	19281	19906	20234	20611	19622	19700	20450	22086	24027	22052	20737
Crawford	16907	16434	16357	16148	18881	18458	19554	19978	19162	21227	19636	19433	19374
Dallas	17595	18093	17231	17714	16892	18864	19112	18377	17287	20899	22048	18105	16771
Davis	15584	14740	15115	15607	14982	16314	15811	16015	16095	16187	17836	14202	13346
Decatur	11375	11269	11268	10422	11411	11761	11295	12216	11199	11358	16601	13515	14107
Delaware	17421	16752	17342	17873	18797	19317	18885	17630	17387	16770	20171	19045	15467
Des Moines	21361	21493	21311	21310	21291	22096	22922	22964	22488	23264	23970	21445	21020
Dickinson	17624	18055	16511	17654	17947	17580	17323	16316	17780	16960	19179	16652	15233
Dubuque	21027	21183	20602	20684	21021	21914	23203	21567	22974	23835	26825	24071	23259
Emmet	17063	16548	15186	15545	16200	15898	15418	16078	14459	22630	23397	20872	18707
Fayette	15416	16241	15727	16431	16516	16912	16630	16505	16502	16636	18011	17026	15627
Floyd	19886	17291	16016	16099	17239	18392	17787	18360	17669	23068	26399	22255	22845
Franklin	17034	16741	16196	17178	18549	18113	18767	19582	17715	19947	19555	17433	15606
Fremont	15368	15991	13906	14300	16031	14341	14085	15211	15548	17227	17588	14561	13894
Greene	16455	15790	15388	15378	14829	15688	15973	16479	15594	16977	20120	17516	14605
Grundy	16903	18315	17659	16546	15985	16799	17283	17051	16078	17292	19121	17080	15990
Guthrie	13320	12475	14226	13833	13393	13933	13762	12834	13400	12868	16058	14093	13300
Hamilton	17401	17675	18487	18091	17357	18656	18864	20894	17150	17002	19127	18805	16625
Hancock	15835	17401	17127	16697	18186	18579	17676	17432	17228	17721	19017	15264	14434
Hardin	16967	17150	16074	16151	16157	16620	17127	18279	18406	18781	20690	17535	16501
Harrison	13465	14044	13673	13751	13617	15239	14830	15816	14640	15558	16692	13791	13088
Henry	17181	17559	17208	17103	17752	19722	20149	19539	17668	17549	21392	16579	15890
Howard	15142	14283	15001	15287	15032	16480	14849	16410	16541	15484	16954	14583	14693
Humboldt	16888	16348	16774	16750	16671	17454	17858	16525	16065	18867	20497	18364	17404
Ida	18986	18551	18740	17852	17992	19384	19927	20196	19083	17398	18864	18409	16544
Iowa	20686	21507	20209	19412	18689	21289	18554	19522	18686	19635	21318	17481	16026
Jackson	13795	13758	13092	13233	13406	13852	14823	14007	13994	14969	16615	16201	17143
Jasper	22512	23302	25352	22162	23019	23168	24436	23234	23448	22791	26318	23410	22588

Table 7. Adjusted Average Annual Payroll (in 1993 \$1,000s) Per Employee for Business Establishments in Iowa Counties, 1965-1993 (continued).

County	1993	1992	1991	1990	1989	1988	1987	1986	1985	1980	1975	1970	1965
Jefferson	18591	19773	18432	18203	19235	19532	18853	17614	18251	18299	19376	19695	18975
Johnson	18236	19133	17495	17305	18749	18047	18678	18999	18339	18222	19589	18058	17280
Jones	16148	16482	16074	15995	16120	16390	17009	16141	15187	16817	17803	16886	15964
Keokuk	14810	15049	16199	16002	15410	16742	15895	15968	15799	15910	16019	15812	14489
Kossuth	15752	15920	16250	16703	19587	17675	17453	17606	17505	18039	22301	17312	15932
Lee	21029	20797	20497	20453	22074	22758	22223	22967	22624	22147	24934	22365	20718
Linn	24196	24129	24057	24595	25312	25810	24889	25178	24742	24380	26624	25095	23671
Louisa	15903	16954	15990	17021	16291	17600	17521	18625	14554	18647	20128	18257	15999
Lucas	19158	19568	25090	20191	19441	21000	22632	23665	19333	20572	21343	17328	17309
Lyon	14026	14172	14314	14769	15198	15562	14732	15282	14749	16404	17304	16342	16194
Madison	14696	14465	13371	13751	14134	14384	14500	15071	13946	15869	16537	15045	13125
Mahaska	16135	17094	15794	15220	15759	16178	16139	16832	16617	15722	18228	16763	16478
Marion	22836	23400	21335	21270	21164	22860	23072	21522	21663	20419	22568	16982	16500
Marshall	22462	23037	24126	23052	23123	23800	23743	24034	23595	24156	26171	23414	21107
Mills	18249	20175	16410	16218	19110	13920	14321	14515	15539	18435	18543	18315	17520
Mitchell	16184	15400	14890	15340	14811	16034	15088	15270	15466	16390	17714	14640	14332
Monona	13988	14919	14613	13699	14445	15001	14754	14700	14320	14623	17624	13398	13923
Monroe	17591	16485	15404	12678	13770	15109	15194	15950	16016	18511	19795	14664	13028
Montgomery	16867	17312	17228	16799	17060	17458	18102	18114	17042	17157	18779	16979	16537
Muscatine	25428	25692	24286	24471	25332	25885	25973	25442	25460	25812	25548	22696	19890
O'Brien	13775	14152	14197	14343	14189	14444	14701	14930	14160	14944	17051	15720	15622
Osceola	16025	16986	16339	17101	15333	16944	17180	16174	15543	16341	17895	17231	15490
Page	17793	16689	16592	15887	17153	17542	18295	18006	16606	17732	17020	16042	15839
Palo Alto	14000	14670	13459	13849	13354	14200	14036	14176	13704	15220	16544	14889	14720
Plymouth	18890	18710	17506	19554	19313	19430	18668	19082	17767	17863	19565	16871	15186
Pocahontas	15993	15954	15358	16265	17279	16063	17303	14175	15385	16577	17496	17589	15836
Polk	24247	23881	23014	24058	23593	24176	24495	24230	23645	23737	25875	23384	22355
Pottawattamie	17724	17552	17062	17441	17740	17874	18708	19037	18621	18195	19619	18287	17366
Poweshiek	19569	20008	19287	20804	19846	22826	22397	22515	21432	18734	21006	18501	17452
Ringgold	14494	12979	13679	12968	14719	14070	13352	13127	12195	13011	13285	13317	14386
Sac	13524	12555	13249	13337	12671	14142	13250	13904	13508	17673	20264	15943	14638
Scott	22679	22633	22499	22977	23110	24283	24308	24570	24326	26466	26650	24615	22818
Shelby	14218	15178	15101	14195	14008	15552	15023	15204	15366	16058	16918	17865	15561
Sioux	15982	15526	13975	13877	14847	15158	15674	15451	15561	15632	19289	15817	15660
Story	16250	16246	14871	16291	17161	16897	15952	15166	16095	16949	19128	16948	16472
Tama	15405	15442	14570	16816	16451	19463	16840	17176	16559	17031	20701	16246	15482
Taylor	12672	13093	13173	12812	13473	13499	12662	12567	12999	13751	15355	12889	12510
Union	15445	15604	15299	14984	15411	16179	16124	17458	16514	16028	16204	16525	15001
Van Buren	15742	16770	14640	15725	16806	14587	15898	14913	14358	14286	16292	14235	13819
Wapello	20216	20325	20199	20833	21758	21747	21603	20087	22421	23486	22639	22695	22140
Warren	14817	14514	14049	14029	14024	14917	14840	14788	13793	17198	20872	16744	15786
Washington	16988	16438	15745	16294	16381	17166	17122	16692	16201	17426	18427	18171	15930
Wayne	14859	14431	13884	14444	16220	16143	14325	14609	15531	13680	15890	13657	14652
Webster	18995	20268	18917	18583	18618	18962	18400	18203	17491	20710	21180	21146	20407
Winnebago	20001	18724	19428	22608	17517	20076	19916	18953	16873	15797	21151	20068	16046
Winneshiek	15301	16016	14978	14275	14904	15249	17057	15883	15433	18683	21543	16230	15399
Woodbury	19627	20106	19621	18958	19931	20593	20277	20423	20322	21174	22552	20410	19683
Worth	15644	14341	13598	16576	16078	15448	16141	16575	15232	14603	18305	14523	13271
Wright	17265	17341	17544	19065	19269	19543	18758	19012	17104	18141	22524	19071	16990
County Unknown	20051	20886	19172	22628	23970	29369	25735	25491	26222	46558	15760	23045	23796
State of Iowa	20446	20519	19971	20359	20660	21274	21260	21083	20787	21644	23386	21240	20200

33,600 (+3.2%), one of the larger annual increases. More than 58,500 workers were added between 1988 and 1989. The period of 1985 to 1993 (Figure 2) saw Iowa's employees increase by 224,500, a 26.5% gain.

Not surprisingly, Polk (207,302) had the most employees in 1992, followed by Linn (93,929), Scott (65,099), and Black Hawk (50,841). Thirteen counties reported fewer than 2,000 business workers; Adams (1,000) and Ringgold (947) had the least. Even though there were substantial statewide gains in employees between 1985 and 1993, five counties (Adams, Decatur, Franklin, Jasper, Kossuth) had fewer at the end of the period than at the beginning. Counties with the three greatest increases were Polk (+44,764), Linn (+22,157), and Johnson (+17,466).

### **Employees per Business Establishment**

Iowa's business establishments averaged 13.9 employees each in 1993, up slightly from 13.7 in 1992 and significantly higher than the 1985 figure of 11.6 (Table 3). Recent years have seen a trend toward larger businesses, although increases have not been consistent from one year to the next. Iowa's average number of employees per establishment was higher in 1980 than the figures for either five years earlier or later.

While there was considerable range in the average number of employees per establishment, 47 counties averaged fewer than 10; five (Benton, Butler, Fremont, Guthrie, Lyon) were below seven. In contrast, Dubuque and Muscatine had an average of at least 18 while Linn, Polk, and Winnebago reported at least 19 employees per business. All but three counties (Adams, Decatur, Jasper) averaged more employees per firm in 1993 than in 1985.

### **Annual Payroll**

Iowa's payroll from these establishments was nearly \$22 billion in 1993, more than \$1.2 billion higher (+5.8%) than in 1992 (Table 4). Pay increased annually since 1985; the total in 1993 was nearly \$8.7 billion more (or +65.2%) than the amount eight years earlier.

While the three counties (Adams, Ringgold, Taylor) with the lowest payrolls in 1993 were below \$20 million, the majority (59) of Iowa's 99 counties ranged from \$20 million to \$99 million. Another 30 counties had payrolls ranging from \$100 million to \$499 million, but the largest figures (\$700 million or more) were in Black Hawk, Dubuque, Johnson, Linn, Polk, Scott, and Woodbury. Polk's, the highest, was \$5 billion. Adams was the only county with a lower payroll in 1993 than in 1985.

Because inflation has affected the value of a dollar from year to year, comparisons of the 1993 payroll data with those for earlier years are somewhat limited. To determine whether pay was keeping pace with inflation, the figures for previous years were adjusted to 1993 dollars based on the consumer price index for each year.

After adjusting for inflation, the payroll in Iowa still was higher in 1993 than in 1992 (Table 5) but only by about half (+\$612 million, +2.9%) as much as before adjustment. This represents a real increase beyond inflation, which was not the case for every year reported. The adjusted figures show a payroll decline between 1990 and 1991 in Iowa. Also, the adjusted payroll in 1980 was higher than those for 1985 through 1988, which were difficult years in Iowa's economy.

County adjusted and unadjusted payroll figures also differ. Before adjusting for inflation, one county (Adams) had a lower payroll in 1993 than in 1985. After adjustment, seven (Adams, Crawford, Decatur, Franklin, Jasper, Kossuth, Marshall) were in this situation. In adjusted dollars, the 1993 payroll was approximately \$10 million lower in Crawford and Kossuth and \$12 million lower in Jasper than those reported for 1985.

## Pay Per Employee

Payrolls may be going up because wages and salaries are higher or because there are more workers. Dividing the annual payroll by the number of employees results in the average pay per employee. Statewide in 1993, business employees averaged \$20,446, up by \$501 (+2.5%) from the 1992 figure (Table 6). Pay per employee increased each year since 1985, for an average per person gain of \$4793 (+30.6%) over the eight years.

Pay per employee varied from \$11,375 in Decatur and \$12,672 in Taylor, the only counties below \$13,000, to more than \$24,000 in Linn, Muscatine, and Polk. All counties had higher average pay in 1993 than in 1985, but the increase in three (Adams, Crawford, Harrison) was less than \$2,500. Average pay increased more than \$6,500 in six counties; Winnebago (+\$7,295) had the largest gain.

As with total payroll, the average pay per worker for 1992 and earlier years was adjusted to 1993 dollars to account for the effects of inflation. The statewide adjusted pay averages did not increase each year as before adjustment; rather, the figures of 1989-1993 were lower than those for 1986-1988 (Table 7). In addition, the highest adjusted average pay was \$23,386 in 1975, eighteen years earlier than 1993. This may mean that pay has not kept pace with inflation, but it may also indicate a trend to more part-time workers. Each employee is counted without regard to the amount of time that person actually works.

Among the counties, the pattern of change in average pay per employee between 1985 and 1993 was quite different when the adjusted figures were compared. With the unadjusted numbers, all the counties had higher average pay in 1993 than in 1985. With adjustment for inflation, 55 counties were lower in the more recent year. While the statewide decline was \$341, 10 counties decreased by more than \$1,500 in adjusted average pay over the period, with two of these (Crawford, Wapello) down more than \$2,000. Forty-four counties had higher adjusted average pay in 1993 than in 1985; 20 increased by at least \$1,000. Gains exceeding \$2,500 occurred in Buchanan, Emmet, Mills, and Winnebago.

**Note:** These data are published in annual reports entitled COUNTY BUSINESS PATTERNS: IOWA (Washington, D.C.: U.S. Bureau of the Census; the 1993 volume was published in 1995 under CBP-93-17). More detailed data are available for each county, incorporated places with at least 2,500 residents, and the state in these reports.

Figure 1. Number of business establishments in Iowa, 1985-1993.

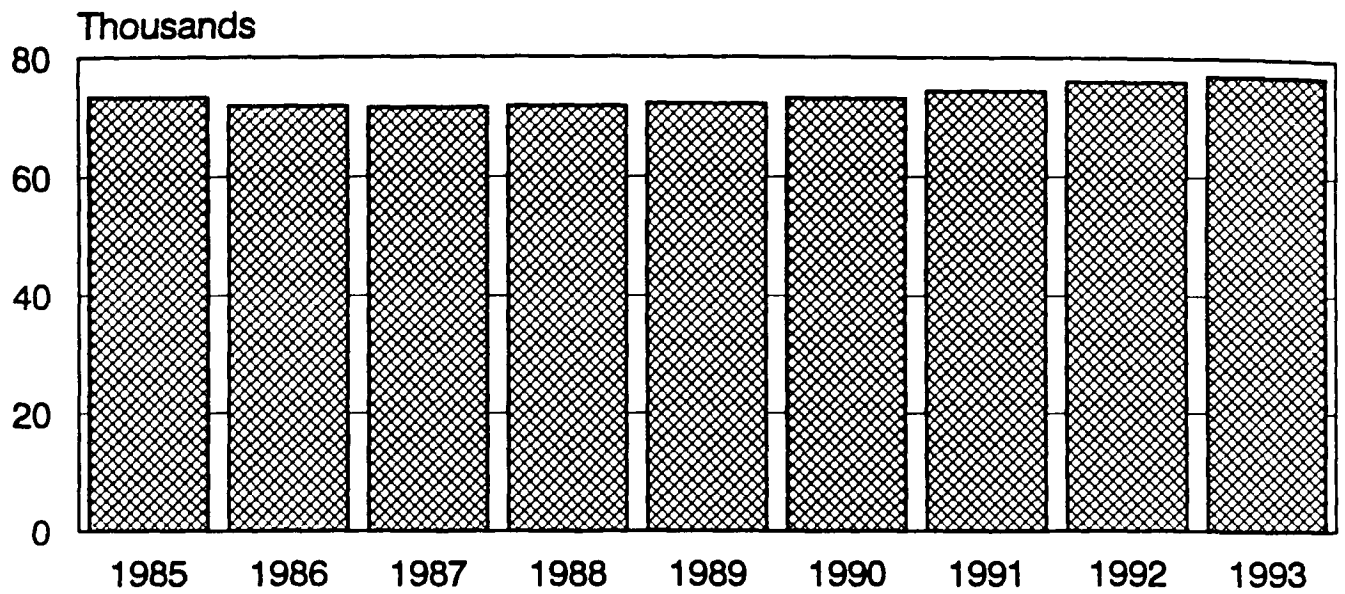
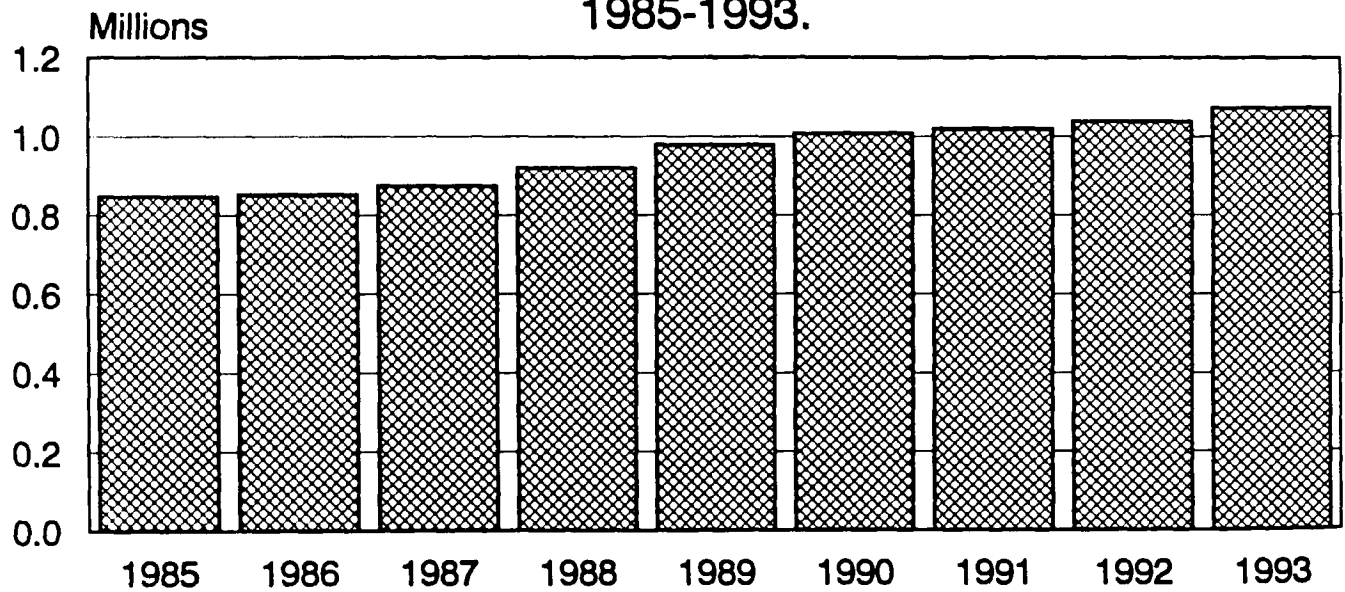


Figure 2. Number of employees of business establishments in Iowa, 1985-1993.



## Number and Size of Farms in Iowa's Counties:

### 1975-1994

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Each year, the Iowa Department of Agriculture and Land Stewardship estimates the number of farms in Iowa's counties. The 101,000 farms reported for 1994 represented a decrease of 3,000 from the total in 1990. Since 1975, when this series of estimates was initiated, farm numbers have declined by 29,000 (Table 1, Figure 2). Average size in acres has increased from 262 in 1975 to 329 in 1994, a gain of 67 acres over the 20 years (Table 2, Figure 3).

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. Seven counties (Clayton, Dubuque, Kossuth, Linn, Plymouth, Sioux, Winneshiek) each have more than 1,600 farms. Their totals are more than double the number in the 21 counties with fewer than 800. Mills (590) is the only county with fewer than 600 farms as of 1994.

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 1). Six counties (Bremer, Delaware, Dubuque, Johnson, Linn, Sioux) averaged fewer than 250 acres per farm, while two others (Fremont, Monona) had averages greater than 450 acres.

#### Change in Number of Farms

The number of farms declined in all 99 counties from 1975 to 1994. Two-fifths (40) of the counties reported decreases of 300 or more farms by the end of the period; 46 decreased from 200 to 299, and the remaining 13 lost fewer than 200 farms. Four counties (Adams, Clarke, Dickinson, Osceola) declined by fewer than 150 farms between 1975 and 1994; five others (Fayette, Kossuth, Pottawattamie, Wapello, Woodbury) had at least 500 fewer farms in 1994 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 1994, although Sioux was close at 1,990. 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 Dubuque, Jackson, and Sioux, although it exceeded 30 percent in Polk and Wapello. At least 25 percent fewer farms were counted in another 12 counties. In the most recent comparison (1990-1994), farms were down 2.9 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 56 counties reporting greater percentage decreases in the late 1970s than the early 1980s. For 42 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 (47) or early 1980s (21), 31 had their greatest decreases in the late 1980s.



Table 1. Estimated Number of Farms in Iowa Counties, 1975-1994.

County	1994*	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	910	920	930	930	940	950	970	980	1010	1030	1040	1050	1080	1080	1090	1110	1130	1140	1150	1170
Adams	670	680	690	690	690	700	710	700	720	720	730	730	750	750	750	760	780	790	790	790
Allamakee	1090	1100	1110	1110	1110	1110	1120	1090	1110	1120	1120	1130	1150	1180	1180	1200	1210	1230	1280	1360
Appanoose	880	890	900	900	900	900	900	890	890	890	900	900	930	960	990	990	1000	1040	1080	1140
Audubon	790	800	810	810	830	840	860	870	880	890	900	910	920	940	960	980	1000	1010	1010	1060
Benton	1360	1380	1390	1390	1410	1420	1460	1470	1490	1520	1570	1580	1590	1590	1600	1620	1650	1650	1650	1650
Black Hawk	1130	1140	1160	1160	1190	1220	1280	1300	1320	1330	1330	1340	1370	1370	1380	1400	1410	1460	1520	1560
Boone	940	950	960	960	980	1000	1020	1040	1050	1080	1110	1140	1170	1180	1190	1210	1250	1280	1310	1340
Bremer	1090	1110	1120	1120	1130	1150	1170	1170	1190	1210	1240	1280	1300	1300	1300	1310	1390	1390	1410	1480
Buchanan	1200	1210	1220	1220	1250	1280	1340	1360	1380	1390	1390	1400	1420	1460	1490	1510	1510	1570	1620	1670
Buena Vista	970	980	990	990	1010	1050	1080	1120	1150	1170	1180	1190	1210	1240	1250	1250	1280	1280	1300	1300
Butler	1220	1230	1250	1250	1270	1280	1310	1320	1340	1380	1420	1460	1490	1510	1510	1520	1520	1550	1590	1600
Calhoun	890	900	910	910	940	960	980	1010	1040	1080	1110	1170	1180	1180	1180	1190	1220	1220	1220	1250
Carroll	1190	1200	1220	1220	1250	1270	1330	1350	1370	1390	1390	1400	1420	1420	1420	1430	1430	1430	1430	1440
Cass	930	930	940	940	940	950	970	950	980	1000	1050	1080	1100	1100	1110	1140	1150	1160	1160	1160
Cedar	1120	1140	1150	1150	1160	1170	1200	1200	1220	1240	1280	1320	1330	1330	1340	1360	1400	1400	1400	1420
Cerro Gordo	890	900	910	910	920	930	950	950	970	1000	1020	1040	1050	1050	1060	1080	1120	1120	1120	1130
Cherokee	980	1000	1000	1000	1020	1050	1080	1110	1140	1170	1210	1220	1220	1220	1230	1240	1260	1260	1260	1260
Chickasaw	1070	1080	1080	1080	1080	1080	1100	1080	1100	1110	1130	1170	1200	1200	1200	1210	1220	1220	1260	1350
Clarke	720	720	730	730	720	720	720	710	730	740	750	770	780	780	790	810	820	850	850	850
Clay	800	810	820	820	840	860	880	890	910	950	1000	1050	1060	1060	1070	1080	1100	1100	1100	1100
Clayton	1750	1760	1780	1780	1760	1740	1740	1700	1710	1710	1710	1720	1750	1810	1830	1850	1850	1930	1990	2110
Clinton	1420	1430	1440	1440	1450	1460	1490	1470	1490	1520	1550	1560	1590	1620	1640	1640	1660	1660	1680	1760
Crawford	1290	1300	1320	1320	1330	1340	1370	1370	1400	1450	1490	1510	1540	1560	1560	1570	1590	1680	1680	1690
Dallas	1000	1010	1020	1020	1040	1050	1070	1100	1110	1140	1170	1200	1220	1220	1220	1230	1270	1270	1270	1290
Davis	940	950	960	960	960	960	960	940	940	940	940	950	970	990	1000	1040	1040	1090	1170	1250
Decatur	730	740	750	750	750	740	740	730	750	760	760	770	780	790	790	810	820	850	880	910
Delaware	1390	1400	1420	1420	1430	1440	1470	1460	1460	1460	1460	1470	1500	1500	1500	1510	1530	1560	1610	1700
Des Moines	710	720	730	730	740	750	760	770	790	800	800	810	830	830	840	890	890	930	930	930
Dickinson	620	620	630	630	630	620	630	610	620	640	640	650	670	680	690	700	700	700	710	710
Dubuque	1700	1720	1730	1730	1720	1710	1710	1680	1690	1690	1690	1700	1730	1730	1730	1740	1740	1780	1850	1880
Emmet	600	610	620	620	620	620	630	620	630	650	680	710	720	740	740	750	760	760	770	770
Fayette	1490	1500	1520	1520	1530	1530	1560	1540	1570	1590	1620	1630	1660	1700	1730	1770	1780	1880	1970	2060

\*Preliminary estimates

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1994 (continued).

County	1994*	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	940	950	960	960	970	990	1010	1010	1030	1050	1070	1090	1110	1120	1120	1130	1140	1170	1200	1230
Franklin	980	990	1000	1000	1010	1020	1040	1030	1050	1080	1120	1160	1180	1180	1190	1210	1260	1260	1260	1310
Fremont	620	620	630	630	660	680	690	730	750	750	760	760	780	780	790	800	830	840	840	840
Greene	860	870	870	870	890	920	940	970	1000	1030	1050	1060	1070	1070	1090	1100	1130	1130	1130	1130
Grundy	850	850	860	860	910	950	980	1050	1060	1090	1110	1120	1150	1160	1170	1180	1230	1260	1260	1270
Guthrie	1040	1050	1060	1060	1040	1020	1020	980	1010	1050	1080	1110	1120	1120	1120	1130	1160	1180	1190	1280
Hamilton	890	900	910	910	940	970	1000	1040	1060	1080	1110	1150	1170	1190	1210	1240	1290	1290	1300	1330
Hancock	960	970	980	980	1000	1020	1040	1070	1090	1120	1150	1170	1190	1210	1220	1230	1280	1280	1310	1360
Hardin	1000	1010	1020	1020	1040	1050	1070	1080	1100	1120	1160	1200	1220	1220	1230	1250	1280	1290	1290	1290
Harrison	960	970	980	980	1000	1010	1030	1050	1080	1120	1160	1190	1210	1220	1240	1250	1280	1310	1320	1370
Henry	870	870	880	880	890	900	920	910	930	950	950	960	980	980	990	1050	1070	1120	1120	1120
Howard	960	970	980	980	980	970	990	960	980	990	1010	1050	1070	1070	1070	1080	1110	1110	1160	1220
Humboldt	670	680	680	680	700	730	750	770	780	800	820	840	860	860	870	870	900	900	900	920
Ida	740	750	750	750	760	780	800	800	820	840	860	870	890	890	900	900	920	930	930	960
Iowa	1050	1060	1070	1070	1070	1080	1100	1080	1100	1120	1130	1140	1170	1180	1190	1200	1210	1210	1220	1280
Jackson	1410	1420	1440	1440	1430	1410	1410	1380	1400	1400	1400	1410	1440	1460	1460	1470	1470	1470	1500	1570
Jasper	1360	1380	1390	1390	1410	1430	1460	1480	1500	1530	1550	1580	1610	1610	1620	1630	1680	1690	1690	1690
Jefferson	820	830	840	840	830	820	820	790	810	830	860	890	910	920	930	1000	1010	1060	1110	1150
Johnson	1340	1350	1370	1370	1380	1380	1410	1390	1410	1440	1480	1500	1520	1520	1530	1540	1560	1560	1560	1560
Jones	1160	1170	1180	1180	1180	1190	1200	1190	1210	1230	1270	1300	1320	1360	1360	1360	1370	1370	1410	1470
Keokuk	1040	1050	1060	1060	1060	1060	1080	1050	1070	1100	1140	1190	1210	1210	1220	1300	1310	1380	1380	1380
Kossuth	1600	1620	1630	1630	1660	1680	1730	1750	1780	1820	1860	1880	1910	1920	1940	1970	2030	2030	2060	2130
Lee	940	950	960	960	970	980	1000	1010	1030	1050	1050	1060	1080	1080	1080	1130	1140	1200	1250	1310
Linn	1620	1640	1650	1650	1670	1680	1710	1710	1740	1760	1790	1800	1820	1820	1830	1840	1860	1860	1860	1870
Louisa	610	620	620	620	630	630	640	640	650	670	680	700	710	710	720	780	790	830	830	830
Lucas	700	710	720	720	720	710	710	700	720	730	740	770	790	800	840	850	850	880	920	950
Lyon	1200	1210	1220	1220	1230	1240	1270	1260	1290	1320	1360	1390	1410	1420	1420	1430	1430	1430	1440	1440
Madison	1090	1100	1110	1110	1100	1090	1090	1080	1110	1120	1130	1150	1180	1200	1250	1260	1270	1320	1360	1390
Mahaska	1170	1180	1190	1190	1190	1190	1210	1200	1220	1240	1250	1260	1280	1290	1290	1360	1370	1440	1470	1520
Marion	1100	1110	1120	1120	1130	1140	1140	1150	1180	1190	1210	1230	1250	1250	1260	1350	1370	1420	1420	1420
Marshall	1040	1050	1060	1060	1070	1080	1100	1090	1110	1130	1160	1190	1220	1230	1230	1240	1240	1250	1280	1320
Mills	590	600	600	600	610	630	640	650	670	670	680	680	690	700	740	750	790	800	800	800
Mitchell	850	860	870	870	890	920	950	960	980	990	1000	1010	1020	1020	1030	1050	1060	1090	1100	1140

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1994 (continued).

County	1994*	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	860	870	880	880	880	880	900	870	880	910	920	930	950	970	1000	1000	1050	1050	1050	1080
Monroe	710	720	720	720	730	740	740	750	750	750	750	760	770	780	810	830	830	860	900	930
Montgomery	650	660	660	660	670	690	700	710	730	740	760	760	780	780	790	790	790	800	820	840
Muscatine	840	840	850	850	860	880	910	920	930	940	970	1000	1010	1010	1030	1040	1050	1050	1050	1050
O'Brien	1140	1150	1160	1160	1190	1200	1230	1260	1290	1320	1330	1340	1360	1360	1360	1370	1380	1380	1380	1380
Osceola	740	740	750	750	750	750	770	750	770	790	820	840	850	850	850	860	860	860	870	870
Page	970	980	990	990	1000	1010	1030	1030	1040	1040	1050	1050	1070	1070	1080	1090	1160	1170	1170	1170
Palo Alto	890	900	900	900	910	930	950	950	980	1000	1010	1020	1040	1050	1070	1070	1100	1100	1110	1110
Plymouth	1660	1680	1700	1700	1720	1730	1770	1770	1810	1830	1870	1880	1900	1910	1920	1930	1950	1950	1970	1970
Pocahontas	910	920	930	930	950	970	990	1010	1040	1070	1100	1110	1130	1140	1160	1170	1180	1180	1190	1190
Polk	880	890	890	890	920	950	980	1020	1040	1060	1080	1100	1120	1140	1140	1150	1150	1170	1240	1340
Pottawattamie	1440	1460	1470	1470	1520	1560	1610	1670	1700	1730	1780	1810	1850	1900	1900	1900	1900	1920	1960	2000
Poweshiek	1050	1060	1070	1070	1070	1070	1090	1060	1080	1100	1130	1140	1170	1180	1190	1200	1220	1250	1270	1300
Ringgold	750	760	770	770	750	730	730	710	730	740	750	770	800	810	820	860	870	900	910	930
Sac	970	970	980	980	1000	1020	1050	1060	1090	1120	1140	1150	1160	1160	1160	1160	1190	1190	1190	1240
Scott	920	930	940	940	950	970	990	990	1010	1030	1060	1090	1110	1110	1120	1130	1170	1170	1170	1170
Shelby	1090	1100	1110	1110	1130	1160	1190	1200	1230	1270	1300	1320	1340	1340	1340	1350	1370	1370	1370	1370
Sioux	1990	2010	2030	2030	2040	2040	2080	2050	2070	2090	2100	2100	2130	2130	2140	2150	2200	2200	2200	2200
Story	1010	1020	1030	1030	1060	1100	1140	1160	1180	1210	1230	1240	1250	1250	1260	1280	1340	1360	1360	1360
Tama	1360	1370	1390	1390	1400	1400	1430	1430	1450	1480	1480	1490	1530	1550	1560	1600	1630	1660	1700	1740
Taylor	800	810	820	820	810	800	800	780	800	820	850	880	900	940	950	960	970	980	1010	1030
Union	720	720	730	730	720	720	720	700	720	730	740	770	780	780	790	860	870	900	900	900
Van Buren	820	830	840	840	830	830	830	800	820	840	850	880	900	910	930	970	990	1040	1080	1110
Wapello	820	830	840	840	850	880	900	910	930	950	950	960	970	1020	1020	1040	1040	1090	1240	1380
Warren	1270	1280	1300	1300	1300	1310	1310	1320	1340	1360	1370	1390	1410	1410	1420	1470	1480	1530	1530	1530
Washington	1120	1130	1140	1140	1150	1160	1200	1180	1210	1230	1230	1240	1260	1260	1280	1340	1350	1420	1420	1420
Wayne	790	800	800	800	790	780	780	760	780	790	800	820	830	840	840	910	920	950	950	950
Webster	1060	1070	1080	1080	1120	1160	1200	1250	1260	1280	1310	1350	1370	1370	1380	1390	1420	1430	1430	1430
Winnebago	710	710	720	720	730	740	760	760	770	790	810	840	860	870	880	910	930	930	930	960
Winneshiek	1630	1650	1660	1660	1660	1660	1690	1660	1690	1700	1700	1710	1750	1780	1790	1820	1850	1870	1930	2010
Woodbury	1360	1380	1390	1390	1390	1390	1410	1370	1400	1450	1500	1580	1600	1630	1630	1640	1660	1700	1780	1930
Worth	730	740	740	740	730	710	710	680	690	730	760	800	810	830	840	860	870	870	880	910
Wright	830	830	850	850	860	880	900	900	920	940	970	1010	1020	1030	1040	1070	1090	1100	1150	1210
State of Iowa	101000	102000	103000	103000	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, 1975-1994.

County	1994*	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	389	385	382	382	378	374	366	363	353	346	343	340	331	331	329	323	317	314	313	309
Adams	392	388	383	383	383	378	372	378	368	368	363	364	354	354	355	350	341	337	338	340
Allamakee	338	336	334	337	337	337	334	343	337	334	334	332	326	318	319	313	311	306	295	279
Appanoose	324	321	319	319	319	319	319	322	325	325	322	323	312	302	294	294	291	280	270	258
Audubon	351	347	343	343	334	330	323	319	315	312	308	306	303	296	291	285	279	276	277	266
Benton	315	311	310	311	307	305	296	294	292	286	277	276	274	274	273	270	265	265	266	267
Black Hawk	269	268	264	264	257	251	239	236	234	232	232	231	226	226	225	222	220	213	205	201
Boone	353	350	348	345	338	331	325	319	321	312	304	297	289	287	285	280	272	265	260	256
Bremer	235	232	231	232	230	226	222	222	219	215	210	204	201	201	201	200	188	188	186	178
Buchanan	286	285	283	284	277	270	258	254	251	249	249	248	244	238	234	230	230	222	215	210
Buena Vista	360	357	354	355	348	335	325	314	306	301	298	297	292	285	283	283	276	276	273	275
Butler	287	286	282	282	277	275	269	267	263	256	249	243	238	235	235	234	234	229	224	224
Calhoun	392	389	385	385	373	365	358	347	338	326	317	302	299	299	300	297	290	290	291	286
Carroll	293	291	287	287	280	276	264	260	256	253	253	252	248	248	249	247	247	247	248	248
Cass	371	372	369	369	369	365	357	365	354	347	330	322	316	316	315	306	304	301	302	304
Cedar	312	307	305	306	303	300	293	293	289	284	275	268	265	265	264	260	253	253	254	252
Cerro Gordo	372	370	366	369	365	362	354	354	349	338	332	326	323	323	321	315	304	304	305	304
Cherokee	361	355	355	355	348	338	329	320	312	304	294	293	293	293	291	289	284	284	285	287
Chickasaw	286	284	284	283	283	283	277	283	277	275	270	262	255	255	256	254	252	252	244	229
Clarke	363	365	361	362	367	367	367	372	362	357	352	344	340	340	336	328	324	313	314	316
Clay	428	423	420	421	411	401	392	388	380	364	346	330	327	327	325	322	316	316	317	319
Clayton	264	263	261	261	264	267	267	274	272	272	272	271	267	258	256	253	253	243	236	224
Clinton	286	285	284	284	282	280	275	278	275	269	264	263	258	253	251	251	248	248	246	236
Crawford	342	340	335	336	333	331	323	323	317	306	298	295	289	286	287	285	281	266	267	267
Dallas	340	338	336	339	332	329	323	314	311	303	295	289	284	284	285	283	274	274	275	272
Davis	327	325	322	327	327	327	327	334	330	330	330	328	321	315	313	300	300	287	268	252
Decatur	443	439	434	433	433	439	439	445	433	428	428	423	418	413	414	404	399	385	373	363
Delaware	248	247	244	246	244	242	237	239	239	239	239	238	233	233	234	232	229	225	219	208
Des Moines	305	301	298	299	295	291	287	284	277	273	273	271	264	264	262	247	247	236	237	238
Dickinson	355	356	353	357	357	362	357	368	366	354	354	350	339	334	331	326	326	326	322	324
Dubuque	203	201	200	201	203	204	204	207	206	206	206	206	202	202	203	201	201	197	190	188
Emmet	397	391	386	388	388	388	381	388	382	370	354	340	336	326	327	323	319	319	316	317
Fayette	295	294	290	290	288	288	283	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, 1975-1994 (continued).

County	1994*	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	320	317	315	315	312	306	300	300	295	289	284	279	274	272	273	270	268	261	255	250
Franklin	362	360	357	357	354	350	344	347	341	332	320	310	304	304	303	298	286	286	287	277
Fremont	499	500	494	495	472	459	452	427	417	417	412	413	402	402	398	393	379	375	376	378
Greene	409	406	407	407	398	385	377	365	354	344	338	335	332	332	327	324	315	315	316	318
Grundy	366	367	364	364	344	329	319	298	295	287	282	280	273	270	269	267	256	250	250	250
Guthrie	348	345	343	343	350	357	357	371	361	347	337	329	326	326	327	324	316	311	309	289
Hamilton	392	389	385	385	373	361	351	337	331	325	316	306	301	296	291	284	273	273	272	268
Hancock	361	359	356	356	349	342	336	326	321	313	304	300	295	290	289	286	275	275	270	261
Hardin	344	342	339	339	333	330	324	321	316	310	299	290	285	285	284	279	273	271	272	273
Harrison	436	432	429	431	422	418	410	402	394	379	366	358	352	349	345	342	334	326	325	315
Henry	298	299	297	298	294	291	285	288	282	276	276	274	268	268	267	251	247	236	236	238
Howard	301	299	296	294	294	297	291	300	294	291	286	276	270	270	271	269	261	261	251	240
Humboldt	397	392	393	393	382	366	356	347	343	334	326	319	312	312	309	309	299	299	300	295
Ida	361	356	357	357	353	344	335	335	327	320	312	309	302	302	300	300	293	290	291	284
Iowa	340	337	335	337	337	334	328	334	328	322	320	318	309	307	305	303	300	300	299	286
Jackson	266	264	262	263	265	268	268	274	271	271	271	269	264	260	261	259	259	259	255	245
Jasper	315	312	311	316	311	307	300	296	293	287	283	279	274	274	273	271	263	262	262	264
Jefferson	314	312	310	312	316	320	320	332	325	317	306	297	290	287	285	265	262	250	239	233
Johnson	240	239	237	241	239	239	234	237	240	235	228	226	223	223	222	221	218	218	218	220
Jones	298	296	294	295	295	293	290	293	288	284	275	269	265	257	258	258	256	256	250	241
Keokuk	338	336	334	336	336	336	330	339	333	324	313	300	295	295	294	276	274	260	261	262
Kossuth	372	369	367	367	361	356	346	342	337	330	323	320	315	314	311	307	297	297	294	286
Lee	310	308	306	307	304	301	295	292	286	281	281	279	274	274	275	262	260	247	238	228
Linn	234	232	232	235	232	230	226	226	224	221	218	217	215	215	214	213	211	211	211	211
Louisa	376	371	373	374	368	368	363	363	359	348	343	334	330	330	326	301	297	283	284	285
Lucas	361	358	347	349	349	354	354	359	355	350	345	333	324	320	306	302	302	292	280	273
Lyon	301	299	297	297	295	293	286	288	282	275	267	262	258	257	257	256	256	256	255	256
Madison	318	316	314	313	316	319	319	322	313	310	307	303	295	290	280	277	275	265	258	254
Mahaska	293	292	290	292	292	292	287	289	288	283	281	279	275	273	274	259	258	245	241	234
Marion	273	271	270	271	269	266	266	264	262	259	255	252	248	248	247	230	227	219	219	221
Marshall	325	324	323	325	322	319	313	316	310	305	297	290	283	281	282	279	279	277	271	265
Mills	448	441	442	445	438	424	418	411	399	399	393	394	388	383	363	358	340	336	337	339
Mitchell	336	333	330	331	323	313	303	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, 1975-1994 (continued).

County	1994*	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	485	481	476	476	476	476	465	481	479	463	458	454	445	436	424	424	404	404	405	396
Monroe	369	365	366	367	362	357	357	352	352	352	352	349	344	340	328	320	320	309	296	288
Montgomery	396	392	393	395	389	377	372	367	357	352	343	344	335	335	332	332	332	328	321	315
Muscatine	295	296	293	294	291	284	275	272	269	266	258	251	249	249	245	242	240	240	241	242
O'Brien	308	306	304	304	296	294	286	280	273	267	265	264	260	260	261	259	257	257	258	259
Osceola	330	331	327	327	327	327	319	327	320	312	301	294	291	291	292	288	288	288	286	288
Page	335	333	330	331	327	324	318	318	316	316	313	314	308	308	306	303	285	283	283	285
Palo Alto	388	385	386	387	383	375	367	367	356	349	345	343	336	333	328	328	319	219	317	319
Plymouth	318	315	312	313	310	308	301	301	295	292	286	285	282	281	280	278	276	276	274	275
Pocahontas	388	385	381	381	373	365	358	351	342	332	323	321	315	313	308	306	303	303	301	303
Polk	273	273	277	284	275	266	258	248	250	245	241	237	233	229	229	227	227	224	212	197
Pottawattamie	385	380	379	381	368	359	348	335	331	325	316	311	305	297	298	298	298	294	289	285
Poweshiek	337	335	333	334	334	334	327	337	331	325	316	315	306	304	302	300	295	288	284	279
Ringgold	447	443	437	438	450	462	462	475	463	456	450	440	423	418	414	395	390	377	374	368
Sac	362	363	360	361	354	347	337	333	326	317	311	310	307	307	308	308	300	300	301	291
Scott	253	252	250	253	251	245	240	240	237	232	225	220	216	216	215	213	205	205	206	207
Shelby	333	331	329	329	323	315	307	304	297	288	281	278	274	274	274	272	268	268	269	271
Sioux	234	232	231	230	229	229	225	228	226	224	223	224	220	220	220	219	214	214	215	216
Story	324	322	320	322	313	302	291	286	283	276	271	270	268	268	266	262	251	247	248	249
Tama	314	313	315	315	313	313	306	306	302	296	296	295	287	283	282	275	270	265	260	255
Taylor	414	410	406	406	411	416	416	427	417	406	392	380	371	356	353	349	346	342	333	328
Union	355	357	354	356	361	361	361	371	361	356	351	338	334	334	331	304	300	290	291	293
Van Buren	355	352	349	352	357	357	357	370	362	353	349	338	330	327	321	308	301	287	277	271
Wapello	300	297	295	297	293	283	277	274	268	263	263	261	258	245	246	241	241	230	203	184
Warren	258	257	254	255	255	253	253	251	249	246	244	241	238	238	237	229	227	220	220	222
Washington	303	301	299	301	298	296	286	291	284	280	280	278	274	274	270	258	256	244	245	246
Wayne	407	403	403	404	409	414	414	425	415	410	405	396	391	387	388	358	354	343	334	346
Webster	395	393	390	392	378	365	352	338	336	331	324	315	310	310	309	307	300	298	299	301
Winnebago	338	339	335	336	331	326	318	318	316	308	300	291	284	280	278	269	263	263	264	257
Winneshiak	255	253	252	253	253	253	248	253	248	247	247	246	240	236	236	232	228	226	219	212
Woodbury	370	365	366	367	367	367	362	372	364	352	340	324	320	314	315	313	309	302	289	268
Worth	328	325	326	327	331	341	341	356	352	333	319	304	301	293	291	284	281	281	278	271
Wright	426	427	418	418	413	404	395	395	387	379	367	353	350	347	344	334	328	325	312	298
State of Iowa	329	326	324	325	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, 1975-1994.

County	Farms					Acres				
	1990-1994	1975-1990	1985-1990	1980-1985	1975-1980	1990-1994	1975-1990	1985-1990	1980-1985	1975-1980
Adair	-3.2	-19.7	-8.7	-5.5	-6.8	2.9	22.3	9.2	5.2	6.5
Adams	-2.9	-12.7	-4.2	-4.0	-5.1	2.3	12.6	4.1	3.7	4.4
Allamakee	-1.8	-18.4	-0.9	-5.1	-13.2	0.3	20.8	0.9	4.7	14.3
Appanoose	-2.2	-21.1	1.1	-10.1	-13.2	1.6	23.6	-1.8	10.5	14.0
Audubon	-4.8	-21.7	-6.7	-7.3	-9.4	5.1	25.6	7.1	7.2	9.4
Benton	-3.5	-14.5	-7.2	-5.0	-3.0	2.6	15.0	7.3	4.8	2.2
Black Hawk	-5.0	-23.7	-10.5	-3.6	-11.5	4.7	27.9	10.8	3.1	11.9
Boone	-4.1	-26.9	-9.3	-9.2	-11.2	4.4	32.0	8.3	9.5	11.3
Bremer	-3.5	-23.6	-6.6	-6.9	-12.2	2.2	29.2	7.0	7.0	12.9
Buchanan	-4.0	-25.1	-10.1	-6.7	-10.8	3.2	31.9	11.2	6.4	11.4
Buena Vista	-4.0	-22.3	-13.7	-6.4	-3.8	3.4	26.5	15.6	6.4	2.9
Butler	-3.9	-20.6	-8.0	-8.6	-5.6	3.6	23.7	8.2	8.9	4.9
Calhoun	-5.3	-24.8	-13.0	-8.5	-5.6	5.1	30.4	14.4	8.7	4.9
Carroll	-4.8	-13.2	-10.1	-2.1	-1.4	4.6	12.9	10.7	1.6	0.4
Cass	-1.1	-19.0	-6.0	-9.9	-4.3	0.5	21.4	6.3	10.2	3.6
Cedar	-3.4	-18.3	-6.5	-7.5	-5.6	3.0	20.2	6.7	7.6	4.8
Cerro Gordo	-3.3	-18.6	-8.0	-5.7	-6.2	1.9	20.1	8.0	5.3	5.6
Cherokee	-3.9	-19.0	-12.8	-4.9	-2.4	3.7	21.3	14.5	4.5	1.4
Chickasaw	-0.9	-20.0	-2.7	-7.5	-11.1	1.1	23.6	2.9	7.4	11.8
Clarke	0.0	-15.3	-2.7	-6.3	-7.1	-1.1	16.1	2.8	6.2	6.3
Clay	-4.8	-23.6	-11.6	-11.2	-2.7	4.1	28.8	12.9	12.0	1.9
Clayton	-0.6	-16.6	2.9	-6.6	-13.3	0.0	17.9	-2.9	6.2	14.3
Clinton	-2.1	-17.6	-4.6	-7.3	-6.8	1.4	19.5	4.8	7.2	6.4
Crawford	-3.0	-21.3	-8.3	-7.0	-7.7	2.7	24.7	8.8	6.6	7.5
Dallas	-3.8	-19.4	-8.8	-6.6	-5.4	2.4	22.1	9.6	6.3	4.8
Davis	-2.1	-23.2	2.1	-6.0	-20.0	0.0	29.8	-0.9	5.4	24.2
Decatur	-2.7	-17.6	-1.3	-3.8	-13.2	2.3	19.3	1.2	3.4	14.0
Delaware	-2.8	-15.9	-2.1	-2.7	-11.8	1.6	17.3	2.1	2.1	12.5
Des Moines	-4.1	-20.4	-7.5	-4.8	-9.7	3.4	23.9	8.1	4.2	10.1
Dickinson	-1.6	-11.3	-1.6	-7.2	-2.8	-0.6	10.2	0.8	7.0	2.2
Dubuque	-1.2	-8.5	1.8	-2.3	-8.0	0.0	8.0	-1.5	1.5	8.0
Emmet	-3.2	-19.5	-4.6	-12.2	-3.9	2.3	22.4	4.9	13.2	3.2
Fayette	-2.6	-25.7	-3.8	-8.1	-16.0	2.4	32.7	4.0	7.8	18.4
Floyd	-3.1	-21.1	-7.6	-6.2	-8.9	2.6	24.8	8.0	5.9	9.2
Franklin	-3.0	-22.9	-6.5	-9.2	-9.2	2.3	27.8	6.6	9.6	9.4
Fremont	-6.1	-21.4	-12.0	-5.1	-6.0	5.7	24.9	13.2	4.8	5.3
Greene	-3.4	-21.2	-13.6	-5.5	-3.5	2.8	25.2	15.7	5.2	2.8
Grundy	-6.6	-28.3	-16.5	-6.8	-7.9	6.4	37.6	19.9	6.7	7.6
Guthrie	0.0	-18.8	-1.0	-6.2	-12.5	-0.6	21.1	0.9	6.1	13.2
Hamilton	-5.3	-29.3	-13.0	-10.7	-9.0	5.1	39.2	14.8	11.7	8.6
Hancock	-4.0	-26.5	-10.7	-8.2	-10.3	3.4	33.7	11.5	8.3	10.7
Hardin	-3.8	-19.4	-7.1	-8.9	-4.6	3.3	22.0	7.4	9.2	4.0
Harrison	-4.0	-27.0	-10.7	-9.7	-9.5	3.3	34.0	11.3	9.9	9.5
Henry	-2.2	-20.5	-6.3	-4.0	-11.6	1.4	23.5	6.5	3.4	12.2
Howard	-2.0	-19.7	-1.0	-7.5	-12.3	2.4	22.5	1.0	7.4	12.9
Humboldt	-4.3	-23.9	-12.5	-8.0	-5.4	3.9	29.5	14.4	8.1	4.8
Ida	-2.6	-20.8	-9.5	-6.7	-6.2	2.3	24.3	10.3	6.7	5.6
Iowa	-1.9	-16.4	-4.5	-5.9	-7.0	0.9	17.8	4.7	5.6	6.6
Jackson	-1.4	-8.9	2.1	-4.1	-7.0	0.4	8.2	-2.2	3.8	6.5
Jasper	-3.5	-16.6	-7.8	-5.6	-4.1	1.3	17.8	8.4	5.1	3.4

Table 3. Percentage Change in Number and Size (in Acres) of Farms in Iowa Counties, 1975-1994 (continued).

County	Farms					Acres				
	1990-1994	1975-1990	1985-1990	1980-1985	1975-1980	1990-1994	1975-1990	1985-1990	1980-1985	1975-1980
Jefferson	-1.2	-27.8	0.0	-10.8	-19.1	-0.6	35.6	-0.3	11.2	22.3
Johnson	-2.9	-11.5	-4.2	-5.9	-1.9	0.4	8.6	1.7	5.9	0.9
Jones	-1.7	-19.7	-4.1	-9.6	-7.5	1.0	22.4	3.9	10.1	7.0
Keokuk	-1.9	-23.2	-3.6	-9.8	-11.6	0.6	28.2	3.7	10.2	12.2
Kossuth	-3.6	-22.1	-8.8	-6.2	-8.9	3.0	26.2	9.4	6.1	8.7
Lee	-3.1	-26.0	-7.6	-2.8	-17.6	2.0	33.3	8.2	2.2	20.6
Linn	-3.0	-10.7	-5.1	-3.8	-2.1	0.9	10.0	5.0	3.3	1.4
Louisa	-3.2	-24.1	-6.0	-6.9	-13.2	2.2	29.1	5.7	6.8	14.4
Lucas	-2.8	-24.2	-1.4	-13.1	-11.6	3.4	27.8	-0.3	14.4	12.1
Lyon	-2.4	-14.6	-6.8	-7.0	-1.4	2.0	15.2	7.3	7.0	0.4
Madison	-0.9	-20.9	-1.8	-10.4	-10.1	0.6	24.4	1.9	10.7	10.2
Mahaska	-1.7	-21.7	-4.0	-3.9	-15.1	0.3	24.8	3.2	3.3	17.1
Marion	-2.7	-20.4	-5.0	-5.6	-11.3	1.5	21.7	3.9	4.9	11.8
Marshall	-2.8	-18.9	-5.3	-8.1	-6.8	0.9	21.5	5.6	8.2	6.4
Mills	-3.3	-23.8	-9.0	-9.5	-7.5	2.3	29.2	9.8	9.9	7.1
Mitchell	-4.5	-21.9	-10.1	-3.9	-9.6	4.0	25.7	10.6	3.6	9.7
Monona	-2.3	-18.5	-3.3	-9.0	-7.4	1.9	20.2	2.8	9.2	7.1
Monroe	-2.7	-21.5	-2.7	-7.4	-12.9	1.9	25.7	2.8	7.3	13.9
Montgomery	-3.0	-20.2	-9.5	-6.3	-6.0	1.8	23.5	10.5	6.0	5.4
Muscatine	-2.3	-18.1	-8.5	-8.7	-1.9	1.4	20.2	9.4	8.6	1.2
O'Brien	-4.2	-13.8	-9.8	-2.9	-1.4	4.1	14.3	10.9	2.3	0.8
Osceola	-1.3	-13.8	-5.1	-7.1	-2.3	0.9	13.5	4.8	6.8	1.4
Page	-3.0	-14.5	-3.8	-3.7	-7.7	2.4	14.7	3.5	3.3	7.4
Palo Alto	-2.2	-18.0	-9.0	-6.5	-3.6	1.3	20.1	9.7	6.4	2.8
Plymouth	-3.5	-12.7	-6.0	-4.7	-2.5	2.6	12.7	6.2	4.3	1.8
Pocahontas	-4.2	-20.2	-11.2	-7.8	-2.5	4.0	23.1	12.3	7.8	1.6
Polk	-4.3	-31.3	-13.2	-7.0	-14.9	-0.7	39.6	12.2	7.0	16.2
Pottawattamie	-5.3	-24.0	-12.1	-9.0	-5.0	4.6	29.1	13.2	9.1	4.6
Poweshiek	-1.9	-17.7	-2.7	-7.6	-8.5	0.9	19.7	2.8	7.6	8.2
Ringgold	0.0	-19.4	1.4	-9.8	-11.8	-0.7	22.3	-1.3	10.1	12.5
Sac	-3.0	-19.4	-10.7	-3.4	-6.4	2.3	21.6	11.7	2.9	5.8
Scott	-3.2	-18.8	-7.8	-8.0	-4.3	0.8	21.3	8.2	7.9	3.9
Shelby	-3.5	-17.5	-11.0	-5.2	-2.2	3.1	19.2	12.2	5.1	1.1
Sioux	-2.5	-7.3	-2.4	-2.3	-2.7	2.2	6.0	2.2	1.8	1.8
Story	-4.7	-22.1	-12.4	-4.0	-7.4	3.5	25.7	13.4	3.8	6.8
Tama	-2.9	-19.5	-5.4	-5.1	-10.3	0.3	22.7	5.7	5.0	10.6
Taylor	-1.2	-21.4	-1.2	-13.7	-7.8	0.7	25.3	1.2	15.0	7.6
Union	0.0	-20.0	-1.4	-7.6	-12.2	-1.7	23.2	1.4	7.6	13.0
Van Buren	-1.2	-25.2	-1.2	-9.7	-16.2	-0.6	31.7	1.1	10.0	18.4
Wapello	-3.5	-38.4	-10.5	-6.9	-26.1	2.4	59.2	11.4	6.9	33.7
Warren	-2.3	-15.0	-4.4	-4.2	-7.2	1.2	14.9	3.7	3.8	6.8
Washington	-2.6	-19.0	-6.5	-3.9	-9.9	1.7	21.1	6.4	3.7	9.8
Wayne	0.0	-16.8	0.0	-6.0	-11.6	-0.5	18.2	-0.2	5.7	12.1
Webster	-5.4	-21.7	-12.5	-7.2	-3.5	4.5	25.6	14.2	7.1	2.7
Winnebago	-2.7	-24.0	-7.6	-10.2	-8.3	2.1	28.8	7.5	10.8	8.2
Winneshiak	-1.8	-17.4	-2.4	-5.0	-11.0	0.8	19.3	2.4	4.7	11.3
Woodbury	-2.2	-28.0	-4.1	-11.0	-15.5	0.8	36.9	4.3	11.8	17.5
Worth	0.0	-19.8	0.0	-13.1	-7.7	-0.9	22.1	-0.6	14.4	7.4
Wright	-3.5	-28.9	-8.5	-9.6	-14.0	3.1	38.6	9.0	10.2	15.4
State of Iowa	-2.9	-20.0	-6.3	-6.8	-8.5	2.2	22.9	6.3	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 1994. Only seven counties gained fewer than 40 acres, while 34 counties added at least 80 acres to the average size between 1975 and 1994. On a short-term basis, of course, changes tend to be small. From 1990 to 1994, for example, 73 counties changed by 10 or fewer acres in average size.

Average farm size increased by 22.9 percent from 1975 to 1990 (Table 3). Four counties (Dubuque, Jackson, Johnson, Sioux) reported increases less than 10 percent. Only Wapello (+59.2%) had an increase of at least 40 percent; 14 others had averages at least 30 percent higher in 1990 than in 1975. Percentage gains for 44 counties were highest in the late 1970s.

Figure 1. Average farm size (in acres), 1994.

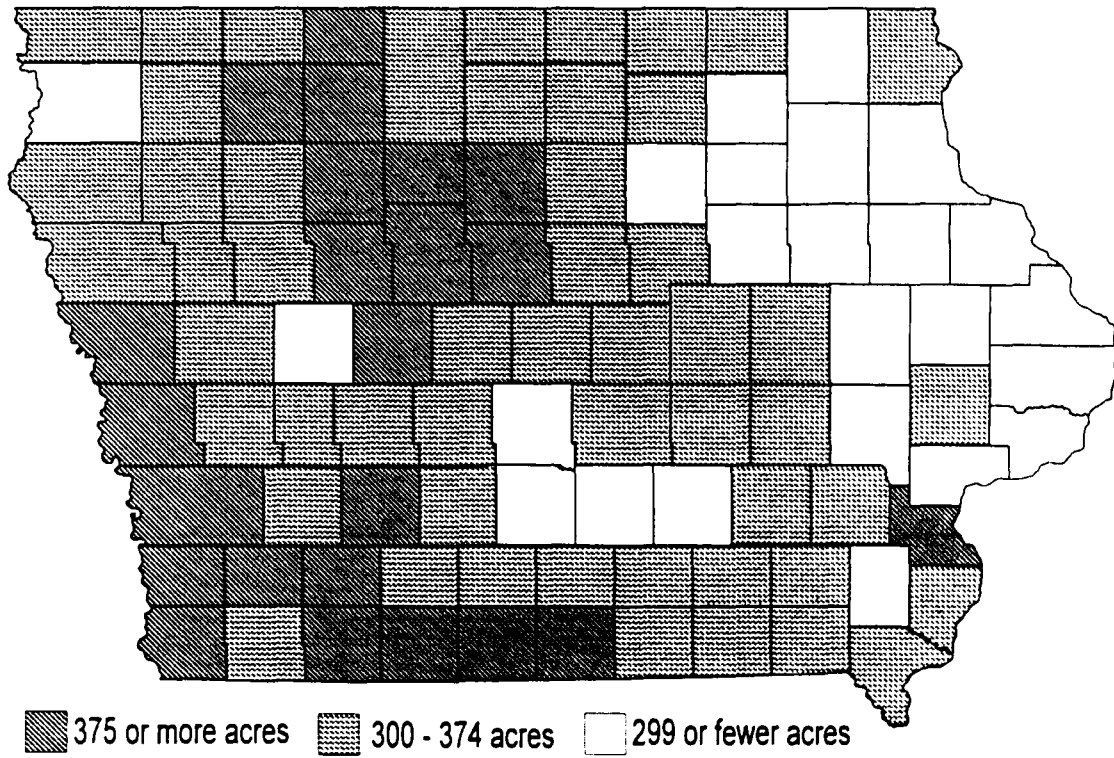


Figure 2. Number of farms in Iowa, 1975-1994.

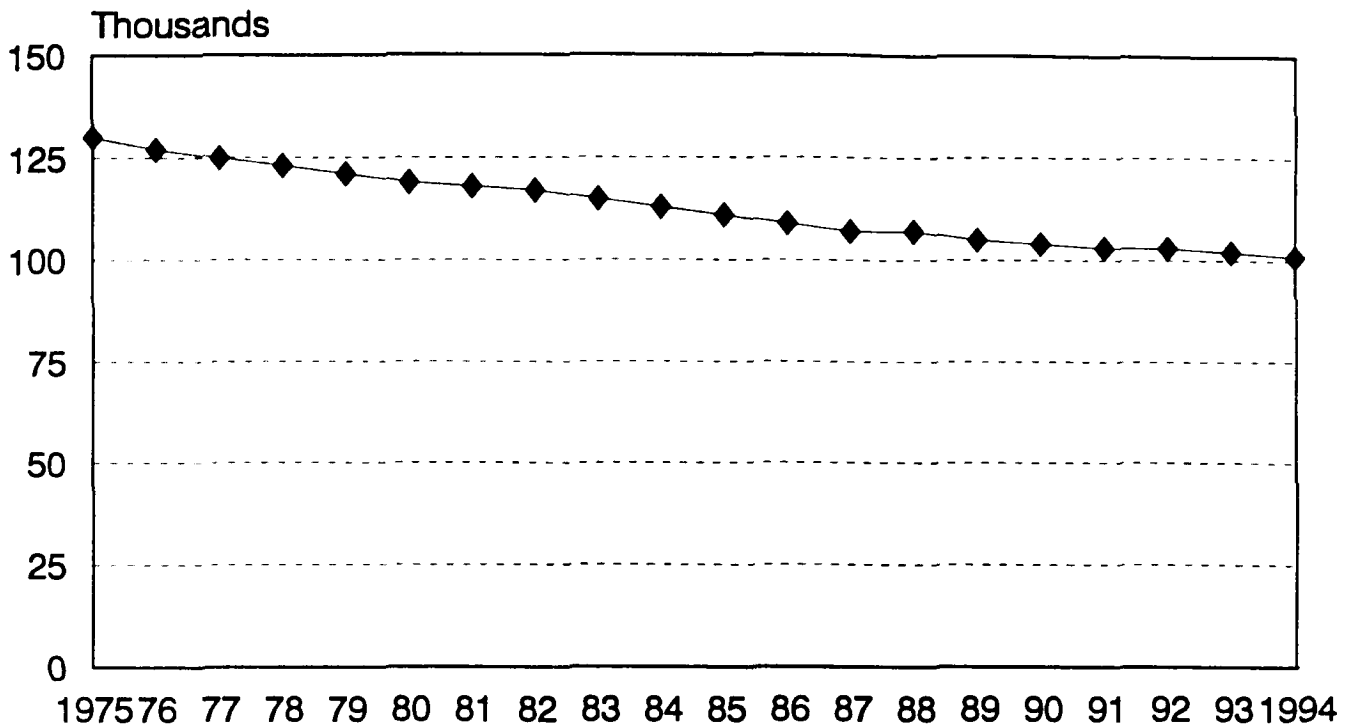
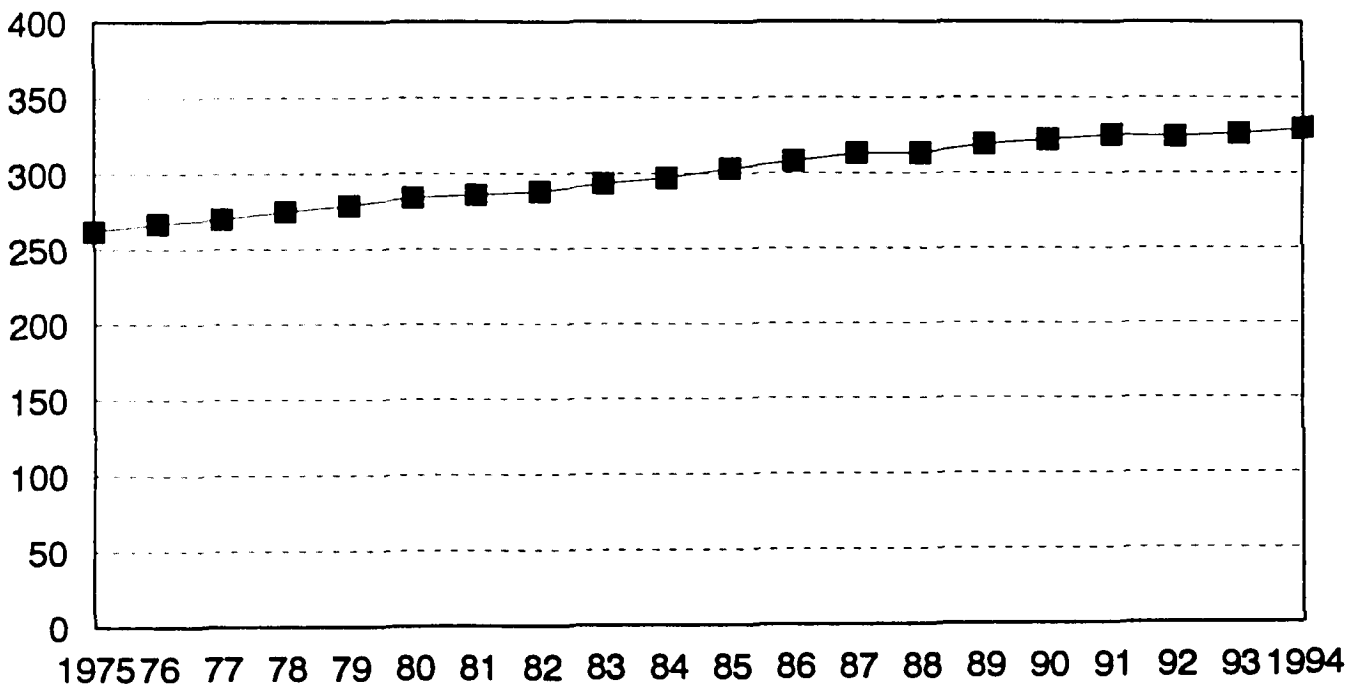


Figure 3. Average size (in acres) of farms in Iowa, 1975-1994.



## Value of Farm Land in Iowa's Counties:

### 1950-1994

Michael Duffy, Iowa State University  
Willis Goudy, Iowa State University

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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 \$1,356 in 1994 (Figure 1).

The value of an acre of farm land varies considerably across Iowa. In 1994, for example, the value was less than \$600 in Appanoose, Decatur, and Wayne. Fourteen additional counties had values below \$1,000 per acre; they were clustered in southern Iowa (Figure 2). In contrast, 40 counties averaged \$1,500 or more; six (Hamilton, Humboldt, O'Brien, Scott, Webster, Wright) were above \$1,800, with Scott (\$2,119) 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 1994. 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 1994; the average acre in Iowa gained 72.3 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, 1950-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Adair	850	807	775	753	734	674	619	557	507	606	833	1035	1176	1367	1335	308	168	152
Adams	884	832	800	781	769	715	667	578	519	612	835	1047	1156	1372	1312	291	170	159
Allamakee	813	732	749	735	770	697	611	532	483	592	856	1062	1143	1300	1227	233	145	115
Appanoose	568	560	556	526	502	455	423	373	351	421	581	747	891	1007	906	206	108	97
Audubon	1378	1275	1255	1222	1217	1149	1072	850	751	851	1164	1525	1608	1965	1937	394	249	227
Benton	1566	1464	1450	1416	1415	1316	1199	1004	915	1121	1649	1988	2101	2479	2404	506	323	268
Black Hawk	1654	1586	1532	1501	1515	1420	1330	1095	1010	1258	1867	2280	2432	2918	2812	553	347	257
Boone	1727	1590	1577	1540	1553	1435	1340	1094	987	1174	1762	2159	2272	2685	2592	545	341	283
Bremer	1451	1358	1322	1298	1324	1235	1108	931	861	1082	1588	1934	2078	2463	2259	420	267	193
Buchanan	1460	1382	1342	1317	1336	1248	1132	953	883	1112	1629	1949	2091	2479	2269	419	255	190
Buena Vista	1760	1695	1675	1648	1649	1576	1470	1129	974	1099	1590	2202	2257	2773	2738	522	355	311
Butler	1524	1447	1393	1371	1385	1309	1239	1013	921	1143	1696	2083	2217	2680	2566	478	304	231
Calhoun	1758	1724	1707	1672	1682	1572	1414	1132	1006	1179	1752	2266	2366	2833	2805	568	365	309
Carroll	1579	1571	1567	1529	1523	1439	1320	1014	891	994	1415	1962	2014	2450	2425	473	314	288
Cass	1169	1081	1040	1017	1006	939	873	748	668	782	1066	1341	1463	1751	1731	379	221	206
Cedar	1738	1645	1595	1560	1504	1418	1289	1184	1105	1443	2010	2273	2425	2792	2612	565	365	281
Cerro Gordo	1587	1503	1438	1421	1437	1372	1307	1063	957	1192	1764	2203	2342	2857	2735	503	312	230
Cherokee	1532	1451	1445	1409	1402	1329	1243	950	832	922	1290	1813	1862	2280	2309	452	295	260
Chickasaw	1183	1106	1079	1060	1082	1008	920	774	715	898	1317	1605	1725	2042	1876	341	207	159
Clarke	664	656	644	614	591	538	482	429	399	478	659	831	977	1114	1059	257	143	123
Clay	1638	1564	1546	1521	1521	1454	1348	1035	893	1007	1456	2002	2051	2519	2478	464	307	260
Clayton	1077	928	949	932	976	884	765	666	604	741	1072	1355	1458	1659	1583	328	216	169
Clinton	1374	1315	1292	1270	1246	1162	1073	985	918	1193	1673	1909	2050	2331	2163	428	265	204
Crawford	1378	1309	1299	1265	1260	1194	1124	868	763	852	1176	1601	1663	2041	2027	396	259	242
Dallas	1419	1296	1278	1248	1253	1161	1041	854	768	909	1332	1658	1757	2087	2061	429	266	236
Davis	751	694	680	648	627	579	544	475	440	536	746	917	1035	1202	1100	242	138	121
Decatur	538	540	536	507	485	439	392	347	326	391	540	684	817	922	837	197	113	99
Delaware	1531	1417	1421	1395	1432	1314	1194	1043	957	1195	1722	2077	2234	2565	2347	445	265	195
Des Moines	1345	1252	1219	1167	1137	1064	985	854	781	964	1349	1634	1763	2095	2007	445	257	197
Dickinson	1489	1434	1434	1400	1392	1319	1202	908	793	869	1236	1795	1823	2225	2139	396	256	230
Dubuque	1354	1251	1272	1250	1298	1180	1054	924	841	1040	1498	1867	2008	2285	2175	406	245	181
Emmet	1720	1612	1593	1567	1568	1499	1387	1065	919	1037	1500	2026	2076	2551	2486	454	294	246
Fayette	1330	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, 1950-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Floyd	1387	1311	1250	1227	1238	1169	1119	924	862	1096	1618	1949	2093	2527	2387	351	278	202
Franklin	1672	1583	1522	1512	1532	1473	1389	1113	965	1167	1736	2198	2308	2837	2788	502	318	251
Fremont	1117	1076	1019	1000	983	909	839	760	683	816	1118	1370	1522	1793	1835	407	233	216
Greene	1536	1502	1492	1456	1462	1362	1244	995	890	1037	1526	1987	2077	2479	2444	514	324	279
Grundy	1766	1660	1628	1592	1606	1493	1403	1149	1047	1272	1899	2339	2477	2947	2833	562	346	270
Guthrie	1244	1130	1112	1084	1084	1017	939	754	671	775	1084	1373	1455	1763	1738	354	217	197
Hamilton	1892	1758	1727	1699	1717	1614	1498	1211	1068	1272	1904	2388	2505	3013	2900	566	351	295
Hancock	1673	1571	1508	1499	1519	1464	1375	1105	962	1173	1740	2209	2326	2865	2778	504	315	242
Hardin	1716	1616	1587	1562	1578	1484	1395	1127	994	1184	1772	2199	2306	2775	2688	512	320	265
Harrison	1196	1090	1060	1033	1026	964	882	728	647	748	1016	1298	1399	1694	1657	350	212	202
Henry	1295	1208	1176	1126	1098	1027	932	808	738	911	1276	1518	1638	1947	1830	410	254	205
Howard	1055	976	952	935	955	889	803	676	625	784	1150	1412	1517	1796	1645	305	191	149
Humboldt	1820	1709	1662	1648	1669	1595	1510	1208	1042	1243	1855	2399	2509	3069	3048	582	364	297
Ida	1547	1456	1443	1405	1401	1327	1247	965	848	949	1307	1770	1842	2262	2278	462	294	260
Iowa	1365	1258	1230	1189	1179	1103	1013	855	773	947	1364	1609	1684	2018	1953	430	283	242
Jackson	1176	1107	1107	1088	1099	1012	940	843	776	983	1398	1670	1795	2041	1912	369	222	168
Jasper	1420	1319	1288	1242	1225	1146	1078	916	831	1021	1458	1720	1816	2171	2060	447	285	242
Jefferson	997	927	903	864	842	789	700	606	554	684	958	1107	1195	1420	1303	288	177	154
Johnson	1697	1544	1496	1449	1409	1329	1228	1089	1000	1275	1783	2039	2148	2539	2365	510	324	260
Jones	1305	1224	1206	1185	1170	1088	980	895	832	1076	1513	1732	1860	2116	1985	395	253	200
Keokuk	1226	1168	1131	1087	1065	1005	885	763	691	861	1210	1380	1438	1740	1611	360	241	211
Kossuth	1792	1650	1594	1590	1612	1563	1447	1143	966	1146	1700	2206	2296	2852	2804	499	322	262
Lee	1128	1036	1016	968	936	865	814	711	657	802	1116	1396	1577	1831	1740	391	223	177
Linn	1678	1579	1537	1506	1465	1375	1254	1135	1056	1367	1923	2203	2351	2710	2492	510	323	261
Louisa	1506	1447	1402	1358	1320	1246	1108	984	904	1153	1612	1842	1942	2293	2108	445	270	218
Lucas	608	612	607	574	549	497	459	406	382	457	632	787	939	1061	980	229	126	110
Lyon	1482	1437	1437	1403	1395	1322	1235	933	814	892	1270	1869	1897	2316	2325	447	296	265
Madison	1013	983	946	921	905	834	718	637	577	689	960	1193	1333	1559	1482	327	181	167
Mahaska	1222	1153	1122	1075	1047	979	859	745	681	841	1177	1401	1512	1797	1689	386	240	205
Marion	1108	1058	1039	989	955	881	808	706	654	797	1108	1363	1545	1790	1695	390	224	186
Marshall	1505	1410	1388	1349	1349	1254	1170	971	877	1059	1557	1865	1957	2329	2232	473	303	260
Mills	1174	1091	1033	1014	997	922	862	781	702	838	1148	1438	1598	1881	1884	418	234	220
Mitchell	1319	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, 1950-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1970	1960	1950
Monona	1162	1065	1050	1020	1019	965	912	715	632	715	966	1233	1302	1605	1560	320	198	186
Monroe	758	715	701	668	647	599	530	462	427	522	727	879	982	1146	1062	240	146	130
Montgomery	1034	993	940	922	907	838	789	716	643	768	1052	1318	1464	1724	1751	411	232	221
Muscatine	1603	1498	1452	1417	1369	1290	1169	1065	990	1287	1793	2052	2183	2528	2311	493	307	244
O'Brien	1868	1807	1808	1766	1755	1663	1555	1175	1026	1124	1599	2310	2345	2863	2810	523	346	302
Osceola	1627	1578	1579	1542	1532	1452	1357	1025	895	981	1396	2011	2042	2493	2475	464	302	263
Page	919	887	840	824	811	749	706	640	575	687	941	1220	1355	1595	1626	392	226	216
Palo Alto	1655	1540	1503	1490	1501	1446	1333	1040	887	1029	1510	1968	2033	2514	2511	465	303	249
Plymouth	1576	1415	1404	1367	1362	1290	1224	947	833	932	1283	1736	1806	2218	2254	459	288	253
Pocahontas	1781	1684	1641	1627	1644	1577	1464	1159	995	1173	1738	2272	2364	2905	2891	560	373	311
Polk	1495	1427	1410	1369	1367	1265	1177	977	886	1063	1565	1967	2097	2473	2400	513	312	270
Pottawattamie	1236	1138	1093	1069	1057	984	909	786	702	825	1126	1433	1568	1872	1848	410	238	224
Poweshiek	1371	1258	1228	1187	1175	1101	1027	868	785	963	1385	1620	1695	2033	1959	425	268	240
Ringgold	633	626	610	586	566	517	471	420	388	465	640	806	937	1075	1001	240	137	127
Sac	1648	1639	1635	1595	1589	1501	1377	1058	930	1037	1476	2052	2107	2564	2543	496	327	294
Scott	2119	2017	1956	1923	1845	1739	1566	1463	1376	1820	2528	2856	3064	3484	3207	664	423	330
Shelby	1298	1186	1156	1126	1120	1052	996	816	725	835	1133	1486	1595	1937	1980	430	261	236
Sioux	1685	1562	1556	1517	1510	1431	1346	1028	900	996	1396	1966	2018	2470	2506	503	324	287
Story	1792	1654	1638	1598	1608	1488	1379	1129	1019	1216	1818	2239	2355	2788	2691	552	339	282
Tama	1436	1330	1306	1272	1275	1186	1105	913	828	1004	1483	1806	1903	2266	2192	456	290	245
Taylor	732	712	685	664	647	594	544	489	446	533	732	910	1037	1203	1161	279	159	147
Union	768	751	732	702	678	619	566	505	466	558	769	978	1138	1304	1255	309	172	149
Van Buren	844	773	758	723	699	647	598	522	483	589	821	993	1117	1300	1202	274	156	135
Wapello	907	833	811	777	757	708	632	548	500	618	865	1021	1101	1309	1218	268	167	147
Warren	1083	1050	1035	992	966	882	793	688	636	761	1072	1384	1584	1820	1667	384	213	181
Washington	1603	1501	1454	1397	1368	1291	1151	992	899	1120	1574	1785	1860	2251	2079	466	314	261
Wayne	597	607	602	570	544	493	454	401	377	452	624	800	955	1079	976	225	124	110
Webster	1852	1721	1691	1664	1681	1580	1460	1180	1041	1240	1856	2354	2470	2969	2878	571	357	294
Winnebago	1527	1446	1389	1380	1399	1347	1246	1001	872	1063	1578	2020	2126	2619	2574	454	282	221
Winneshiek	1064	976	974	956	989	908	820	701	642	797	1161	1444	1553	1803	1670	318	199	156
Woodbury	1282	1168	1153	1121	1119	1060	1002	783	691	781	1059	1390	1463	1802	1759	350	224	209
Worth	1471	1402	1341	1325	1340	1279	1187	966	871	1084	1604	1998	2124	2590	2503	444	275	207
Wright	1890	1763	1714	1700	1722	1646	1529	1224	1055	1259	1878	2401	2511	3072	2921	554	348	292
State of Iowa	1356	1295	1249	1219	1214	1139	1054	875	787	948	1357	1691	1801	2147	2066	419	261	218

Table 2. Percentage Change in Per Acre Value of Farm Land by 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 1994 in Iowa Counties.

County	1990- 1994	1986- 1994	1981- 1986	County	1990- 1994	1986- 1994	1981- 1986
Adair	15.8	67.7	-62.9	Jefferson	18.4	80.0	-61.0
Adams	15.0	70.3	-62.2	Johnson	20.4	69.7	-60.6
Allamakee	5.6	68.3	-62.8	Jones	11.5	56.9	-60.7
Appanoose	13.1	61.8	-65.1	Keokuk	15.1	77.4	-60.3
Audubon	13.2	83.5	-61.8	Kossuth	11.2	85.5	-66.1
Benton	10.7	71.1	-63.1	Lee	20.5	71.7	-64.1
Black Hawk	9.2	63.8	-65.4	Linn	14.5	58.9	-61.0
Boone	11.2	75.0	-63.2	Louisa	14.1	66.6	-60.6
Bremer	9.6	68.5	-65.0	Lucas	10.7	59.2	-64.0
Buchanan	9.3	65.3	-64.4	Lyon	6.2	82.1	-64.8
Buena Vista	6.7	80.7	-64.9	Madison	11.9	75.6	-63.0
Butler	10.0	65.5	-65.6	Mahaska	16.7	79.4	-62.1
Calhoun	4.5	74.8	-64.4	Marion	16.0	69.4	-63.5
Carroll	3.7	77.2	-63.6	Marshall	11.6	71.6	-62.3
Cass	16.2	75.0	-61.8	Mills	17.8	67.2	-62.7
Cedar	15.6	57.3	-60.4	Mitchell	11.8	59.1	-66.2
Cerro Gordo	10.4	65.8	-66.5	Monona	14.0	83.9	-60.6
Cherokee	9.3	84.1	-63.5	Monroe	17.2	77.5	-62.7
Chickasaw	9.3	65.5	-65.0	Montgomery	14.0	60.8	-62.7
Clarke	12.4	66.4	-64.2	Muscatine	17.1	61.9	-60.8
Clay	7.7	83.4	-64.6	O'Brien	6.4	82.1	-64.2
Clayton	10.3	78.3	-63.6	Osceola	6.2	81.8	-64.1
Clinton	10.3	49.7	-60.6	Page	13.3	59.8	-64.0
Crawford	9.4	80.6	-62.6	Palo Alto	10.3	86.6	-64.7
Dallas	13.2	84.8	-63.2	Plymouth	15.7	89.2	-62.4
Davis	19.8	70.7	-63.4	Pocahontas	8.3	79.0	-65.8
Decatur	10.9	65.0	-64.6	Polk	9.4	68.7	-64.2
Delaware	6.9	60.0	-62.7	Pottawattamie	16.9	76.1	-62.5
Des Moines	18.3	72.2	-62.7	Poweshiek	16.7	74.6	-61.4
Dickinson	7.0	87.8	-64.4	Ringgold	11.8	63.1	-63.9
Dubuque	4.3	61.0	-63.2	Sac	3.7	77.2	-63.7
Emmet	9.7	87.2	-64.0	Scott	14.9	54.0	-60.5
Fayette	6.4	62.2	-64.4	Shelby	15.9	79.0	-62.6
Floyd	12.0	60.9	-65.9	Sioux	11.6	87.2	-63.6
Franklin	9.1	73.3	-66.0	Story	11.4	75.9	-63.4
Fremont	13.6	63.5	-61.9	Tama	12.6	73.4	-63.5
Greene	5.1	72.6	-64.1	Taylor	13.1	64.1	-62.9
Grundy	10.0	68.7	-64.5	Union	13.3	64.8	-64.3
Guthrie	14.8	85.4	-61.9	Van Buren	20.7	74.7	-62.8
Hamilton	10.2	77.2	-64.6	Wapello	19.8	81.4	-61.8
Hancock	10.1	73.9	-66.4	Warren	12.1	70.3	-65.0
Hardin	8.7	72.6	-64.2	Washington	17.2	78.3	-60.1
Harrison	16.6	84.9	-61.8	Wayne	9.7	58.4	-65.1
Henry	17.9	75.5	-62.1	Webster	10.2	77.9	-64.9
Howard	10.5	68.8	-65.2	Winnebago	9.1	75.1	-66.7
Humboldt	9.0	74.7	-66.0	Winneshiek	7.6	65.7	-64.4
Ida	10.4	82.4	-62.5	Woodbury	14.6	85.5	-61.6
Iowa	15.8	76.6	-61.7	Worth	9.8	68.9	-66.4
Jackson	7.0	51.5	-62.0	Wright	9.8	79.1	-65.7
Jasper	15.9	70.9	-61.7				
				State of Iowa	11.7	72.3	-63.3

through -66.7%) across counties, the gains in the following years varied to a somewhat greater degree. Twenty-two counties had increases in farm land values of at least 80%, while the gains in 10 others were less than 60% (Figure 3). Increases from 1986 to 1994 were greatest (+85%) in Dickinson, Emmet, Guthrie, Kossuth, Palo Alto, Plymouth, Sioux, and Woodbury counties, most of which are in northwestern Iowa.

**Note:** Annual data from 1950 through 1994 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, 1950-1994.

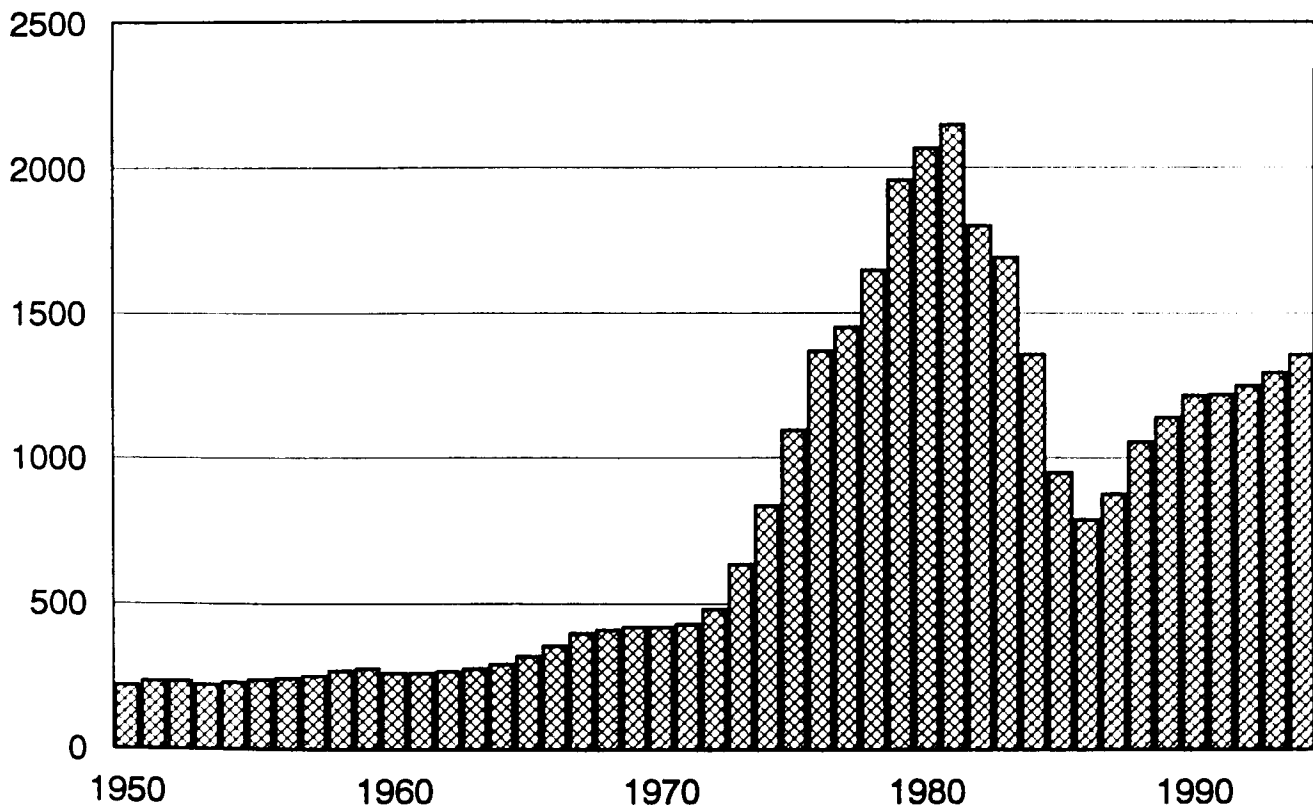


Figure 2. Average farm land value per acre, 1994.

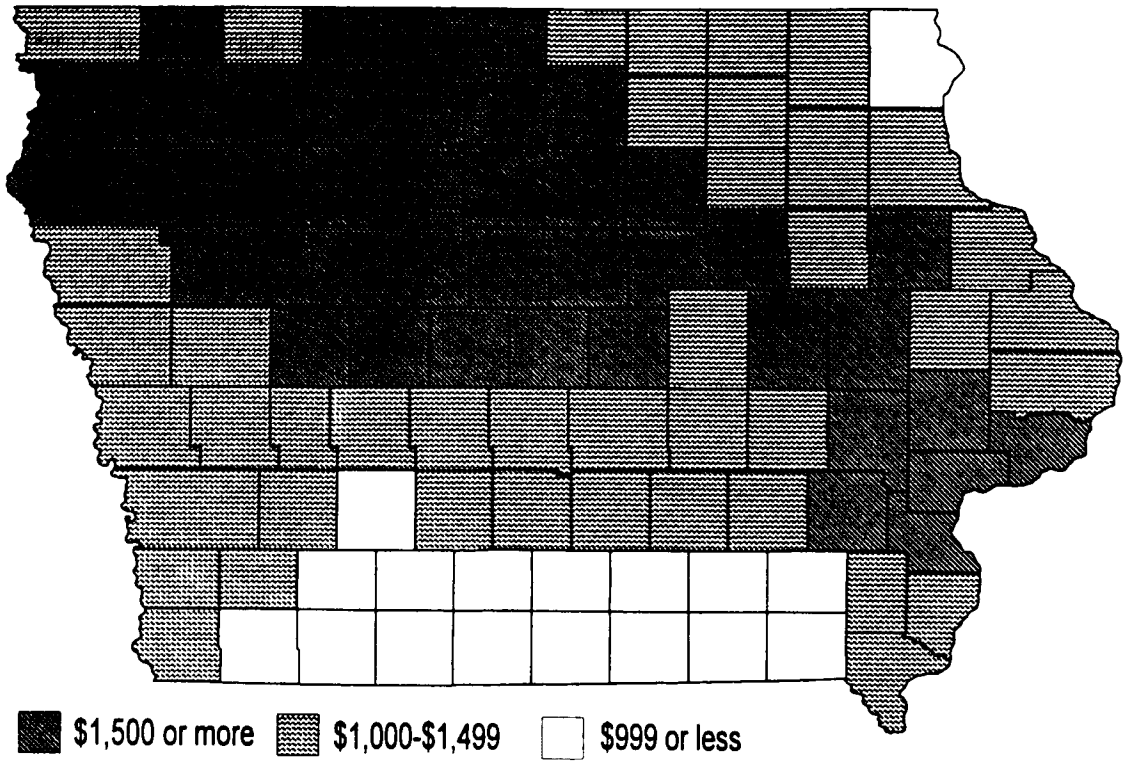
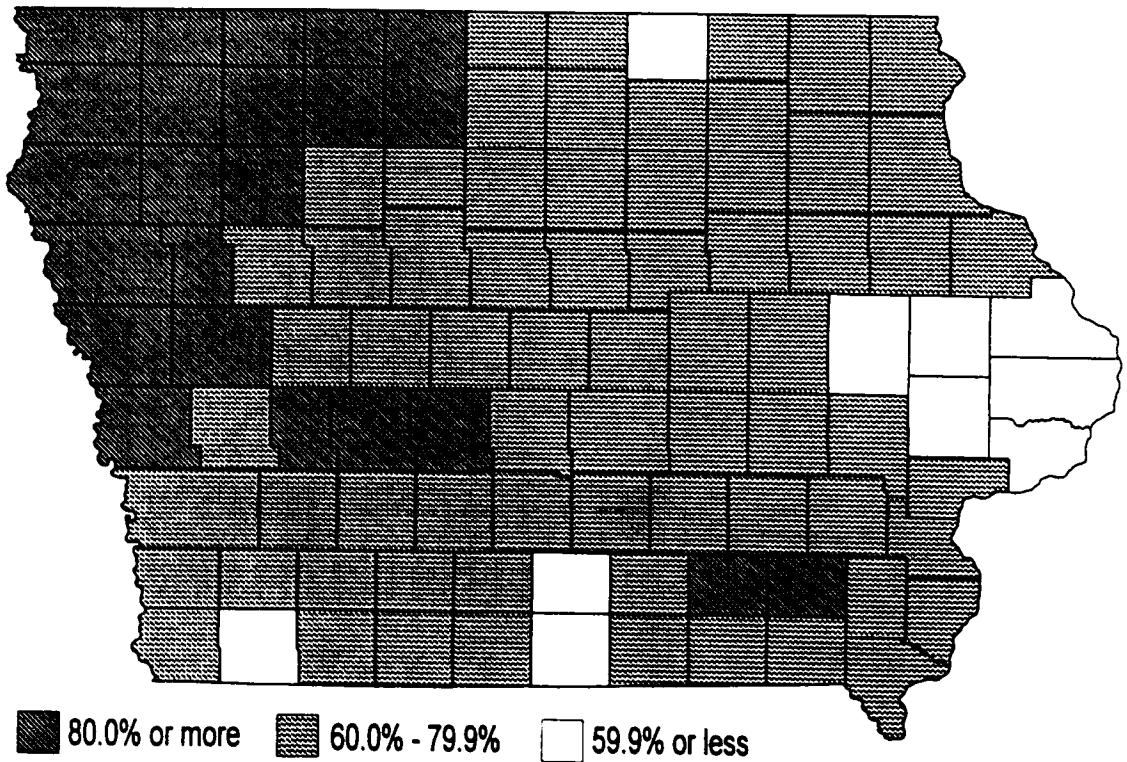


Figure 3. Percent increase in per acre value of farm land, 1986-1994.



## Corn and Soybean Production in Iowa's Counties:

### 1975-1994

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The Iowa Department of Agriculture and Land Stewardship provides annual estimates of production of selected crops. Reports are available on corn, corn silage, soybeans, oats, wheat, alfalfa hay, and all hay. In this section, information is included on corn and soybeans harvested for grain.

Weather is a key factor influencing differences in the production of corn and soybeans from one year to the next. The excessive rains and consequent flooding that occurred during 1993 caused a decrease in acres harvested and bushels produced per acre; thus, the one-year increases between 1993 and 1994 were particularly dramatic because of the exceptionally high numbers recorded for corn and soybean production in 1994. Federal agricultural policy and other factors can affect planting and harvesting as well.

#### Corn Production

About 12.7 million acres of corn were harvested for grain in 1994 (Table 1), a gain of 1.7 million acres from 1993 when many were lost to excessive flooding. These acres generally increased from 1987, when about 10 million acres were harvested, to 1992, when nearly 13 million acres were reported (Figure 1). Production averaged about 13 million acres from 1975 through 1985 except for 1983, when fewer 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 but a gain of 15.5 percent from 1993 to 1994.

In 1994, 1.9 billion bushels of corn were produced, which was the highest figure of all years studied, although it exceeded that for 1992 by less than 27 million bushels (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 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 20 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). The 1994 figure (152.0) was the highest of the years reported while that for 1993 (80.0) 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 1994, for example, average yield of corn was at least 155 bushels per acre in 34 counties (Figure 3); these counties tended to be in the central and southeastern sections of the state. Two of these counties reported yields of at least 170 bushels per acre (Calhoun, Webster). Yields were under 145 bushels per acre in 24 counties, although they were less than 135 bushels per acre in only five counties (Appanoose, Clarke, Davis, Lucas, Wayne).

Table 1. Estimated Acres (in 1,000s) of Corn Harvested for Grain in Iowa Counties, 1975-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	109	98	112	109	112	106	92	90	102	112	114	73	115	120	116	116	109	110	109	101
Adams	61	54	63	60	63	61	55	50	58	64	61	46	68	80	74	73	67	68	68	62
Allamakee	72	63	73	71	68	66	55	62	74	81	79	51	86	89	76	75	75	70	65	63
Appanoose	30	21	33	32	31	30	24	26	35	42	32	20	35	41	38	37	37	39	40	39
Audubon	105	97	110	108	109	108	99	94	111	126	117	86	124	127	128	124	122	111	116	108
Benton	182	166	181	179	175	175	156	153	177	198	190	122	181	181	175	173	185	172	177	174
Black Hawk	150	137	154	143	150	149	130	120	145	163	161	105	142	153	152	146	146	143	142	143
Boone	145	123	141	133	134	135	119	108	121	134	127	87	148	152	154	153	151	154	158	154
Bremer	120	110	123	113	115	114	93	89	108	120	116	70	116	128	117	110	109	108	114	107
Buchanan	174	163	181	181	177	172	150	143	164	189	180	129	171	178	166	165	156	165	169	153
Buena Vista	166	148	164	151	155	159	139	122	145	161	157	107	165	176	170	169	167	163	164	160
Butler	152	136	158	146	154	149	136	127	155	180	170	104	164	176	169	169	168	164	171	157
Calhoun	167	144	163	145	152	153	131	117	155	176	173	104	159	160	158	155	150	152	157	157
Carroll	157	147	161	159	161	162	137	127	142	157	152	104	159	164	160	160	154	139	156	154
Cass	131	115	133	125	127	124	109	102	114	122	118	84	136	141	129	144	135	135	131	120
Cedar	169	158	173	177	174	167	149	134	145	164	160	111	184	183	179	177	182	172	169	155
Cerro Gordo	166	143	172	153	166	162	140	122	147	173	164	115	168	170	159	151	151	159	178	156
Cherokee	142	132	145	141	144	142	124	107	123	146	137	87	147	156	143	146	148	142	140	143
Chickasaw	131	116	136	123	122	122	104	105	128	141	135	81	136	136	121	115	115	109	113	107
Clarke	37	22	38	37	36	37	32	37	45	48	41	31	49	56	43	44	44	40	37	29
Clay	145	105	144	133	135	135	116	102	119	133	132	87	157	159	152	147	142	140	143	138
Clayton	142	136	157	148	138	130	115	135	157	170	168	111	158	164	150	148	147	139	131	124
Clinton	196	174	197	196	189	192	166	167	190	224	227	152	215	214	209	210	204	201	202	188
Crawford	174	162	176	170	170	172	145	127	149	173	161	115	163	173	180	181	167	167	175	169
Dallas	135	123	139	138	137	134	120	108	126	146	147	93	146	150	160	154	149	155	160	153
Davis	38	32	44	44	43	41	39	42	54	60	50	32	53	64	55	60	58	62	62	57
Decatur	32	25	34	32	30	32	21	36	58	65	52	32	51	57	48	45	46	45	44	42
Delaware	180	166	185	184	177	172	141	146	161	183	175	123	178	179	171	168	162	158	153	147
Des Moines	76	66	75	76	73	72	70	68	92	102	102	66	93	97	93	93	93	92	94	97
Dickinson	88	46	88	78	86	85	76	68	82	96	89	56	95	103	94	96	95	88	91	94
Dubuque	114	104	121	116	113	112	88	104	114	121	121	93	129	132	127	124	115	113	107	103
Emmet	110	53	108	97	103	102	93	80	110	127	119	76	118	113	110	106	104	102	106	104
Fayette	194	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, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	138	121	140	131	132	128	112	109	125	140	140	80	134	138	133	128	126	123	131	124
Franklin	180	160	183	145	170	170	147	132	148	173	166	107	180	183	179	171	167	160	170	169
Fremont	116	82	118	111	113	114	99	88	103	119	104	69	101	113	112	120	120	122	119	115
Greene	161	140	155	146	145	146	124	109	126	137	132	90	152	156	163	157	153	145	164	162
Grundy	164	144	164	151	161	160	140	129	142	155	154	101	159	160	152	150	155	152	163	152
Guthrie	107	98	112	109	106	106	97	87	118	133	121	73	120	119	111	106	105	104	102	102
Hamilton	170	148	168	149	160	159	136	122	134	146	139	99	160	170	170	165	167	169	178	169
Hancock	168	144	175	152	163	163	147	127	151	172	166	99	171	175	166	162	163	164	167	160
Hardin	174	155	172	156	167	161	138	136	157	174	170	120	171	174	169	162	166	175	177	170
Harrison	160	146	166	157	156	154	143	127	149	174	156	96	165	175	170	166	158	167	171	161
Henry	89	79	92	92	88	89	81	74	86	97	95	73	104	113	106	102	99	105	106	98
Howard	107	96	115	103	104	101	89	83	105	116	114	72	104	117	108	100	99	92	92	87
Humboldt	134	113	130	99	122	123	111	96	110	124	121	77	127	131	127	125	127	122	123	124
Ida	119	114	123	125	127	125	110	97	117	137	132	83	126	130	124	128	131	126	126	124
Iowa	130	110	129	128	121	124	99	117	138	149	146	95	154	163	146	142	139	144	139	129
Jackson	99	83	104	101	98	96	74	85	101	110	108	73	122	129	107	104	100	97	95	94
Jasper	166	147	169	162	164	166	147	139	155	180	174	118	169	180	174	170	170	171	175	159
Jefferson	70	59	73	74	72	72	60	67	82	96	87	49	77	83	76	73	74	83	80	73
Johnson	113	103	124	127	119	118	107	105	126	145	143	107	149	149	147	144	135	139	137	128
Jones	150	131	152	150	146	141	117	121	144	162	157	105	152	157	143	142	140	136	135	128
Keokuk	114	102	117	120	113	119	107	105	125	134	117	86	127	141	132	126	132	135	133	123
Kossuth	304	241	308	237	274	272	234	206	238	260	261	180	280	290	276	274	268	255	268	271
Lee	79	63	81	77	74	71	64	71	93	106	97	54	88	88	86	83	81	89	95	98
Linn	143	131	146	149	149	143	126	120	134	151	153	103	153	163	152	152	147	157	160	153
Louisa	88	80	88	89	88	84	83	76	90	102	97	67	98	106	97	86	83	85	83	84
Lucas	27	16	32	30	29	30	27	30	42	46	39	25	40	48	43	43	41	40	44	39
Lyon	154	132	153	147	143	138	123	120	140	155	155	111	153	156	164	169	154	149	139	148
Madison	70	51	73	71	74	71	63	62	95	104	92	56	76	87	88	89	83	82	85	78
Mahaska	125	104	124	124	119	120	104	104	111	126	121	91	128	135	136	135	131	136	143	128
Marion	77	60	79	74	74	76	71	69	85	93	74	48	77	90	88	82	79	67	90	85
Marshall	146	134	155	146	151	149	132	127	142	149	145	96	154	163	161	156	150	160	169	157
Mills	100	87	100	96	100	96	83	81	93	102	98	61	102	114	103	103	100	94	99	96
Mitchell	130	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, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	156	141	167	161	163	165	144	128	159	178	155	121	175	184	164	162	172	163	168	165
Monroe	28	15	31	28	27	29	23	26	40	43	39	22	33	38	35	42	40	41	43	37
Montgomery	90	81	90	88	89	87	78	71	79	83	84	60	86	96	97	105	96	96	95	87
Muscatine	100	84	99	97	92	96	86	86	111	128	128	76	104	108	102	97	101	93	97	92
O'Brien	160	135	161	158	160	157	140	126	145	162	158	112	158	162	150	155	163	152	157	152
Osceola	112	72	111	108	107	105	94	80	95	110	102	63	107	112	109	110	106	103	104	101
Page	99	88	102	101	101	97	86	82	93	101	93	68	95	103	113	112	107	107	109	102
Palo Alto	154	125	158	122	151	149	132	125	156	182	164	100	162	171	160	155	154	151	160	153
Plymouth	217	203	227	213	217	211	187	189	210	239	231	155	233	236	234	244	235	225	223	231
Pocahontas	173	150	168	146	156	157	138	121	150	168	153	97	170	175	169	162	158	152	160	157
Polk	96	81	101	95	97	99	85	78	86	98	95	67	101	117	110	114	110	120	118	116
Pottawattamie	237	214	243	236	235	227	202	198	229	256	247	147	220	241	245	214	220	223	221	218
Poweshiek	119	109	123	124	122	115	93	101	112	125	123	88	146	141	131	125	130	130	128	122
Ringgold	46	36	49	48	46	48	37	40	63	70	62	33	55	64	62	65	62	62	65	58
Sac	161	146	157	145	150	150	133	115	137	153	148	112	159	163	169	169	155	160	155	159
Scott	127	118	128	126	123	123	109	107	115	136	142	113	148	144	136	134	135	127	130	117
Shelby	179	168	181	176	175	173	151	134	171	194	179	109	178	185	182	182	168	169	177	165
Sioux	240	210	237	233	228	223	203	186	207	233	218	143	226	250	236	241	234	218	194	220
Story	160	140	160	156	161	161	142	123	148	168	161	97	146	161	170	164	158	156	157	154
Tama	179	162	184	175	182	180	161	147	171	197	179	108	181	190	176	174	177	180	178	168
Taylor	68	59	70	66	67	67	59	57	76	90	75	55	71	84	81	78	71	74	67	67
Union	52	39	52	50	51	47	40	39	60	68	56	38	49	62	57	57	53	52	55	48
Van Buren	46	34	48	49	46	45	43	43	58	70	57	34	58	64	58	58	55	58	60	57
Wapello	58	40	59	57	56	53	45	48	50	57	51	33	59	67	65	63	62	66	64	62
Warren	75	53	80	77	78	82	64	68	97	105	92	55	79	95	87	85	86	77	86	82
Washington	130	116	132	139	134	130	120	119	141	165	148	109	153	160	151	151	150	153	141	138
Wayne	49	38	54	50	45	48	40	45	73	86	72	38	66	78	64	61	61	66	63	57
Webster	190	164	186	166	174	172	151	133	150	162	158	119	175	188	189	183	179	181	189	190
Winnebago	129	104	134	104	120	117	99	89	111	118	119	80	119	130	116	114	108	109	118	112
Winneshiek	127	109	131	131	123	117	88	109	129	140	136	84	137	146	141	130	128	119	117	112
Woodbury	193	181	207	207	208	205	185	162	199	216	199	132	239	271	251	260	242	238	236	232
Worth	112	93	112	99	104	103	91	80	103	117	113	71	111	115	116	110	110	114	118	113
Wright	175	155	174	136	161	157	140	120	139	163	164	102	163	172	179	177	174	164	168	167
State of Iowa	12700	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, 1975-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	16425	7558	15736	13802	12856	13892	7898	11496	13071	14294	11050	5660	11740	14537	10400	13300	11300	5509	10893	6543
Adams	9054	4250	8516	8024	7461	6661	4035	6250	6923	8124	4254	2747	6511	9523	5800	8500	6400	4132	6938	3576
Allamakee	10569	5241	9406	9471	9080	8001	3603	8455	10267	9295	8861	5621	9976	11286	8700	9300	8850	8249	5671	6195
Appanoose	4082	1368	3866	2883	3152	2458	1184	2870	4397	5035	2858	372	2941	4444	3300	4300	3350	2388	3537	2875
Audubon	15793	7852	16116	14242	13323	14203	9063	12478	13987	16432	11917	7659	13878	14682	11600	14900	13150	6924	9003	7626
Benton	26202	14065	25493	16693	21111	18818	8962	21042	23779	22419	23024	11089	22677	22790	18500	23200	22300	14386	16307	15996
Black Hawk	22866	10109	24034	15935	18712	13818	9616	17197	20935	21268	17186	11687	18253	20221	17900	20100	17300	15698	13054	13696
Boone	24017	10345	23041	16352	15902	17670	10335	15463	17495	16832	15355	9737	19082	18466	18300	21700	18250	5174	16143	15922
Bremer	18120	8723	19174	14792	15390	11268	6571	12298	15381	16458	13403	7920	14376	17229	14400	14400	13300	12572	10168	9649
Buchanan	26179	12500	27270	22359	23631	19568	11251	20166	23915	22075	21353	12987	22238	23735	21000	23200	19050	17866	16856	15433
Buena Vista	26389	11868	25244	18161	20162	20990	15662	16052	19036	21282	15426	8713	20562	22811	20700	21800	21300	19524	12135	15886
Butler	21336	10066	24094	18277	19907	14032	12827	16684	20834	23788	19295	10870	20286	22321	21000	21500	18700	15163	15373	13917
Calhoun	28684	11956	27385	16762	19012	20596	16202	16724	20796	22376	18005	10524	20292	21547	19500	21500	18500	12743	13469	14867
Carroll	25356	10364	24637	19402	19370	21022	15931	17242	19666	20213	16595	9091	18165	20430	15700	19800	17050	7051	11351	12794
Cass	19045	8299	19806	16387	15764	16224	9947	13592	14827	16042	12658	7661	15029	16407	11400	17700	14750	10308	13584	7932
Cedar	26631	14404	25514	19236	23723	22056	9110	16117	20882	22097	21505	10099	25460	25861	22300	25500	23550	21235	19762	17040
Cerro Gordo	24514	9254	24695	18339	22759	15671	13981	16157	21262	21714	18315	12550	21365	22808	20700	19900	18100	16566	16688	14513
Cherokee	21397	11583	21869	19137	18813	18777	14914	13766	16564	18464	15915	7793	18186	19077	16000	18400	18150	15039	9712	13318
Chickasaw	18787	8250	19163	15968	15808	12041	7166	13927	17418	16169	14002	7865	15065	16840	14800	14800	13250	12158	8375	8507
Clarke	4822	942	4598	3753	3746	2542	1249	3710	4493	6260	2522	830	3926	6362	3600	4300	4300	1617	3533	2306
Clay	22626	6894	21206	14925	18073	17555	11595	13924	16330	17786	13706	7347	17792	21401	19200	19000	16650	15671	12228	13215
Clayton	20714	12262	21097	19750	19454	17407	7655	18801	23080	20538	19528	11803	19530	20615	17400	18600	17350	16298	12129	12309
Clinton	31300	17560	27930	20755	25998	23426	8828	18206	25722	26002	25821	13364	28245	28758	25700	27400	23400	21922	19262	20227
Crawford	26298	12447	25490	20885	21297	21042	15045	16096	18905	20206	17797	9155	17972	16427	12200	19300	18750	10758	9241	14040
Dallas	21186	11681	21306	17097	17518	18735	10591	15132	16627	16558	16807	8254	18450	20266	15500	20900	15900	8082	16600	13119
Davis	5042	2022	5662	4097	4590	2712	2044	3857	5798	7479	5115	691	5045	6766	5800	7100	5600	2968	5613	4317
Decatur	4460	1195	4187	3382	2893	2731	837	3932	6786	7790	4410	896	4574	6496	4000	4600	4700	2254	4175	3039
Delaware	27934	12840	26219	23057	24619	21021	9116	20348	24168	20861	20729	10962	23444	24075	21300	22600	19050	17206	15216	15147
Des Moines	12164	6228	10851	6991	9390	6001	4542	7532	13475	14104	13700	4491	12437	13413	10800	12900	10100	8900	10561	10478
Dickinson	12755	2528	11829	9431	11019	11635	8067	9011	11345	11859	10240	4732	11208	13509	11800	11700	11400	8503	6074	8191
Dubuque	17122	8776	16317	15107	15423	12109	5675	13576	16835	14561	15048	8909	16710	16343	15500	16100	13100	11656	10178	10310
Emmet	16914	2811	15912	11421	13798	14218	10386	11417	16206	16959	12099	6780	14775	16244	15300	13500	13050	11061	8492	10473
Fayette	27860	13980	28916	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, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	19631	8840	20201	16297	18334	10648	9386	14364	17597	18366	16158	7817	16059	17865	16800	16800	14700	13550	11632	9775
Franklin	26768	10480	29143	16997	22220	21688	16218	18591	21936	24310	19463	11549	22986	24533	23600	22600	20100	13885	17596	17895
Fremont	16644	6491	18391	14187	12961	13943	11099	10347	14759	14494	10037	5894	9532	13517	10500	14000	11450	6710	12290	8193
Greene	25822	11813	26161	18200	17632	18600	12336	15976	17427	18057	16028	9369	19287	21231	18400	22200	18300	5472	15358	15396
Grundy	24198	11149	26184	18412	18868	15309	12577	18144	17812	19864	16757	11941	20717	21006	18600	20600	18500	14824	17760	16551
Guthrie	16657	7954	16489	13157	12777	14465	9072	11352	14814	16301	13194	6165	13519	14347	10700	13100	11250	5818	8747	7386
Hamilton	28267	11044	27672	18347	19190	24542	10900	17462	19706	20430	15755	10306	20749	23960	21300	23200	19950	12988	17942	17047
Hancock	25805	10818	26440	16758	22427	20469	16886	17463	22564	24026	18094	9823	21655	24697	21200	21200	20450	18488	16477	15196
Hardin	27183	11975	28310	19034	20652	18803	11528	19456	22359	25450	21114	13980	22578	22537	20400	22500	19050	14960	18338	18095
Harrison	23104	14366	25757	18340	17541	14940	13006	17360	19137	21838	16066	8362	18113	16211	13600	19700	18200	12251	12920	13520
Henry	14183	6336	13319	9018	10852	6385	4942	7720	11328	12738	10868	3436	13185	15097	12600	14100	10900	9883	12410	10281
Howard	15024	6026	14033	12400	13847	12647	5612	10730	13915	13038	12313	6927	11130	14543	13000	12200	11350	10395	6945	5527
Humboldt	21329	8445	21491	10782	15375	18289	11861	13693	15413	15522	13594	7522	16807	18514	15200	15800	16200	12091	11768	12690
Ida	17858	9853	18534	15243	16232	16300	13179	12096	15017	17063	15614	7630	15102	14108	8900	14200	15550	12913	7882	11899
Iowa	19749	8716	16951	13684	15111	12965	3156	14483	18008	19135	18062	6585	18467	20628	16500	18400	15300	10649	14904	11041
Jackson	14440	7352	12287	9117	12747	10955	3321	9838	13067	11587	11931	5593	15092	15585	12300	12200	10800	9636	7577	8939
Jasper	26126	14183	25262	18456	20651	19166	11165	19192	19766	22299	22078	9726	21140	22335	17900	21400	19150	8802	18870	14929
Jefferson	10817	4115	10054	7382	8879	6277	3442	6969	10967	11500	10288	1569	9093	10166	7700	9400	7800	6360	8641	6527
Johnson	17613	8093	16658	12366	15130	12013	4921	11537	15995	16691	16885	8231	18649	19969	15700	19200	15800	14633	15728	11755
Jones	22929	11164	20655	16522	18861	15402	5833	15062	20941	20233	20520	9341	20035	21101	17800	18800	16750	14042	11602	13408
Keokuk	17398	8025	15621	11632	13572	12360	4197	13437	16568	16484	14409	3325	15612	17848	15300	17000	15000	9215	14535	11012
Kossuth	47625	18020	48520	25808	38011	39247	28548	30099	36246	37065	30678	17738	37409	40075	36400	35700	33450	25897	25324	27764
Lee	12397	4877	12033	7634	8178	3309	2454	6725	12207	14457	11905	2199	10976	10230	9300	11500	8000	5130	9137	8872
Linn	22073	10696	20703	14178	18979	16463	6056	15077	18356	17314	19306	8000	19731	21473	17400	19800	17000	15140	15196	14151
Louisa	13676	7205	12465	7983	11515	6221	4087	7551	12049	12305	12652	4225	12851	14398	11900	11800	9050	9027	9080	8629
Lucas	3468	851	4088	3003	3018	1922	1256	3097	4995	5341	3254	820	3273	5513	3900	4400	3800	1683	4024	2615
Lyon	23444	11335	20570	18122	16624	16467	8745	14472	18856	18629	16057	9514	16050	17272	16900	19400	17000	14184	7946	10982
Madison	10622	3803	10388	8201	8275	9074	4406	7500	12151	12265	8122	4098	7622	10842	8700	9800	8650	2943	8240	5229
Mahaska	19823	8708	17896	12891	14462	13478	5867	14079	14019	16506	14296	4530	15011	16426	14700	17300	13550	6641	14792	11112
Marion	12364	4872	10913	8084	8865	8566	5820	8898	10995	12020	8088	2905	8143	11458	8100	9700	8300	1229	8839	7442
Marshall	22174	11499	23832	18628	19221	18091	9299	18209	18992	19666	17819	10490	19931	19690	19200	20600	16650	6780	17700	16363
Mills	14723	6486	15618	12716	11988	10538	8960	10259	12163	13063	9641	5526	10534	13351	10200	12600	10700	5311	9406	7553
Mitchell	19192	7461	18560	15186	17870	15493	8601	12409	16098	15215	13606	7833	15401	14742	14700	14800	13400	12285	8675	8766

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

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

## Federal Funds in Iowa's Counties: 1984-1994

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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 nearly \$13.2 billion in Iowa for 1994 (Table 1). The second area includes other federal assistance, which amounted to \$4.0 billion. Both of these general areas include subcategories that provide more detailed breakdowns of these expenditures.

### Direct Federal Expenditures or Obligations

In 1994, direct federal expenditures or obligations exceeded \$100 million in 20 counties. Polk was the leader with \$2.5 billion; no other county topped \$1 billion. In 11 counties, the amount of federal funds received through direct federal expenditures or obligations was less than \$40 million in 1994, although they were under \$30 million only in Adams. In 1984, \$6.3 billion came to Iowa through direct federal expenditures or obligations (Table 7); this increased to approximately \$9.8 billion in 1989 (Table 6) and has increased each year since. From 1984 to 1994, these expenditures more than doubled (+108.5%).

The \$2.3 billion for grants awarded within counties in 1994 accounted for 17.3 percent of the total direct federal expenditures or obligations in Iowa. These funds increased each year from 1989 to 1994 (Tables 1-6), with the subtotal nearly \$1.2 billion higher in 1994 than in 1984. This subcategory includes a large number of federal programs in several areas (see notes at the end of this section). In 1994, 29 counties received at least \$10 million in grant awards from federal sources. Polk (\$796 million), Johnson (\$141 million), and Story (\$102 million) had the largest shares in this subcategory. Adams, Audubon, Grundy, Hancock, and Worth received less than \$3 million in grant awards. Four counties (Black Hawk, Johnson, Polk, Story) had nearly half (49.6%) of all grant awards for the state. Polk county (35.1%) alone received more than a third of the total.

Salaries and wages totaled nearly \$954 million in 1994. 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 1989-1994 period; the percentage increase in salaries and wages from 1984 to 1994 was 72.8. Salaries and wages paid by federal funds in 1994 exceeded \$10 million in 11 counties, topped by Polk with \$321 million, which accounted for 33.7 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 (55.0%) of all federal funds in this category. On the other hand, 19 counties received less than \$2 million in federally paid salaries and wages.

More than a third (37.0%) of the total direct federal expenditures or obligations went for retirement and disability payments; almost \$4.9 billion was received by individuals in Iowa in 1994. This includes

Figure 3. Bushels of corn harvested for grain per acre, 1994.

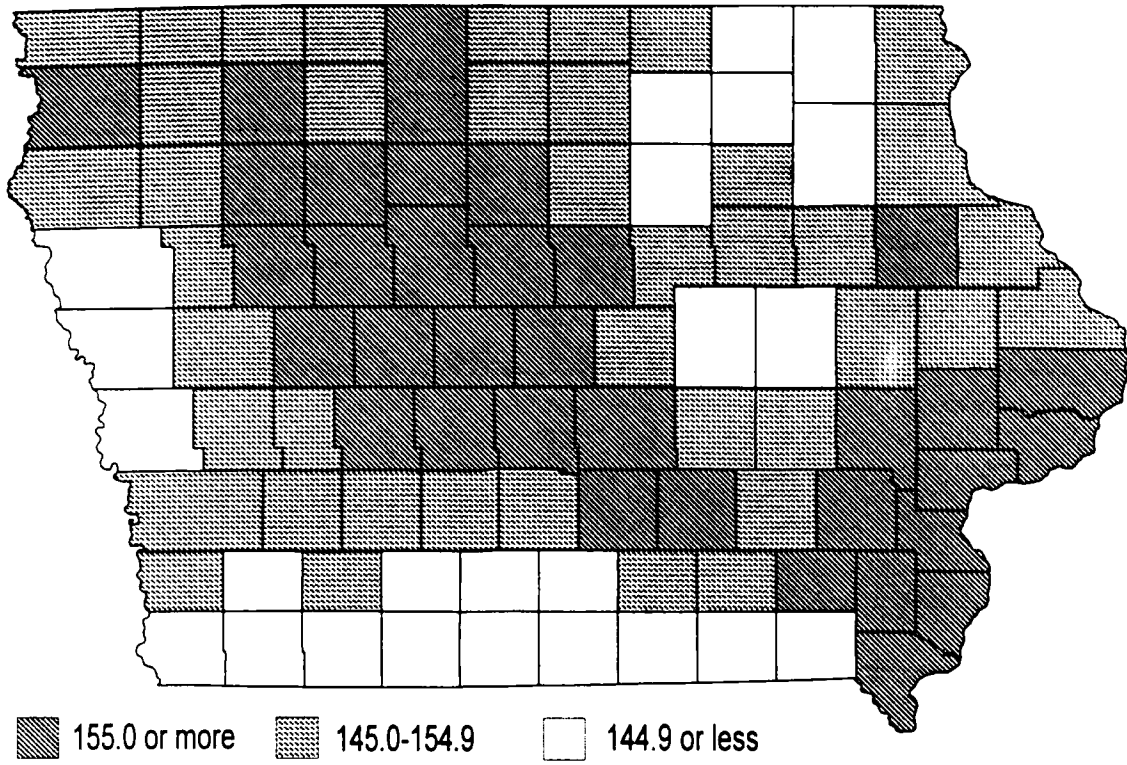


Figure 4. Bushels of soybeans per acre, 1994.

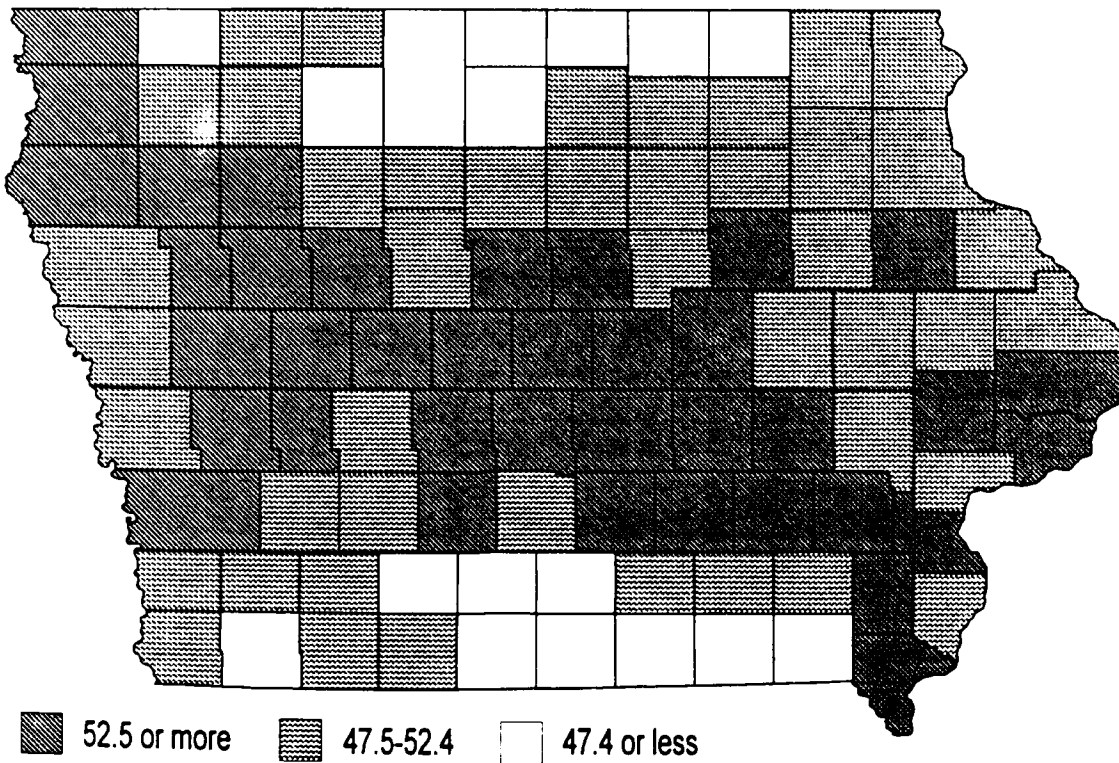


Figure 1. Acres of corn and soybeans harvested for grain in Iowa, 1975-1994.

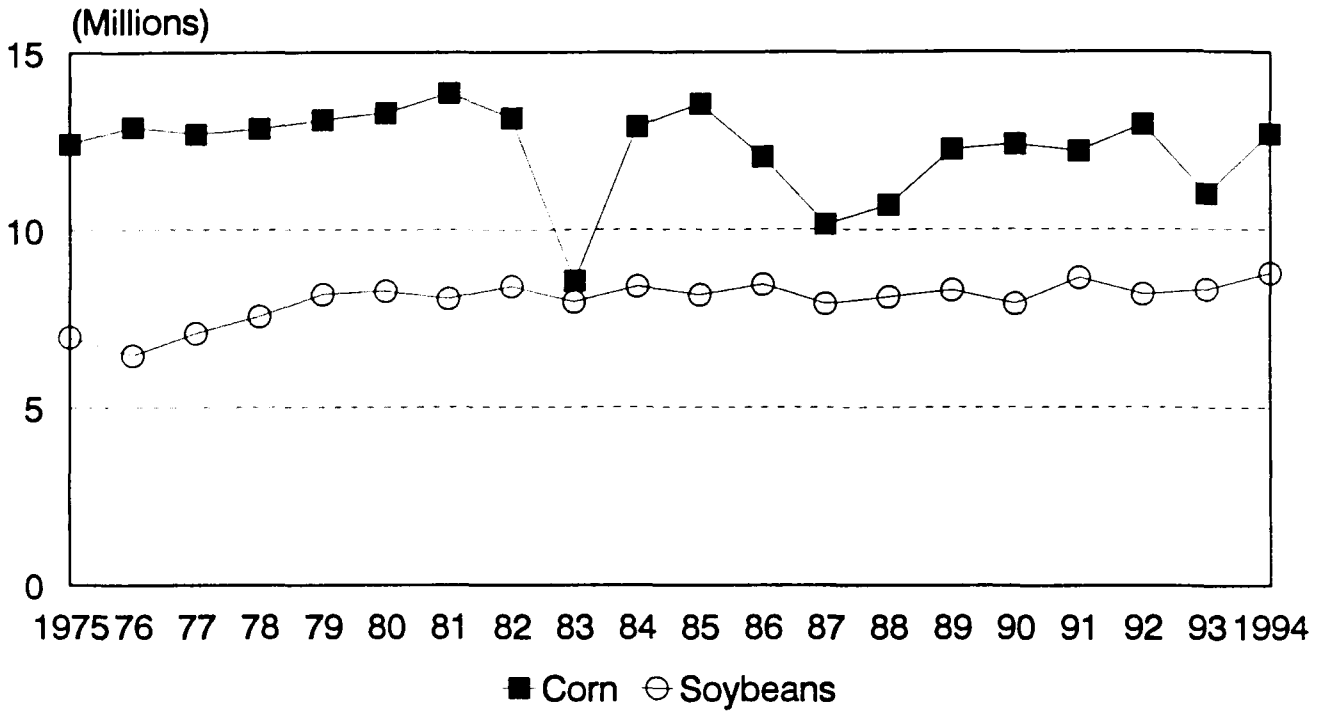
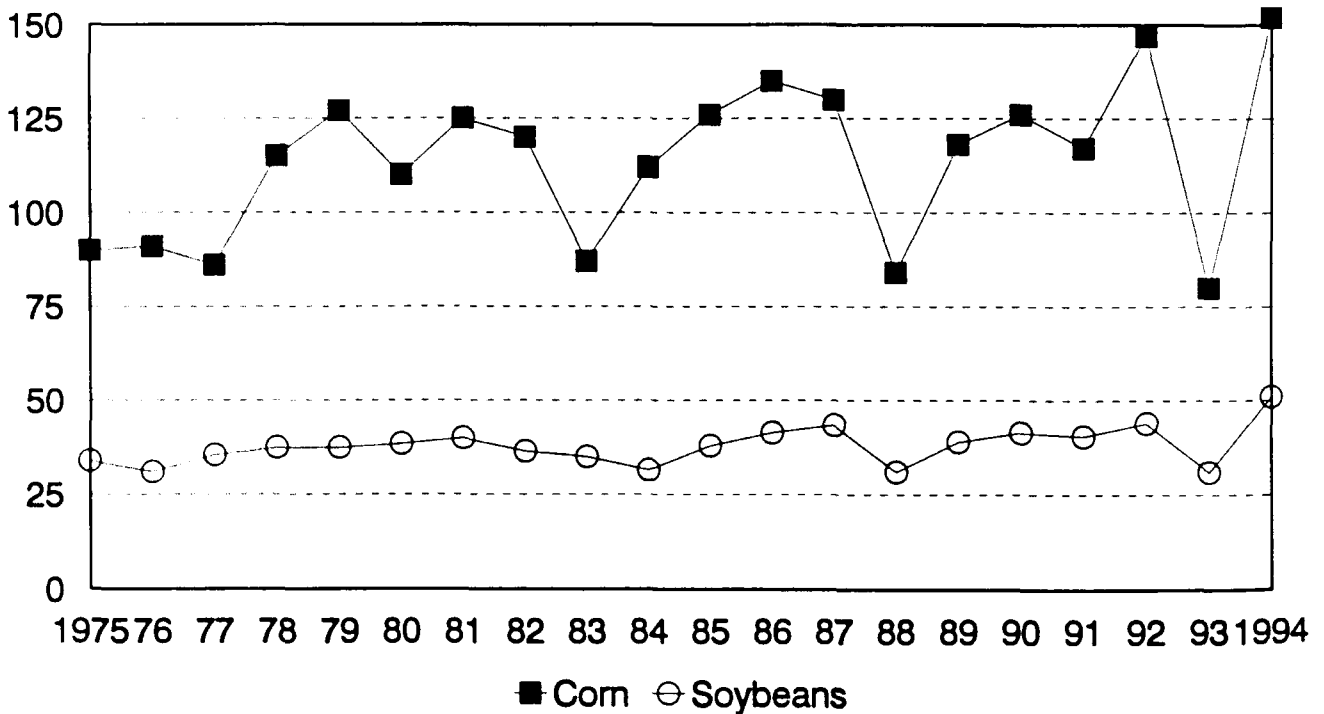


Figure 2. Bushels of corn and soybeans per acre in Iowa, 1975-1994.



## 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; 8.8 million acres were harvested in 1994, which was at least 140,000 acres more than any other year.

The greatest number of bushels of soybeans was harvested in 1994 when nearly 450 million bushels were produced (Table 5). That exceeded the previous record of 359 million reported in 1992. The 1993 yield of 257 million bushels was smaller than all but the harvests in 1975-1977 and 1988. Of the 20 years noted in Table 5, only in 1976 were fewer than 200 million bushels produced; harvests topped 300 million bushels during 1979-1994 all years except four (1983, 1984, 1988, 1993).

The record number of bushels produced in 1994 provided a record yield per acre as well (Table 6, Figure 2). The average number of bushels of soybeans harvested per acre was 51 that year, which was seven bushels higher than the previous record of 44 in 1992. Yields in 1993 averaged 31 bushels per acre, which was one of the lowest reported during these 20 years. Three other years (1976, 1984, 1988) also had yields of less than 32 bushels per acre. As with corn, the 1993-1994 period produced both the highest and lowest yields.

Soybean production varies across counties, of course (Tables 4, 5, 6). The average number of bushels produced in 1994 was at least 52.5 bushels per acre in 38 counties (Figure 4); Scott was highest (57.3). Seventeen counties harvested fewer than 47.5 bushels of soybeans per acre in 1994, with Appanoose the lowest at 41.3.

## 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 20 years examined. In seven of the nine 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 1990-1994 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.

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	50.6	33.7	44.2	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	48.6	28.4	37.0	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	48.1	31.5	43.6	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	52.2	36.7	41.9	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	47.9	23.2	44.3	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	46.2	18.8	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	44.3	31.3	43.3	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	45.4	18.9	44.7	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	54.3	41.2	45.2	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	50.6	25.2	44.9	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	54.9	34.4	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	52.5	36.5	44.7	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	54.1	34.0	43.0	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	48.3	24.5	37.6	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	55.5	38.1	45.7	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	57.3	42.9	47.5	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	52.8	36.5	44.1	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	56.2	36.2	45.4	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	53.6	32.0	46.9	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	53.1	35.4	43.7	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	48.4	29.1	38.6	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	47.0	26.6	39.5	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	46.4	32.0	41.9	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	50.3	35.7	42.2	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	51.7	26.0	42.4	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	56.5	39.1	44.5	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	42.9	24.8	35.4	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	52.3	27.0	45.4	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	43.5	21.9	39.8	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	49.4	31.0	35.5	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	50.3	34.7	44.5	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	43.6	23.1	39.8	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	48.1	25.3	44.9	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	51.0	31.0	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

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	47.7	30.4	43.0	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	48.4	26.1	44.5	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	49.2	34.2	43.6	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	53.2	32.3	47.6	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	52.0	35.7	48.3	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	51.4	32.2	42.7	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	52.8	26.9	47.1	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	44.6	25.1	41.4	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	53.4	29.9	46.9	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	51.6	34.9	44.4	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	54.8	39.8	46.0	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	46.9	22.4	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	50.1	27.0	46.6	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	53.9	39.4	44.6	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	52.7	33.2	40.6	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	48.4	39.1	41.9	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	54.4	36.0	45.8	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	51.6	34.9	42.6	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	52.0	32.3	41.6	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	52.4	36.6	43.4	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	53.5	37.4	41.8	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	44.6	21.9	42.8	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	52.5	36.5	45.2	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	51.5	33.2	43.2	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	53.0	36.3	43.9	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	43.0	24.1	38.5	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	53.2	26.5	40.9	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	53.4	27.9	43.8	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	55.5	38.2	43.4	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	52.9	34.2	43.5	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	56.2	36.0	47.5	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	49.3	32.3	43.8	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	45.1	22.1	41.0	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, 1975-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	50.3	31.4	41.6	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	49.0	33.1	41.1	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	49.5	35.7	37.3	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	41.3	27.4	37.5	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	52.8	34.7	44.8	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	52.0	35.8	44.3	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	53.4	34.3	46.6	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	52.5	32.6	46.1	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	52.1	32.9	46.7	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	52.3	36.4	44.8	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	52.5	30.4	46.6	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	49.6	29.9	45.9	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	55.1	28.9	45.9	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	52.8	31.8	46.2	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	50.3	31.0	42.6	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	56.4	38.7	45.1	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	48.0	24.2	42.2	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	52.5	37.4	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	49.7	27.3	42.1	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	44.9	21.7	36.5	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	49.9	19.7	44.2	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	49.9	35.9	44.7	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	54.7	39.3	47.0	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	53.0	36.8	44.0	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	52.7	35.7	44.0	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	42.4	30.5	41.5	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	46.9	21.7	35.6	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	53.4	37.8	45.2	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	51.2	39.0	45.2	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	48.0	16.5	40.8	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	49.9	36.2	40.5	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	47.9	14.6	43.2	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	50.0	33.3	43.1	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 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	5958	3572	4815	3590	4004	4183	3563	3968	4360	3900	2733	2657	3790	3719	2660	3290	3200	3229	1655	2600
Monroe	875	556	622	692	604	556	446	787	838	697	543	520	606	819	890	890	700	690	578	593
Montgomery	3595	2248	3216	3121	2709	2716	2028	2874	3277	2630	1541	1859	2426	2736	2400	2620	2300	2175	1680	1937
Muscatine	3174	1899	2426	2142	2336	2296	1504	1989	2331	2120	1876	1879	2018	2185	2110	1960	1770	1637	1506	1756
O'Brien	7030	3223	6227	6546	5737	6069	5754	5597	5649	4894	4986	4789	4682	5139	5400	5230	4850	4778	3711	4370
Osceola	5019	1838	4104	4608	4084	4236	3774	4109	3526	3081	3630	3332	3609	3462	4040	3550	3560	3368	2220	2855
Page	3841	2661	3756	3624	3310	3001	2028	3353	3771	3257	1859	2722	2835	3418	2600	3150	2320	2665	2290	2269
Palo Alto	5889	2201	5524	4997	5699	5392	4761	5810	5609	4709	4174	4396	5102	5138	5600	4660	5220	4806	3929	4446
Plymouth	8937	6305	6711	6900	6460	5725	4368	5610	5653	5030	4706	3997	4833	5087	4330	4710	4070	3333	2100	2945
Pocahontas	8079	3964	6823	5998	5453	6554	5423	5586	5949	5819	4853	4772	5823	5960	5890	5070	6230	5744	4237	5404
Polk	4480	2458	3583	3240	3031	3229	1981	3536	3276	2859	2617	2809	3388	3864	3810	3430	3100	2528	2445	2489
Pottawattamie	9159	6071	7385	7251	6624	5320	4477	6492	7047	6449	4727	5177	5938	5961	5025	4785	4910	4589	3487	4008
Poweshiek	4320	2737	3300	3481	3091	3073	1940	3685	3471	3171	2697	2944	2951	3097	2870	2720	2340	2038	1824	2060
Ringgold	1832	831	1345	1408	1151	1344	988	1604	1951	1969	1277	1193	1534	1973	1760	1530	1450	1173	1064	1051
Sac	7304	4969	5652	5082	4954	5300	4852	5366	5542	4581	3888	3746	4475	4564	3870	4130	3740	3603	2202	3141
Scott	3148	2171	2317	2350	2308	2303	1475	1930	2181	1903	1775	1655	1638	1764	1870	1790	1560	1568	1258	1575
Shelby	5483	3686	4233	4288	3871	3809	2918	3796	3955	3576	3001	3046	3269	3425	2840	3070	2690	2269	1628	2109
Sioux	8721	5030	6425	6715	5722	6210	5180	5495	5430	4770	4787	4109	4276	4373	4230	4280	3600	3074	2051	2598
Story	7124	4035	5839	5114	4968	5151	2898	5734	5046	4525	4309	4891	5248	5879	5530	5090	4860	2473	3545	3946
Tama	5622	3752	4352	4582	4214	4114	3597	5056	4991	4120	3628	4030	4138	4539	4520	4200	3890	3216	2566	3080
Taylor	2803	1666	2024	1981	1532	1638	1149	2192	2663	2745	1384	1480	1794	2340	1710	1960	1530	1376	1143	1154
Union	1734	964	1410	1464	1224	1120	773	1253	1236	1227	722	879	943	1172	1070	940	820	730	732	687
Van Buren	1707	1249	1542	1461	1237	1127	918	1398	1719	1681	1552	1231	1506	1488	1470	1550	1350	1069	1039	1160
Wapello	2307	1494	1898	2041	1623	1620	1293	1866	1815	1687	1250	1260	1722	2093	2140	2040	1520	1680	1447	1464
Warren	2889	1393	2249	2144	1941	1807	1562	2092	2055	1749	1437	1690	1846	2186	2090	1960	1800	1118	1123	1237
Washington	4678	3019	3464	3509	3075	2941	2121	3064	2981	2903	2615	2389	2945	3085	3240	2980	2370	2180	1978	2316
Wayne	1796	1056	1303	1338	1110	1118	952	1542	1908	1661	1046	936	1311	1775	1710	1660	1490	1138	988	1130
Webster	9272	4683	7743	7330	6350	7925	4751	7443	7343	6569	6202	6547	7012	7766	7660	7220	7340	5750	5026	5811
Winnebago	3820	1869	3022	3392	3398	3035	2900	3274	3685	3079	2962	3013	3351	2597	3530	3260	2900	3710	2809	2956
Winneshiek	1265	728	710	797	698	678	510	767	724	524	520	625	588	639	700	640	550	535	328	401
Woodbury	5715	3735	4446	3570	3684	3914	2823	3666	3610	3405	2516	2365	3731	3330	2700	2960	2690	2621	1479	2317
Worth	3565	1820	2930	2889	3038	2847	2384	3092	3351	2676	2734	3039	3152	2386	2870	3400	3100	2755	2044	2357
Wright	7388	3789	6392	6402	6175	6585	5018	6194	6680	5927	5429	5712	6226	6312	6280	6100	5790	5488	4597	5270
State of Iowa	447270	257300	359480	349515	327850	322920	251100	343650	350675	309700	264600	278600	306600	322000	318395	306375	283125	251340	199950	236980

Table 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	4800	2919	3950	3816	4175	2669	2867	3997	4238	3462	3527	3812	3668	3423	3630	3470	3500	3443	2551	2652
Franklin	6073	3196	5146	5279	4686	4995	4117	5279	6014	4952	4414	4635	4671	4137	4960	4850	4280	3979	3412	3934
Fremont	5348	2294	4565	4414	3727	3406	3544	4257	4791	4191	2291	3482	3719	4620	4190	4100	3220	3107	2562	2603
Greene	7702	4570	6706	5796	5360	5740	3964	6549	5975	5513	4985	5266	5473	5753	5680	5600	5510	3278	3581	4442
Grundy	6610	4400	5689	5319	4847	4301	3653	5467	5509	4857	4091	4601	4326	4270	4570	4430	4220	3383	3036	3509
Guthrie	4001	2469	3199	3290	2977	3049	2230	3155	2876	2567	2212	2552	2720	2938	2390	2360	2360	2022	1528	1799
Hamilton	7425	3577	6293	5836	5024	6005	3184	5508	5279	5065	4480	4840	5351	6204	5880	5840	5240	3759	4132	4469
Hancock	5452	2863	4631	4459	4757	4492	4166	5012	5558	4662	4303	4639	4861	4483	4890	4370	4590	4644	3998	4200
Hardin	6284	3403	5188	4858	4801	4459	2955	5208	5332	4780	4477	4357	4361	4369	4510	4580	4130	3188	2770	3583
Harrison	6493	4254	5185	4480	4332	3898	3436	4393	4246	4489	2843	3498	4402	4434	3600	3940	3600	3143	2021	2850
Henry	3280	2260	2570	2482	2288	2069	1622	2042	2692	2509	2108	1754	2107	2336	2270	2400	2080	1964	1624	1977
Howard	3516	1583	2218	2818	2653	2554	1689	2803	2770	1950	2198	2367	2239	2513	2490	2390	2160	2137	1141	1172
Humboldt	5674	3053	4977	4927	4815	5182	3709	4915	4245	4008	3859	3949	4721	4481	4290	4020	4160	3875	3293	3994
Ida	4573	3166	3515	3302	3106	3089	2951	2975	3371	2958	2543	2339	2497	2543	2130	2270	2260	2094	1255	1860
Iowa	2781	1767	2063	1965	1814	1927	1089	2092	2212	2061	1727	1429	1697	1809	1760	1760	1320	1279	1068	1292
Jackson	479	336	331	414	398	413	237	394	362	309	280	319	346	375	430	360	290	255	164	218
Jasper	5924	3498	4620	4469	4187	4151	3197	4923	4539	4147	3511	3863	3882	3966	3750	3380	3070	2511	2391	2577
Jefferson	2878	1910	2256	2269	2055	2032	1295	2185	2611	2494	2110	1490	2010	2235	2160	2150	1860	1849	1598	1629
Johnson	3375	1952	2490	2384	2519	2404	1466	2296	2323	2106	1873	1714	2053	2432	2480	2530	2040	2041	1659	1789
Jones	2617	1770	1943	2182	2054	1712	1022	1956	1847	1602	1556	1456	1682	1903	1890	1740	1440	1296	856	1236
Keokuk	3734	2479	2657	3009	2343	2372	1698	2706	2604	2459	2040	1814	2569	2863	2740	2490	1980	1824	1429	1661
Kossuth	0625	4875	9183	8436	9667	9671	8762	10656	11440	10244	8669	9603	9655	8689	10130	8440	8700	8601	7348	8591
Lee	3085	1901	2571	2210	1848	1654	1616	2054	2421	2308	1886	1626	2477	2355	2380	2480	1910	1681	1207	1467
Linn	4720	2958	3703	3693	3558	3502	1939	3845	3763	3206	2871	2853	3830	4165	3900	3860	3220	2838	2064	2498
Louisa	3436	2131	2671	2387	2394	2165	1444	1908	2296	2018	2065	1619	2183	2197	2120	1960	1680	1720	1409	1731
Lucas	769	467	689	734	617	608	612	808	945	979	549	622	688	793	780	790	670	538	551	575
Lyon	6623	2985	4780	5002	4139	4817	3725	4638	4465	4071	4163	3754	3946	4232	3890	3840	3370	3152	1981	2724
Madison	2880	1587	2258	2227	1953	2092	1325	2125	2360	1887	1378	1627	1889	2372	2200	1880	1730	1286	1378	1220
Mahaska	4653	2803	3445	3590	3088	3127	2346	3287	3477	3155	2200	2572	2972	3247	3220	2980	2580	2550	2071	2242
Marion	3222	2018	2460	2451	2253	2127	1930	2421	2336	2117	1520	1772	1877	2309	2200	1980	1810	1310	1244	1442
Marshall	5045	3167	3936	3897	3609	3855	2343	4318	4247	3889	3233	3861	3520	3832	3700	3490	3110	2003	2070	2523
Mills	4277	2166	3625	3544	3140	2740	2332	3268	4093	3525	2150	2740	2967	3009	2970	2880	2720	2686	1972	2623
Mitchell	3871	1878	3233	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, 1975-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	3869	2406	2902	2920	2415	2573	1936	2771	2906	2529	1597	2290	2026	2639	2120	2010	1850	1713	1571	1536
Adams	2199	1480	1802	1797	1606	1549	949	1794	2098	1923	954	1196	1390	1769	1370	1340	1120	1086	975	1009
Allamakee	396	246	179	212	185	199	175	158	161	123	127	154	132	146	130	120	110	80	81	106
Appanoose	1029	759	933	834	825	726	610	972	1099	999	730	612	754	1051	1130	1350	1000	1048	805	916
Audubon	4058	2595	3223	3255	2742	2955	2276	3049	2882	2703	2242	2367	2274	2434	1910	2020	1940	1382	1022	1298
Benton	7317	4982	5965	5954	5718	5316	3159	5848	5680	4822	4292	4897	5100	4956	4730	4790	4430	3493	2973	3471
Black Hawk	5424	3285	4231	4124	3812	3144	2332	4410	4068	3554	2787	3395	3588	3692	3950	3660	3230	2832	2092	2780
Boone	6503	3766	5473	5044	4529	4851	2771	5426	4858	4647	4256	5014	4727	5091	5180	4800	4670	2602	3297	3977
Bremer	3635	2146	2798	2634	2461	1867	1409	2492	2633	2178	1744	2181	2113	2182	2730	2590	2370	2383	1574	1810
Buchanan	4436	2961	3396	3567	3087	2751	1914	3237	2882	2126	2060	2395	2733	3138	3710	3590	2970	2716	1982	2503
Buena Vista	7602	4168	6370	5786	5588	5777	5074	5280	5331	4855	4005	3953	4901	5388	5410	4880	5180	5157	3048	4395
Butler	4899	2763	4075	4021	3388	2906	2786	3680	3959	3183	2743	3220	3403	3843	4580	3850	3390	3157	2548	2652
Calhoun	8520	4426	6829	6290	5948	6359	5521	6776	6031	5263	4625	5155	5497	5622	6440	5950	5760	4756	3889	4897
Carroll	6542	3832	5443	4679	4545	4468	4352	4943	4647	3952	3447	3675	4047	4550	4210	4010	3840	2782	2408	3050
Cass	4609	2778	3685	3671	3361	3443	2417	3381	3318	2867	1987	2738	2747	3009	2490	2580	2280	2249	1816	1879
Cedar	4893	3175	3586	3674	3636	3675	2573	3267	3392	3290	2967	2835	3072	3306	3330	3170	2800	2524	2040	2545
Cerro Gordo	5353	2615	4076	4213	4374	3258	3395	4376	4927	3837	3580	4021	4120	3759	4240	4140	3930	3832	3010	3235
Cherokee	6333	4247	5223	5300	4702	4664	4540	4300	4673	3787	3435	3524	3735	4010	4070	3770	3690	3467	2185	2958
Chickasaw	3812	2001	2806	2968	2626	2189	1583	2547	2406	1740	1895	2351	2207	2376	2490	2450	2280	2311	1358	1661
Clarke	984	464	872	948	843	742	646	937	934	1223	750	713	930	996	1050	930	920	714	666	650
Clay	6421	2268	5556	5079	5471	5310	4624	5133	5052	4421	4127	4071	4366	4559	4790	4750	4390	4505	3142	3899
Clayton	444	284	268	240	192	215	167	321	197	178	183	171	177	216	260	240	210	213	104	133
Clinton	4531	3020	3616	3514	3637	3554	1836	3098	3150	2963	2655	2444	2787	3104	3110	3130	2390	2468	1495	2011
Crawford	6076	4126	4699	4766	4488	4050	4006	3711	4108	3251	2877	3183	3690	3426	2760	3010	2870	2329	1417	2149
Dallas	5896	3854	4669	4460	4211	4536	2553	4686	4452	3898	3513	3886	4665	5056	4450	4230	3430	2791	2653	2871
Davis	1225	866	1034	1055	1004	737	811	1243	1584	1526	1121	796	1121	1375	1590	1790	1360	1217	984	988
Decatur	1215	580	859	1020	813	833	599	1244	1579	1388	863	627	1191	1410	1240	1190	1130	761	652	668
Delaware	2077	1292	1396	1317	1246	1210	718	1221	1232	878	741	768	932	1131	1360	1180	990	1004	685	887
Des Moines	3162	2328	2707	2424	2406	2204	1726	1870	2066	1918	1676	1743	2188	2021	2230	2290	1880	1796	1541	1869
Dickinson	3829	1185	3014	3181	2948	2988	2485	3014	2885	2405	2324	2501	2756	2880	3340	2880	2850	2460	1835	2236
Dubuque	399	250	243	217	212	216	140	196	134	106	124	91	105	122	110	90	65	55	61	90
Emmet	4587	1191	3838	3433	3981	3766	3161	3993	4000	3337	2793	3439	3527	3549	4000	3100	3670	3531	2432	3054
Fayette	4241	2634	3180	3418	3018	2852	2118	3339	3259	2829	2551	2628	2613	2946	3580	3050	2800	2624	1802	2070

Table 4. Estimated Acres (in 1,000s) of Soybeans Harvested for Grain in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	118	106	109	116	109	110	112	101	109	106	109	102	104	100	100	97	90	85	74	78
Monroe	18	20	17	18	18	20	19	20	23	21	23	22	23	23	26	26	25	22	19	21
Montgomery	75	71	74	75	71	74	72	76	78	72	70	66	76	70	67	70	65	63	58	61
Muscatine	61	52	58	58	53	57	54	51	58	55	53	53	53	51	50	51	50	44	44	49
O'Brien	147	139	141	140	135	137	134	127	136	133	138	130	135	126	137	131	125	118	109	118
Osceola	109	98	102	103	99	106	101	94	94	93	101	94	99	98	103	99	89	84	77	80
Page	87	85	87	92	90	92	90	90	88	84	91	86	94	86	83	88	81	81	72	80
Palo Alto	130	117	124	156	126	135	133	132	134	131	139	129	136	135	146	145	136	132	125	132
Plymouth	165	153	149	152	143	147	136	130	131	126	132	117	126	127	119	112	97	91	78	83
Pocahontas	160	157	152	168	145	152	148	144	148	147	154	146	152	147	154	154	147	151	143	147
Polk	82	72	80	80	75	79	77	76	81	81	84	75	88	89	94	91	84	84	79	83
Pottawattamie	174	166	165	171	162	167	163	158	160	162	155	146	160	143	140	129	125	119	115	124
Poweshiek	80	81	77	78	72	80	79	80	89	81	79	78	78	71	70	70	64	57	54	61
Ringgold	38	34	36	40	40	42	43	44	55	52	57	55	59	51	52	50	49	38	34	38
Sac	132	130	124	131	119	125	123	122	124	117	124	109	120	110	109	109	100	97	85	92
Scott	55	51	49	46	48	49	41	40	47	42	42	40	38	38	42	42	39	38	33	39
Shelby	104	101	96	96	92	98	95	88	89	88	96	84	85	80	78	77	64	62	55	60
Sioux	155	139	142	138	129	137	127	121	121	117	125	111	111	101	104	100	86	77	66	71
Story	133	126	125	127	121	124	120	121	126	122	131	123	136	133	131	130	117	112	109	114
Tama	106	106	100	105	96	107	104	105	113	109	109	98	111	105	105	105	95	88	77	84
Taylor	58	57	53	57	53	56	58	63	74	69	67	65	67	63	57	59	56	47	40	46
Union	37	36	36	36	32	33	34	31	36	33	36	32	34	29	31	30	28	25	23	24
Van Buren	37	39	37	39	37	40	38	39	48	47	50	50	47	45	47	46	45	37	34	37
Wapello	46	42	45	48	45	46	45	46	46	45	47	48	52	52	54	53	46	46	42	46
Warren	56	54	53	57	49	53	52	50	51	49	53	54	61	53	56	56	54	38	38	43
Washington	83	77	78	72	69	74	73	70	70	69	70	63	72	68	72	71	64	57	55	66
Wayne	42	43	37	39	38	40	41	41	50	48	52	52	50	54	54	51	49	36	36	40
Webster	177	174	171	182	166	176	170	166	173	169	181	172	178	173	179	181	172	165	159	163
Winnebago	88	85	76	103	84	84	84	84	98	96	94	91	97	93	106	105	97	100	88	90
Winneshiek	26	24	20	19	16	18	20	18	18	17	17	18	19	18	18	19	16	15	12	15
Woodbury	114	108	100	106	94	96	93	91	93	90	96	86	101	92	88	82	74	71	60	68
Worth	82	79	74	80	71	72	72	73	85	82	85	83	91	85	92	92	82	78	73	78
Wright	154	150	142	171	141	147	142	142	160	161	160	156	162	153	165	160	151	144	139	140
State of Iowa	8770	8300	8170	8630	7900	8280	8100	7900	8450	8150	8400	7960	8400	8050	8270	8170	7550	7080	6450	6970

Table 4. Estimated Acres (in 1,000s) of Soybeans Harvested for Grain in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	101	96	92	95	93	96	96	93	108	103	111	106	110	106	105	105	97	91	86	90
Franklin	126	122	116	144	116	124	122	117	139	128	129	121	124	116	124	127	116	113	98	104
Fremont	109	67	105	106	104	105	108	108	107	104	97	98	115	108	113	109	100	91	78	83
Greene	145	142	141	145	134	143	142	139	140	134	144	133	139	130	135	137	128	129	120	123
Grundy	127	123	118	123	110	107	104	108	120	117	120	107	105	101	105	107	100	89	84	88
Guthrie	78	77	75	80	75	79	77	73	72	69	76	73	74	70	66	66	64	64	57	61
Hamilton	141	133	134	145	128	131	131	127	127	126	131	129	144	141	147	144	134	129	126	129
Hancock	122	114	112	130	117	122	117	116	135	132	136	127	131	122	125	126	126	124	118	121
Hardin	118	114	111	124	106	112	111	110	119	115	122	107	115	109	111	113	101	94	87	99
Harrison	126	122	117	120	118	123	119	108	106	108	112	108	122	113	109	110	93	83	75	81
Henry	60	57	56	56	55	56	51	52	64	61	60	55	54	55	58	57	55	48	45	52
Howard	75	71	65	73	66	69	71	67	78	72	75	73	76	74	73	75	64	58	47	56
Humboldt	113	113	107	136	106	112	107	106	106	107	112	109	121	108	110	111	110	107	100	105
Ida	85	80	79	77	72	75	75	73	74	74	75	66	65	62	62	59	54	52	44	50
Iowa	53	53	51	46	45	52	49	46	56	51	50	42	47	43	46	45	40	37	33	39
Jackson	10	9	8	9	9	10	10	9	9	9	9	9	9	9	10	9	9	7	6	7
Jasper	109	97	101	103	94	104	102	105	113	104	106	97	101	90	88	85	80	72	70	75
Jefferson	56	55	53	56	54	60	54	57	70	66	65	57	60	58	57	57	54	52	48	51
Johnson	65	60	60	58	57	59	55	57	60	55	58	51	54	55	62	62	57	53	47	52
Jones	50	48	45	45	43	45	43	42	43	42	44	41	41	43	44	41	37	32	28	34
Keokuk	70	66	64	61	56	64	65	61	64	61	63	61	67	68	64	63	55	48	43	51
Kossuth	238	223	215	267	229	236	234	235	271	270	265	255	255	241	247	248	247	238	217	235
Lee	59	52	57	60	53	59	58	60	63	58	57	58	65	64	64	62	58	45	39	44
Linn	92	89	86	85	82	90	86	85	92	88	88	89	99	96	95	95	85	75	65	74
Louisa	65	59	61	57	54	59	54	53	58	53	55	51	56	52	50	49	47	47	43	52
Lucas	18	19	18	21	19	21	22	21	27	26	28	25	25	22	26	25	24	19	20	21
Lyon	125	113	117	115	113	120	113	109	112	114	119	105	108	105	102	99	82	77	71	74
Madison	54	57	52	56	52	54	54	49	57	56	60	52	59	57	57	55	51	48	44	43
Mahaska	84	73	79	78	71	80	81	75	83	76	72	74	77	79	77	77	72	65	61	67
Marion	61	59	57	59	55	60	57	55	58	53	56	54	55	54	56	53	52	42	39	43
Marshall	90	88	83	87	79	88	85	85	94	93	91	90	90	87	84	86	75	70	61	69
Mills	87	67	83	84	80	84	85	84	98	93	91	80	87	77	79	77	74	73	64	67
Mitchell	86	85	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, 1975-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	77	77	70	69	66	67	68	63	69	64	63	65	62	61	57	58	55	55	52	55
Adams	45	45	44	44	42	44	42	44	53	50	49	45	48	44	39	37	36	35	31	34
Allamakee	8	7	5	5	4	5	6	4	4	4	4	4	4	4	3	3	3	2	3	4
Appanoose	25	28	25	27	25	26	26	26	29	28	31	31	29	34	41	40	37	34	29	32
Audubon	77	75	72	73	68	72	70	68	71	68	73	64	62	56	54	54	49	42	36	41
Benton	141	139	135	134	126	132	130	122	129	126	126	127	129	117	114	115	110	100	93	97
Black Hawk	102	96	91	99	84	89	85	91	90	90	90	86	95	89	95	95	85	80	68	82
Boone	124	116	119	121	112	117	116	117	115	117	122	120	120	121	120	119	110	109	104	111
Bremer	70	65	60	62	53	55	54	55	61	56	56	57	60	64	75	74	64	64	51	57
Buchanan	85	81	76	75	68	75	70	68	66	61	67	66	76	82	93	94	78	73	62	76
Buena Vista	145	137	137	145	135	131	131	123	127	124	127	122	131	126	133	132	126	120	111	117
Butler	99	93	89	101	81	86	88	82	93	84	88	87	96	103	114	110	95	91	81	83
Calhoun	155	153	149	170	148	152	149	144	145	138	149	141	143	140	149	151	143	142	134	142
Carroll	124	121	118	114	111	115	117	110	104	97	103	102	108	103	103	101	92	91	81	86
Cass	92	90	87	87	85	87	84	80	78	76	75	78	81	72	70	68	63	63	61	61
Cedar	87	82	80	74	74	78	75	70	79	73	73	70	72	71	75	72	69	59	55	66
Cerro Gordo	112	108	97	112	99	103	100	101	120	112	118	109	115	110	112	114	110	103	94	97
Cherokee	121	114	112	109	103	106	106	96	103	97	96	93	96	95	96	95	88	84	71	77
Chickasaw	77	73	67	71	61	63	63	58	63	60	67	68	71	76	75	74	65	62	53	59
Clarke	22	21	24	27	25	26	25	27	32	32	34	34	33	28	32	31	29	24	22	24
Clay	129	115	126	129	123	128	130	120	131	125	128	116	125	120	128	127	119	114	106	112
Clayton	9	8	6	5	4	5	7	7	5	5	5	5	5	6	7	7	6	5	3	4
Clinton	83	77	77	75	73	77	65	66	76	71	72	65	66	67	69	70	64	57	46	54
Crawford	115	112	107	114	104	109	106	92	94	88	89	89	97	88	82	82	69	69	55	60
Dallas	112	108	106	108	101	108	104	102	108	109	109	108	118	112	106	108	98	92	88	95
Davis	29	28	25	30	28	31	33	36	44	42	43	44	41	41	51	50	44	40	34	34
Decatur	26	27	24	27	26	31	32	33	41	39	43	39	41	38	40	38	37	25	21	24
Delaware	39	34	31	28	28	29	28	25	27	25	25	24	25	28	33	30	26	25	22	27
Des Moines	62	60	60	58	53	58	51	48	48	46	47	49	55	48	57	55	50	45	43	50
Dickinson	80	72	74	81	71	73	74	73	73	72	73	73	80	78	84	81	76	73	70	71
Dubuque	8	7	6	5	5	5	5	4	3	3	3	3	3	3	2	2	2	1	2	3
Emmet	96	82	89	97	89	90	90	89	93	92	93	92	96	91	97	97	94	91	81	87
Fayette	85	79	74	75	68	68	70	71	77	74	77	72	76	80	88	86	76	70	56	65

Table 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	139.1	90.5	143.1	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	149.0	61.5	117.3	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	140.0	74.6	151.8	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	160.8	80.0	141.1	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	151.9	75.6	145.1	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	145.0	71.2	136.0	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	135.0	76.7	149.8	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	153.5	71.9	154.7	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	148.3	96.7	144.3	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	162.7	74.6	160.1	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	167.0	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	149.3	81.1	156.0	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	149.0	79.0	136.4	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	138.1	42.0	123.8	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	160.8	80.8	157.4	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	164.8	106.0	148.3	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	148.4	85.0	144.8	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	159.8	103.1	145.3	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	155.4	78.0	160.5	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	142.3	81.4	142.5	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	135.9	61.6	127.8	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	143.8	53.3	130.0	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	138.2	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	152.3	75.1	140.0	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	154.8	71.6	138.0	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	155.8	80.6	136.7	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	134.4	41.4	117.9	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	170.8	83.0	164.0	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	151.4	67.7	146.9	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	140.2	84.8	125.3	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	138.7	91.0	145.0	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	147.3	63.1	137.4	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	156.0	73.9	162.9	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	152.0	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 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	142.5	73.0	144.3	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	148.5	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	143.0	79.4	155.3	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	160.9	84.1	169.2	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	147.9	77.4	160.1	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	155.5	81.6	147.2	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	166.4	74.6	164.5	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	153.4	74.9	151.1	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	156.2	77.1	164.7	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	144.2	98.6	155.0	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	159.2	80.1	144.8	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	140.1	63.1	122.6	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	159.1	75.0	164.8	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	150.1	86.4	151.2	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	151.6	79.3	131.0	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	146.0	88.4	117.8	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	157.1	96.4	149.1	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	155.6	70.0	137.9	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	155.5	78.6	134.4	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	152.7	85.2	135.7	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	153.3	78.9	133.5	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	156.8	74.8	157.5	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	157.7	76.9	149.5	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	154.1	81.9	141.9	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	155.6	90.6	141.2	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	130.9	52.9	127.0	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	151.8	85.9	134.6	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	152.0	74.3	142.3	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	158.5	84.1	144.8	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	159.7	81.2	137.4	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	151.7	85.7	154.3	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	147.4	75.0	156.0	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	147.6	68.0	137.9	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, 1975-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	151.0	76.8	140.0	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	148.2	79.0	135.4	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	146.4	83.2	129.4	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	134.7	64.5	117.5	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	151.1	80.6	147.0	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	143.7	84.8	140.9	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	152.0	73.6	156.3	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	165.3	84.0	163.8	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	151.0	79.7	155.8	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	150.8	76.6	151.1	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	159.0	80.3	153.7	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	140.0	73.9	152.3	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	171.5	83.3	167.6	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	161.3	70.5	153.5	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	145.6	72.1	148.8	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	157.5	91.3	147.7	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	147.6	64.8	143.7	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	151.0	87.5	150.7	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	143.6	71.0	140.6	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	130.3	43.0	121.0	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	156.0	66.0	147.4	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	146.3	89.9	134.7	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	159.9	100.7	142.0	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	150.8	76.7	144.8	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	156.6	95.4	153.6	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	132.0	63.6	129.0	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	138.5	48.8	124.6	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	155.1	77.3	141.5	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	159.8	94.1	145.5	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	145.3	55.6	135.0	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	149.8	84.8	134.4	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	153.9	53.4	147.5	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	143.8	80.4	143.9	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 2. Estimated Bushels (in 1,000s) of Corn Produced in Iowa Counties, 1975-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	21720	12790	23943	16700	18055	17131	13770	15720	18862	19331	15666	9038	19513	17110	12100	16400	19650	13915	9003	13724
Monroe	4142	892	3589	2970	3002	2777	1063	2769	4491	4947	3528	644	2579	4352	3300	4500	3600	1854	3967	2709
Montgomery	12600	6061	13616	11269	10572	10565	7488	8740	10223	9888	7385	4913	8397	11283	8200	13300	9850	7077	9735	6146
Muscatine	15996	6720	13922	9035	11618	10165	4578	8514	14837	15372	16214	6917	13614	14199	12200	12600	11400	10680	11259	9735
O'Brien	24339	10214	23336	19252	21439	22247	17293	16819	21079	21396	17795	10754	18421	20847	19400	19800	19650	17021	14472	14809
Osceola	16284	5107	15154	14536	14151	13750	10321	11156	13394	13797	11483	5563	12832	14214	13600	12900	12800	11268	7920	9248
Page	13311	6744	15262	12409	11508	10720	6567	9381	12370	11932	6811	4990	8906	12123	8300	12700	10400	7089	10838	7196
Palo Alto	23675	9005	24474	12834	20622	18675	14084	17199	21846	24084	16452	8751	20474	23310	21500	19400	18350	15532	13863	14495
Plymouth	32165	19611	32738	26530	24972	24489	13291	21983	25466	29053	26063	12454	25471	24096	19600	28500	27150	20042	11826	15335
Pocahontas	28176	11195	26969	17308	19186	22104	14875	16632	20205	24621	15557	8112	22342	24412	20800	21600	20750	16257	13489	15556
Polk	16100	7697	15578	10541	12105	12690	7340	11326	10859	11450	11501	6248	12610	15580	11000	14600	12350	7338	12748	10053
Pottawattamie	35334	17310	37944	32110	28433	22780	19990	27130	31280	34675	28887	12571	25390	27039	24100	27200	26150	19275	20948	15114
Poweshiek	17743	8570	16732	13128	15163	12434	4822	13154	13698	14949	14259	6651	17771	17006	14500	15800	14350	10101	13007	10708
Ringgold	6351	1516	6105	5162	4417	4795	1670	4344	7026	8581	3753	1485	4533	7493	3400	6900	6200	2854	5825	3802
Sac	25951	11812	24748	17089	19239	18946	16507	15210	18132	19863	16028	9490	18666	19584	14500	20900	17600	14178	8582	14085
Scott	20997	12540	19027	14315	16623	16292	6963	13263	16554	17504	18058	10978	20087	20198	18000	18000	16600	15245	15100	13454
Shelby	26614	14290	26243	22963	21752	20709	14306	16938	21898	25929	21117	8856	20972	19332	15900	23100	20000	11180	14112	12743
Sioux	38416	21609	34399	28648	28088	29950	18190	21769	27044	30219	25139	12902	24656	28951	26000	29400	26000	19647	11973	16184
Story	24929	10893	25712	19166	18664	20437	12125	17818	20016	21405	19203	11053	19187	20818	21500	22900	18400	5047	16759	15594
Tama	25469	13192	26175	19787	22278	18201	14510	20198	22452	24294	21677	11708	22682	23671	20100	23100	20650	15575	17665	16755
Taylor	9214	3621	8981	7797	6502	6353	3558	6288	8708	10969	4550	2460	5876	9616	5300	8500	6300	4885	5577	3701
Union	7477	2052	6734	6277	5685	4810	2692	4556	6530	8488	4595	2421	4464	7246	4600	6200	4900	2086	5238	3024
Van Buren	6303	1946	6490	4673	5048	2893	1732	4316	6360	8152	6114	1030	6066	6630	5400	6700	5200	2659	5398	4792
Wapello	8789	2995	8233	5546	6515	5631	2833	5291	6575	6478	5654	1072	6918	8762	6800	8300	6400	5426	7123	5770
Warren	11560	3801	11029	8636	8773	8819	5321	8500	13262	13697	9278	3332	8114	12204	8700	10300	9050	2084	8560	6474
Washington	20208	9333	17996	14161	17568	12081	5026	13826	19808	20341	18229	6651	19920	20848	18800	20900	16900	14796	16039	12722
Wayne	6612	1568	6403	4918	4285	3646	1809	4990	8521	10212	5278	857	5303	8710	6100	6800	6150	3525	5953	4266
Webster	32368	13612	30496	20221	21706	25731	14198	19255	21510	21859	17007	13204	22875	26691	24000	25700	23000	15242	18392	18295
Winnebago	19481	7053	19646	11326	16720	15066	11728	12363	15795	15409	13990	7799	14676	16840	13400	14300	13100	11697	10454	10256
Winneshiek	17805	9273	16401	17152	16817	14179	6078	14612	17974	15707	15327	8982	14917	17795	16600	15400	14750	13161	9392	9155
Woodbury	26763	16433	30077	21947	23568	22945	14791	19623	22709	23868	21548	9913	26671	25247	17000	27100	27850	23570	14457	19220
Worth	16466	5851	15358	11636	14801	13393	8973	10856	14540	15656	13281	7315	14085	13600	14000	14300	13300	11936	9972	10541
Wright	27273	11422	28362	15166	21496	23307	15556	17181	20927	21656	19139	10393	21203	24925	21200	24100	22000	17224	17076	17349
State of Iowa	880000	880000	1427400	1427400	1445500	1445500	1319500	1319500	1707300	1707300	743850	743850	1731250	1731250	1663700	1663700	1092200	1092200	1117800	1117800
	1930400	1930400	1903650	1903650	1562400	1562400	898800	898800	1626750	1626750	1444800	1444800	1578000	1578000	1463000	1463000	1477750	1477750	1173900	1173900

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

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

Table 2. 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 2. 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 3. 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 Indiv.	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
Ia	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 3. 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
Winneshiak	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 4. 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 4. 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 5. 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 Individ.	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 5. 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 6. 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 6. 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 Indiv.	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 7. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1984.

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	16637	1612	981	10162	3508	105	269	2345	11006
Adams	11758	1137	1178	6529	2495	105	314	738	8963
Allamakee	32219	5848	1452	15681	6261	2337	640	557	1705
Appanoose	40589	6307	2765	22609	7443	1069	396	457	7495
Audubon	17433	2853	1308	9213	3572	137	350	1613	12958
Benton	45122	2836	2172	23811	7610	6532	2161	5447	15044
Black Hawk	260942	48600	17688	127326	41380	24139	1809	3111	44322
Boone	51027	4622	4248	31594	9795	614	154	2139	10777
Bremer	42926	3719	1900	22977	8087	5438	805	1543	5064
Buchanan	47217	12436	2063	21117	6969	306	4326	3008	11567
Buena Vista	40697	2535	3114	23924	9002	251	1871	1909	36218
Butler	34332	6240	1589	18866	6192	190	1255	3138	5799
Calhoun	29803	3541	1604	17120	5639	212	1687	2474	12121
Carroll	38405	2720	3030	23928	7737	358	632	995	24182
Cass	33186	2737	2222	20556	6982	215	474	2238	10891
Cedar	31785	3419	2700	17713	5598	816	1539	1341	6978
Cerro Gordo	96393	9163	6863	56327	17869	5156	1015	6874	22564
Cherokee	30555	4096	2059	17151	5562	232	1455	2479	22303
Chickasaw	44673	3187	1659	14409	5373	198	19847	4548	3521
Clarke	15973	1550	1086	9390	3368	87	492	911	8545
Clay	33158	2933	3170	18692	6335	274	1754	2361	13820
Clayton	39307	3520	2746	21913	8686	1620	822	842	3639
Clinton	92042	7239	5305	60400	16993	550	1555	2063	7317
Crawford	35953	2877	3097	18211	6483	4422	863	2584	31322
Dallas	50394	4925	2956	31645	9414	346	1108	2129	18258
Davis	17259	2049	1098	9919	3459	108	626	1079	7128
Decatur	24994	6033	1272	10706	5251	1062	670	570	6637
Delaware	26412	2873	1710	15378	6119	285	47	1493	4720
Des Moines	158722	7748	6788	51684	15716	76220	566	2486	9415
Dickinson	28153	1331	1347	19228	5031	223	993	1938	9242
Dubuque	160748	19060	11423	84550	28548	15294	1873	278	11487
Emmet	25881	2818	1676	14475	5539	146	1227	2866	7841
Fayette	47679	5024	3380	27237	10730	586	722	3135	3589
Floyd	37227	3774	1965	22825	6884	279	1500	4509	8016
Franklin	27147	3461	1501	14141	4708	2932	404	5149	9251
Fremont	20920	3253	1158	11509	3713	131	1156	4429	12624
Greene	24221	2085	1477	15246	5090	227	96	1845	6197
Grundy	22979	1695	1474	15060	4545	172	33	2667	4045
Guthrie	25798	2474	1609	15583	5701	183	248	1364	6505
Hamilton	30408	2390	1938	19568	6074	205	233	2492	5705
Hancock	24538	2109	1676	13341	4671	1408	1333	3640	6937
Hardin	43492	4556	2563	26331	9268	297	477	4083	14722
Harrison	38440	5600	2251	19094	6539	4550	406	1664	8269
Henry	35079	3539	2418	21314	6945	311	552	1742	9197
Howard	22843	2455	1047	11882	4801	1464	1194	2872	3892
Humboldt	21790	1503	1688	14162	4112	168	157	1264	37726
Ida	18097	2038	1095	9826	3642	101	1395	2043	30510
Iowa	26596	2563	1943	16216	5019	504	351	1194	10563
Jackson	38022	4684	2553	22719	7507	273	286	617	6536
Jasper	56924	4579	3128	37000	10340	628	1249	2286	13347

Table 7. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1984 (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	31175	4726	2600	16018	6757	334	740	2381	8357
Johnson	186947	62877	29996	49904	19529	23922	719	1456	19459
Jones	30122	2516	1884	18529	6189	214	790	1694	5178
Keokuk	28519	1958	2031	16831	6330	220	1149	2323	11918
Kossuth	40812	6026	2288	22139	7123	1214	2022	8503	28634
Lee	72739	6354	3685	46890	14452	637	721	1014	13366
Linn	469553	25662	31503	147029	46610	200887	17862	4140	73262
Louisa	22943	5260	1496	11650	3876	173	488	1873	3686
Lucas	28445	7935	1347	13534	4760	-63	932	718	9912
Lyon	20884	1335	1270	12399	4234	200	1446	1923	30732
Madison	22448	2164	1298	13639	4652	167	528	690	12196
Mahaska	51081	12225	2447	25006	9861	298	1244	1145	4120
Marion	81257	5097	25185	35646	10210	4513	606	2277	3934
Marshall	79585	12409	3899	48082	13680	786	729	2179	11003
Mills	23931	3928	1695	14235	3719	110	244	1758	15075
Mitchell	24164	1573	1393	14249	5393	164	1392	3058	19510
Monona	26729	3045	2310	15323	4811	378	862	2503	9542
Monroe	22800	4443	912	12652	4116	93	584	318	10304
Montgomery	29907	4265	1703	17113	5544	938	344	1299	7760
Muscatine	78165	5416	3819	38007	12394	18190	339	1522	12386
O'Brien	32825	2063	2232	19693	7049	283	1505	3953	9791
Osceola	15114	1036	902	8868	3083	90	1135	3245	17294
Page	41238	4707	2766	23797	8489	341	1138	1528	11493
Palo Alto	28821	5454	1496	14936	4999	221	1715	2987	12996
Plymouth	39670	3279	3006	23209	7998	393	1785	2315	39059
Pocahontas	23577	1891	1526	13592	4682	146	1740	2857	12400
Polk	1073210	457869	155463	301147	101415	33100	24216	2451	85983
Pottawattamie	179315	23633	8366	93745	24146	26025	3400	4200	58824
Poweshiek	36251	5721	1600	19938	6796	394	1802	2128	4073
Ringgold	14922	2647	1130	7160	2902	132	951	980	7951
Sac	28416	1811	1738	16736	6081	191	1859	2481	34238
Scott	270261	24418	16799	142539	39927	45354	1224	676	44319
Shelby	25658	2863	1806	15023	5175	179	612	2536	12806
Sioux	46872	5614	2965	25909	10114	284	1986	2465	10713
Story	147656	25472	27266	50988	21624	22247	59	2887	22772
Tama	38268	3916	2617	21134	7653	1229	1719	3080	7585
Taylor	19514	1834	1356	10315	4465	146	1398	2180	8628
Union	32226	4342	2853	17404	6949	290	388	1283	6841
Van Buren	19404	2037	1277	10313	4280	168	1329	762	9198
Wapello	90457	11378	6031	53962	16873	648	1565	964	14033
Warren	42509	4386	3249	26125	7278	312	1159	528	11676
Washington	35837	3440	2626	21988	7031	221	531	2920	8657
Wayne	21950	3255	1369	11586	4576	157	1007	1368	9354
Webster	87649	8251	8192	52350	16225	1054	1577	4793	25602
Winnebago	23160	1282	1417	14399	5053	234	775	5682	3382
Winneshiek	37023	4414	2795	18718	9692	272	1132	681	4344
Woodbury	213384	29473	24146	109641	37609	5814	6701	12244	54155
Worth	17480	1004	969	10856	3397	145	1109	3867	10200
Wright	34395	4266	2214	21062	6598	232	23	3411	2618
Undistributed	2233	34304	0	548	-55343	0	22724	0	119777
State of Iowa	6308386	1115623	552061	2966809	929363	557141	187389	239773	1601574



Table 8. Percentage of Total Federal Funds Received as Retirement and Disability Payments in Iowa's Counties, 1984, 1989, and 1994.

County	1994	1989	1984	County	1994	1989	1984
Adair	41.5	36.5	61.1	Jefferson	44.4	42.8	51.4
Adams	38.1	33.1	55.5	Johnson	22.1	23.8	26.7
Allamakee	46.3	36.6	48.7	Jones	46.4	38.3	61.5
Appanoose	44.6	49.5	55.7	Keokuk	41.2	35.2	59.0
Audubon	43.2	37.7	52.8	Kossuth	37.7	38.5	54.2
Benton	50.2	41.0	52.8	Lee	50.6	55.7	64.5
Black Hawk	46.7	47.9	48.8	Linn	36.5	31.5	31.3
Boone	48.9	46.9	61.9	Louisa	33.2	37.1	50.8
Bremer	50.2	39.3	53.5	Lucas	42.6	46.1	47.6
Buchanan	48.4	39.6	44.7	Lyon	48.7	41.6	59.4
Buena Vista	44.1	47.3	58.8	Madison	43.9	43.9	60.8
Butler	45.1	44.2	55.0	Mahaska	45.1	44.4	49.0
Calhoun	49.1	45.7	57.4	Marion	36.9	41.6	43.9
Carroll	48.7	49.0	62.3	Marshall	48.3	51.7	60.4
Cass	49.1	42.5	61.9	Mills	46.6	43.3	59.5
Cedar	45.7	34.1	55.7	Mitchell	45.6	42.8	59.0
Cerro Gordo	49.3	52.2	58.4	Monona	42.3	40.3	57.3
Cherokee	49.1	46.3	56.1	Monroe	41.9	47.1	55.5
Chickasaw	33.0	38.7	32.3	Montgomery	45.3	46.7	57.2
Clarke	41.0	37.4	58.8	Muscatine	48.0	50.2	48.6
Clay	40.6	43.2	56.4	O'Brien	45.9	44.9	60.0
Clayton	43.6	40.0	55.7	Osceola	35.3	38.6	58.7
Clinton	52.3	49.8	65.6	Page	46.9	49.4	57.7
Crawford	37.5	38.6	50.7	Palo Alto	36.6	37.9	51.8
Dallas	51.6	49.1	62.8	Plymouth	49.5	41.0	58.5
Davis	41.5	41.6	57.5	Pocahontas	46.8	40.1	57.6
Decatur	34.1	32.5	42.8	Polk	20.7	26.8	28.1
Delaware	45.3	32.5	58.2	Pottawattamie	30.5	52.9	52.3
Des Moines	46.0	35.7	32.6	Poweshiek	42.2	34.6	55.0
Dickinson	50.7	53.9	68.3	Ringgold	35.2	32.1	48.0
Dubuque	48.1	44.4	52.6	Sac	51.4	46.1	58.9
Emmet	35.7	43.8	55.9	Scott	51.7	53.3	52.7
Fayette	44.3	38.9	57.1	Shelby	44.0	37.9	58.6
Floyd	48.2	48.0	61.3	Sioux	45.5	37.5	55.3
Franklin	39.8	36.6	52.1	Story	26.5	28.9	34.5
Fremont	39.6	42.8	55.0	Tama	46.4	39.4	55.2
Greene	49.2	41.1	62.9	Taylor	37.7	37.7	52.9
Grundy	49.0	42.6	65.5	Union	40.2	45.2	54.0
Guthrie	46.4	44.2	60.4	Van Buren	43.7	39.1	53.1
Hamilton	44.8	39.7	64.4	Wapello	45.1	53.3	59.7
Hancock	44.7	40.1	54.4	Warren	49.7	50.8	61.5
Hardin	47.9	44.6	60.5	Washington	43.9	41.4	61.4
Harrison	42.1	41.1	49.7	Wayne	35.8	36.7	52.8
Henry	48.7	47.5	60.8	Webster	47.8	48.5	59.7
Howard	36.5	35.3	52.0	Winnebago	41.1	41.3	62.2
Humboldt	47.1	44.9	65.0	Winneshiek	41.1	38.5	50.6
Ida	49.2	42.0	54.3	Woodbury	43.6	47.5	51.4
Iowa	47.5	37.3	61.0	Worth	40.7	36.4	62.1
Jackson	45.1	41.1	59.8	Wright	48.9	44.9	61.2
Jasper	50.7	50.2	65.0	Undistributed	0.3	0.2	24.5
				State of Iowa	37.0	37.9	47.0

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 \$1.9 billion from 1984 to 1994; again, it increased each year. Retirement or disability payments constituted the largest part of direct federal expenditures and obligations in all but three Iowa counties. Johnson, Polk, and Story, which were the exceptions, received more federal funds in grant awards than in any other category. Twenty counties received at least \$50 million in the retirement/disability category in 1994, with seven (Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, Woodbury) above \$100 million. Adams (\$9.0 million) was the only county with less than \$10 million in this subcategory of payments to individuals.

Another 21.2 percent (\$2.8 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 1984 to 1989 and each succeeding year, with relatively large jumps between 1989 and 1994. In 1994, other payments received by individuals ranged from \$5.6 million in Adams to \$308 million in Polk. Black Hawk, Linn, Scott, and Woodbury also had more than \$100 million in other payments to individuals from federal sources.

Procurement contract awards totaled \$635 million in 1994. 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 1994, two counties (Linn, Polk) received half (50.1%) of all dollars for procurement contract awards in the state, with Linn alone (\$220.1 million) accounting for 34.7 percent of the total.

The "other" subcategory among direct federal expenditures or obligations amounted to \$1.6 billion in 1994. Expenditures in this area also changed greatly between years, with the highest figure in 1989 (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 1994, nine counties received at least \$15 million each in this subcategory. Polk (\$496 million) and Pottawattamie (\$201 million) were the only ones to exceed \$100 million. Eight counties received less than \$5 million each in 1994.

### **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 \$481 million of the \$4.0 billion total for other federal assistance. These figures varied by huge amounts in the years examined; expenditures were \$1.1 billion in 1993 while they were only \$473 million in 1989, primarily because direct loans related to agriculture were much greater some years than others. In Iowa, \$265 million of the \$481 million in this subcategory was related to commodity loans in 1994. Direct loans were at least \$15 million in 21 counties in 1993; in 1994, however, only Polk exceeded that level. Seven counties received less than \$2 million in direct loans in 1994.

Guaranteed loans and insurance totaled \$3.5 billion in 1994. 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; for the years preceding 1994, the lowest total was \$1.6 billion in 1984 while the highest was nearly \$3.3 billion in 1989. About \$2.0 billion of the \$3.5 billion for guaranteed loans and insurance was related to crop insurance in 1994. Totals from all the guaranteed loan and insurance programs exceeded \$50 million in nine counties, led by Polk with \$284

million. Thirteen 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 1994, retirement and disability payments accounted for more than a third of total federal funds sent to Iowa (Table 8). The 1994 figure (37.0%) was somewhat lower than it was in 1984 (47.0%). In 1994, retirement or disability payments accounted for at least 50 percent of all the funds from direct federal expenditures or obligations in nine counties. In 1984, 83 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 Dickinson.

Because payments related to retirement and disability accounted for a greater percentage of total federal funds statewide in 1984 than in 1994, 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 (Buchanan, Chickasaw, Des Moines, Linn), and only Des Moines (+13.4) increased by at least six percentage points. Decreases ranged from less than 10 points in 30 counties to at least 20 points in five; 60 counties reported declines of 10 through 19.9 points when 1984 and 1994 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 1983 and 1985 through 1988 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.

## Vehicles Registered in Iowa's Counties: 1984-1994

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The Iowa Department of Transportation is charged with keeping records of vehicles registered in the State of Iowa. The two categories with the greatest numbers of vehicles are those for autos (Table 1) (61.1% of all registered) and trucks (Table 2) (22.8% of all registered) in 1994. The total number of vehicles listed for the state was 3,224,016 in 1994, an increase of 291,002 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.

The number of autos registered in 1994 was 225,000 higher than the number reported in 1984. In 1994, an all-time high was reached when nearly 1,969,000 autos were registered (Figure 1). The number of truck registrations also reached a new high in 1994 (734,000). When 1984 and 1994 are compared, trucks increased by more than 103,000 (Figure 2).

Fewer than 10,000 automobiles were registered in 42 counties in 1994; more than 50,000 were recorded in eight others. Linn, Polk, and Scott were the only counties with more than 100,000; five (Adams, Audubon, Ringgold, Taylor, Wayne) were under 5,000. Seven counties (Adams, Audubon, Cass, Greene, Kossuth, Palo Alto, Pocahontas) had fewer automobile registrations in 1994 than in 1984. Gains of 1,000 or more occurred in 49 counties; five of these increased by at least 10,000 (Johnson, Linn, Polk, Scott, Woodbury).

Truck registrations also varied by county in 1994, with 49 reporting fewer than 5,000 and 16 with more than 10,000. Increases between 1984 and 1994 ranged from less than 100 in four counties to more than 1,000 in 25 others. Gains of at least 3,000 occurred in Johnson, Linn, Polk, Pottawattamie, Scott, Woodbury, and the category of trucks used for official purposes. Only Calhoun had fewer trucks in 1994 than in 1984.

Total vehicle registrations in 1994 ranged widely across the state. Polk's 352,882 was more than twice the number in every county except Linn (187,753). Black Hawk, Scott, and Woodbury also had at least 100,000 registered vehicles. Seven counties reported fewer than 10,000 vehicles, although only two (Adams, Ringgold) were under 8,000. Between 1984 and 1994, seven 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, 1984-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	5509	5480	5503	5504	5451	5382	5309	5540	5490	5516	5323
Adams	3221	3285	3250	3271	3293	3308	3338	3601	3496	2896	3287
Allamakee	9154	9210	9192	9049	8963	8796	8598	9274	9060	9003	8182
Appanoose	9629	9534	9394	9229	9085	8867	8732	9425	9129	8879	8304
Audubon	4568	4591	4638	4670	4694	4695	4637	4984	4964	4974	4839
Benton	15992	15792	15494	15326	15087	14782	14359	14853	14407	11413	13197
Black Hawk	86043	85562	84951	84421	82961	81398	79951	84389	83443	84727	81044
Boone	17683	17686	17571	17393	17081	16938	16661	17293	16836	13907	14964
Bremer	15676	15581	15477	15436	15269	15025	14625	15240	15094	15078	14408
Buchanan	13293	13144	13095	12995	12872	12646	12402	13204	12901	12730	12121
Buena Vista	13434	13397	13388	13249	13059	12812	12570	13263	13289	13369	12708
Butler	11101	11126	11112	11051	10983	10812	10648	10910	10719	10716	10307
Calhoun	7906	7901	7825	7802	7851	7808	7763	8027	7873	7975	7841
Carroll	14369	14364	14245	13950	13871	13686	13560	14212	14041	13993	13352
Cass	10350	10455	10440	10440	10502	10434	10389	11269	11319	11409	10769
Cedar	12354	12278	12259	12070	11901	11699	11401	11605	11229	9257	10698
Cerro Gordo	33365	32870	32717	32675	32535	32338	31705	33118	32648	32825	31248
Cherokee	10046	10072	9906	9887	9726	9594	9476	10159	9975	10043	9633
Chickasaw	9498	9491	9530	9504	9345	9225	9089	9611	9469	9545	9028
Clarke	5694	5532	5494	5425	5363	5317	5292	5567	5383	5283	4887
Clay	12660	12502	12531	12406	12314	12086	11901	12391	12235	10138	11804
Clayton	12363	12209	12235	12049	11876	11590	11460	12300	12056	12011	11247
Clinton	34567	34321	34276	33943	33369	32714	32297	36608	36913	36599	33495
Crawford	11093	11171	11101	11040	10940	10881	10879	11990	11775	11648	10905
Dallas	22770	22048	21603	21032	20756	20272	19907	20412	19450	16163	18080
Davis	5358	5285	5227	5295	5266	5248	5141	6211	5876	5710	5179
Decatur	5022	4992	4993	5033	5060	4947	4832	5016	4945	4891	4559
Delaware	11958	11793	11671	11644	11554	11473	11279	11533	11192	11040	10430
Des Moines	29713	29514	29760	29594	29344	28853	28472	31200	30894	30351	27856
Dickinson	11568	11475	11311	11062	10512	10310	10161	10468	10093	9989	9391
Dubuque	58651	57570	57192	56199	54753	53979	53065	59065	58656	57520	52209
Emmet	7993	7981	7997	7911	7799	7646	7530	8126	7991	8067	7619
Fayette	15062	14890	14846	14776	14701	14463	14106	14820	14560	14579	13854
Floyd	12119	12115	11984	11928	11869	11824	11630	12487	12305	12370	11688
Franklin	8086	7996	8001	7916	7952	7845	7767	8038	7936	6547	7259
Fremont	5819	5870	5870	5775	5686	5541	5472	5849	5663	5615	5298
Greene	7117	7141	7130	7111	7065	7072	7017	7409	7294	7330	7191
Grundy	8718	8640	8642	8565	8507	8398	8327	8577	8479	8520	8363
Guthrie	7887	7839	7747	7554	7474	7363	7262	7336	7070	7051	6793
Hamilton	11747	11636	11531	11485	11433	11340	11245	11649	11324	11283	10780
Hancock	8409	8417	8465	8477	8560	8526	8398	8564	8396	8423	8057
Hardin	13427	13161	13116	13110	13075	12890	12789	13787	13652	13658	13069
Harrison	10668	10715	10543	10414	10261	9911	9881	11400	10829	8441	9379
Henry	12363	12287	12083	12081	11806	11479	11265	12122	11830	11561	10709
Howard	7026	6926	6871	6898	6710	6539	6452	6897	6624	6694	6283
Humboldt	7676	7736	7664	7660	7673	7601	7478	7820	7776	7738	7395
Ida	5803	5760	5783	5691	5755	5628	5557	5749	5559	5534	5263
Iowa	10575	10440	10392	10160	9977	9878	9651	9975	9849	9854	9392
Jackson	13725	13443	13401	13335	13195	12807	12667	13935	13453	13195	12105
Jasper	24523	24673	24568	24348	24278	23919	23521	24134	23421	23179	21949

Table 1. Automobile Registrations in Iowa Counties, 1984-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	11623	11565	11511	11462	11380	10957	10796	11989	11703	11442	10325
Johnson	59697	58305	57125	55877	54317	52539	50609	51472	49942	48663	44503
Jones	12901	12766	12632	12494	12340	12151	11815	12269	11970	11739	11104
Keokuk	7789	7733	7711	7778	7732	7704	7606	7920	7821	7790	7417
Kossuth	12915	12930	12965	13042	13205	13137	13050	13571	13437	13615	13165
Lee	26424	26316	26282	26158	25860	25439	25100	27928	26883	22370	24563
Linn	127723	125930	123789	122551	119665	117698	115005	119389	116859	113211	103466
Louisa	8030	7993	7940	7834	7612	7504	7301	7418	7162	7000	6600
Lucas	6049	6004	5950	5967	5943	5847	5781	6081	6036	5997	5708
Lyon	8358	8279	8205	8050	7850	7696	7590	8355	8118	8126	7578
Madison	8551	8450	8344	8286	8163	7999	7859	7863	7589	7546	7041
Mahaska	14428	14361	14169	14102	13905	13672	13442	14192	13829	13701	12868
Marion	20272	19823	19465	19065	18872	18495	18077	18722	18198	17917	16880
Marshall	27533	27176	27112	27095	26867	26584	26154	26982	26723	26734	25453
Mills	9403	9407	9269	8916	8728	8513	8343	8826	8538	8328	7468
Mitchell	7715	7685	7668	7624	7569	7435	7215	7866	7690	7705	7185
Monona	7038	7108	7039	6857	6796	6681	6561	6837	6669	6662	6278
Monroe	5549	5569	5457	5336	5359	5318	5339	5556	5378	5382	5119
Montgomery	8384	8370	8234	8188	8244	8169	7996	8476	8220	6858	7782
Muscatine	28357	28049	27874	27414	26746	26135	25507	27298	26899	26792	24652
O'Brien	10755	10636	10558	10463	10376	10146	10056	10876	10677	10699	10262
Osceola	5054	5058	5098	5007	4859	4823	4800	5015	4921	5016	4743
Page	11228	11169	11136	11000	11098	11013	10694	11452	11284	11286	10645
Palo Alto	6908	6911	6936	6914	6904	6848	6851	7203	7082	7226	7038
Plymouth	16247	16189	15937	15547	15117	14777	14491	16698	16578	16103	14665
Pocahontas	6424	6580	6535	6593	6702	6705	6717	6963	6915	6952	6752
Polk	252631	248409	243786	239108	234947	228496	222361	240456	235431	237309	217427
Pottawattamie	62540	62575	62209	61339	60328	59648	59082	72252	69462	64682	55852
Poweshiek	12090	12027	12056	12045	12017	11867	11626	12287	12091	11904	10971
Ringgold	3478	3546	3557	3551	3562	3450	3367	3576	3563	3559	3345
Sac	8172	8199	8190	8166	8237	8180	8040	8379	8361	8378	8168
Scott	113090	109503	110807	107668	106397	103022	107838	114677	111386	109691	96996
Shelby	9133	9018	9048	8999	9027	9008	8976	9323	9085	9091	8716
Sioux	18904	18606	18191	17700	17346	16916	16675	18075	17586	17737	16624
Story	44396	43977	43414	42777	41938	41213	40186	41202	39264	32440	36172
Tama	12364	12161	11917	11837	11808	11717	11385	11830	11726	11659	11126
Taylor	4716	4684	4690	4710	4697	4723	4651	4856	4788	4773	4513
Union	8609	8631	8636	8622	8658	8498	8309	8667	8536	8332	7794
Van Buren	5148	5067	5019	5006	5000	4930	4811	5224	5134	5101	4699
Wapello	24992	25023	24656	24247	23878	23674	23098	24198	24030	24125	22502
Warren	25198	25053	24568	24309	23992	23474	23011	23398	22468	22103	20504
Washington	13286	13183	13130	12949	12871	12562	12301	12748	12479	12414	11718
Wayne	4755	4717	4651	4703	4658	4594	4574	4844	4820	4800	4458
Webster	27687	27613	27454	27295	27252	27019	26499	27790	27637	27958	26669
Winnebago	8739	8684	8630	8620	8658	8579	8757	8942	8640	8557	8063
Winneshiek	13010	12958	12851	12814	12583	12414	12148	12938	12657	12628	11683
Woodbury	70188	69254	67924	66535	64862	63111	61681	66746	64640	63420	58054
Worth	5817	5683	5750	5705	5696	5694	5631	5843	5751	5834	5471
Wright	10139	9834	9756	9758	9780	9730	9657	9910	9564	8051	9537
Official	10548	10172	9925	9698	9516	9189	9112	9115	8579	8084	7791
Unknown	327	323	353	356	386	412	349	451	507	2090	1445
State of Iowa	1968663	1947159	1930124	1905976	1879715	1844690	1816794	1936356	1894167	1848817	1743299

Table 2. Truck Registrations in Iowa Counties, 1984-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	3417	3411	3407	3335	3314	3280	3261	3315	3168	3197	3117
Adams	2043	2032	2003	1988	2032	2038	2023	2127	1994	1695	1921
Allamakee	4548	4488	4439	4329	4296	4172	4094	4263	4094	3993	3780
Appanoose	4774	4700	4568	4508	4417	4329	4225	4425	4249	4159	3986
Audubon	2622	2598	2615	2625	2645	2596	2566	2654	2574	2590	2534
Benton	7469	7259	7089	6967	6784	6600	6494	6639	6384	5289	6206
Black Hawk	23704	23117	22705	22288	21816	21233	20823	21862	21965	22347	21789
Boone	7326	7148	6982	6815	6624	6523	6375	6391	6201	5277	5532
Bremer	6182	6023	5947	5855	5767	5649	5554	5655	5478	5464	5297
Buchanan	6007	5887	5824	5747	5622	5515	5402	5596	5392	5396	5252
Buena Vista	5377	5283	5212	5158	5049	4980	4938	5135	4965	5015	4858
Butler	5070	5016	4965	4908	4805	4745	4736	4845	4722	4843	4764
Calhoun	3573	3530	3519	3553	3553	3509	3459	3518	3482	3558	3578
Carroll	6257	6173	6028	5927	5862	5773	5666	5935	5774	5802	5614
Cass	5172	5135	5091	5034	5022	4929	4786	5208	5167	5146	4963
Cedar	5804	5672	5534	5478	5328	5274	5210	5276	5141	4208	5018
Cerro Gordo	10073	9807	9700	9638	9542	9383	9157	9676	9590	9514	9141
Cherokee	4497	4380	4312	4300	4226	4161	4117	4218	4206	4222	4202
Chickasaw	3990	3902	3852	3827	3816	3732	3636	3942	3835	3803	3685
Clarke	2949	2902	2864	2837	2812	2772	2743	2818	2730	2634	2499
Clay	4815	4698	4677	4595	4606	4486	4357	4504	4391	3738	4358
Clayton	6378	6293	6201	6126	5987	5950	5820	6105	5962	5930	5723
Clinton	12100	11748	11643	11496	11225	10899	10694	11643	11405	11410	10680
Crawford	5661	5638	5559	5510	5441	5398	5306	5540	5413	5417	5187
Dallas	8895	8725	8501	8397	8271	8074	7878	7919	7634	6441	7329
Davis	3074	3000	2911	2868	2833	2783	2699	2861	2781	2773	2601
Decatur	2929	2918	2873	2868	2896	2830	2702	2795	2728	2674	2529
Delaware	5354	5269	5127	5092	4952	4866	4777	4821	4697	4705	4617
Des Moines	10662	10344	10197	10106	9855	9595	9402	10032	9712	9484	8980
Dickinson	4453	4357	4185	4070	3969	3830	3764	3851	3822	3828	3698
Dubuque	15801	15143	14748	14418	14155	13810	13488	15001	14606	14455	13405
Emmet	3490	3433	3377	3314	3236	3201	3178	3335	3311	3387	3274
Fayette	6369	6197	6106	6039	5977	5850	5688	5911	5713	5720	5572
Floyd	5054	4921	4869	4794	4693	4607	4550	4861	4781	4759	4620
Franklin	3744	3676	3629	3579	3561	3564	3567	3573	3526	2954	3315
Fremont	3531	3536	3492	3433	3310	3286	3240	3345	3298	3340	3240
Greene	3885	3828	3707	3650	3550	3520	3479	3607	3594	3687	3715
Grundy	3861	3803	3742	3730	3613	3566	3532	3645	3596	3663	3595
Guthrie	3963	3921	3812	3788	3680	3624	3566	3625	3539	3565	3476
Hamilton	4938	4788	4693	4658	4667	4644	4592	4688	4595	4627	4603
Hancock	3802	3735	3674	3703	3696	3622	3593	3839	3773	3766	3625
Hardin	5769	5602	5504	5393	5353	5288	5225	5381	5357	5415	5329
Harrison	5761	5707	5584	5443	5328	5177	5148	5567	5343	4418	4959
Henry	6007	5833	5709	5638	5532	5384	5297	5527	5277	5160	4850
Howard	3256	3185	3086	3081	3029	3004	2972	3163	3055	3088	2965
Humboldt	3346	3283	3273	3307	3351	3308	3234	3277	3286	3329	3320
Ida	2959	2969	2939	2919	2934	2843	2804	2846	2829	2808	2762
Iowa	5273	5150	5046	5006	4909	4813	4690	4761	4655	4639	4437
Jackson	6102	5925	5849	5780	5671	5480	5411	5826	5625	5579	5335
Jasper	10002	9744	9643	9540	9512	9344	9156	9317	8986	8913	8551

Table 2. Truck Registrations in Iowa Counties, 1984-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	4493	4406	4330	4232	4152	4080	4023	4389	4332	4298	4128
Johnson	14871	14364	13879	13494	13223	12913	12522	12741	12388	12217	11554
Jones	5890	5758	5607	5521	5439	5362	5270	5440	5323	5304	5173
Keokuk	4381	4277	4243	4181	4165	4146	4094	4296	4097	4147	3998
Kossuth	5771	5675	5628	5616	5684	5573	5464	5652	5580	5664	5617
Lee	10924	10564	10399	10155	9962	9736	9659	10366	10039	8401	9243
Linn	34939	33564	32610	31757	31069	30316	29545	29985	29148	28449	26580
Louisa	4225	4152	4109	4013	3945	3865	3862	3925	3842	3799	3607
Lucas	3225	3223	3197	3140	3076	3011	2890	3038	2966	2949	2881
Lyon	3786	3780	3713	3700	3634	3507	3409	3710	3590	3621	3495
Madison	4772	4650	4563	4549	4480	4371	4244	4281	4080	4013	3860
Mahaska	6718	6522	6396	6309	6224	6042	5908	6157	6020	5918	5605
Marion	8738	8515	8376	8157	7933	7775	7584	7779	7520	7375	6946
Marshall	10019	9616	9485	9388	9243	8988	8855	9140	9020	8970	8746
Mills	4684	4531	4433	4314	4188	4127	4052	4192	4060	3960	3661
Mitchell	3572	3509	3420	3378	3338	3243	3185	3331	3245	3290	3200
Monona	4090	4128	4062	3993	4000	3921	3867	4000	3901	3986	3854
Monroe	2893	2787	2791	2731	2695	2617	2610	2720	2686	2687	2571
Montgomery	4135	4124	4087	3991	3955	3892	3788	3876	3707	3192	3649
Muscatine	10822	10547	10377	10077	9937	9627	9308	9697	9548	9495	8918
O'Brien	4314	4286	4240	4183	4179	4100	4083	4258	4123	4118	4016
Osceola	2586	2529	2575	2529	2469	2466	2403	2381	2295	2357	2334
Page	5274	5166	5025	4972	4885	4790	4754	4982	4818	4800	4609
Palo Alto	3281	3219	3186	3164	3117	3104	3117	3193	3098	3163	3185
Plymouth	7039	6800	6746	6588	6435	6207	6166	6788	6569	6445	6154
Pocahontas	2984	2987	2992	3010	3023	3012	2944	2981	2935	2954	2937
Polk	60410	58475	56562	55441	54131	52148	50747	54567	53145	52852	48729
Pottawattamie	22455	22075	21848	21615	21515	21345	21104	23316	22378	21258	18771
Poweshiek	6036	5962	5893	5778	5708	5655	5594	5910	5674	5497	5211
Ringgold	2272	2244	2234	2237	2221	2199	2163	2236	2166	2204	2118
Sac	4157	4120	4098	4055	4015	3915	3843	3927	3868	3870	3854
Scott	28197	27325	27429	26601	25978	24869	25615	26778	26050	25588	22916
Shelby	4615	4574	4543	4478	4426	4324	4278	4383	4227	4217	4096
Sioux	7892	7752	7625	7431	7242	6993	6866	7259	6971	7025	6783
Story	12079	11822	11510	11281	11072	10837	10558	10837	10425	8459	9752
Tama	6259	6090	5949	5847	5782	5673	5599	5741	5653	5617	5471
Taylor	2701	2620	2580	2556	2580	2579	2587	2657	2690	2655	2562
Union	4190	4142	4054	3990	3955	3806	3734	3808	3721	3658	3548
Van Buren	3065	3035	2966	2848	2806	2781	2734	2895	2814	2793	2621
Wapello	9629	9399	9190	9028	8717	8551	8413	8797	8752	8923	8490
Warren	9907	9547	9331	9170	8970	8795	8558	8719	8418	8313	7942
Washington	6101	5932	5789	5768	5647	5547	5494	5545	5469	5469	5202
Wayne	2789	2770	2728	2691	2665	2568	2540	2640	2595	2607	2512
Webster	9899	9697	9578	9421	9351	9216	9051	9608	9486	9632	9342
Winnebago	3785	3686	3639	3560	3589	3555	3560	3531	3426	3452	3323
Winneshiek	5977	5904	5838	5718	5710	5564	5574	5888	5684	5633	5283
Woodbury	21391	20916	20381	20063	19790	19577	18919	20184	19428	19098	17788
Worth	2798	2740	2724	2694	2676	2657	2606	2721	2621	2615	2545
Wright	4209	4085	4129	4120	4067	4043	3983	4179	3981	3450	4102
Official	22474	22278	22280	22077	21842	21439	21197	20358	18879	18258	18728
Unknown	455	502	534	529	541	617	672	175	1446	1586	446
State of Iowa	734256	717203	704913	693597	682570	667883	656669	684621	667298	652125	631042



Table 3. Total Vehicle Registrations in Iowa Counties, 1984-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	10922	10870	10851	10755	10680	10619	10562	10986	10781	10885	10469
Adams	6245	6270	6208	6265	6359	6355	6359	6788	6406	5404	6146
Allamakee	17129	17042	16940	16696	16529	16163	15825	16924	16515	16376	15164
Appanoose	17394	17168	16820	16528	16300	15972	15762	16907	16501	16402	15506
Audubon	8791	8792	8798	8850	8868	8773	8684	9260	9201	9256	8963
Benton	28238	27561	27130	26652	26174	25611	25260	26004	24152	19611	22867
Black Hawk	129355	128149	127164	126134	124398	122376	120719	128643	128263	131405	127537
Boone	29844	29536	29219	28816	28337	28225	27813	28668	27132	22908	24997
Bremer	27174	26873	26605	26426	26149	25735	25223	26178	25915	26020	25030
Buchanan	24053	23740	23706	23471	23147	22766	22338	23531	22948	22969	22180
Buena Vista	23218	23067	22979	22788	22511	22256	21951	23161	22966	23283	22584
Butler	20414	20294	20210	20059	19868	19604	19415	20156	19819	19989	19238
Calhoun	14426	14372	14265	14235	14278	14180	14089	14585	14434	14759	14507
Carroll	24651	24540	24231	23888	23642	23355	23134	25182	24780	24996	23950
Cass	18947	18971	18908	18840	18873	18709	18538	20177	20114	20359	19420
Cedar	21803	21565	21310	21042	20746	20506	20136	20494	19321	15897	18664
Cerro Gordo	51783	50865	50595	50479	50205	49918	49090	51520	51115	51280	49062
Cherokee	18204	18064	17764	17735	17456	17220	17035	18105	17907	18176	17684
Chickasaw	17129	16971	16962	16837	16616	16350	16035	17068	16834	16935	16154
Clarke	10368	10109	10004	9933	9845	9764	9632	10108	9889	9683	9007
Clay	21370	20974	20926	20653	20490	20071	19736	20533	19488	16449	19571
Clayton	23569	23218	23145	22872	22541	22152	21754	22980	22564	22532	21324
Clinton	55994	55399	55319	54829	54044	53050	52504	58395	58518	58640	54522
Crawford	20306	20305	20143	20039	19849	19819	19728	21505	21163	21153	20071
Dallas	37261	36296	35581	34872	34476	33796	33230	33898	31666	26642	30839
Davis	10137	9948	9754	9759	9696	9606	9380	10695	10341	10289	9446
Decatur	9712	9624	9572	9614	9632	9441	9211	9682	9567	9543	8904
Delaware	21132	20772	20405	20320	20032	19805	19445	19968	19389	19278	18408
Des Moines	48541	47978	48167	47924	47567	46907	46567	50853	50414	49971	46956
Dickinson	20692	20390	19963	19499	18732	18333	18011	18586	18170	18203	17493
Dubuque	86000	83988	83241	81919	80167	79147	77964	87274	86472	85699	78764
Emmet	14718	14612	14571	14380	14164	13944	13735	14810	14595	14974	14317
Fayette	26470	26074	25875	25734	25531	25146	24633	25818	25363	25623	24687
Floyd	21402	21220	20965	20741	20535	20369	20139	21568	21277	21533	20507
Franklin	14376	14161	14094	13980	14010	13938	13892	14307	13769	11587	12955
Fremont	11097	11077	10967	10752	10499	10313	10156	10816	10593	10668	10149
Greene	13738	13669	13517	13435	13280	13287	13219	13955	13870	14153	13940
Grundy	15872	15692	15594	15519	15319	15146	15084	15628	15481	15696	15308
Guthrie	14634	14468	14257	14001	13780	13591	13398	13677	13363	13509	12932
Hamilton	20821	20450	20248	20191	20075	19990	19866	20709	20321	20495	19834
Hancock	15619	15451	15417	15486	15528	15440	15230	15840	15565	15626	14930
Hardin	23967	23404	23226	23119	23099	22877	22901	24427	24292	24558	23708
Harrison	19076	18929	18602	18337	18064	17524	17476	19568	18387	14790	16735
Henry	22283	22007	21618	21508	21063	20556	20339	21898	21231	20953	19528
Howard	12849	12618	12384	12360	12082	11875	11722	12484	12051	12205	11485
Humboldt	14226	14199	14054	14070	14069	13860	13604	14272	14275	14342	13819
Ida	10952	10896	10867	10754	10813	10546	10367	10874	10591	10538	10090
Iowa	19140	18811	18546	18294	17996	17751	17377	17869	17612	17622	16760
Jackson	24328	23770	23585	23376	23123	22478	22235	24159	23391	23181	21655
Jasper	42133	41884	41605	41264	41205	40702	40160	41408	40413	40426	38720

Table 3. Total Vehicle Registrations in Iowa Counties, 1984-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	19303	19061	18884	18748	18604	18046	17757	19683	19339	19070	17863
Johnson	85519	83470	81727	80092	78101	75896	73576	75562	73165	71897	67185
Jones	22823	22503	22168	21913	21621	21273	20780	21688	21208	21016	20110
Keokuk	14771	14541	14463	14450	14436	14422	14299	15039	14729	14838	14173
Kossuth	23194	23070	23039	23144	23337	23130	22931	24012	23807	24288	23677
Lee	43493	42978	42883	42420	41999	41420	41087	45114	42489	35902	39934
Linn	187753	184363	181401	179232	175588	173052	170348	176984	173262	169573	156913
Louisa	15170	15027	14920	14720	14426	14174	13970	14245	13824	13709	13003
Lucas	11454	11327	11236	11176	11103	10934	10749	11475	11428	11487	11032
Lyon	15244	15161	15032	14798	14457	14171	13891	15281	14807	14834	13918
Madison	16225	15852	15639	15562	15274	14960	14716	14870	14391	14375	13565
Mahaska	26104	25774	25416	25232	25015	24606	24278	25725	25250	25137	23804
Marion	35089	34292	33810	33092	32638	32035	31355	32594	31803	31440	29754
Marshall	44642	43792	43700	43686	43401	43012	42538	44225	44031	44399	42972
Mills	16613	16373	16122	15608	15279	14917	14645	15489	15035	14798	13479
Mitchell	13980	13819	13673	13569	13453	13199	12885	13847	13542	13735	12936
Monona	13477	13483	13336	13115	13080	12860	12629	13109	12804	12945	12282
Monroe	10286	10101	9969	9732	9696	9538	9563	10004	9821	9880	9467
Montgomery	14599	14569	14413	14210	14250	14089	13821	14440	13762	11708	13465
Muscatine	47521	46946	46730	45973	45198	44277	43346	45919	45444	45694	42942
O'Brien	19376	19161	19004	18833	18682	18321	18144	20082	19288	19363	18670
Osceola	9738	9639	9743	9540	9314	9234	9145	9454	9248	9488	9001
Page	19684	19390	19189	18970	18971	18825	18488	19767	19465	19554	18458
Palo Alto	12599	12509	12450	12391	12335	12286	12331	13002	12841	13210	12857
Plymouth	28764	28237	27778	27083	26395	25693	25320	28580	27994	27543	25504
Pocahontas	12028	12192	12130	12125	12282	12265	12191	12677	12629	12800	12425
Polk	352882	345987	339445	333645	328135	319830	312489	351074	341339	341538	313107
Pottawattamie	97080	96718	96388	95455	94355	93458	92728	110509	106659	101168	88647
Poweshiek	22453	22273	22220	22068	21976	21750	21492	22710	22254	21844	20322
Ringgold	7072	7105	7125	7117	7097	6930	6816	7146	7089	7181	6827
Sac	15319	15252	15186	15103	15126	14944	14710	15244	15127	15268	14917
Scott	159941	155230	156817	152714	150730	146623	152901	162968	158481	157132	140786
Shelby	16602	16464	16474	16299	16263	16083	16123	16779	16335	16483	15836
Sioux	34247	33675	33026	32119	31511	30674	30149	32484	31428	31705	29909
Story	65674	64996	64186	63297	62339	61417	60110	61273	57150	47690	54316
Tama	22696	22388	21987	21781	21660	21457	21007	21929	21753	21795	20901
Taylor	9013	8850	8791	8832	8827	8867	8853	9334	9347	9396	8983
Union	15607	15566	15524	15469	15456	15141	14878	15444	15290	15096	14253
Van Buren	10208	10037	9886	9679	9581	9440	9260	9932	9794	9783	9087
Wapello	41458	41205	40555	39963	39235	38979	38349	40229	40185	41135	38996
Warren	42095	41411	40644	40202	39740	39170	38500	39472	38328	38074	35913
Washington	23578	23157	22964	22757	22508	22170	21915	22679	22398	22608	21449
Wayne	9078	8985	8893	8877	8814	8628	8640	9259	9135	9136	8582
Webster	44715	44338	44024	43540	43377	43037	42383	45987	45630	46510	44589
Winnebago	15760	15489	15384	15270	15325	15193	15376	15672	15285	15248	14348
Winneshek	22830	22655	22449	22248	21934	21578	21404	22856	22362	22430	20799
Woodbury	105318	103638	101624	100127	98031	96166	94182	103417	100028	98613	90801
Worth	10786	10544	10565	10458	10388	10366	10211	10643	10457	10559	10015
Wright	17667	17178	17084	17243	17099	17098	17055	17619	16595	14049	16542
Official	49144	48047	47680	46850	45861	44837	44081	42349	39772	38318	37344
Unknown	841	896	966	968	1092	1167	1396	1346	11952	12569	18870
State of Iowa	3224016	3176817	3145619	3107525	3067837	3017555	2980454	3184122	3118764	3065482	2933014

Figure 1. Automobile registrations in Iowa, 1984-1994.

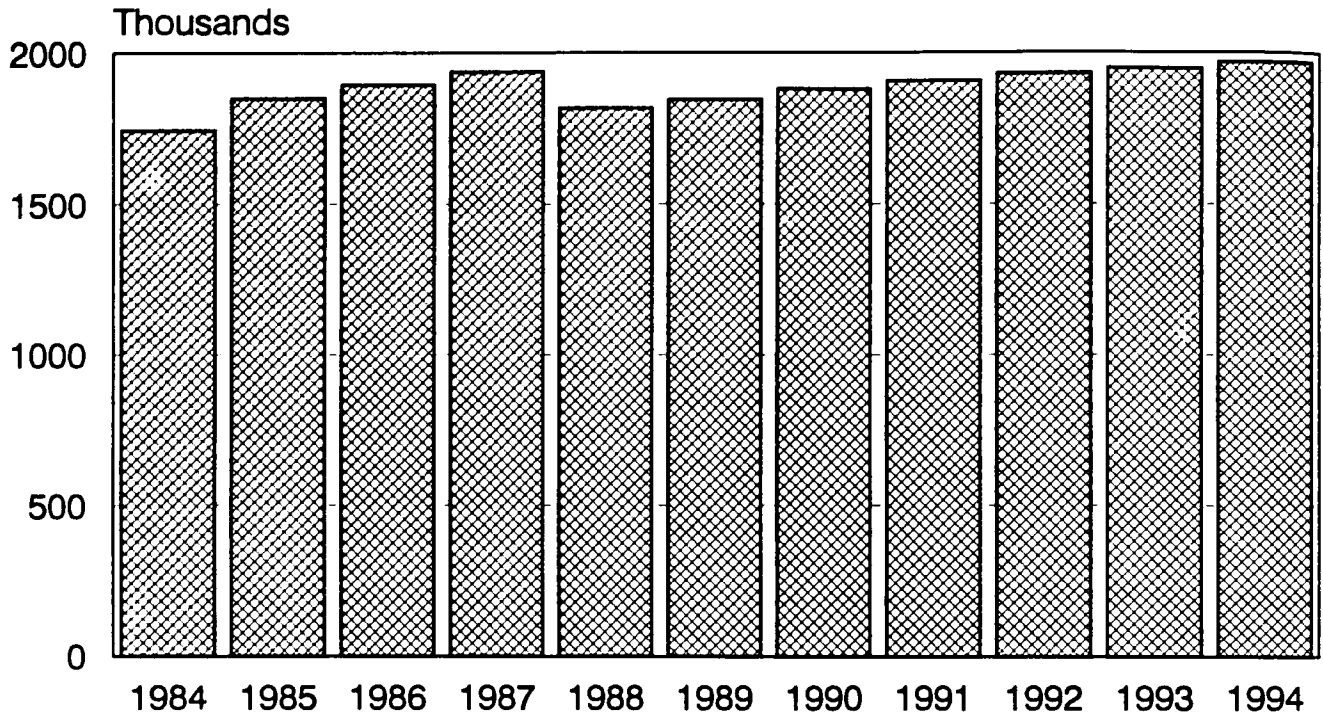
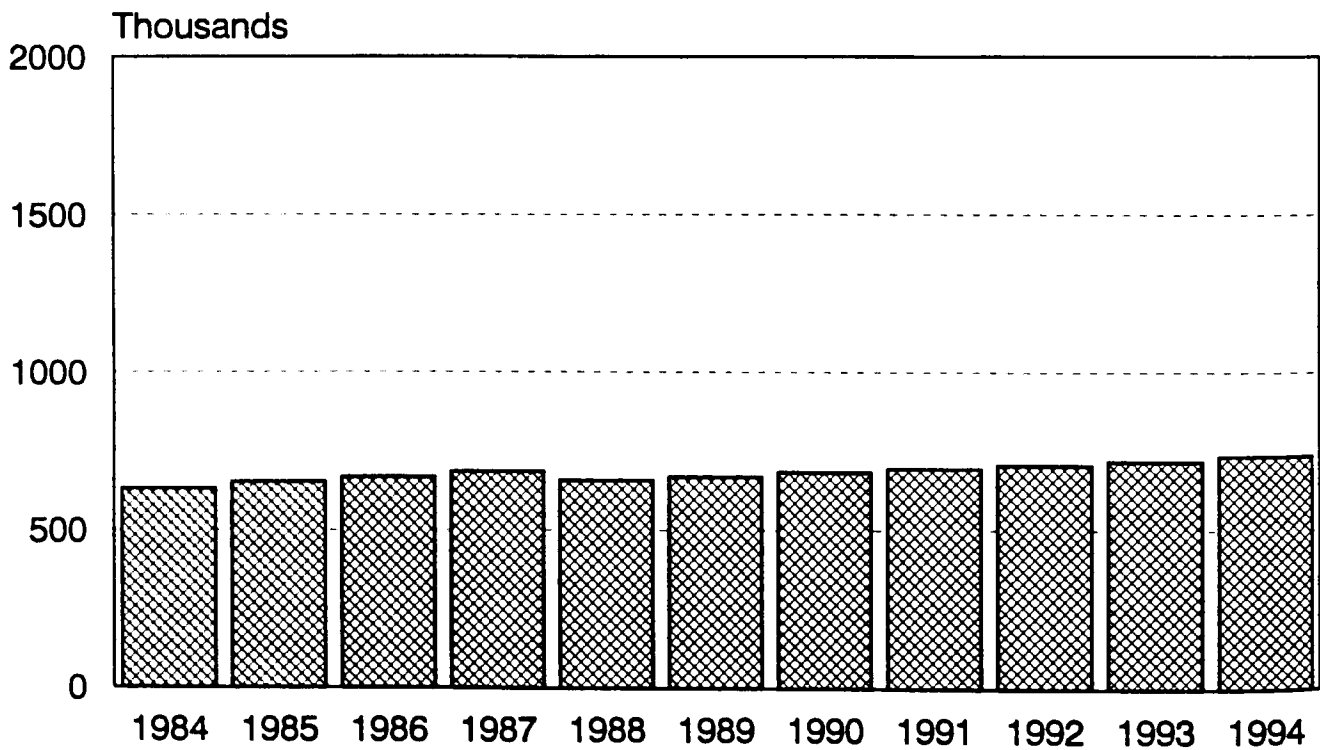


Figure 2. Truck registrations in Iowa, 1984-1994.



## Retail Trade in Iowa's Counties:

1977-1992

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Information is reported on retail trade as part of the economic census conducted every five years by the U.S. Bureau of the Census. Included are all establishments with at least one paid employee primarily engaged in selling merchandise for personal or household consumption and rendering services incidental to the sale of the goods. The most recent census of retail trade was conducted early in 1993; data were reported for the 1992 calendar year.

### Establishments and Sales

Iowa had 19,732 retail establishments in 1992, a decline of 579 from 1987 (Table 1). The state has registered decreases in the number of retail businesses at each census since 1977. Polk County had the most (2,374) retail establishments of any county, more than double the numbers in Linn (1,126) and Scott (1,014), the only others with at least 1,000. Thirty-eight counties had fewer than 100 retail businesses, with Adams (33) and Ringgold (31) the only two below 40.

Nearly three-fourths (72) of the counties mirrored the state trend with fewer retailers in 1992 than in 1987. Benton, Hardin, Scott, and Webster each lost more than 30, with Scott's decline of 43 the greatest. Twenty-two counties had more retail establishments in 1992 than five years earlier; the gain was less than 10 in 14 counties. Polk had 76 more retail establishments in 1992 than in 1987; Dickinson, Iowa, and Linn were the only others reporting increases exceeding 25.

Retail sales increased in Iowa between 1987 and 1992 even though the number of businesses declined (Table 1). Retailers sold nearly \$20 billion of goods in 1992 compared with \$15 billion in 1987, an increase of 32.3 percent. Polk alone had \$3.4 billion in sales; three others (Black Hawk, Linn, Scott) exceeded \$1 billion each. In contrast, seven counties (Adams, Fremont, Osceola, Taylor, Van Buren, Wayne, Worth) were below \$20 million in sales.

In Adams, Fremont, and Mitchell, retail sales decreased by \$1.5 to \$4.5 million between 1987 and 1992. Gains ranged from \$122,000 in Wayne to \$928 million in Polk between the two most recent censuses. No other county recorded an increase greater than \$500 million, although Black Hawk, Johnson, Linn, and Scott each had at least \$200 million more in sales in 1992 than in 1987.

To determine whether retail sales were keeping pace with inflation, the figures from earlier years were adjusted to 1992 dollars based on the consumer price index for each year. For the state as a whole, retail sales in 1992 were \$1.5 billion higher than the adjusted value for 1987, representing an eight percent gain. This increase, however, was much less than when the unadjusted 1987 figure was used. The adjusted sales for 1987 represented an increase over the adjusted figure for 1982, but the 1977 adjusted sales were the highest of the period when inflation was taken into account. The 1980s were difficult years for Iowa's economy, as reflected in the retail sales figures. Comparisons across the adjusted sales data suggest that in the early 1990s, the state as a whole was nearly back to the level of retail activity experienced in the late 1970s.

County figures are affected by inflation as well. Using adjusted figures, retail sales declined in 29 counties from 1987 to 1992; this occurred in only three counties when the unadjusted results were examined. Thus, although unadjusted gains occurred in 96 counties, the increases in 26 of them did not

Table 1. Establishments, Sales (unadjusted and adjusted to 1992 dollars), and Per Capita Sales (unadjusted and adjusted to 1992 dollars) in Retail Trade in Iowa Counties, 1977-1992.

County	Number of Establishments				Sales (in \$1,000s)				Adjusted Sales (in \$1,000s)			Per Capita Sales				Adjusted Per Capita Sales		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Adair	53	70	82	86	31630	28300	33112	28802	34639	47235	64434	3769	3310	3577	3074	4051	5103	6877
Adams	33	36	37	41	12516	14025	11915	10155	17166	16997	22718	2686	2688	2145	1718	3290	3059	3843
Allamakee	121	124	127	143	73548	59251	52677	35953	72523	75146	80432	5286	4185	3543	2297	5122	5054	5140
Appanoose	109	105	110	133	79837	61283	52942	44548	75010	75524	99660	5776	4340	3492	2858	5313	4981	6393
Audubon	46	54	66	90	39124	28430	26856	23238	34798	38311	51987	5494	3738	3214	2589	4576	4585	5792
Benton	127	158	164	176	87420	73207	64373	52106	89605	91830	116568	3836	3296	2762	2228	4034	3941	4983
Black Hawk	837	852	881	904	1074916	759156	658762	537319	929200	939746	1202056	8643	6131	4814	3983	7504	6868	8910
Boone	141	165	172	173	143608	104801	85588	68614	128275	122094	153499	5671	4166	3285	2594	5099	4685	5803
Bremer	150	160	176	178	122253	88674	72392	61737	108536	103270	138114	5301	3904	2935	2588	4778	4187	5789
Buchanan	122	123	137	155	100257	80827	65022	47587	98931	92756	106459	4779	3888	2830	2063	4759	4037	4614
Buena Vista	170	187	178	187	142671	107317	96235	75510	131355	137282	168926	7102	5338	4615	3606	6534	6583	8068
Butler	110	117	123	125	45654	33829	31653	27820	41406	45154	62237	2891	2116	1816	1570	2590	2590	3513
Calhoun	80	97	106	120	50124	38668	38796	38265	47329	55344	85604	4347	3288	2930	2778	4025	4179	6215
Carroll	218	201	206	210	165677	128885	119586	84343	157754	170593	188687	7715	5919	5276	3671	7245	7527	8212
Cass	144	163	172	188	102835	92878	86551	66683	113682	123468	149179	6846	6024	5116	3889	7373	7298	8701
Cedar	111	120	127	134	75823	70419	61564	46884	86192	87823	104886	4289	4029	3324	2499	4931	4742	5590
Cerro Gordo	411	432	412	441	438426	369520	285963	213579	452289	407936	477805	9359	7803	5930	4343	9550	8460	9716
Cherokee	111	122	129	131	85620	73656	71691	52290	90154	102270	116980	6123	5078	4517	3155	6215	6444	7059
Chickasaw	98	107	116	129	57311	41810	39495	36911	51175	56341	82575	4318	3048	2596	2394	3731	3703	5355
Clarke	60	69	73	71	50287	44138	36475	29391	54024	52033	65752	6020	5289	4181	3574	6473	5965	7995
Clay	168	170	201	186	150543	111528	104967	80296	136509	149739	179633	8485	6441	5461	4178	7884	7791	9347
Clayton	143	145	159	149	85657	63473	57549	41881	77690	82096	93694	4563	3270	2766	1918	4002	3946	4291
Clinton	351	379	404	394	346727	292279	268448	207066	357747	382950	463235	6764	5651	4763	3554	6916	6795	7952
Crawford	143	145	155	157	96462	63978	59372	55842	78308	84696	124926	5787	3633	3151	2913	4447	4495	6517
Dallas	152	159	184	201	140889	109050	100682	75563	133476	143626	169045	4555	3785	3451	2667	4633	4923	5967
Davis	46	45	51	59	28535	23263	22746	20387	28474	32448	45609	3430	2719	2520	2225	3328	3595	4977
Decatur	47	60	74	70	22277	21475	25355	16467	26285	36170	36839	2737	2509	2646	1650	3071	3774	3692
Delaware	115	119	126	146	84150	57331	56618	46385	70173	80767	103770	4596	3198	3025	2471	3914	4315	5529
Des Moines	342	344	352	342	343198	269151	219420	170903	329438	313010	382333	8007	6266	4831	3737	7670	6892	8361
Dickinson	206	179	158	181	130826	98242	70821	56817	120247	101029	127107	8579	6701	4603	3762	8202	6567	8415
Dubuque	663	650	600	580	699716	556187	423832	350594	680767	604611	784327	8011	6384	4607	3719	7813	6573	8320
Emmet	75	91	96	108	57388	54372	52338	43859	66551	74662	98119	4943	4668	3982	3154	5713	5681	7055
Fayette	190	182	200	209	128850	99830	89764	71520	122191	128051	160000	5863	4538	3614	2736	5554	5155	6120

Table 1. Establishments, Sales (unadjusted and adjusted to 1992 dollars), and Per Capita Sales (unadjusted and adjusted to 1992 dollars) in Retail Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Establishments				Sales (in \$1,000s)				Adjusted Sales (in \$1,000s)			Per Capita Sales				Adjusted Per Capita Sales		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Floyd	122	128	145	142	85498	72137	72669	58815	88295	103665	131577	5044	4113	3804	2965	5034	5427	6633
Franklin	69	77	92	96	39125	33111	37638	31883	40528	53692	71327	3499	2807	2943	2487	3436	4199	5564
Fremont	47	55	67	61	17823	22293	28308	13763	27286	40382	30790	2176	2570	3087	1431	3146	4404	3202
Greene	66	79	98	94	46462	45754	37841	27066	56002	53981	60550	4603	4349	3209	2203	5323	4578	4929
Grundy	85	83	100	104	44417	33749	37633	30318	41308	53685	67826	3678	2716	2698	2162	3325	3849	4837
Guthrie	64	75	74	95	34625	24345	20153	18627	29798	28749	41671	3098	2204	1724	1514	2697	2459	3387
Hamilton	108	124	142	157	82606	74084	60493	53432	90678	86295	119535	5121	4470	3439	2968	5471	4906	6640
Hancock	89	81	99	97	42401	31382	26808	27288	38411	38243	61047	3423	2433	1974	1955	2978	2816	4374
Hardin	155	192	211	249	112749	89172	95889	72770	109146	136789	162796	5998	4540	4450	3296	5557	6348	7374
Harrison	110	115	125	136	112965	67948	56995	50246	83168	81305	112407	7685	4477	3554	2979	5480	5070	6664
Henry	131	134	127	129	113613	86558	71214	53809	105946	101589	120378	5795	4542	3810	2892	5559	5435	6471
Howard	72	79	94	100	43415	31425	32585	25662	38464	46484	57409	4385	3100	2988	2241	3794	4262	5014
Humboldt	82	89	106	105	53685	43117	41635	33788	52775	59394	75588	5082	3939	3478	2678	4822	4961	5991
Ida	61	67	66	73	43863	35474	27741	20284	43420	39573	45378	5293	4232	3172	2241	5180	4525	5012
Iowa	184	152	140	145	132262	80397	61057	48217	98405	87100	107868	8955	5468	4029	3033	6693	5747	6785
Jackson	146	158	167	169	112927	81817	62342	48310	100143	88933	108076	5629	3932	2824	2182	4813	4028	4882
Jasper	221	218	235	251	195373	159451	128732	105144	195166	183641	235221	5605	4612	3605	2865	5646	5143	6409
Jefferson	133	133	110	116	116534	81896	62258	47023	100240	88813	105197	7067	5023	3815	2951	6149	5443	6601
Johnson	618	597	523	474	762014	527147	364603	267540	645223	520118	598523	7770	5825	4308	3379	7130	6145	7559
Jones	120	133	145	159	92706	67456	56207	47053	82565	80181	105264	4691	3544	2807	2324	4338	4004	5198
Keokuk	71	71	85	99	43702	32452	27575	27784	39721	39337	62157	3764	2727	2182	2061	3338	3112	4612
Kossuth	140	155	176	179	111599	80578	83000	78055	98627	118402	174620	6123	4206	3914	3526	5148	5584	7889
Lee	293	302	308	336	301556	216270	174986	155703	264712	249623	348329	7720	5452	4140	3556	6673	5906	7955
Linn	1126	1100	1062	957	1564354	1138105	817419	617539	1393029	1166076	1381519	9042	6926	4893	3693	8477	6980	8263
Louisa	62	74	74	72	38720	30536	30545	22516	37376	43573	50371	3388	2625	2545	1895	3213	3630	4240
Lucas	58	66	70	84	42162	30466	40773	28315	37290	58164	63345	4659	3246	3968	2778	3973	5661	6216
Lyon	87	80	92	97	37486	29699	28764	26647	36351	41033	59613	3130	2495	2264	2047	3054	3230	4579
Madison	90	90	92	91	60471	50922	42429	32646	62328	60526	73034	4728	4154	3403	2586	5085	4855	5785
Mahaska	154	167	165	164	126656	103279	86098	71130	126412	122822	159128	5889	4811	3864	3113	5888	5513	6963
Marion	192	203	192	201	137057	115239	83730	68556	141051	119444	153369	4534	3894	2798	2392	4766	3991	5351
Marshall	267	283	289	327	258631	211442	180902	151246	258803	258063	338358	6844	5455	4325	3514	6677	6170	7861
Mills	64	63	71	95	51658	40793	36189	33279	49930	51625	74450	3862	3088	2705	2516	3780	3859	5629
Mitchell	77	91	92	100	34744	38799	34134	25652	47490	48693	57387	3203	3482	2859	2053	4262	4078	4594

Table 1. Establishments, Sales (unadjusted and adjusted to 1992 dollars), and Per Capita Sales (unadjusted and adjusted to 1992 dollars) in Retail Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Establishments				Sales (in \$1,000s)				Adjusted Sales (in \$1,000s)			Per Capita Sales				Adjusted Per Capita Sales		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Monona	93	96	119	117	58108	41511	42030	33476	50809	59957	74890	5804	4013	3686	2752	4912	5258	6157
Monroe	61	55	62	64	40561	29828	24019	20957	36509	34264	46884	4946	3615	2684	2220	4425	3828	4967
Montgomery	83	96	116	116	75305	56868	54773	39476	69606	78136	88313	6322	4703	4166	2904	5757	5942	6496
Muscatine	275	275	285	291	284224	198390	176821	161643	242827	252241	361617	6959	5018	4271	4003	6141	6093	8954
O'Brien	146	148	168	174	98152	83771	71397	55213	102535	101850	123519	6340	5365	4234	3181	6567	6041	7116
Osceola	47	54	63	70	19492	18638	19150	16314	22813	27318	36497	2701	2532	2357	1947	3099	3362	4356
Page	150	171	169	176	121652	93624	80696	65857	114595	115116	147331	7299	5517	4337	3420	6753	6187	7650
Palo Alto	86	95	101	114	49077	38962	39630	32980	47689	56534	73781	4667	3548	3169	2460	4343	4521	5502
Plymouth	168	184	176	196	136400	110506	92067	78041	135258	131337	174588	5766	4690	3769	3109	5741	5376	6955
Pocahontas	75	92	86	107	48167	42350	27194	31048	51836	38793	69459	5176	4230	2480	2620	5177	3538	5862
Polk	2374	2298	2089	2011	3402161	2474264	1799159	1337351	3028475	2566561	2991837	10067	7909	5907	4427	9680	8427	9904
Pottawattamie	519	545	498	475	665126	511777	409366	250930	626410	583974	561365	7964	6107	4764	2859	7475	6796	6396
Poweshiek	140	144	143	149	121458	91034	89104	59547	111425	127110	133215	6411	4855	4666	3097	5942	6656	6928
Ringgold	31	33	39	47	24157	19670	15851	12788	24076	22612	28609	4479	3622	2595	2043	4433	3701	4572
Sac	100	104	123	148	49963	40895	39714	33934	50055	56653	75915	4106	3257	2890	2290	3986	4122	5122
Scott	1014	1057	1014	948	1423526	1043219	840220	605370	1276890	1198602	1354295	9179	6913	5264	3857	8461	7509	8629
Shelby	105	108	109	117	69056	51996	49959	33216	63643	71268	74309	5216	3861	3380	2211	4725	4822	4946
Sioux	220	209	219	243	154844	99006	94010	78461	121182	134108	175528	5092	3345	3079	2623	4094	4393	5869
Story	493	487	505	475	543224	408410	320654	219394	499890	457424	490814	7305	5570	4435	3139	6818	6327	7022
Tama	113	121	126	156	60425	52479	50088	39205	64234	71452	87707	3466	2947	2608	1960	3608	3720	4385
Taylor	47	59	60	65	16242	15430	16564	11342	18886	23629	25374	2301	2083	1993	1359	2550	2843	3041
Union	94	107	114	131	106639	70327	62590	45897	86080	89287	102678	8491	5471	4551	3318	6696	6493	7422
Van Buren	42	52	51	65	18926	12224	12205	11461	14962	17411	25640	2448	1553	1432	1329	1901	2043	2974
Wapello	247	239	243	275	265660	187473	175779	133962	229465	250755	299691	7397	5173	4463	3304	6332	6367	7392
Warren	147	139	140	139	189740	141510	85950	67332	173207	122611	150631	5093	4039	2475	2049	4943	3531	4585
Washington	160	154	154	177	111714	87469	74012	62024	107061	105581	138756	5530	4481	3689	3099	5485	5262	6933
Wayne	51	48	59	69	19182	19060	19712	13769	23329	28120	30803	2749	2635	2477	1665	3225	3534	3724
Webster	302	335	352	374	313788	256344	234249	198087	313763	334164	443148	7821	6235	5217	4229	7632	7442	9461
Winnebago	84	105	121	131	56023	49802	46919	34995	60957	66932	78289	4700	4139	3739	2573	5067	5334	5756
Winneshiek	163	172	180	168	116366	87432	68067	49419	107016	97100	110557	5540	4171	3120	2257	5105	4451	5050
Woodbury	688	701	684	729	825726	650745	522018	389523	796506	744676	871416	8262	6723	5192	3704	8228	7406	8287
Worth	46	46	55	63	16713	15418	18954	16046	18871	27039	35897	2120	1883	2118	1784	2305	3021	3991
Wright	111	138	146	148	69375	54650	53510	42397	66891	76334	94848	4864	3786	3377	2573	4634	4818	5756
State of Iowa	19732	20311	20557	21079	19959786	15081608	12319336	9520876	18459741	17573946	21299499	7109	5450	4265	3267	6671	6085	7309

Table 2. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Payroll Per Employee (unadjusted and adjusted to 1992 dollars) in Retail Trade in Iowa Counties, 1977-1992.

County	Number of Employees				Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in \$1,000s)			Pay Per Employee				Adjusted Pay Per Employee		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Adair	433	465	555	595	2793	2963	3157	2787	3627	4504	6235	6450	6372	5688	4684	7800	8115	10479
Adams	205	209	188	211	1509	1646	1383	1029	2015	1973	2302	7361	7876	7356	4877	9641	10495	10910
Allamakee	805	773	750	793	7497	5737	5149	3942	7022	7345	8819	9313	7422	6865	4971	9084	9793	11121
Appanoose	859	721	674	785	8131	6072	5648	4745	7432	8057	10615	9466	8422	8380	6045	10308	11954	13522
Audubon	362	303	420	452	3431	2270	2379	2162	2778	3394	4837	9478	7492	5664	4783	9168	8081	10701
Benton	860	885	850	929	8422	6936	6760	5460	8490	9643	12215	9793	7837	7953	5877	9593	11345	13149
Black Hawk	12134	10257	10115	10601	127685	87822	81957	66719	107493	116914	149260	10523	8562	8103	6294	10480	11558	14080
Boone	1486	1305	1316	1225	16025	10951	9362	7062	13404	13355	15799	10784	8392	7114	5765	10271	10148	12897
Bremer	1363	1249	1285	1192	13470	9464	8839	6578	11584	12609	14716	9883	7577	6879	5518	9275	9812	12346
Buchanan	949	851	911	857	9809	7656	6433	4670	9371	9177	10447	10336	8996	7061	5449	11012	10074	12190
Buena Vista	1743	1530	1607	1522	16234	12009	10884	7913	14699	15526	17702	9314	7849	6773	5199	9607	9661	11631
Butler	498	467	520	498	4247	3068	3256	2585	3755	4645	5783	8528	6570	6262	5191	8041	8933	11612
Calhoun	480	428	569	564	4155	3190	3534	3165	3905	5041	7081	8656	7453	6211	5612	9124	8859	12555
Carroll	1765	1525	1538	1531	17988	13083	11395	8546	16013	16255	19119	10192	8579	7409	5582	10500	10569	12488
Cass	1277	1181	1323	1366	11821	9424	9090	7334	11535	12967	16407	9257	7980	6871	5369	9767	9801	12011
Cedar	890	843	799	854	8496	6153	5418	4465	7531	7729	9989	9546	7299	6781	5228	8934	9673	11697
Cerro Gordo	4971	5307	4414	4508	50819	43268	33538	26446	52960	47843	59163	10223	8153	7598	5866	9979	10839	13124
Cherokee	969	912	1039	964	9372	7852	7647	5514	9611	10909	12336	9672	8610	7360	5720	10538	10500	12797
Chickasaw	774	551	627	715	5924	4086	4690	3552	5001	6690	7946	7654	7416	7480	4968	9076	10670	11113
Clarke	627	491	517	453	6135	4792	3936	2553	5865	5615	5711	9785	9760	7613	5636	11945	10861	12607
Clay	1708	1534	1736	1640	18476	13869	12754	9828	16976	18194	21987	10817	9041	7347	5993	11066	10480	13407
Clayton	888	752	885	814	8186	5685	5783	4473	6958	8250	10007	9218	7560	6534	5495	9253	9322	12294
Clinton	3685	3797	3891	3655	36676	31929	29947	23067	39081	42720	51604	9953	8409	7696	6311	10293	10979	14119
Crawford	1174	985	1020	1248	9934	6595	6318	6392	8072	9013	14300	8462	6695	6194	5122	8195	8836	11458
Dallas	1466	1109	1239	1395	15572	10462	9142	8011	12805	13041	17922	10622	9434	7379	5743	11546	10525	12847
Davis	361	264	290	326	3061	2129	2221	1859	2606	3168	4159	8479	8064	7659	5702	9871	10924	12758
Decatur	290	284	422	362	2414	2166	2348	1665	2651	3350	3725	8324	7627	5564	4599	9335	7938	10290
Delaware	1025	712	741	795	9716	6131	5654	4535	7504	8066	10145	9479	8611	7630	5704	10539	10885	12761
Des Moines	4067	3888	3575	3569	40678	33055	28364	22127	40459	40462	49501	10002	8502	7934	6200	10406	11318	13870
Dickinson	1373	1329	1182	1007	14853	10939	8945	6829	13389	12760	15277	10818	8231	7568	6782	10074	10795	15171
Dubuque	8119	7436	6654	6776	83872	67037	53320	42989	82053	76063	96172	10330	9015	8013	6344	11035	11431	14193
Emmet	625	734	776	793	6242	5694	6147	5067	6969	8769	11336	9987	7757	7921	6390	9495	11300	14295
Fayette	1519	1173	1405	1401	14135	9965	9682	7384	12197	13812	16519	9305	8495	6891	5271	10398	9831	11791



Table 2. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Payroll Per Employee (unadjusted and adjusted to 1992 dollars) in Retail Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Employees				Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in \$1,000s)			Pay Per Employee				Adjusted Pay Per Employee		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Floyd	1065	1087	1144	1048	9707	8258	8139	6268	10108	11611	14022	9115	7597	7115	5981	9299	10149	13380
Franklin	487	480	546	574	4508	3384	4044	2903	4142	5769	6494	9257	7050	7407	5057	8629	10566	11314
Fremont	281	339	399	258	2417	2687	3013	1434	3289	4298	3208	8601	7926	7551	5558	9702	10772	12434
Greene	507	526	520	554	4636	4107	3630	2752	5027	5178	6157	9144	7808	6981	4968	9557	9958	11114
Grundy	495	540	705	589	4474	3561	4135	2823	4359	5899	6315	9038	6594	5865	4793	8072	8367	10722
Guthrie	376	361	375	531	3767	2559	2044	2058	3132	2916	4604	10019	7089	5451	3876	8676	7776	8670
Hamilton	1038	1055	1054	1122	9130	7690	6724	5807	9412	9592	12991	8796	7289	6380	5176	8921	9101	11578
Hancock	571	515	523	480	4407	2934	2957	2428	3591	4218	5432	7718	5697	5654	5058	6973	8065	11317
Hardin	1198	1189	1423	1394	11777	8994	9445	7212	11009	13474	16134	9831	7564	6637	5174	9259	9469	11574
Harrison	787	705	726	751	8195	6414	5261	4821	7851	7505	10785	10413	9098	7247	6419	11136	10337	14361
Henry	1459	1205	947	973	13873	9848	7169	5819	12054	10227	13018	9509	8173	7570	5980	10003	10799	13379
Howard	488	388	433	464	3819	2861	3274	2197	3502	4670	4915	7826	7374	7561	4735	9026	10785	10593
Humboldt	642	578	649	632	6096	4690	4396	3319	5741	6271	7425	9495	8114	6773	5252	9933	9663	11748
Ida	484	432	369	412	4350	3301	2667	1715	4040	3805	3837	8988	7641	7228	4163	9352	10312	9313
Iowa	2038	1708	1460	1673	17408	10937	8883	7023	13387	12672	15711	8542	6403	6084	4198	7838	8679	9391
Jackson	1238	1038	976	1055	10861	7989	6882	5533	9778	9817	12378	8773	7697	7051	5245	9420	10058	11733
Jasper	2117	2067	1874	1932	22223	17814	14065	11509	21804	20064	25747	10497	8618	7505	5957	10549	10707	13327
Jefferson	1229	1080	764	811	13108	8676	6527	4947	10619	9311	11067	10666	8033	8543	6100	9832	12187	13646
Johnson	9845	8633	6852	5857	98795	67483	49857	35084	82599	71123	78488	10035	7817	7276	5990	9568	10380	13401
Jones	947	805	804	817	9081	6377	5331	4179	7805	7605	9349	9589	7922	6631	5115	9696	9459	11443
Keokuk	386	428	470	510	3090	2815	2896	2529	3446	4131	5658	8005	6577	6162	4959	8051	8789	11094
Kossuth	1298	1199	1250	1272	11506	8507	8795	7258	10412	12546	16237	8864	7095	7036	5706	8684	10037	12765
Lee	2952	2549	2519	2720	31727	22454	19673	16408	27483	28064	36707	10748	8809	7810	6032	10782	11141	13495
Linn	17497	15459	13547	12438	187485	135154	105725	79708	165427	150820	178318	10715	8743	7804	6408	10701	11133	14337
Louisa	435	385	424	405	3399	2656	2650	2100	3251	3780	4698	7814	6899	6250	5185	8444	8915	11600
Lucas	488	496	535	541	4588	3591	4078	2887	4395	5817	6459	9402	7240	7622	5336	8861	10873	11939
Lyon	537	457	489	521	3762	2787	3032	2650	3411	4325	5928	7006	6098	6200	5086	7464	8845	11378
Madison	563	699	674	564	6308	6013	5279	3406	7360	7531	7620	11204	8602	7832	6039	10529	11174	13511
Mahaska	1476	1381	1381	1477	14190	11219	10278	8688	13732	14662	19436	9614	8124	7442	5882	9944	10617	13159
Marion	1860	1781	1593	1453	16543	13082	10166	7794	16012	14502	17436	8894	7345	6382	5364	8990	9104	12000
Marshall	2985	2862	2880	2874	31732	24635	22372	18059	30153	31914	40400	10630	8608	7768	6284	10536	11081	14057
Mills	527	553	574	530	4906	4024	3696	3115	4925	5272	6969	9309	7277	6439	5877	8906	9185	13149
Mitchell	471	537	487	525	3427	3712	3916	2329	4543	5586	5210	7276	6912	8041	4436	8460	11470	9924

Table 2. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Payroll Per Employee (unadjusted and adjusted to 1992 dollars) in Retail Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Employees				Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in \$1,000s)				Adjusted Pay Per Employee					
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Monona	585	541	597	622	5192	4077	4006	3481	4990	5715	7787	8875	7536	6710	5596	9224	9573	12519
Monroe	392	298	333	339	3863	2702	2274	2017	3307	3244	4512	9855	9067	6829	5950	11097	9742	13310
Montgomery	750	802	951	819	7111	6181	5830	4434	7565	8317	9919	9481	7707	6130	5414	9433	8746	12111
Muscatine	3069	2602	2552	2943	31219	22022	19223	18079	26955	27422	40445	10172	8463	7533	6143	10359	10745	13743
O'Brien	1123	1259	1077	1107	9528	8300	6617	5026	10159	9439	11244	8484	6593	6144	4540	8069	8764	10157
Osceola	279	259	317	375	2026	1966	2062	1732	2406	2942	3875	7262	7591	6505	4619	9290	9281	10333
Page	1549	1259	1285	1181	13352	9866	10007	6975	12076	14275	15604	8620	7836	7788	5906	9592	11109	13213
Palo Alto	597	505	508	666	5253	3927	3680	3259	4807	5250	7291	8799	7776	7244	4893	9519	10335	10947
Plymouth	1688	1479	1270	1443	14465	11448	8989	7634	14012	12823	17078	8569	7740	7078	5290	9474	10097	11835
Pocahontas	646	533	474	612	4567	3419	2659	2586	4185	3793	5785	7070	6415	5610	4225	7852	8002	9453
Polk	37257	32736	27381	27242	421929	297950	221811	171758	364688	316421	384246	11325	9102	8101	6305	11140	11556	14105
Pottawattamie	6715	6371	5272	5047	71864	56088	40559	29044	68651	57859	64975	10702	8804	7693	5755	10776	10975	12874
Poweshiek	1384	1188	1230	1298	12744	9328	8299	6364	11417	11839	14237	9208	7852	6747	4903	9610	9625	10968
Ringgold	193	212	239	257	2009	1737	1651	1271	2126	2355	2843	10409	8193	6908	4946	10028	9854	11062
Sac	622	653	584	715	5002	3742	4378	3322	4580	6245	7432	8042	5730	7497	4646	7014	10693	10394
Scott	15183	13676	12980	12186	173411	127377	106114	77946	155908	151375	174376	11421	9314	8175	6396	11400	11662	14310
Shelby	856	795	846	727	7455	5587	5672	3899	6838	8091	8723	8709	7028	6704	5363	8601	9564	11999
Sioux	2026	1460	1385	1561	15052	9199	8659	7001	11259	12352	15662	7429	6301	6252	4485	7712	8918	10033
Story	7590	6526	5803	5236	68849	48279	37121	27051	59093	52954	60517	9071	7398	6397	5166	9055	9125	11558
Tama	778	749	801	861	6642	5517	4953	4058	6753	7066	9078	8537	7366	6184	4713	9016	8821	10544
Taylor	191	272	326	273	1594	1812	1819	1225	2218	2595	2740	8346	6662	5580	4487	8154	7960	10037
Union	1156	983	919	885	11841	7703	6729	4917	9428	9599	11000	10243	7836	7322	5556	9591	10445	12429
Van Buren	187	184	215	242	1888	1377	1412	981	1685	2014	2195	10096	7484	6567	4054	9158	9367	9070
Wapello	2895	2379	2434	2513	30699	20851	19171	14835	25521	27348	33188	10604	8765	7876	5903	10728	11236	13207
Warren	1731	1251	1060	1018	17795	12320	7974	6090	15080	11375	13624	10280	9848	7523	5982	12054	10731	13383
Washington	1404	1182	1191	1247	12543	9643	8692	6772	11803	12399	15150	8934	8158	7298	5431	9986	10411	12149
Wayne	299	256	277	314	2300	1713	1844	1348	2097	2631	3016	7692	6691	6657	4293	8191	9498	9605
Webster	3560	3550	3800	3604	36420	30288	28264	23020	37072	40320	51499	10230	8532	7438	6387	10443	10611	14289
Winnebago	674	723	736	806	5379	4637	4537	3507	5676	6472	7846	7981	6414	6164	4351	7851	8793	9734
Winneshiek	1352	1238	1126	946	12266	8867	6846	4746	10853	9766	10617	9072	7162	6080	5017	8767	8673	11223
Woodbury	9688	8794	8026	8602	95329	75131	63357	49071	91960	90381	109779	9840	8543	7894	5705	10457	11261	12762
Worth	194	215	263	331	1470	1544	1817	1600	1890	2592	3579	7577	7181	6909	4834	8791	9856	10813
Wright	979	820	884	922	10265	5266	5427	4122	6446	7742	9221	10485	6422	6139	4471	7861	8758	10001
State of Iowa	226109	203517	190341	189093	2304395	1705175	1428532	1107386	2087118	2037849	2477374	10192	8379	7505	5856	10255	10706	13101

Table 3. Percent of Total Retail Sales and Percent of Total Population in Iowa Counties, 1977-1992.

County	1992		1987		1982		1977	
	Sales	Pop	Sales	Pop	Sales	Pop	Sales	Pop
Adair	0.16	0.30	0.19	0.31	0.27	0.32	0.30	0.32
Adams	0.06	0.17	0.09	0.19	0.10	0.19	0.11	0.20
Allamakee	0.37	0.50	0.39	0.51	0.43	0.51	0.38	0.54
Appanoose	0.40	0.49	0.41	0.51	0.43	0.52	0.47	0.53
Audubon	0.20	0.25	0.19	0.27	0.22	0.29	0.24	0.31
Benton	0.44	0.81	0.49	0.80	0.52	0.81	0.55	0.80
Black Hawk	5.39	4.43	5.03	4.47	5.35	4.74	5.64	4.63
Boone	0.72	0.90	0.69	0.91	0.69	0.90	0.72	0.91
Bremer	0.61	0.82	0.59	0.82	0.59	0.85	0.65	0.82
Buchanan	0.50	0.75	0.54	0.75	0.53	0.80	0.50	0.79
Buena Vista	0.71	0.72	0.71	0.73	0.78	0.72	0.79	0.72
Butler	0.23	0.56	0.22	0.58	0.26	0.60	0.29	0.61
Calhoun	0.25	0.41	0.26	0.42	0.31	0.46	0.40	0.47
Carroll	0.83	0.76	0.85	0.79	0.97	0.78	0.89	0.79
Cass	0.52	0.53	0.62	0.56	0.70	0.59	0.70	0.59
Cedar	0.38	0.63	0.47	0.63	0.50	0.64	0.49	0.64
Cerro Gordo	2.20	1.67	2.45	1.71	2.32	1.67	2.24	1.69
Cherokee	0.43	0.50	0.49	0.52	0.58	0.55	0.55	0.57
Chickasaw	0.29	0.47	0.28	0.50	0.32	0.53	0.39	0.53
Clarke	0.25	0.30	0.29	0.30	0.30	0.30	0.31	0.28
Clay	0.75	0.63	0.74	0.63	0.85	0.67	0.84	0.66
Clayton	0.43	0.67	0.42	0.70	0.47	0.72	0.44	0.75
Clinton	1.74	1.83	1.94	1.87	2.18	1.95	2.17	2.00
Crawford	0.48	0.59	0.42	0.64	0.48	0.65	0.59	0.66
Dallas	0.71	1.10	0.72	1.04	0.82	1.01	0.79	0.97
Davis	0.14	0.30	0.15	0.31	0.18	0.31	0.21	0.31
Decatur	0.11	0.29	0.14	0.31	0.21	0.33	0.17	0.34
Delaware	0.42	0.65	0.38	0.65	0.46	0.65	0.49	0.64
Des Moines	1.72	1.53	1.78	1.55	1.78	1.57	1.80	1.57
Dickinson	0.66	0.54	0.65	0.53	0.57	0.53	0.60	0.52
Dubuque	3.51	3.11	3.69	3.15	3.44	3.19	3.68	3.23
Emmet	0.29	0.41	0.36	0.42	0.42	0.46	0.46	0.48
Fayette	0.65	0.78	0.66	0.80	0.73	0.86	0.75	0.90
Floyd	0.43	0.60	0.48	0.63	0.59	0.66	0.62	0.68
Franklin	0.20	0.40	0.22	0.43	0.31	0.44	0.33	0.44
Fremont	0.09	0.29	0.15	0.31	0.23	0.32	0.14	0.33
Greene	0.23	0.36	0.30	0.38	0.31	0.41	0.28	0.42
Grundy	0.22	0.43	0.22	0.45	0.31	0.48	0.32	0.48
Guthrie	0.17	0.40	0.16	0.40	0.16	0.40	0.20	0.42
Hamilton	0.41	0.57	0.49	0.60	0.49	0.61	0.56	0.62
Hancock	0.21	0.44	0.21	0.47	0.22	0.47	0.29	0.48
Hardin	0.56	0.67	0.59	0.71	0.78	0.75	0.76	0.76
Harrison	0.57	0.52	0.45	0.55	0.46	0.56	0.53	0.58
Henry	0.57	0.70	0.57	0.69	0.58	0.65	0.57	0.64
Howard	0.22	0.35	0.21	0.37	0.26	0.38	0.27	0.39
Humboldt	0.27	0.38	0.29	0.40	0.34	0.41	0.35	0.43
Ida	0.22	0.30	0.24	0.30	0.23	0.30	0.21	0.31
Iowa	0.66	0.53	0.53	0.53	0.50	0.52	0.51	0.55
Jackson	0.57	0.71	0.54	0.75	0.51	0.76	0.51	0.76
Jasper	0.98	1.24	1.06	1.25	1.04	1.24	1.10	1.26



Table 4. Employees and Sales Per Establishment, Sales Per Employee, and Sales Per Payroll in Retail Trade in Iowa Counties, 1977-1992.

County	Employees Per Establishment				Sales Per Establishment				Sales Per Employee				Sales \$s Per Payroll \$			
	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977
Adair	8.2	6.6	6.8	6.9	596792	404286	403805	334907	73048	60860	59661	48407	11.32	9.55	10.49	10.33
Adams	6.2	5.8	5.1	5.1	379273	389583	322027	247683	61054	67105	63378	48128	8.29	8.52	8.62	9.87
Allamakee	6.7	6.2	5.9	5.5	607835	477831	414780	251420	91364	76651	70236	45338	9.81	10.33	10.23	9.12
Appanoose	7.9	6.9	6.1	5.9	732450	583648	481291	334947	92942	84997	78549	56749	9.82	10.09	9.37	9.39
Audubon	7.9	5.6	6.4	5.0	850522	526481	406909	258200	108077	93828	63943	51412	11.40	12.52	11.29	10.75
Benton	6.8	5.6	5.2	5.3	688346	463335	392518	296057	101651	82720	75733	56088	10.38	10.55	9.52	9.54
Black Hawk	14.5	12.0	11.5	11.7	1284249	891028	747743	594379	88587	74013	65127	50686	8.42	8.64	8.04	8.05
Boone	10.5	7.9	7.7	7.1	1018496	635158	497605	396613	96641	80307	65036	56011	8.96	9.57	9.14	9.72
Bremer	9.1	7.8	7.3	6.7	815020	554213	411318	346837	89694	70996	56336	51793	9.08	9.37	8.19	9.39
Buchanan	7.8	6.9	6.6	5.5	821779	657130	474613	307013	105645	94979	71374	55527	10.22	10.56	10.11	10.19
Buena Vista	10.3	8.2	9.0	8.1	839241	573888	540646	403797	81854	70142	59885	49612	8.79	8.94	8.84	9.54
Butler	4.5	4.0	4.2	4.0	415036	289137	257341	222560	91675	72439	60871	55863	10.75	11.03	9.72	10.76
Calhoun	6.0	4.4	5.4	4.7	626550	398639	366000	318875	104425	90346	68183	67846	12.06	12.12	10.98	12.09
Carroll	8.1	7.6	7.5	7.3	759986	641219	580515	401633	93868	84515	77754	55090	9.21	9.85	10.49	9.87
Cass	8.9	7.2	7.7	7.3	714132	569804	503203	354697	80529	78644	65420	48816	8.70	9.86	9.52	9.09
Cedar	8.0	7.0	6.3	6.4	683090	586825	484756	349881	85194	83534	77051	54899	8.92	11.44	11.36	10.50
Cerro Gordo	12.1	12.3	10.7	10.2	1066730	855370	694085	484306	88197	69629	64785	47378	8.63	8.54	8.53	8.08
Cherokee	8.7	7.5	8.1	7.4	771351	603738	555744	399160	88359	80763	69000	54243	9.14	9.38	9.38	9.48
Chickasaw	7.9	5.1	5.4	5.5	584806	390748	340474	286132	74045	75880	62990	51624	9.67	10.23	8.42	10.39
Clarke	10.5	7.1	7.1	6.4	838117	639681	499658	413958	80203	89894	70551	64881	8.20	9.21	9.27	11.51
Clay	10.2	9.0	8.6	8.8	896089	656047	522224	431699	88140	72704	60465	48961	8.15	8.04	8.23	8.17
Clayton	6.2	5.2	5.6	5.5	599000	437745	361943	281081	96461	84406	65027	51451	10.46	11.16	9.95	9.36
Clinton	10.5	10.0	9.6	9.3	987826	771185	664475	525548	94091	76976	68992	56653	9.45	9.15	8.96	8.98
Crawford	8.2	6.8	6.6	7.9	674559	441228	383045	355682	82165	64952	58208	44745	9.71	9.70	9.40	8.74
Dallas	9.6	7.0	6.7	6.9	926901	685849	547185	375935	96104	98332	81261	54167	9.05	10.42	11.01	9.43
Davis	7.8	5.9	5.7	5.5	620326	516956	446000	345542	79044	88117	78434	62537	9.32	10.93	10.24	10.97
Decatur	6.2	4.7	5.7	5.2	473979	357917	342635	235243	76817	75616	60083	45489	9.23	9.91	10.80	9.89
Delaware	8.9	6.0	5.9	5.4	731739	481773	449349	317705	82098	80521	76408	58346	8.66	9.35	10.01	10.23
Des Moines	11.9	11.3	10.2	10.4	1003503	782416	623352	499716	84386	69226	61376	47885	8.44	8.14	7.74	7.72
Dickinson	6.7	7.4	7.5	5.6	635078	548838	448234	313906	95285	73922	59916	56422	8.81	8.98	7.92	8.32
Dubuque	12.2	11.4	11.1	11.7	1055379	855672	706387	604472	86183	74797	63696	51741	8.34	8.30	7.95	8.16
Emmet	8.3	8.1	8.1	7.3	765173	597495	545188	406102	91821	74076	67446	55308	9.19	9.55	8.51	8.66
Fayette	8.0	6.4	7.0	6.7	678158	548516	448820	342201	84826	85107	63889	51049	9.12	10.02	9.27	9.69
Floyd	8.7	8.5	7.9	7.4	700803	563570	501166	414190	80280	66363	63522	56121	8.81	8.74	8.93	9.38
Franklin	7.1	6.2	5.9	6.0	567029	430013	409109	332115	80339	68981	68934	55545	8.68	9.78	9.31	10.98
Fremont	6.0	6.2	6.0	4.2	379213	405327	422507	225623	63427	65761	70947	53345	7.37	8.30	9.40	9.60
Greene	7.7	6.7	5.3	5.9	703970	579165	386133	287936	91641	86985	72771	48856	10.02	11.14	10.42	9.84
Grundy	5.8	6.5	7.1	5.7	522553	406614	376330	291519	89731	62498	53380	51474	9.93	9.48	9.10	10.74
Guthrie	5.9	4.8	5.1	5.6	541016	324600	272338	196074	92088	67438	53741	35079	9.19	9.51	9.86	9.05
Hamilton	9.6	8.5	7.4	7.1	764870	597452	426007	340331	79582	70222	57394	47622	9.05	9.63	9.00	9.20
Hancock	6.4	6.4	5.3	4.9	476416	387432	270788	281320	74257	60936	51258	56850	9.62	10.70	9.07	11.24
Hardin	7.7	6.2	6.7	5.6	727413	464438	454450	292249	94114	74997	67385	52202	9.57	9.91	10.15	10.09
Harrison	7.2	6.1	5.8	5.5	1026955	590852	455960	369456	143539	96380	78506	66905	13.78	10.59	10.83	10.42
Henry	11.1	9.0	7.5	7.5	867275	645955	560740	417124	77870	71832	75200	55302	8.19	8.79	9.93	9.25
Howard	6.8	4.9	4.6	4.6	602986	397785	346649	256620	88965	80992	75254	55306	11.37	10.98	9.95	11.68
Humboldt	7.8	6.5	6.1	6.0	654695	484461	392783	321790	83621	74597	64153	53462	8.81	9.19	9.47	10.18
Ida	7.9	6.4	5.6	5.6	719066	529463	420318	277863	90626	82116	75179	49233	10.08	10.75	10.40	11.83
Iowa	11.1	11.2	10.4	11.5	718815	528928	436121	332531	64898	47071	41820	28821	7.60	7.35	6.87	6.87
Jackson	8.5	6.6	5.8	6.2	773473	517829	373305	285858	91217	78822	63875	45791	10.40	10.24	9.06	8.73
Jasper	9.6	9.5	8.0	7.7	884041	731427	547796	418900	92288	77141	68694	54422	8.79	8.95	9.15	9.14

Table 4. Employees and Sales Per Establishment, Sales Per Employee, and Sales Per Payroll in Retail Trade in Iowa Counties, 1977-1992 (continued).

County	Employees Per Establishment				Sales Per Establishment				Sales Per Employee				Sales \$s Per Payroll \$			
	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977
Jefferson	9.2	8.1	6.9	7.0	876195	615759	565982	405371	94820	75830	81490	57982	8.89	9.44	9.54	9.51
Johnson	15.9	14.5	13.1	12.4	1233032	882993	697138	564430	77401	61062	53211	45679	7.71	7.81	7.31	7.63
Jones	7.9	6.1	5.5	5.1	772550	507188	387634	295931	97894	83796	69909	57592	10.21	10.58	10.54	11.26
Keokuk	5.4	6.0	5.5	5.2	615521	457070	324412	280646	113218	75822	58670	54478	14.14	11.53	9.52	10.99
Kossuth	9.3	7.7	7.1	7.1	797136	519858	471591	436061	85978	67204	66400	61364	9.70	9.47	9.44	10.75
Lee	10.1	8.4	8.2	8.1	1029201	716126	568136	463402	102153	84845	69466	57244	9.50	9.63	8.89	9.49
Linn	15.5	14.1	12.8	13.0	1389302	1034641	769698	645286	89407	73621	60339	49649	8.34	8.42	7.73	7.75
Louisa	7.0	5.2	5.7	5.6	624516	412649	412770	312722	89011	79314	72040	55595	11.39	11.50	11.53	10.72
Lucas	8.4	7.5	7.6	6.4	726931	461606	582471	337083	86398	61423	76211	52338	9.19	8.48	10.00	9.81
Lyon	6.2	5.7	5.3	5.4	430874	371238	312652	274711	69806	64987	58822	51146	9.96	10.66	9.49	10.06
Madison	6.3	7.8	7.3	6.2	671900	565800	461185	358747	107409	72850	62951	57883	9.59	8.47	8.04	9.58
Mahaska	9.6	8.3	8.4	9.0	822442	618437	521806	433720	85810	74786	62345	48158	8.93	9.21	8.38	8.19
Marion	9.7	8.8	8.3	7.2	713839	567680	436094	341075	73687	64705	52561	47182	8.28	8.81	8.24	8.80
Marshall	11.2	10.1	10.0	8.8	968655	747145	625958	462526	86644	73879	62813	52626	8.15	8.58	8.09	8.38
Mills	8.2	8.8	8.1	5.6	807156	647508	509704	350305	98023	73767	63047	62791	10.53	10.14	9.79	10.68
Mitchell	6.1	5.9	5.3	5.3	451221	426363	371022	256520	73766	72251	70090	48861	10.14	10.45	8.72	11.01
Monona	6.3	5.6	5.0	5.3	624817	432406	353193	286120	99330	76730	70402	53820	11.19	10.18	10.49	9.62
Monroe	6.4	5.4	5.4	5.3	664934	542327	387403	327453	103472	100094	72129	61820	10.50	11.04	10.56	10.39
Montgomery	9.0	8.4	8.2	7.1	907289	592375	472181	340310	100407	70908	57595	48200	10.59	9.20	9.40	8.90
Muscatine	11.2	9.5	9.0	10.1	1033542	721418	620425	555474	92611	76245	69287	54925	9.10	9.01	9.20	8.94
O'Brien	7.7	8.5	6.4	6.4	672274	566020	424982	317316	87402	66538	66292	49876	10.30	10.09	10.79	10.99
Osceola	5.9	4.8	5.0	5.4	414723	345148	303968	233057	69864	71961	60410	43504	9.62	9.48	9.29	9.42
Page	10.3	7.4	7.6	6.7	811013	547509	477491	374188	78536	74364	62798	55764	9.11	9.49	8.06	9.44
Palo Alto	6.9	5.3	5.0	5.8	570663	410126	392376	289298	82206	77152	78012	49520	9.34	9.92	10.77	10.12
Plymouth	10.0	8.0	7.2	7.4	811905	600576	523108	398168	80806	74717	72494	54082	9.43	9.65	10.24	10.22
Pocahontas	8.6	5.8	5.5	5.7	642227	460326	316209	290168	74562	79456	57371	50732	10.55	12.39	10.23	12.01
Polk	15.7	14.2	13.1	13.5	1433092	1076703	861254	665018	91316	75582	65708	49092	8.06	8.30	8.11	7.79
Pottawattamie	12.9	11.7	10.6	10.6	1281553	939040	822020	528274	99051	80329	77649	49719	9.26	9.12	10.09	8.64
Poweshiek	9.9	8.3	8.6	8.7	867557	632181	623105	399644	87759	76628	72442	45876	9.53	9.76	10.74	9.36
Ringgold	6.2	6.4	6.1	5.5	779258	596061	406436	272085	125166	92783	66322	49759	12.02	11.32	9.60	10.06
Sac	6.2	6.3	4.7	4.8	499630	393221	322878	229284	80326	62626	68003	47460	9.99	10.93	9.07	10.21
Scott	15.0	12.9	12.8	12.9	1403872	986962	828619	638576	93758	76281	64732	49677	8.21	8.19	7.92	7.77
Shelby	8.2	7.4	7.8	6.2	657676	481444	458339	283897	80673	65404	59053	45689	9.26	9.31	8.81	8.52
Sioux	9.2	7.0	6.3	6.4	703836	473713	429269	322885	76428	67812	67877	50263	10.29	10.76	10.86	11.21
Story	15.4	13.4	11.5	11.0	1101874	838624	634958	461882	71571	62582	55257	41901	7.89	8.46	8.64	8.11
Tama	6.9	6.2	6.4	5.5	534735	433711	397524	251314	77667	70065	62532	45534	9.10	9.51	10.11	9.66
Taylor	4.1	4.6	5.4	4.2	345574	261525	276067	174492	85037	56728	50810	41546	10.19	8.52	9.11	9.26
Union	12.3	9.2	8.1	6.8	1134457	657262	549035	350359	92248	71543	68107	51861	9.01	9.13	9.30	9.33
Van Buren	4.5	3.5	4.2	3.7	450619	235077	239314	176323	101209	66435	56767	47360	10.02	8.88	8.64	11.68
Wapello	11.7	10.0	10.0	9.1	1075547	784406	723370	487135	91765	78803	72218	53308	8.65	8.99	9.17	9.03
Warren	11.8	9.0	7.6	7.3	1290748	1018058	613929	484403	109613	113118	81085	66141	10.66	11.49	10.78	11.06
Washington	8.8	7.7	7.7	7.0	698213	567981	480597	350418	79568	74001	62143	49739	8.91	9.07	8.51	9.16
Wayne	5.9	5.3	4.7	4.6	376118	397083	334102	199551	64154	74453	71162	43850	8.34	11.13	10.69	10.21
Webster	11.8	10.6	10.8	9.6	1039033	765206	665480	529644	88143	72210	61644	54963	8.62	8.46	8.29	8.60
Winnebago	8.0	6.9	6.1	6.2	666940	474305	387760	267137	83120	68882	63749	43418	10.42	10.74	10.34	9.98
Winneshiek	8.3	7.2	6.3	5.6	713902	508326	378150	294161	86070	70624	60450	52240	9.49	9.86	9.94	10.41
Woodbury	14.1	12.5	11.7	11.8	1200183	928310	763184	534325	85232	73999	65041	45283	8.66	8.66	8.24	7.94
Worth	4.2	4.7	4.8	5.3	363326	335174	344618	254698	86149	71712	72068	48477	11.37	9.99	10.43	10.03
Wright	8.8	5.9	6.1	6.2	625000	396014	366507	286466	70863	66646	60532	45984	6.76	10.38	9.86	10.29
State of Iowa	11.5	10.0	9.3	9.0	1011544	742534	599277	451676	88275	74105	64722	50350	8.66	8.84	8.62	8.60

Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992.

County	Building Materials/Garden Supplies Stores						General Merchandise Stores					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Adair	5	9	11	1724	2138	2113	2	2	3	0*	0	0
Adams	3	3	4	0	975	1136	1	1	1	0	0	0
Allamakee	9	11	12	6507	5421	4827	4	5	5	3531	2909	2752
Appanoose	6	8	10	3522	4105	3520	5	4	7	0	6229	5762
Audubon	6	5	5	1919	3036	1247	3	4	3	0	0	0
Benton	12	15	23	5446	4004	6208	4	3	5	4744	0	972
Black Hawk	36	43	48	85082	38725	29801	14	18	19	167517	124254	92205
Boone	11	12	16	10451	6272	4654	5	3	5	0	5233	4946
Bremer	12	15	21	7156	5789	6774	3	4	7	0	9036	3853
Buchanan	12	12	14	13476	6687	6029	6	3	4	14023	0	0
Buena Vista	9	12	12	7999	10242	7385	8	9	8	24543	11481	8065
Butler	17	16	16	5693	3519	4941	4	2	3	0	0	0
Calhoun	12	11	14	4690	2290	3089	3	2	2	0	0	0
Carroll	18	16	16	13058	8922	8884	7	6	6	22934	13458	8728
Cass	14	13	16	7261	5634	6837	5	7	9	10879	9694	7193
Cedar	10	10	11	5487	3842	4599	4	3	6	0	0	2059
Cerro Gordo	22	25	33	27843	18906	17113	16	11	10	93898	70695	36950
Cherokee	7	7	10	6815	4108	4207	5	3	3	8583	7475	4522
Chickasaw	7	6	10	3714	2154	3317	4	5	7	2104	1563	1871
Clarke	2	3	6	0	2164	1664	2	2	3	0	0	0
Clay	11	12	19	6658	5165	5650	4	5	5	19584	17289	9571
Clayton	18	17	19	11695	9032	9378	4	3	3	0	0	660
Clinton	13	19	26	8351	8037	10258	9	9	9	48581	32084	27287
Crawford	8	9	11	2812	4215	4485	5	3	2	17557	0	0
Dallas	8	8	19	7430	5431	4892	6	7	9	0	0	9290
Davis	4	5	5	1507	1697	1743	2	1	1	0	0	0
Decatur	3	4	6	1820	1221	1986	1	2	5	0	0	886
Delaware	8	12	11	9333	6090	7621	5	4	4	14679	5607	0
Des Moines	18	23	23	16793	16974	12187	12	6	8	75929	54112	34731
Dickinson	10	12	8	11091	9134	9552	5	6	6	0	4842	3488
Dubuque	34	32	28	51838	28562	21649	13	16	15	107777	109051	71652
Emmet	6	8	13	4510	3048	5863	2	3	3	0	0	3952
Fayette	14	12	16	6945	4049	8305	7	5	7	15887	8648	7021
Floyd	13	10	12	6212	5132	4806	5	8	7	0	9630	7318
Franklin	2	4	7	0	0	2550	2	1	2	0	0	0
Fremont	3	3	8	0	609	2997	1	1	3	0	0	88
Greene	6	9	13	1678	1599	3966	3	2	4	4131	0	0
Grundy	5	5	6	3480	2277	2058	0	0	0	0	0	0
Guthrie	8	7	8	3231	1681	1605	1	7	8	0	746	1284
Hamilton	8	12	14	3722	7879	3316	2	2	3	0	0	0
Hancock	9	9	11	3550	2735	2775	4	3	4	1262	335	432
Hardin	16	14	21	10454	7385	11251	7	6	7	0	0	5025
Harrison	10	14	16	4256	3737	3874	2	1	4	0	0	935
Henry	10	12	14	6202	5955	5153	2	5	7	0	0	5456
Howard	3	6	11	0	4049	4661	5	7	5	2228	1913	1296
Humboldt	4	7	10	1576	1911	2525	2	2	2	0	0	0
Ida	5	5	8	2217	2940	5606	4	4	4	0	0	1485
Iowa	8	7	6	5701	2221	2771	1	3	5	0	0	775
Jackson	6	8	14	3413	3104	6222	5	5	4	15230	0	4193
Jasper	22	21	21	15968	12344	11599	5	7	10	0	16188	7441

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Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Building Materials/Garden Supplies Stores						General Merchandise Stores					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Jefferson	8	10	12	6024	4969	3374	2	4	5	0	13200	4511
Johnson	33	28	24	52090	29109	24116	12	12	13	110106	68730	42364
Jones	8	8	10	8300	4627	3087	4	7	6	0	10483	3599
Keokuk	6	7	9	2320	1381	2997	2	3	2	0	0	0
Kossuth	11	9	16	6612	4880	4840	3	4	6	0	0	6478
Lee	12	18	26	13005	10155	11790	10	10	12	43553	27128	20256
Linn	60	56	57	123234	68143	51137	20	20	19	264026	185798	142324
Louisa	2	2	5	0	0	2126	1	3	3	0	0	499
Lucas	2	2	6	0	0	2244	5	1	1	4794	0	0
Lyon	9	11	13	4415	4058	4721	3	1	1	3405	0	0
Madison	10	11	13	11301	7541	6661	2	2	3	0	0	1185
Mahaska	12	14	16	7155	4378	4892	6	6	5	0	12655	7510
Marion	15	16	16	7645	8600	4357	8	6	10	16041	13067	6372
Marshall	15	18	22	19784	12152	13838	6	10	10	44496	33925	21085
Mills	3	2	2	0	0	0	2	2	2	0	0	0
Mitchell	9	9	12	5699	5009	5954	2	3	4	0	653	636
Monona	5	7	10	2294	2056	2186	4	2	1	3450	0	0
Monroe	5	5	4	0	1675	2058	2	1	2	0	0	0
Montgomery	6	7	12	2592	1646	3124	4	5	6	0	8620	6990
Muscatine	12	18	17	10992	9311	12439	5	5	7	36010	25607	11813
O'Brien	13	11	18	7239	4851	5381	2	2	7	0	0	0
Osceola	6	5	8	2321	1142	1723	1	2	2	0	0	0
Page	13	18	17	8155	11575	7040	9	9	9	20453	13133	10175
Palo Alto	10	11	10	8706	6405	5093	3	4	1	2309	1305	0
Plymouth	10	15	18	7272	7933	6142	5	6	6	17213	7959	5757
Pocahontas	6	3	8	2519	895	3971	3	2	3	0	0	0
Polk	93	101	102	245097	129110	83635	53	48	52	524945	365070	0
Pottawattamie	19	26	25	24427	21166	16682	11	11	10	53670	51915	34421
Poweshiek	12	14	13	6500	5685	4732	5	5	7	0	0	4491
Ringgold	1	1	2	0	0	0	1	1	1	0	0	0
Sac	13	9	14	6615	5006	7221	1	4	4	0	0	720
Scott	43	43	41	69684	45524	38383	22	17	20	253982	146382	126487
Shelby	10	11	14	3719	3654	3356	5	4	4	8310	5081	5522
Sioux	17	17	22	8307	7511	5804	11	8	8	15063	3281	2473
Story	25	24	28	24857	13729	12571	12	11	13	77671	61319	39072
Tama	8	13	17	9116	5717	4868	5	4	4	4566	0	0
Taylor	5	3	5	1350	0	1073	1	2	4	0	0	0
Union	8	9	10	3976	5555	4705	3	3	5	0	0	4784
Van Buren	6	6	9	2466	1142	2181	1	2	2	0	0	0
Wapello	19	14	16	20407	13281	11796	7	4	5	50960	26317	18911
Warren	10	8	13	3923	2462	3501	4	4	4	0	0	0
Washington	15	13	14	8095	4861	5013	4	4	7	0	6534	6413
Wayne	4	6	8	1308	2778	2091	3	2	2	751	0	0
Webster	19	20	28	20573	17904	18270	8	11	11	68573	57851	37347
Winnebago	5	10	15	2419	2493	3151	3	5	5	0	3729	2956
Winneshiek	12	13	14	7860	6233	4641	6	5	7	0	0	4148
Woodbury	39	35	43	47327	54055	34889	13	15	22	0	0	0
Worth	6	3	6	1836	547	3563	0	0	0	0	0	0
Wright	6	9	14	3979	3499	4785	4	7	5	3098	2172	1487
State of Iowa	1219	1307	1566	1291963	876576	783555	540	540	620	2796215	1933804	1361896



Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Food Stores						Automotive Dealers					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Adair	6	9	10	7266	8683	9537	3	6	6	0*	4028	4142
Adams	3	4	3	0	0	0	3	4	4	0	3095	1393
Allamakee	12	11	14	21395	17801	16059	11	11	10	18206	15159	12929
Appanoose	15	12	13	27783	21062	16336	7	10	12	10249	11803	7491
Audubon	6	7	7	7798	5739	6586	2	3	4	0	0	6719
Benton	11	17	16	19717	16379	15209	15	14	16	27840	19659	17147
Black Hawk	86	94	91	189493	137863	131989	61	61	60	264793	196382	128994
Boone	12	14	18	34042	28318	22504	10	11	12	34560	27454	18078
Bremer	12	12	14	29027	20589	22562	14	12	16	30506	19962	12440
Buchanan	8	12	12	18800	15695	18389	12	14	12	25797	22581	14356
Buena Vista	13	14	12	31558	24524	21983	12	13	15	29018	19948	20576
Butler	17	15	24	10145	6230	9414	8	8	8	9955	6657	6233
Calhoun	10	13	18	11481	8380	11640	10	7	9	22564	16147	8169
Carroll	21	21	26	36868	31824	19503	18	11	16	38716	31819	26863
Cass	9	13	13	21880	16663	20412	11	13	16	18777	22698	14231
Cedar	14	17	15	17070	19135	15758	13	13	13	25601	20181	13299
Cerro Gordo	24	34	29	84295	72586	68168	34	34	27	94200	68666	47218
Cherokee	11	12	12	22498	17105	20334	8	10	12	20709	20762	17513
Chickasaw	14	17	14	14625	13141	10332	5	5	9	15700	10633	9350
Clarke	2	4	6	0	0	11357	7	7	6	6886	8145	5215
Clay	12	13	14	29269	22963	21966	11	10	10	39926	26180	22247
Clayton	15	22	19	18305	11598	14192	11	11	13	31504	25060	15424
Clinton	32	37	41	75529	67388	66366	28	27	35	90189	81236	63098
Crawford	10	13	17	22618	13298	15601	14	10	9	16091	12050	8564
Dallas	21	29	28	35622	30006	31504	14	17	18	45528	32929	25328
Davis	5	3	3	0	0	0	5	5	4	7173	8590	4937
Decatur	4	9	10	7616	6615	8857	1	3	3	0	0	0
Delaware	18	15	16	19972	12995	15536	13	11	7	19438	15227	10586
Des Moines	40	36	42	73454	57473	53372	20	20	25	59372	41798	30882
Dickinson	16	17	9	25174	20216	13692	21	14	10	28945	32114	12160
Dubuque	52	66	54	135970	107522	90125	42	44	46	135364	112642	75707
Emmet	9	11	8	17305	13936	14020	4	7	6	13354	15137	11627
Fayette	19	24	24	29130	26432	22285	12	12	18	29530	27628	22019
Floyd	8	12	15	25100	18594	20337	9	11	9	13147	14556	12404
Franklin	9	10	15	7309	6631	10482	4	5	5	5637	5127	7463
Fremont	5	10	7	5498	13634	12086	2	2	3	0	0	0
Greene	9	10	10	14269	10371	8938	6	8	6	15719	21119	10406
Grundy	14	14	16	11689	10052	11995	6	9	10	10312	8351	7759
Guthrie	8	7	11	7544	4692	6583	6	4	5	8004	3689	3328
Hamilton	13	14	15	19816	18433	18323	9	10	10	17385	13430	6464
Hancock	8	12	15	9039	8255	8357	6	5	8	0	7738	4975
Hardin	16	17	23	31352	24718	24677	15	21	23	27240	24234	25519
Harrison	13	16	17	13688	7368	10687	7	7	10	0	32947	22656
Henry	15	16	11	26689	20992	17885	14	16	15	30478	22457	18334
Howard	7	10	12	11787	10655	10112	3	3	6	0	0	5051
Humboldt	8	9	8	22284	14385	13344	8	7	11	7522	8025	9043
Ida	8	7	8	9277	8472	8107	7	9	8	11330	9924	6063
Iowa	17	20	18	17990	18557	15032	8	10	10	11470	9313	6922
Jackson	13	21	19	24180	23502	20495	14	11	12	35269	22855	10044
Jasper	20	25	25	41308	37635	32087	14	19	22	43354	35662	25644

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Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Food Stores						Automotive Dealers					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Jefferson	12	18	11	25433	20582	16810	7	13	8	24379	18691	14987
Johnson	54	65	46	154914	122025	0	33	28	31	136135	89214	54774
Jones	9	14	17	18714	14937	14706	13	16	13	25752	15146	13151
Keokuk	14	14	13	7681	6496	3515	11	10	13	19082	10829	8451
Kossuth	16	18	15	24284	18535	18182	14	12	13	38191	22309	21517
Lee	21	33	29	61565	59223	51770	27	23	23	91949	57981	29240
Linn	81	110	107	277632	219733	183016	73	71	54	314676	242583	135812
Louisa	7	7	11	9208	6713	11471	7	8	7	13696	9373	7877
Lucas	5	6	7	0	0	0	4	5	5	0	3901	4855
Lyon	12	8	16	8649	5780	7956	4	3	3	0	7096	0
Madison	6	8	9	0	11689	11575	8	9	9	12058	10256	9284
Mahaska	13	17	15	35710	29258	23554	7	13	15	9417	13949	12401
Marion	21	22	19	37352	27714	21887	20	20	16	30552	23271	17981
Marshall	27	30	28	58638	50530	45894	15	17	26	40081	37891	33987
Mills	8	11	9	13115	11414	10107	6	6	7	14729	10846	10210
Mitchell	5	11	12	4181	8811	5739	5	4	5	8912	10083	6083
Monona	13	13	18	12462	8039	9486	8	7	7	18363	13732	13509
Monroe	5	6	5	9383	9441	0	7	7	8	0	10172	5015
Montgomery	7	7	8	19195	15263	13495	8	8	11	21743	11526	10291
Muscatine	22	24	28	63755	46764	49481	22	23	21	65421	44894	24617
O'Brien	15	19	17	20822	19361	14586	14	13	15	32141	21402	16983
Osceola	8	9	8	4625	4063	4724	2	4	2	0	4335	0
Page	9	8	9	25380	13326	10357	15	20	15	24387	22526	11690
Palo Alto	11	11	10	14057	10774	8115	5	7	6	10580	9039	10279
Plymouth	17	15	22	30847	24132	25769	13	12	11	34949	32278	19565
Pocahontas	23	33	10	26825	27860	7214	5	5	6	7879	4662	5703
Polk	195	221	215	655148	499216	409232	123	116	117	660037	492909	307206
Pottawattamie	42	53	56	116941	72991	79928	46	40	36	216356	178368	94386
Poweshiek	11	16	14	27660	21911	20218	16	15	11	29929	23608	17100
Ringgold	3	4	4	0	4341	4396	3	2	4	0	0	4893
Sac	9	13	13	11409	11854	7517	7	9	10	13310	9383	7733
Scott	89	105	109	222650	202342	178551	51	51	53	292549	217690	143570
Shelby	10	9	10	19663	14361	13481	9	7	8	13714	9134	10538
Sioux	29	30	30	31848	23097	21066	19	20	19	43421	30496	28987
Story	44	56	60	109249	88419	80793	28	33	35	112445	90073	62328
Tama	18	14	20	18221	12969	15856	7	9	10	4917	10063	7437
Taylor	5	10	9	5952	5488	5975	3	3	2	0	0	0
Union	7	8	8	36243	19658	17952	12	16	13	18786	12670	11802
Van Buren	9	11	8	6535	4624	3359	1	4	3	0	641	0
Wapello	18	23	22	61807	46711	49463	20	22	28	36944	26241	28233
Warren	14	17	15	36796	37294	25579	13	13	12	85548	61815	27196
Washington	19	20	15	32387	23811	18500	11	9	9	17986	20403	15745
Wayne	8	8	10	7513	7375	5439	2	3	4	0	0	2353
Webster	22	30	27	56755	45783	44431	19	23	29	60910	45346	46713
Winnebago	9	13	16	15238	11640	11136	8	8	10	13942	13128	14100
Winneshiek	13	17	16	21936	20491	16567	16	13	14	25296	12437	10517
Woodbury	59	63	67	152312	138398	121612	33	31	37	155684	115061	90529
Worth	5	9	9	4106	4439	6059	6	4	5	4435	2794	2571
Wright	11	15	15	20573	16308	17732	11	12	17	15796	14239	11682
State of Iowa	1840	2179	2164	4083724	3287703	2936662	1415	1442	1496	4416847	3388421	2335967

Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Gasoline Service Stations						Apparel and Accessory Stores					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Adair	8	9	10	9016	5393	9465	3	4	4	544	495	194
Adams	3	3	5	2953	1236	0*	1	1	3	0	0	0
Allamakee	10	10	10	7167	5412	5083	8	10	12	1676	1877	2199
Appanoose	8	6	8	6185	4999	5555	11	12	10	3260	3935	2975
Audubon	4	5	7	3070	3049	3842	3	3	5	0	500	745
Benton	18	22	22	12105	14566	9172	7	13	13	2342	2111	2453
Black Hawk	62	68	84	75628	46328	59303	76	79	83	32419	26396	37218
Boone	18	22	18	14383	12185	9475	11	17	16	3077	4403	4157
Bremer	21	22	22	16724	14218	7639	14	18	21	2726	3426	4427
Buchanan	19	21	17	14001	14485	7894	1	5	8	0	591	1706
Buena Vista	16	21	18	11089	9665	8293	18	15	19	6423	5975	5483
Butler	13	16	13	9847	9141	2631	2	5	6	0	597	536
Calhoun	7	10	9	3752	3422	4498	2	3	5	0	943	1385
Carroll	20	21	22	14961	15325	20166	24	22	19	11170	6348	6723
Cass	17	19	23	13244	11937	14889	11	15	17	4156	4384	5132
Cedar	12	15	14	7897	12501	16328	6	8	9	1065	1217	974
Cerro Gordo	34	44	41	38620	34415	32639	41	46	52	14866	17115	18924
Cherokee	10	14	17	8174	8150	7918	15	16	18	3497	2282	4770
Chickasaw	8	12	14	6876	5185	5287	6	5	6	814	556	1391
Clarke	8	7	13	9870	9329	9065	3	4	6	480	291	578
Clay	10	12	17	8938	4985	9789	20	24	35	11798	11431	8109
Clayton	16	19	26	8154	6412	6585	8	4	6	1586	1131	1214
Clinton	31	42	38	29252	25428	22844	23	21	26	11772	11586	13577
Crawford	15	17	18	14569	9277	9310	16	14	18	3573	3759	4708
Dallas	18	19	25	17915	12137	12219	7	11	15	3010	2801	3238
Davis	7	6	6	4350	3529	3332	3	5	6	0	207	536
Decatur	7	10	7	5490	4147	4885	1	2	5	0	0	969
Delaware	9	9	12	5966	3937	5766	9	12	17	1838	2061	3113
Des Moines	23	29	26	22694	17731	19215	30	33	43	13583	12883	14355
Dickinson	14	14	17	11165	7502	7287	15	14	17	4617	4251	6217
Dubuque	55	43	55	45157	27402	31165	57	57	61	25650	20899	23938
Emmet	9	11	9	5202	6302	4514	4	8	14	1248	1875	3724
Fayette	19	22	23	10780	8560	9321	13	18	24	3488	4359	4909
Floyd	17	19	20	12042	8498	7990	13	12	20	3412	2581	4795
Franklin	12	12	12	10540	8543	6547	1	4	8	0	636	1449
Fremont	8	12	9	4788	3300	4540	5	3	3	968	0	525
Greene	3	8	9	2556	2912	2940	6	8	13	1050	1218	2479
Grundy	10	9	11	6080	4448	3958	4	5	9	691	566	1609
Guthrie	6	11	8	8087	7378	2475	3	5	4	429	432	387
Hamilton	11	11	17	15109	10098	11185	7	7	13	4126	5890	3876
Hancock	9	8	7	5072	2601	1515	4	5	7	0	2459	1903
Hardin	17	23	22	9475	8881	8989	8	21	23	1482	3043	4110
Harrison	18	19	18	12545	12625	6961	4	4	6	462	205	1255
Henry	10	11	17	9898	6748	9001	6	11	10	1647	2173	2599
Howard	12	6	7	9959	1633	1182	4	6	7	740	930	1171
Humboldt	7	8	11	2502	2183	3538	9	9	10	1980	1976	2282
Ida	8	7	5	6496	4199	1770	3	4	4	927	635	994
Iowa	14	17	15	22933	16220	7348	33	10	9	26384	3225	3232
Jackson	15	18	19	12209	9843	5659	8	15	18	1074	2814	2881
Jasper	29	25	22	27455	20388	18941	13	17	22	4846	6458	6638

\*Zeros in sales data indicate information suppressed to protect confidentiality or no stores in this category.

Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Gasoline Service Stations						Apparel and Accessory Stores					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Jefferson	10	7	7	7933	6335	5122	12	13	14	3712	4607	3530
Johnson	42	40	50	49504	31994	35260	60	72	62	25357	22826	20385
Jones	17	21	21	10928	10377	8304	5	3	12	687	263	1369
Keokuk	10	5	6	6859	2601	4188	5	4	5	521	496	581
Kossuth	16	19	15	8979	7186	7075	8	13	17	2718	3086	3521
Lee	24	25	29	22759	15824	15806	26	25	26	8568	4807	5192
Linn	75	92	93	103722	87123	60093	111	129	123	55359	46939	38922
Louisa	7	9	7	7795	7207	3214	3	6	3	447	309	0
Lucas	6	6	5	5727	2722	8784	5	6	11	1108	1599	2592
Lyon	11	11	9	5195	3933	2284	4	5	6	1429	1591	1744
Madison	11	11	7	8747	7519	3057	4	6	11	1383	1620	1641
Mahaska	13	11	12	11487	8218	10704	16	20	23	8019	7924	5969
Marion	15	21	17	10843	15090	8611	14	22	20	5054	5026	4806
Marshall	26	31	24	25210	20008	13300	26	30	36	9584	8545	8706
Mills	9	8	8	9826	6298	5328	2	2	4	0	0	715
Mitchell	10	12	12	5148	4024	5396	6	8	8	853	1076	954
Monona	9	11	13	9257	5150	4978	4	8	13	503	673	888
Monroe	6	5	7	4458	2169	2688	4	5	7	327	517	938
Montgomery	11	14	17	7341	7078	7287	7	8	14	2053	1291	2886
Muscatine	27	28	28	38497	15690	24371	21	20	29	9707	9076	9428
O'Brien	16	16	12	11331	11631	9421	14	12	18	4511	4525	4650
Osceola	7	6	7	3479	2140	3409	1	4	7	0	848	893
Page	12	16	16	7715	8307	9814	17	21	27	4098	5348	6418
Palo Alto	7	10	13	3607	3931	6554	1	6	7	0	714	1169
Plymouth	20	20	24	12254	11861	14271	16	16	14	5040	4489	3961
Pocahontas	4	4	9	3925	1489	2265	3	5	6	525	643	590
Polk	160	175	167	243721	169340	168734	262	273	250	158626	127019	96966
Pottawattamie	62	69	81	92600	64922	94673	43	49	33	29694	14052	11346
Poweshiek	19	18	14	19446	12643	22533	10	14	10	1950	2649	2322
Ringgold	5	7	6	3390	3782	2129	1	3	2	0	0	0
Sac	15	14	18	9990	6154	7722	5	5	10	943	875	1009
Scott	82	93	98	125860	109543	106888	105	116	104	60067	47965	34939
Shelby	10	13	9	8007	7974	6159	6	10	8	1848	1840	1373
Sioux	17	20	19	20264	13326	15579	18	18	19	3178	2769	3088
Story	38	43	42	43013	36951	28390	47	47	54	30200	17819	15868
Tama	9	13	10	9780	7562	9208	4	7	8	554	675	1240
Taylor	7	9	9	3913	3668	2977	7	8	6	824	924	940
Union	10	11	14	12009	6696	9816	6	7	16	1932	1913	3900
Van Buren	7	6	7	3457	2076	1365	0	0	0	0	0	0
Wapello	26	33	27	30803	27948	22443	24	20	21	12429	8126	8119
Warren	22	19	18	19810	17651	10406	7	8	10	1786	3353	2336
Washington	13	17	16	8554	6402	4776	11	14	15	3089	4521	4684
Wayne	9	9	11	4248	4693	6018	2	3	2	0	484	0
Webster	27	33	24	25088	22591	17583	31	37	40	12600	11454	11821
Winnebago	9	13	11	6811	7748	6376	3	6	7	432	841	1127
Winneshiek	14	14	16	10915	8900	7813	17	20	17	6510	6042	4774
Woodbury	57	71	70	70051	54636	47399	77	78	86	0	0	31660
Worth	4	4	3	2399	3688	0	1	2	3	0	0	0
Wright	11	13	11	6597	7109	5683	6	15	16	1255	1096	1708
State of Iowa	1809	2020	2064	1836192	1420696	1377854	1688	1899	2065	748137	624601	606336

Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Furniture and Homefurnishings Stores						Eating and Drinking Places					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Adair	1	1	3	0*	0	340	18	17	22	3360	3950	3579
Adams	1	2	2	0	0	0	11	9	7	1321	790	527
Allamakee	7	6	6	1248	1047	716	41	35	37	5662	4154	3660
Appanoose	5	5	5	1941	1586	1242	31	27	22	5103	3372	4090
Audubon	2	4	3	0	1758	1394	14	15	19	2059	1191	1747
Benton	7	7	8	2931	2743	2475	37	46	43	5692	5671	5139
Black Hawk	53	56	62	40738	26963	28510	257	241	243	98810	70393	63271
Boone	9	10	12	8318	5851	4809	38	44	41	10403	8103	7554
Bremer	13	12	11	3273	2522	2139	43	43	41	10096	7580	6102
Buchanan	7	4	4	1159	671	579	38	37	44	7267	4798	5434
Buena Vista	11	12	10	4751	3563	3455	47	48	49	12567	9552	8532
Butler	5	5	5	1652	593	1167	28	28	30	3038	2184	1875
Calhoun	5	9	8	1019	1506	2030	20	24	25	2561	1871	2251
Carroll	13	10	10	5202	4448	2377	63	51	57	11518	7632	8868
Cass	9	7	9	2571	2584	1392	37	41	35	8629	5975	5305
Cedar	8	8	7	1687	1548	1552	33	31	31	5751	3601	3552
Cerro Gordo	28	29	29	13615	12973	9442	130	114	110	41171	32578	23600
Cherokee	7	5	7	2124	1722	1966	31	31	30	6559	4749	4044
Chickasaw	6	5	5	2719	1640	986	29	32	29	6123	3864	3165
Clarke	0	2	3	0	0	160	23	22	16	6127	2963	2835
Clay	20	18	19	10620	5569	3860	45	37	41	9727	6495	8518
Clayton	6	3	7	1430	0	1737	45	36	42	5762	3956	3852
Clinton	28	35	38	14785	13149	13411	121	109	119	29779	24337	23452
Crawford	5	2	5	1777	0	1336	48	46	51	8828	7068	6413
Dallas	5	11	9	0	3934	2163	47	25	32	13072	4665	4767
Davis	2	2	2	0	0	0	11	10	14	2002	1107	1354
Decatur	3	5	3	988	734	0	14	14	16	1761	1401	1658
Delaware	3	5	4	0	1109	931	35	32	34	6013	5700	4084
Des Moines	22	33	32	13477	12518	11353	95	96	88	32095	28637	19492
Dickinson	10	8	8	2530	1694	1752	74	61	57	16612	10613	10041
Dubuque	53	46	48	34710	26540	21215	193	187	161	68209	54470	41603
Emmet	3	3	5	1205	1185	1285	23	22	24	4730	4110	3475
Fayette	11	9	12	4498	3579	3290	59	44	42	10662	5393	5857
Floyd	10	5	9	4039	1783	1800	28	33	32	6965	6055	5357
Franklin	4	7	7	541	1121	1038	18	19	21	3312	2461	1950
Fremont	2	1	3	0	0	0	14	15	21	2210	0	1742
Greene	1	2	3	0	0	0	18	16	24	2880	1990	2984
Grundy	4	3	4	3125	0	0	31	24	27	4022	3269	3755
Guthrie	3	4	5	0	1193	1306	18	17	15	3235	2108	1622
Hamilton	5	5	8	1459	0	1536	29	34	39	6050	4988	5775
Hancock	4	5	7	2314	1773	1521	30	22	21	3358	2619	2207
Hardin	8	9	12	1281	1165	2205	37	40	39	6764	5650	5027
Harrison	1	3	5	0	0	1672	36	31	28	6519	4274	4274
Henry	8	4	6	3268	2504	2296	42	34	24	13869	7129	4620
Howard	3	3	5	0	0	1009	26	25	26	4106	2375	1768
Humboldt	4	5	6	1301	1041	1389	22	22	32	5128	3580	3630
Ida	1	1	2	0	0	0	16	18	18	2582	2149	1518
Iowa	16	8	7	12308	4836	2804	38	41	40	21670	16225	14333
Jackson	7	7	12	1922	1660	2207	49	48	46	9329	6301	4815
Jasper	13	16	18	5507	4845	3825	64	54	56	16625	12808	9825

\*Zeros in sales data indicate information suppressed to protect confidentiality or no stores in this category.

Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Furniture and Homefurnishings Stores						Eating and Drinking Places					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Jefferson	13	10	5	3491	1557	968	34	29	24	9530	5239	4378
Johnson	50	55	47	44215	31165	18187	183	156	125	84404	64035	43553
Jones	7	4	5	2556	1897	1207	35	32	36	6831	3511	3794
Keokuk	2	2	2	0	0	0	12	11	20	1322	1626	1650
Kossuth	10	11	12	2968	2326	3311	38	42	48	9270	8216	6668
Lee	17	23	26	8806	8010	8231	91	91	79	23610	15102	14896
Linn	82	84	80	81727	62066	35511	363	315	287	160513	114993	79064
Louisa	7	5	5	1060	1080	608	21	28	25	2202	2574	3120
Lucas	1	5	6	0	697	1148	18	17	12	3434	3102	1995
Lyon	6	6	7	2488	2605	2422	25	26	25	3168	2558	1998
Madison	3	2	3	286	0	0	24	21	23	4053	5739	4322
Mahaska	13	11	14	4457	5310	4121	44	41	35	12557	9488	7922
Marion	14	15	13	4735	3798	3298	50	48	49	13684	10383	8578
Marshall	19	23	21	8803	8853	5699	82	76	70	23763	19229	16731
Mills	2	1	2	0	0	0	18	15	21	4192	2990	2727
Mitchell	4	3	4	1202	0	964	23	26	23	4011	4199	2123
Monona	3	3	4	1200	1052	1133	31	28	34	3895	3512	3098
Monroe	1	1	1	0	0	0	18	13	14	2935	971	1182
Montgomery	3	3	6	0	687	1472	25	26	23	5986	4400	3606
Muscatine	24	25	24	9242	7401	6260	85	74	74	25624	18460	15304
O'Brien	6	6	11	1712	1360	1460	37	36	35	6067	6493	4992
Osceola	2	3	2	0	0	0	15	12	18	1913	1360	1478
Page	10	10	13	3461	2394	3145	34	35	31	8480	5441	4072
Palo Alto	4	5	6	1661	904	1409	29	24	28	3882	2323	2441
Plymouth	7	7	5	1713	1837	1307	47	56	48	12802	9143	6968
Pocahontas	6	7	7	1663	1294	645	19	21	23	2631	2183	2282
Polk	166	166	157	184649	136995	86019	760	655	572	328064	249503	181468
Pottawattamie	18	24	20	10912	9283	5294	171	154	135	56106	44961	36357
Poweshiek	10	7	9	4668	1584	1716	36	30	32	8499	6719	7357
Ringgold	1	1	2	0	0	0	9	6	9	989	0	1509
Sac	2	3	4	0	0	323	34	30	29	4427	3557	2716
Scott	83	87	88	82665	58793	38886	310	301	294	151543	104259	93029
Shelby	6	1	4	920	0	328	30	33	31	7132	4955	4628
Sioux	16	14	18	7199	3900	3151	58	50	41	14128	7919	5694
Story	39	38	40	21237	15942	14188	148	124	127	70694	48620	34025
Tama	6	6	7	1680	1505	1872	35	34	35	6493	4549	4245
Taylor	2	2	3	0	0	267	11	16	16	862	1876	1539
Union	8	5	7	2824	1717	864	25	30	21	7823	10112	4363
Van Buren	0	1	1	0	0	0	12	14	13	1821	1035	1228
Wapello	18	19	22	8459	6452	5621	72	62	61	23291	13507	12640
Warren	7	6	7	0	939	1003	44	38	37	11995	7620	5554
Washington	10	9	7	3483	2799	2376	37	32	35	8080	5856	6328
Wayne	2	0	2	0	0	0	15	11	14	1548	1026	1333
Webster	29	29	28	13728	10971	9616	88	85	92	28554	21318	22336
Winnebago	10	9	10	1597	1591	864	23	26	28	4994	3971	3670
Winneshiek	14	11	14	6226	4247	3518	44	46	50	8902	8028	6589
Woodbury	51	52	47	0	24897	21097	209	213	185	73980	57193	43758
Worth	1	1	2	0	0	0	16	14	16	1475	1513	1363
Wright	7	11	11	1751	1928	1847	31	29	34	5386	3572	3786
State of Iowa	1284	1299	1361	815859	609305	462873	5914	5480	5298	1849238	1367929	1109355

Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Drug and Proprietary Stores						Miscellaneous Retail Stores					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Adair	3	5	5	1854	1301	827	4	8	8	550	0*	0
Adams	2	2	2	0	0	0	5	7	6	0	1243	1995
Allamakee	3	3	2	2173	1388	0	16	22	19	5983	4083	0
Appanoose	4	2	3	3305	0	1113	17	19	20	0	0	4858
Audubon	3	3	4	1719	0	749	3	5	9	227	732	0
Benton	4	6	6	3456	2514	2242	12	15	12	3147	0	3356
Black Hawk	21	23	26	36263	30695	23360	171	169	165	84173	61157	64111
Boone	7	10	7	6168	4171	3179	20	22	27	0	2811	6232
Bremer	5	7	6	4497	3466	2807	13	15	17	0	2086	3649
Buchanan	3	4	4	2136	0	2354	16	11	18	0	2963	0
Buena Vista	6	6	7	4919	3264	2421	30	37	28	9804	9103	10042
Butler	5	6	3	0	1459	666	11	16	15	1273	0	0
Calhoun	3	4	3	0	1593	1266	8	14	13	490	0	0
Carroll	8	6	5	6033	2485	1474	26	37	29	5217	6624	16000
Cass	6	7	7	5809	4809	3064	25	28	27	9629	8500	8096
Cedar	2	3	5	0	0	1033	9	12	16	1261	1688	2410
Cerro Gordo	8	12	13	10070	8049	7998	74	83	68	19848	33537	23911
Cherokee	4	4	7	4438	3194	2536	13	20	13	2223	4109	3881
Chickasaw	4	4	3	2405	1694	1405	15	16	19	2231	1380	2391
Clarke	3	2	3	2172	0	723	10	16	11	4619	3875	0
Clay	5	5	5	4809	3415	2766	30	34	36	9214	8036	12491
Clayton	5	7	5	3520	2372	1812	15	23	19	0	2200	2695
Clinton	9	12	11	17013	13009	8327	57	68	61	21476	16025	19828
Crawford	3	5	5	4052	2816	1628	19	26	19	4585	7640	0
Dallas	7	6	7	4449	2679	1767	19	26	22	0	0	5514
Davis	3	3	3	1788	1300	0	4	5	7	0	706	3161
Decatur	3	3	4	1702	1207	1443	10	8	15	0	955	1267
Delaware	3	5	8	2648	2652	2455	12	14	13	0	1953	0
Des Moines	9	13	10	12433	10405	6894	73	55	55	23368	16620	16939
Dickinson	6	8	5	4047	2837	2143	35	25	21	0	5039	4489
Dubuque	19	21	17	33378	23260	15523	145	138	115	61663	45839	31255
Emmet	3	3	3	3405	2073	1418	12	15	11	0	0	2460
Fayette	7	8	8	5060	3736	2128	29	28	26	12870	7446	4629
Floyd	3	5	5	2283	2119	1851	16	13	16	0	3189	6011
Franklin	4	3	2	2721	0	0	13	12	13	0	4025	3029
Fremont	3	3	3	0	1534	1313	4	5	7	288	0	1872
Greene	3	3	4	2384	1787	1761	11	13	12	0	0	2019
Grundy	4	4	4	2965	1950	1857	7	10	13	2053	0	0
Guthrie	3	4	3	2334	1485	987	8	9	7	478	941	576
Hamilton	4	4	4	3985	2756	2140	20	25	19	0	0	0
Hancock	3	3	6	0	1744	1402	12	9	13	0	1123	1721
Hardin	8	9	10	3939	3153	2873	23	32	31	0	0	6213
Harrison	5	5	7	3741	2526	2945	14	15	14	0	2892	1736
Henry	5	7	5	4050	3368	2584	19	18	18	0	0	3286
Howard	2	2	2	0	0	0	7	11	13	0	4485	0
Humboldt	4	6	4	2923	2658	1597	14	14	12	0	0	0
Ida	3	3	3	2143	0	1132	6	9	6	0	2431	0
Iowa	5	6	6	3034	1597	1358	44	30	24	0	0	6482
Jackson	5	5	5	4589	3512	2200	24	20	18	5712	0	3626
Jasper	6	7	11	9399	6344	5248	35	27	28	0	6779	7484

\*Zeros in sales data indicate information suppressed to protect confidentiality or no stores in this category.

Table 5. Establishments and Sales (in \$1,000s) in Selected Areas of Retail Trade in Iowa Counties, 1982-1992 (continued).

County	Drug and Proprietary Stores						Miscellaneous Retail Stores					
	Establishments			Sales (in \$1,000s)			Establishments			Sales (in \$1,000s)		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Jefferson	2	3	2	0	0	0	33	26	22	19145	0	0
Johnson	18	17	17	29656	21514	0	133	124	108	75633	46535	34378
Jones	5	6	6	0	1890	1714	17	22	19	3641	4325	5276
Keokuk	3	3	3	1225	1132	875	6	12	12	0	7022	0
Kossuth	7	7	6	3586	2410	1750	17	20	28	0	0	9658
Lee	11	12	10	13987	9001	6707	54	42	48	13754	9039	11098
Linn	31	34	35	64467	43591	28038	230	189	207	118998	67136	63502
Louisa	2	2	3	0	0	0	5	4	5	1751	0	374
Lucas	4	2	4	0	0	1387	8	16	13	1533	2251	4538
Lyon	2	2	2	0	0	0	11	7	10	0	0	2035
Madison	5	5	4	0	0	0	17	15	10	3598	2467	2156
Mahaska	4	6	5	3125	2999	2352	26	28	25	0	9100	6673
Marion	8	8	8	7021	4443	3042	27	25	24	4130	3847	4798
Marshall	8	7	9	14299	9812	8604	43	41	43	13973	10497	13058
Mills	3	3	3	2678	1556	1386	11	13	13	2010	4076	2372
Mitchell	5	4	4	2407	1325	1230	8	11	8	0	0	5055
Monona	4	5	7	4806	3645	2677	12	12	12	1878	0	0
Monroe	4	4	3	2260	1409	493	9	8	11	0	0	2521
Montgomery	3	4	4	3883	3138	2671	9	14	15	2172	3219	2951
Muscatine	8	9	7	10908	8299	7033	49	49	50	14068	12888	16075
O'Brien	6	7	9	6102	4215	2760	23	26	26	0	0	0
Osceola	2	2	1	0	0	0	3	7	8	286	2170	3028
Page	9	7	5	6542	4065	2952	22	27	27	12981	7509	15033
Palo Alto	5	5	5	2465	1859	1225	11	12	15	0	1708	0
Plymouth	4	5	6	3789	2588	1873	29	32	22	10521	8286	6454
Pocahontas	2	3	3	0	801	0	4	9	11	504	0	3548
Polk	54	76	67	107305	78458	44715	508	467	390	294569	226644	0
Pottawattamie	19	22	23	35260	25667	17976	88	97	79	29160	28452	18303
Poweshiek	4	5	7	3887	2658	2325	17	20	26	0	0	6310
Ringgold	2	2	3	0	0	0	5	6	6	522	546	323
Sac	1	2	4	0	0	0	13	15	17	2033	1689	0
Scott	26	34	34	54546	41825	27125	203	210	173	109980	68896	52362
Shelby	5	6	5	3655	2422	1565	14	14	16	2088	0	3009
Sioux	9	9	10	6936	3933	3133	26	23	33	4500	2774	5035
Story	11	16	16	15491	10601	8287	101	95	90	38367	24937	25132
Tama	6	3	2	2772	1601	0	15	18	13	2326	0	2017
Taylor	2	2	2	0	0	0	4	4	4	385	0	1499
Union	3	4	6	1867	1079	1286	12	14	14	0	0	3118
Van Buren	1	1	1	0	0	0	5	7	7	0	1386	2275
Wapello	6	8	7	8230	7839	6205	37	34	34	12330	11051	12348
Warren	7	6	5	5741	3434	2087	19	20	19	0	0	0
Washington	5	7	7	3067	2729	1972	35	29	29	0	9553	8205
Wayne	1	1	1	0	0	0	5	5	5	1016	806	740
Webster	8	8	10	11305	7785	5392	51	59	63	15702	15341	20740
Winnebago	5	5	5	3679	2620	1808	9	10	14	0	2041	1731
Winneshiek	3	5	6	2196	1816	1921	24	28	26	0	0	7579
Woodbury	15	19	19	0	21244	0	135	124	108	73543	0	33762
Worth	1	2	3	0	0	643	6	7	8	664	1513	2963
Wright	5	6	5	2882	2312	1601	19	21	18	8058	2415	3199
State of Iowa	620	718	715	764743	547831	388050	3403	3427	3208	1356868	1024742	956788



keep pace with inflation. When the adjustment for inflation was applied over the entire period from 1977 to 1992, the state and 85 counties had lower sales figures at the end than at the beginning.

Retail sales averaged \$7,109 for each person in Iowa in 1992 (Table 1). These per capita sales are obtained by dividing the total retail sales by the estimated population for that year. Per capita retail sales increased at each of the censuses since 1977.

Polk's average of \$10,067 in retail sales per person in 1992 was the highest of any county. Three others (Cerro Gordo, Linn, Scott) exceeded \$9,000 in per capita sales. In contrast, nine others had per capita sales under \$3,000, with four (Fremont, Taylor, Van Buren, Worth) below \$2,500. All but three counties (Adams, Fremont, Mitchell) recorded higher per capita sales in 1992 than in 1987.

Per capita sales for 1977 through 1987 also were adjusted to 1992 dollars to account for inflation. Iowa's adjusted per capita sales increased between 1987 and 1992 and also between 1982 and 1987 (Table 1). For 1977, the adjusted per capita sales were \$7,309, or \$200 per person higher than in 1992. County figures show 72 gaining in adjusted per capita sales between 1987 and 1992. Only 20 counties were higher in 1992 than their adjusted 1977 per person sales.

Retail sales in any given county result from purchases by residents of that county but also by sales to those who live elsewhere. Because of urban centers, shopping malls, major highways, or regional attractions, some counties have sales above what would be expected based on resident population alone. In 1992, Polk's \$3.4 billion in retail sales amounted to 17 percent of the total sales for the state. Polk had only 12 percent of Iowa's population, however, giving it a greater proportion of sales than it had of population (Table 3). Polk had the largest percentage point difference between population and sales of any county in 1992.

Only one-fifth (21) of the counties had higher percentages of sales than they did of population in 1992. In the remaining 78 counties, the percentage of total retail sales was lower than the percentage of population. This situation was not new as of 1992. In 1987 (19), 1982 (26), and 1977 (25), a minority of counties had larger shares of sales than they did of population. Polk had the largest proportion of the state's sales in each of these four years, increasing from 14 percent in 1977 to 17 percent in 1992. Polk's population ranged from 10.4 to 12.0 percent of the state's total during those years. The four counties with the largest populations (Black Hawk, Linn, Polk, Scott) had 26.1 percent of the population in 1977 and 32.5 percent of the sales. By 1992, sales for these four accounted for 37.4 percent of the state's total and 28.2 percent of the population. Even though their share of the population increased during this time, their share of retail sales increased even more.

## **Employees and Payroll**

Employment in retailing totaled 226,000 in 1992, more than 22,000 higher than 1987 (Table 2). The number of employees increased at each economic census in Iowa, even though the number of establishments declined. Retail employees by county ranged from fewer than 200 in Ringgold, Taylor, Van Buren, and Worth to more than 12,000 in Black Hawk, Linn, Polk, and Scott. With 37,257 retail workers, Polk's total was highest. Between 1987 and 1992, employees in retailing increased in 76 counties. Polk had the largest gain (+4,521). Among the 23 counties that had fewer retail employees over the five year period, Cerro Gordo (-336) had the largest decline.

The retail payroll increased at each census to the 1992 figure of \$2.3 billion, more than double the amount in 1977 (Table 2). County payrolls ranged from less than \$2 million (Adams, Taylor, Van Buren, Worth) to more than \$100 million (Black Hawk, Linn, Polk, Scott), with Polk's \$422 million substantially higher than the others. All but six counties (Adair, Adams, Fremont, Mitchell, Taylor, Worth) recorded retail payroll increases between 1987 and 1992.

As with sales, the payroll amounts for 1977, 1982, and 1987 were adjusted for inflation to 1992 dollars (Table 2). The statewide payroll for 1992 was higher than the adjusted figures for 1987 and 1982 but lower than that for 1977. Among the counties, 25 had smaller payrolls in 1992 when compared with the 1987 adjusted amounts; 84 were lower in comparison with the adjustment for 1977.

The average pay per employee is calculated by dividing the payroll by the number of employees. In 1992, retail workers in Iowa averaged \$10,192 each in pay, \$1,813 (21.6%) more than in 1987 (Table 2). There was, however, significant variation among the counties in average pay. Three (Madison, Polk, Scott) averaged more than \$11,000 per employee in 1992; 14 counties averaged less than \$8,000. Adair (\$6,450) was the only county to average less than \$7,000 per employee. Two counties (Adams, Osceola) had lower average pay in 1992 than in 1987.

When pay per employee was adjusted for inflation, the 1992 average for the state was lower than the adjusted figures for any of the three previous censuses (Table 2). While the adjusted average pay differences were relatively small between 1992 and both 1987 (-\$63) and 1982 (-\$514), the difference with 1977 was more than \$2,900. This may suggest that pay for retail workers has not kept pace with inflation, but there also may be an increased reliance on part-time workers in recent years who would have lower total pay because they work less time. The employee numbers that are reported are those at work during the March 12th pay period of each year without distinguishing between full- or part-time employment.

The average adjusted pay was lower in 1992 than in 1987 in 59 counties. When the 1992 and 1977 adjusted amounts are compared, only three counties (Guthrie, Van Buren, Wright) averaged more pay per employee in the more recent year.

### **Sales and Employees**

There was an average of 11.5 employees per retail establishment in 1992 in Iowa, a figure 1.5 persons higher than 1987 and 2.5 higher than 1977 (Table 4). These figures confirm the trend of recent years to larger retail businesses. The counties varied from fewer than five employees per retail business (Butler, Taylor, Van Buren, Worth) to at least 15 (Johnson, Linn, Polk, Scott, Story). Eighty-six counties averaged more employees per establishment in 1992 than in 1987.

Sales per establishment in 1992 averaged more than \$1 million statewide, with successive increases at each census since 1977 (Table 4). Counties varied widely in sales per business in 1992. Five (Adams, Fremont, Taylor, Wayne, Worth) averaged less than \$400,000; three (Linn, Polk, Scott) exceeded \$1.3 million. Ninety-six had higher sales per retail business in 1992 than in 1987.

The retail sector in Iowa had an average of \$88,275 in sales per employee in 1992, more than \$14,000 higher than in 1987 (Table 4). Sales per employee were below \$70,000 in six counties (Adams, Fremont, Iowa, Lyon, Osceola, Wayne) but above \$100,000 per worker in 13 others in 1992. Iowa's four most populous counties (Black Hawk, Linn, Polk, Scott) ranged from \$88,000 to \$94,000 in sales per employee in 1992.

For each dollar of payroll in 1992, Iowa's retail establishments averaged \$8.66 in sales (Table 4). This ratio between sales and payroll was fairly consistent across the censuses, varying from \$8.60 in 1977 to \$8.84 in 1987. The counties, however, had a considerable range of sales dollars per payroll dollar. More than \$11.00 of sales for each dollar of pay were recorded for Adair, Audubon, Calhoun, Harrison, Howard, Keokuk, Louisa, Monona, Ringgold, and Worth; Harrison (\$13.78) and Keokuk (\$14.14) were highest. The lowest ratios of sales to payroll were under \$8.00 for retailers in Fremont, Iowa, Johnson, Story, and Wright. The four most urban counties (Black Hawk, Linn, Polk, Scott) clustered near the low end of the ratios, ranging from \$8.06 to \$8.42 in sales per \$1 of payroll.

### **Kind of Business**

The retail trade census also reports establishments and sales for several specific types of retailing. At the county level, the number of establishments of each type is given, but sales figures may be suppressed if the number of businesses is small and the sales figures would reveal information about any particular establishment. These specific business reports include data from 1982 through 1992. The 1987 and 1992 retail censuses were conducted under very similar circumstances and methodology and these kind-of-business data are comparable across the period. In the 1982 census, a different Standard Industrial Classification was used which makes comparison of the figures for that year with 1987 and 1992 more limited.

For the periods from 1982 to 1987 and from 1987 to 1992, the statewide number of retailers in building materials/garden supplies, automotive dealers, gasoline service stations, apparel and accessories, and furniture and homefurnishings declined (Table 5). In contrast, the number of eating and drinking establishments increased in Iowa in both periods. The other four types of business decreased at one census and increased or stayed the same at the other. All 10 types of retail businesses recorded sales increases in both time periods (Table 5).

**Note:** Readers can review the original publication for further details (1992 CENSUS OF RETAIL TRADE, U.S. Bureau of the Census, Geographic Area Series, Iowa RC92-A-16; only the year changes in the title of this publication from earlier censuses). Much additional information, including data on incorporated places with at least 2,500 residents, is included in those volumes.

Figure 1. Number of retail trade establishments in Iowa, 1977-1992.

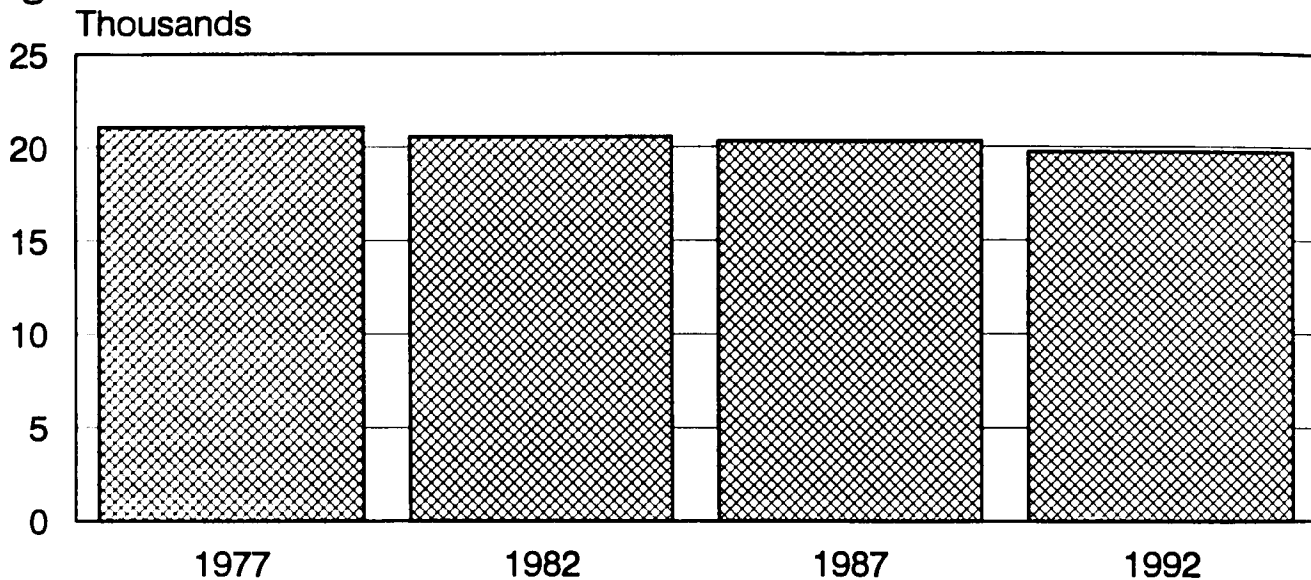
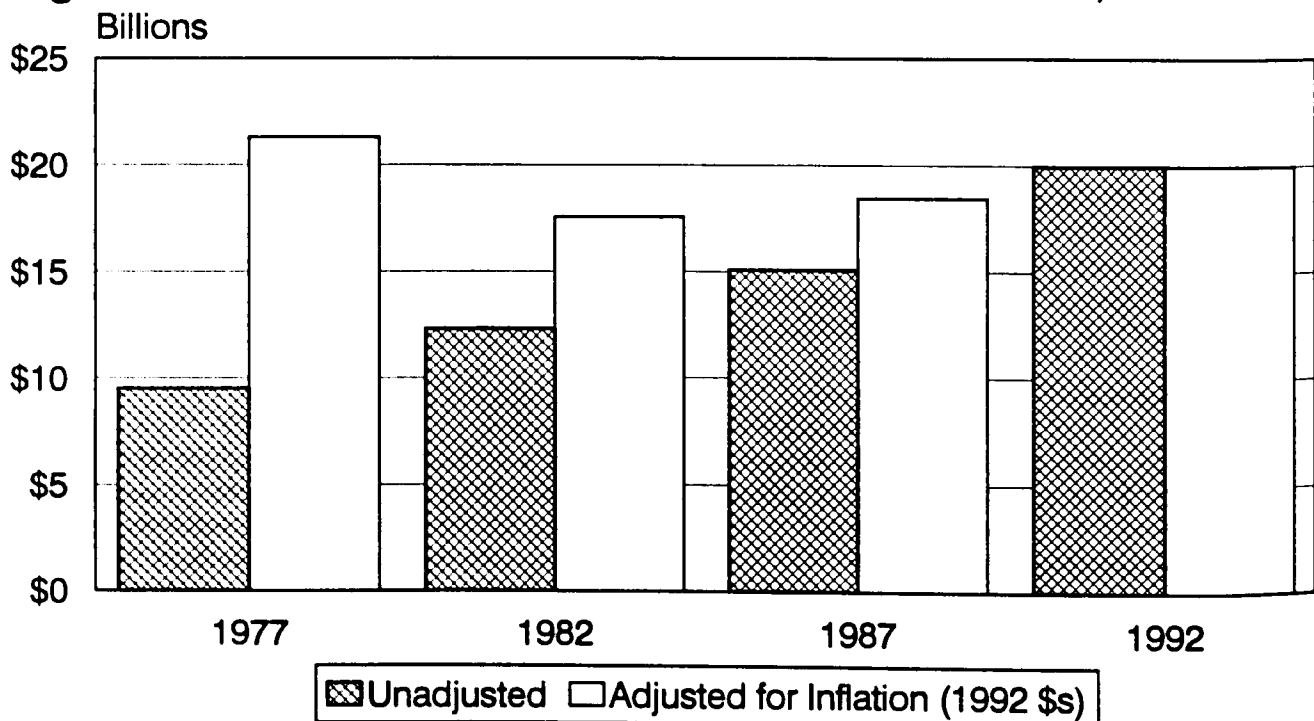


Figure 2. Sales in retail trade establishments in Iowa, 1977-1992.



## Wholesale Trade in Iowa's Counties:

1977-1992

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Iowa had 6,971 wholesale establishments in 1992, according to a report released by the U.S. Bureau of the Census (Table 1). This is part of a series of economic censuses completed in years ending in 2 and 7. The most recent data for Iowa were released late in December of 1994. Information on wholesale trade included all establishments with one or more paid employees primarily engaged in selling merchandise to retailers; to industrial, commercial, institutional, farm, or professional users; or to other wholesalers. Each census from 1977 to 1992 has found fewer wholesale trade establishments; 675 fewer of these businesses were counted in 1992 than in 1977 (Figure 1).

Wholesale establishments had total sales of \$29.4 billion in 1992. Sales increased by \$4.9 billion (+20.2%) from 1987 to 1992; they had grown by \$5.7 billion (+28.3%) from 1977 to 1982 as well, but from 1982 to 1987 sales from wholesale establishments declined (-\$1.3 billion, -5.2%). When sales figures are adjusted for inflation from 1977 to 1992 in 1992 dollars, then a constant decline is evident. The inflation-adjusted decrease was \$550 million between 1987 and 1992 but approached \$7 billion when the adjusted figures for 1982 and 1987 were compared.

In 1992, 69,000 people were employed in wholesale trade in Iowa, a figure similar to those in 1977 and 1982 but more than 3,000 higher than that reported in 1987 (Table 2). The annual payroll was more than \$1.6 billion in 1992, a figure nearly twice that of 1977. The statewide annual payroll increased by 28.0 percent from 1987 to 1992 and the number of paid employees grew by 5.2 percent during this period, even though there was a drop of 44 (-0.6%) in the number of these businesses. Comparing the annual payrolls after adjusting to 1992 dollars to account for inflation reveals a different trend (Figure 2). Adjusted payrolls from Iowa's wholesale establishments declined between 1977 and 1982 and from 1982 to 1987 (Table 2). The adjusted 1977 payroll was the highest of the four census years; the other three varied within a relatively narrow range.

Pay per employee in wholesale trade was \$23,630 in 1992, a figure more than \$4,000 above that for 1987 (Table 2). When this was adjusted for the effects of inflation, however, pay per employee was highest in 1977. It was about \$3,000 lower in each of the other three censuses when inflation-adjusted figures were examined.

The number of employees per wholesale trade establishment has increased from 9 in 1977 to 10 in 1992 as have sales per establishment and per employee (Table 3). On both of these, however, there were slight declines from 1982 to 1987, which indicates economic strains occurring in the mid-1980s. Sales dollars per payroll dollar have declined throughout the period. In 1977, sales of \$24.34 occurred for every dollar of payroll; this dropped to \$17.95 as of the 1992 census.

Forty-two counties had increases in the number of wholesale establishments between 1987 and 1992, led by gains of at least 20 in Dubuque, Polk, and Sioux. Four counties had no change, and the remaining 53 had fewer wholesale businesses in 1992 than in 1987. In 45 of these 53 counties, the drop was less than 10 establishments. Declines of 10-19 establishments occurred in seven counties; Woodbury's drop of 22 was the only one greater than 20.

Table 1. Establishments and Sales (unadjusted and adjusted to 1992 dollars) in Wholesale Trade in Iowa Counties, 1977-1992.

County	Number of Establishments				Sales (in \$1,000)				Adjusted Sales (in 1992 \$1,000)		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Adair	22	23	31	29	62196	57722	75886	46973	70651	108254	105085
Adams	17	13	16	18	23192	9413	24764	17603	11521	35327	39380
Allamakee	38	39	42	46	139714	141853	153644	73774	173627	219178	165043
Appanoose	19	25	31	34	44861	32256	46530	22420	39481	66377	50157
Audubon	31	27	36	36	103144	0*	48373	39294	0	69006	87906
Benton	59	66	69	67	185085	174105	199367	136738	213103	284404	305902
Black Hawk	227	223	230	249	625279	534458	834919	636536	654171	1191040	1424018
Boone	30	29	42	41	103840	0	68134	61928	0	97195	138541
Bremer	62	55	45	66	161320	146408	121751	100473	179202	173682	224772
Buchanan	48	53	59	63	184381	125087	146879	84527	153105	209528	189098
Buena Vista	56	58	66	67	186402	174501	232655	161023	213588	331890	360230
Butler	56	48	49	76	158866	117254	113587	141495	143518	162036	316544
Calhoun	35	44	48	56	190592	121846	143089	125877	149138	204121	281604
Carroll	90	82	87	92	419895	327008	283685	183323	400255	404686	410119
Cass	51	53	61	60	150561	130378	127482	81558	159581	181857	182456
Cedar	49	54	68	61	136820	120505	156431	120581	147497	223154	269756
Cerro Gordo	126	124	138	156	920457	518900	376045	263790	635129	536441	590134
Cherokee	26	35	35	44	96004	0	94873	65457	0	135340	146436
Chickasaw	43	39	50	55	144776	115660	102857	269498	141567	146729	602904
Clarke	11	10	13	24	15556	35041	0	17647	42890	0	39479
Clay	64	68	81	84	226407	176753	248126	244710	216344	353960	547450
Clayton	59	63	71	61	261652	190154	252431	138618	232747	360101	310107
Clinton	94	94	94	107	181947	193589	173704	199927	236951	247795	447264
Crawford	44	47	45	57	148651	618512	347967	198113	757053	496387	443206
Dallas	62	52	55	63	212584	133928	140258	111893	163927	200083	250320
Davis	24	24	20	19	81754	73600	56647	38744	90086	80809	86676
Decatur	19	19	21	24	108969	71086	79519	40176	87009	113437	89879
Delaware	41	46	55	55	124701	108680	135386	95384	133023	193133	213387
Des Moines	98	103	112	107	286403	347925	541011	315766	425857	771770	706412
Dickinson	33	30	29	29	134469	83058	141879	70240	101662	202395	157136
Dubuque	211	191	212	190	829430	506165	491183	314299	619541	700689	703130
Emmet	27	23	33	36	84889	50793	70357	59504	62170	100367	133119
Fayette	69	67	85	85	377879	209461	247520	136363	256378	353096	305063

\*Zeros in sales data indicate information suppressed by the census bureau to protect confidentiality.

Table 1. Establishments and Sales (unadjusted and adjusted to 1992 dollars) in Wholesale Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Establishments				Sales (in \$1,000)				Adjusted Sales (in 1992 \$1,000)		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Floyd	47	50	51	58	119077	125897	108816	89184	154097	155230	199517
Franklin	30	38	46	47	104815	91731	136550	89458	112278	194793	200130
Fremont	21	24	22	29	103630	85633	81356	68470	104814	116057	153177
Greene	28	25	29	35	114098	42821	63045	54224	52412	89936	121306
Grundy	26	38	51	47	123543	100204	140215	86065	122649	200021	192539
Guthrie	27	25	35	33	83767	66607	95260	366790	81526	135892	820559
Hamilton	41	49	50	50	496420	307795	365883	234825	376738	521944	525336
Hancock	39	53	50	53	171011	130021	165809	202397	159144	236532	452790
Hardin	65	69	70	76	330369	314327	321559	231313	384733	458715	517479
Harrison	31	34	37	49	99860	96916	151417	104286	118624	216001	233302
Henry	47	43	45	59	108927	78340	103487	89560	95887	147628	200358
Howard	36	27	33	39	112101	95034	82436	74889	116321	117598	167537
Humboldt	43	40	50	52	123888	113858	128750	90798	139361	183666	203128
Ida	26	27	39	40	133570	77479	84617	44801	94834	120709	100226
Iowa	39	40	33	48	80388	54341	57325	53658	66513	81776	120040
Jackson	61	57	50	59	74756	89852	76707	71623	109978	109425	160230
Jasper	61	63	75	79	419572	258164	227248	164533	315990	324177	368083
Jefferson	59	49	43	47	72880	75985	59246	51460	93005	84516	115123
Johnson	93	91	92	91	343369	300226	240609	179691	367474	343237	401993
Jones	53	55	62	73	96696	84933	97272	75640	103957	138762	169217
Keokuk	39	56	56	58	118169	100245	98606	96968	122699	140665	216931
Kossuth	62	78	96	89	248161	284414	329342	251413	348120	469817	562445
Lee	73	81	81	75	146691	143010	194010	118512	175043	276762	265128
Linn	427	432	398	374	2049658	1731577	1218448	937688	2119433	1738157	2097736
Louisa	17	17	22	20	81478	54115	81103	64865	66236	115696	145112
Lucas	13	15	23	21	56607	31759	37782	22581	38873	53897	50517
Lyon	34	35	36	31	118939	92191	56071	55537	112841	79987	124244
Madison	26	23	22	23	54163	40888	56722	36666	50047	80916	82027
Mahaska	50	62	59	66	184709	206058	152067	108941	252213	216929	243716
Marion	58	53	60	59	141602	128054	146536	107026	156737	209039	239432
Marshall	84	86	91	93	210594	141680	224507	181768	173415	320267	406640
Mills	23	20	22	25	47376	27806	41689	38923	34034	59471	87076
Mitchell	47	41	44	50	148377	100883	84729	70313	123480	120869	157300

Table 1. Establishments and Sales (unadjusted and adjusted to 1992 dollars) in Wholesale Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Establishments				Sales (in \$1,000)				Adjusted Sales (in 1992 \$1,000)		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Monona	32	38	42	54	71990	82850	75486	61340	101408	107683	137226
Monroe	13	17	19	21	0	41124	57479	39708	50335	81996	88832
Montgomery	29	37	45	40	92457	95581	84602	54506	116990	120688	121937
Muscatine	69	76	73	78	180583	162903	222316	329495	199392	317141	737125
O'Brien	61	58	60	64	331418	233040	142377	108909	285239	203106	243644
Osceola	27	22	31	25	74109	36508	61109	44439	44685	87174	99416
Page	39	40	53	63	70661	89782	124592	91058	109892	177735	203709
Palo Alto	33	28	33	29	134693	121447	138727	82335	148650	197899	184195
Plymouth	66	76	74	68	363380	406265	295541	118805	497264	421599	265783
Pocahontas	28	33	38	43	320285	166153	284159	133708	203370	405362	299123
Polk	1017	953	917	889	6295321	5186031	6159943	4246457	6347651	8787365	9499904
Pottawattamie	144	142	161	149	1007162	0	546769	401284	0	779984	897727
Poweshiek	47	51	55	61	124929	94587	105244	91919	115774	150134	205635
Ringgold	17	16	20	24	24754	40770	28182	20692	49902	40203	46291
Sac	56	60	65	71	145218	92664	150917	101167	113420	215288	226324
Scott	440	436	406	371	2091944	2108638	1682925	1872396	2580952	2400749	4188805
Shelby	50	48	47	60	106280	95404	110220	83734	116774	157233	187324
Sioux	101	79	94	88	399616	249634	251349	175541	305550	358558	392709
Story	111	108	97	99	284661	258738	245339	171695	316693	349984	384105
Tama	46	45	55	58	192103	281687	172657	104323	344782	246301	233385
Taylor	18	23	30	34	44542	75008	55760	39737	91809	79544	88897
Union	28	27	33	38	89230	84466	74861	64836	103386	106792	145047
Van Buren	20	19	21	28	37356	14871	0	34399	18202	0	76955
Wapello	55	65	65	69	144076	123858	148483	91144	151601	211816	203902
Warren	51	54	50	35	108241	90669	96563	36949	110978	137750	82660
Washington	64	73	83	85	151421	136242	180169	118684	166759	257017	265512
Wayne	20	19	26	37	67981	61809	82105	51659	75654	117126	115568
Webster	113	109	123	127	509569	233293	275483	273161	285548	392986	611098
Winnebago	25	27	33	42	103755	0	94812	71552	0	135252	160072
Winneshiek	50	52	56	60	125609	165943	122306	64482	203113	174474	144255
Woodbury	272	294	314	341	0	0	0	1579908	0	0	3534470
Worth	23	25	22	28	79850	45354	62309	46609	55513	88886	104271
Wright	39	42	50	62	181723	129705	151565	143040	158758	216213	320000
State of Iowa	6971	7015	7393	7646	29420132	24483520	25825641	20078789	29967589	36841143	44918991

Table 2. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Payroll Per Employee (unadjusted and adjusted to 1992 dollars) in Wholesale Trade in Iowa Counties, 1977-1992.

County	Number of Employees				Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in \$1,000s)			Pay Per Employee				Adjusted Pay Per Employee		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Adair	192	179	194	199	4089	3231	3098	2127	3955	4419	4758	21297	18050	15969	10688	22095	22778	23910
Adams	79	49	85	103	1035	521	899	843	638	1282	1886	13101	10633	10576	8184	13020	15082	18311
Allamakee	431	395	496	321	6372	4327	5327	3026	5296	7599	6770	14784	10954	10740	9427	13408	15321	21090
Appanoose	147	125	176	162	2158	1653	1984	1323	2023	2830	2960	14680	13224	11273	8167	16184	16080	18272
Audubon	187	0*	184	234	3035	0	2021	1894	0	2883	4237	16230	0	10984	8094	0	15668	18107
Benton	554	449	513	515	10209	7382	7316	6256	9035	10437	13996	18428	16441	14261	12148	20122	20345	27177
Black Hawk	2514	2313	2549	2838	59605	46173	42611	36336	56515	60786	81289	23709	19962	16717	12803	24434	23847	28643
Boone	226	0	255	268	4637	0	3665	2953	0	5228	6606	20518	0	14373	11019	0	20502	24649
Bremer	397	341	451	448	7274	5764	4748	4495	7055	6773	10056	18322	16903	10528	10033	20689	15018	22446
Buchanan	393	373	445	431	8782	6879	6632	4430	8420	9461	9911	22346	18442	14903	10278	22574	21261	22995
Buena Vista	524	560	544	543	11782	10343	8321	6303	12660	11870	14101	22485	18470	15296	11608	22607	21820	25969
Butler	329	291	302	561	6176	5068	4234	5391	6203	6040	12060	18772	17416	14020	9610	21316	20000	21497
Calhoun	277	288	340	363	6384	4996	4889	4149	6115	6974	9282	23047	17347	14379	11430	21233	20512	25570
Carroll	1383	926	735	668	32573	21243	11513	7056	26001	16424	15785	23552	22941	15664	10563	28079	22346	23630
Cass	492	527	525	489	8831	7113	6760	4940	8706	9643	11051	17949	13497	12876	10102	16520	18368	22599
Cedar	363	357	458	373	6996	5739	7534	4306	7024	10748	9633	19273	16076	16450	11544	19675	23467	25826
Cerro Gordo	1200	1181	1202	1289	30037	23062	20578	15362	28228	29355	34367	25031	19528	17120	11918	23902	24422	26662
Cherokee	247	0	313	318	5083	0	5044	3335	0	7195	7461	20579	0	16115	10487	0	22987	23462
Chickasaw	344	315	349	471	6354	4593	4907	4797	5622	7000	10732	18471	14581	14060	10185	17848	20057	22786
Clarke	49	40	0	108	921	690	0	1084	845	0	2425	18796	17250	0	10037	21125	0	22454
Clay	598	529	668	949	13065	10858	11340	13155	13290	16177	29430	21848	20526	16976	13862	25123	24217	31012
Clayton	446	441	452	361	7830	6469	6184	3516	7918	8822	7866	17556	14669	13681	9740	17955	19518	21789
Clinton	679	623	964	828	14174	9650	11853	9667	11812	16909	21626	20875	15490	12296	11675	18960	17540	26118
Crawford	295	1043	857	366	4736	18359	13820	3572	22471	19715	7991	16054	17602	16126	9760	21545	23005	21833
Dallas	386	422	398	485	8165	7273	6142	4615	8902	8762	10324	21153	17235	15432	9515	21095	22015	21287
Davis	169	164	139	119	2817	2471	1856	931	3024	2648	2083	16669	15067	13353	7824	18439	19050	17504
Decatur	193	128	173	209	3195	1687	1646	1438	2065	2348	3217	16554	13180	9514	6880	16133	13572	15392
Delaware	341	300	386	379	6576	5691	5350	3935	6966	7632	8803	19284	18970	13860	10383	23220	19772	23227
Des Moines	1038	1049	1229	1153	21992	19388	19854	14493	23731	28322	32423	21187	18482	16155	12570	22622	23045	28121
Dickinson	307	283	202	237	6153	4496	2914	2822	5503	4157	6313	20042	15887	14426	11907	19445	20579	26637
Dubuque	2016	2025	1768	1695	42989	34481	26274	19977	42204	37481	44691	21324	17028	14861	11786	20841	21200	26366
Emmet	261	191	250	293	4710	3385	3858	3142	4143	5504	7029	18046	17723	15432	10724	21691	22016	23990
Fayette	682	568	692	662	13991	9506	10305	6247	11635	14700	13975	20515	16736	14892	9437	20484	21243	21110

\*Zeros indicate information suppressed by the census bureau to protect confidentiality.



Table 2. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Payroll Per Employee (unadjusted and adjusted to 1992 dollars) in Wholesale Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Employees				Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in \$1,000s)			Pay Per Employee				Adjusted Pay Per Employee		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Floyd	399	358	328	319	7975	6048	4726	3743	7403	6742	8374	19987	16894	14409	11734	20679	20555	26251
Franklin	219	234	377	342	4521	4063	4992	3524	4973	7121	7884	20644	17363	13241	10304	21252	18889	23053
Fremont	201	230	183	186	4456	3376	2895	2214	4132	4130	4953	22169	14678	15820	11903	17965	22568	26629
Greene	233	163	199	257	5038	2683	3024	2653	3284	4314	5935	21622	16460	15196	10323	20147	21678	23093
Grundy	244	257	448	326	5628	5103	7344	3514	6246	10476	7861	23066	19856	16393	10779	24304	23384	24113
Guthrie	206	185	227	264	3084	2359	2770	2096	2887	3951	4689	14971	12751	12203	7939	15605	17405	17761
Hamilton	659	845	618	610	16408	15032	10811	6806	18399	15422	15226	24898	17789	17494	11157	21774	24955	24961
Hancock	320	348	367	377	7469	7106	6448	4229	8698	9198	9461	23341	20420	17569	11218	24994	25063	25095
Hardin	971	858	925	749	22282	16650	15284	9426	20379	21803	21087	22947	19406	16523	12585	23752	23571	28154
Harrison	328	296	357	327	7047	4806	4359	2434	5882	6218	5445	21485	16236	12210	7443	19872	17417	16651
Henry	359	337	339	406	6612	5077	5182	5542	6214	7392	12398	18418	15065	15286	13650	18439	21805	30537
Howard	229	267	226	269	4083	3984	3228	2405	4876	4605	5380	17830	14921	14283	8941	18262	20376	20000
Humboldt	270	250	346	315	6372	4786	5286	3733	5858	7541	8351	23600	19144	15277	11851	23432	21795	26511
Ida	186	175	232	198	4421	3327	3641	2128	4072	5194	4761	23769	19011	15694	10747	23269	22388	24045
Iowa	271	275	234	340	4766	4209	3319	3171	5152	4735	7094	17587	15305	14184	9326	18735	20235	20865
Jackson	330	322	400	403	5057	4052	4425	3564	4960	6312	7973	15324	12584	11063	8844	15404	15780	19784
Jasper	1332	685	739	709	22644	12260	11044	7486	15006	15755	16747	17000	17898	14945	10559	21907	21319	23621
Jefferson	387	374	330	272	6877	6056	3696	2514	7412	5272	5624	17770	16193	11200	9243	19818	15976	20676
Johnson	1100	1004	856	885	28364	20373	14741	11014	24936	21029	24640	25785	20292	17221	12445	24837	24567	27842
Jones	380	404	479	418	6564	5727	5845	4043	7010	8338	9045	17274	14176	12203	9672	17351	17407	21639
Keokuk	251	277	291	285	5684	5342	4040	2738	6539	5763	6125	22645	19285	13883	9607	23606	19804	21491
Kossuth	466	560	735	638	9851	9382	10951	7352	11483	15622	16447	21139	16754	14899	11524	20505	21254	25779
Lee	531	599	577	534	9791	8964	9180	6186	10972	13096	13839	18439	14965	15910	11584	18317	22697	25916
Linn	5008	4639	4376	4335	135301	101452	78947	59755	124176	112621	133680	27017	21869	18041	13784	26768	25736	30837
Louisa	172	160	207	194	3304	2850	3142	2059	3488	4482	4606	19209	17813	15179	10613	21800	21652	23742
Lucas	129	146	154	153	1556	1451	1653	1177	1776	2358	2633	12062	9938	10734	7693	12164	15312	17209
Lyon	219	214	203	171	4605	3589	2690	1872	4393	3837	4188	21027	16771	13251	10947	20528	18901	24491
Madison	175	144	155	158	3290	2535	2072	1465	3103	2956	3277	18800	17604	13368	9272	21549	19071	20741
Mahaska	504	562	473	533	11446	10014	6338	5962	12257	9041	13338	22710	17819	13400	11186	21810	19114	25024
Marion	451	428	475	424	10651	6841	7230	4764	8373	10314	10658	23616	15984	15221	11236	19563	21714	25137
Marshall	761	730	712	662	18725	14704	10339	8146	17998	14749	18224	24606	20142	14521	12305	24655	20715	27529
Mills	130	117	146	157	2572	1792	1730	1629	2193	2468	3644	19785	15316	11849	10376	18744	16904	23210
Mitchell	328	290	264	256	6519	4450	3940	2986	5447	5621	6680	19875	15345	14924	11664	18783	21292	26094

Table 2. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Payroll Per Employee (unadjusted and adjusted to 1992 dollars) in Wholesale Trade in Iowa Counties, 1977-1992 (continued).

County	Number of Employees				Annual Payroll (in \$1,000s)				Adjusted Annual Payroll (in \$1,000s)			Pay Per Employee				Adjusted Pay Per Employee		
	1992	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977	1992	1987	1982	1977	1987	1982	1977
Monona	247	253	295	343	4007	4048	4418	3244	4955	6302	7257	16223	16000	14976	9458	19585	21363	21157
Monroe	0	86	133	175	0	1081	1279	1143	1323	1825	2557	0	12570	9617	6531	15384	13722	14611
Montgomery	226	258	312	304	3950	3564	3224	2603	4362	4599	5823	17478	13814	10333	8563	16907	14740	19155
Muscatine	423	415	650	498	8055	7236	11718	5751	8857	16716	12866	19043	17436	18028	11548	21342	25717	25835
O'Brien	696	464	433	359	14236	9119	6163	4351	11162	8792	9734	20454	19653	14233	12120	24056	20305	27114
Osceola	186	153	182	140	3645	2074	2476	1545	2539	3532	3456	19597	13556	13604	11036	16595	19407	24686
Page	244	491	425	414	4033	4633	4664	3445	5671	6653	7707	16529	9436	10974	8321	11550	15654	18616
Palo Alto	271	225	249	225	5773	4276	4975	2397	5234	7097	5362	21303	19004	19980	10653	23262	28502	23831
Plymouth	999	880	821	724	24945	16834	14575	8872	20605	20792	19848	24970	19130	17753	12254	23415	25325	27414
Pocahontas	449	361	424	365	9737	7835	7639	4329	9590	10897	9685	21686	21704	18017	11860	26565	25700	26534
Polk	13712	12808	12973	12763	397808	306732	249427	180158	375437	355816	403038	29012	23948	19227	14116	29313	27427	31579
Pottawattamie	1400	0	1384	1371	32811	0	21410	15674	0	30542	35065	23436	0	15470	11433	0	22068	25576
Poweshiek	362	351	390	424	7067	5539	5495	4328	6780	7839	9682	19522	15781	14090	10208	19316	20100	22835
Ringgold	70	60	108	134	1013	986	1109	1086	1207	1582	2430	14471	16433	10269	8104	20117	14648	18134
Sac	379	355	432	442	6672	5726	6270	4602	7009	8944	10295	17604	16130	14514	10412	19744	20704	23292
Scott	4716	4462	4185	4413	127941	99111	79961	62630	121311	114067	140112	27129	22212	19107	14192	27188	27256	31750
Shelby	423	392	426	474	8197	5013	5559	4326	6136	7930	9678	19378	12788	13049	9127	15653	18615	20418
Sioux	1059	761	788	692	22772	13692	11546	7268	16759	16471	16260	21503	17992	14652	10503	22022	20902	23497
Story	948	1029	809	792	19634	18977	13108	9119	23228	18699	20400	20711	18442	16203	11514	22573	23114	25758
Tama	326	285	365	383	5763	4476	4824	4132	5479	6882	9244	17678	15705	13216	10789	19225	18855	24136
Taylor	104	209	205	199	1538	2512	2264	1493	3075	3230	3340	14788	12019	11044	7503	14713	15756	16784
Union	302	220	262	274	6228	3337	3841	2395	4084	5479	5358	20623	15168	14660	8741	18564	20912	19555
Van Buren	87	60	0	158	1292	659	0	1417	807	0	3170	14851	10983	0	8968	13450	0	20063
Wapello	432	534	534	563	9140	9147	7873	5648	11196	11231	12635	21157	17129	14743	10032	20966	21032	22442
Warren	405	321	377	230	8614	5866	4251	2637	7180	6064	5899	21269	18274	11276	11465	22368	16085	25648
Washington	454	475	479	481	8330	7454	6869	4888	9124	9799	10935	18348	15693	14340	10162	19208	20457	22734
Wayne	121	128	201	213	1847	1521	2376	1612	1862	3389	3606	15264	11883	11821	7568	14547	16861	16930
Webster	981	868	1030	1248	23459	17044	16996	15107	20862	24245	33796	23913	19636	16501	12105	24035	23539	27080
Winnebago	173	0	223	251	3396	0	3498	2802	0	4990	6268	19630	0	15686	11163	0	22377	24972
Winneshiek	419	411	500	359	8413	6728	6257	3086	8235	8926	6904	20079	16370	12514	8596	20036	17852	19231
Woodbury	0	0	0	3557	0	0	0	44776	0	0	100170	0	0	0	12588	0	0	28161
Worth	193	148	112	162	3476	2369	2181	1736	2900	3111	3884	18010	16007	19473	10716	19595	27777	23975
Wright	323	328	357	519	7359	5180	5201	6251	6340	7419	13984	22783	15793	14569	12044	19329	20782	26944
State of Iowa	69367	65941	68713	68559	1639133	1281004	1117012	825097	1567936	1593455	1845855	23630	19427	16256	12035	23778	23190	26924

Table 3. Employees and Sales Per Establishment, Sales Per Employee, and Sales Dollars Per Payroll Dollar in Wholesale Trade in Iowa Counties, 1977-1992.

County	Employees Per Establishment				Sales Per Establishment				Sales Per Employee				Sales \$s Per Payroll \$			
	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977
Adair	8.7	7.8	6.3	6.9	2827091	2509652	2447935	1619759	323938	322469	391165	236045	15.21	17.87	24.50	22.08
Adams	4.6	3.8	5.3	5.7	1364235	724077	1547750	977944	293570	192102	291341	170903	22.41	18.07	27.55	20.88
Allamakee	11.3	10.1	11.8	7.0	3676684	3637256	3658190	1603783	324162	359122	309766	229826	21.93	32.78	28.84	24.38
Appanoose	7.7	5.0	5.7	4.8	2361105	1290240	1500968	659412	305177	258048	264375	138395	20.79	19.51	23.45	16.95
Audubon	6.0	0*	5.1	6.5	3327226	0	1343694	1091500	551572	0	262897	167923	33.98	0	23.94	20.75
Benton	9.4	6.8	7.4	7.7	3137034	2637955	2889377	2040866	334088	387762	388630	265511	18.13	23.59	27.25	21.86
Black Hawk	11.1	10.4	11.1	11.4	2754533	2396673	3630083	2556369	248719	231067	327548	224290	10.49	11.58	19.59	17.52
Boone	7.5	0	6.1	6.5	3461333	0	1622238	1510439	459469	0	267192	231075	22.39	0	18.59	20.97
Bremer	6.4	6.2	10.0	6.8	2601935	2661964	2705578	1522318	406348	429349	269958	224270	22.18	25.40	25.64	22.35
Buchanan	8.2	7.0	7.5	6.8	3841271	2360132	2489475	1341698	469163	335354	330065	196118	21.00	18.18	22.15	19.08
Buena Vista	9.4	9.7	8.2	8.1	3328607	3008638	3525076	2403328	355729	311609	427675	296543	15.82	16.87	27.96	25.55
Butler	5.9	6.1	6.2	7.4	2836893	2442792	2318102	1861776	482875	402935	376116	252219	25.72	23.14	26.83	26.25
Calhoun	7.9	6.5	7.1	6.5	5445486	2769227	2981021	2247804	688058	423076	420850	346769	29.85	24.39	29.27	30.34
Carroll	15.4	11.3	8.4	7.3	4665500	3987902	3260747	1992641	303612	353140	385966	274436	12.89	15.39	24.64	25.98
Cass	9.6	9.9	8.6	8.2	2952176	2459962	2089869	1359300	306018	247397	242823	166785	17.05	18.33	18.86	16.51
Cedar	7.4	6.6	6.7	6.1	2792245	2231574	2300456	1976738	376915	337549	341552	323273	19.56	21.00	20.76	28.00
Cerro Gordo	9.5	9.5	8.7	8.3	7305214	4184677	2724964	1690962	767048	439373	312849	204647	30.64	22.50	18.27	17.17
Cherokee	9.5	0	8.9	7.2	3692462	0	2710657	1487659	388680	0	303109	205840	18.89	0	18.81	19.63
Chickasaw	8.0	8.1	7.0	8.6	3366884	2965641	2057140	4899964	420860	367175	294719	572183	22.79	25.18	20.96	56.18
Clarke	4.5	4.0	0	4.5	1414182	3504100	0	735292	317469	876025	0	163398	16.89	50.78	0	16.28
Clay	9.3	7.8	8.2	11.3	3537609	2599309	3063284	2913214	378607	334127	371446	257861	17.33	16.28	21.88	18.60
Clayton	7.6	7.0	6.4	5.9	4434780	3018317	3555366	2272426	586664	431188	558476	383983	33.42	29.39	40.82	39.42
Clinton	7.2	6.6	10.3	7.7	1935606	2059457	1847915	1868477	267963	310737	180191	241458	12.84	20.06	14.65	20.68
Crawford	6.7	22.2	19.0	6.4	3378432	13159830	7732600	3475667	503902	593012	406029	541292	31.39	33.69	25.18	55.46
Dallas	6.2	8.1	7.2	7.7	3428774	2575538	2550145	1776079	550736	317365	352407	230707	26.04	18.41	22.84	24.25
Davis	7.0	6.8	7.0	6.3	3406417	3066667	2832350	2039158	483751	448780	407532	325580	29.02	29.79	30.52	41.62
Decatur	10.2	6.7	8.2	8.7	5735211	3741368	3786619	1674000	564606	555359	459647	192230	34.11	42.14	48.31	27.94
Delaware	8.3	6.5	7.0	6.9	3041488	2362609	2461564	1734255	365692	362267	350741	251673	18.96	19.10	25.31	24.24
Des Moines	10.6	10.2	11.0	10.8	2922480	3377913	4830455	2951084	275918	331673	440204	273865	13.02	17.95	27.25	21.79
Dickinson	9.3	9.4	7.0	8.2	4074818	2768600	4892379	2422069	438010	293491	702371	296371	21.85	18.47	48.69	24.89
Dubuque	9.6	10.6	8.3	8.9	3930948	2650079	2316901	1654205	411424	249958	277818	185427	19.29	14.68	18.69	15.73
Emmet	9.7	8.3	7.6	8.1	3144037	2208391	2132030	1652889	325245	265932	281428	203085	18.02	15.01	18.24	18.94
Fayette	9.9	8.5	8.1	7.8	5476507	3126284	2912000	1604271	554075	368769	357688	205986	27.01	22.03	24.02	21.83

\*Zeros indicate information suppressed by the census bureau to protect confidentiality.

Table 3. Employees and Sales Per Establishment, Sales Per Employee, and Sales Dollars Per Payroll Dollar in Wholesale Trade in Iowa Counties, 1977-1992 (continued).

County	Employees Per Establishment				Sales Per Establishment				Sales Per Employee				Sales \$s Per Payroll \$			
	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977
Floyd	8.5	7.2	6.4	5.5	2533553	2517940	2133647	1537655	298439	351668	331756	279574	14.93	20.82	23.02	23.83
Franklin	7.3	6.2	8.2	7.3	3493833	2413974	2968478	1903362	478607	392013	362202	261573	23.18	22.58	27.35	25.39
Fremont	9.6	9.6	8.3	6.4	4934762	3568042	3698000	2361034	515572	372317	444568	368118	23.26	25.37	28.10	30.93
Greene	8.3	6.5	6.9	7.3	4074929	1712840	2173966	1549257	489691	262706	316809	210988	22.65	15.96	20.85	20.44
Grundy	9.4	6.8	8.8	6.9	4751654	2636947	2749314	1831170	506324	389899	312980	264003	21.95	19.64	19.09	24.49
Guthrie	7.6	7.4	6.5	8.0	3102481	2664280	2721714	11114848	406636	360038	4196481	1389356	27.16	28.24	34.39	175.00
Hamilton	16.1	17.2	12.4	12.2	12107805	6281531	7317660	4696500	753293	364254	592044	384959	30.25	20.48	33.84	34.50
Hancock	8.2	6.6	7.3	7.1	4384897	2453226	3316180	3818811	534409	373624	451796	536862	22.90	18.30	25.71	47.86
Hardin	14.9	12.4	13.2	9.9	5082600	4555464	4593700	3043592	340236	366348	347631	308829	14.83	18.88	21.04	24.54
Harrison	10.6	8.7	9.6	6.7	3221290	2850471	4092351	2128286	304451	327419	424137	318917	14.17	20.17	34.74	42.85
Henry	7.6	7.8	7.5	6.9	2317596	1821860	2299711	1517966	303418	232463	305271	220591	16.47	15.43	19.97	16.16
Howard	6.4	9.9	6.8	6.9	3113917	3519778	2498061	1920231	489524	355933	364761	278398	27.46	23.85	25.54	31.14
Humboldt	6.3	6.3	6.9	6.1	2881116	2846450	2575000	1746115	458844	455432	372110	288248	19.44	23.79	24.36	24.32
Ida	7.2	6.5	5.9	5.0	5137308	2869593	2169667	1120025	718118	442737	364728	226268	30.21	23.29	23.24	21.05
Iowa	6.9	6.9	7.1	7.1	2061231	1358525	1737121	1117875	296635	197604	244979	157818	16.87	12.91	17.27	16.92
Jackson	5.4	5.6	8.0	6.8	1225508	1576351	1534140	1213949	226533	279043	191768	177725	14.78	22.17	17.33	20.10
Jasper	21.8	10.9	9.9	9.0	6878230	4097841	3029973	2082696	314994	376882	307507	232063	18.53	21.06	20.58	21.98
Jefferson	6.6	7.6	7.7	5.8	1235254	1550714	1377814	1094894	188320	203168	179533	189191	10.60	12.55	16.03	20.47
Johnson	11.8	11.0	9.3	9.7	3692140	3299187	2615315	1974626	312154	299030	281085	203041	12.11	14.74	16.32	16.31
Jones	7.2	7.3	7.7	5.7	1824453	1544236	1568903	1036164	254463	210230	203073	180957	14.73	14.83	16.64	18.71
Keokuk	6.4	4.9	5.2	4.9	3029974	1790089	1760821	1671862	470793	361895	338852	340239	20.79	18.77	24.41	35.42
Kossuth	7.5	7.2	7.7	7.2	4002597	3646333	3430646	2824865	532534	507882	448084	394064	25.19	30.31	30.07	34.20
Lee	7.3	7.4	7.1	7.1	2009466	1765556	2395185	1580160	276254	238748	336239	221933	14.98	15.95	21.13	19.16
Linn	11.7	10.7	11.0	11.6	4800136	4008280	3061427	2507187	409277	373265	278439	216306	15.15	17.07	15.43	15.69
Louisa	10.1	9.4	9.4	9.7	4792824	3183235	3686500	3243250	473709	338219	391802	334356	24.66	18.99	25.81	31.50
Lucas	9.9	9.7	6.7	7.3	4354385	2117267	1642696	1075286	438814	217527	245338	147588	36.38	21.89	22.86	19.19
Lyon	6.4	6.1	5.6	5.5	3498206	2634029	1557528	1791516	543100	430799	276212	324778	25.83	25.69	20.84	29.67
Madison	6.7	6.3	7.0	6.9	2083192	1777739	2578273	1594174	309503	283944	365948	232063	16.46	16.13	27.38	25.03
Mahaska	10.1	9.1	8.0	8.1	3694180	3323516	2577407	1650621	366486	366651	321495	204392	16.14	20.58	23.99	18.27
Marion	7.8	8.1	7.9	7.2	2441414	2416113	2442267	1814000	313973	299192	308497	252420	13.29	18.72	20.27	22.47
Marshall	9.1	8.5	7.8	7.1	2507071	1647442	2467110	1954495	276733	194082	315319	274574	11.25	9.64	21.71	22.31
Mills	5.7	5.9	6.6	6.3	2059826	1390300	1894955	1556920	364431	237658	285541	247917	18.42	15.52	24.10	23.89
Mitchell	7.0	7.1	6.0	5.1	3156957	2460561	1925659	1406260	452369	347872	320943	274660	22.76	22.67	21.50	23.55

Table 3. Employees and Sales Per Establishment, Sales Per Employee, and Sales Dollars Per Payroll Dollar in Wholesale Trade in Iowa Counties, 1977-1992 (continued).

County	Employees Per Establishment				Sales Per Establishment				Sales Per Employee				Sales \$s Per Payroll \$			
	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977	1992	1987	1982	1977
Monona	7.7	6.7	7.0	6.4	2249688	2180263	1797286	1135926	291457	327470	255885	178834	17.97	20.47	17.09	18.91
Monroe	0	5.1	7.0	8.3	0	2419059	3025211	1890857	0	478186	432173	226903	0	38.04	44.94	34.74
Montgomery	7.8	7.0	6.9	7.6	3188172	2583270	1880044	1362650	409102	370469	271160	179296	23.41	26.82	26.24	20.94
Muscatine	6.1	5.5	8.9	6.4	2617145	2143461	3045425	4224295	426910	392537	342025	661637	22.42	22.51	18.97	57.29
O'Brien	11.4	8.0	7.2	5.6	5433082	4017931	2372950	1701703	476175	502241	328815	303368	23.28	25.56	23.10	25.03
Osceola	6.9	7.0	5.9	5.6	2744778	1659455	1971258	1777560	398435	238614	335764	317421	20.33	17.60	24.68	28.76
Page	6.3	12.3	8.0	6.6	1811821	2244550	2350792	1445365	289594	182855	293158	219947	17.52	19.38	26.71	26.43
Palo Alto	8.2	8.0	7.5	7.8	4081606	4337393	4203848	2839138	497022	539764	557137	365933	23.33	28.40	27.88	34.35
Plymouth	15.1	11.6	11.1	10.6	5505758	5345592	3993797	1747132	363744	461665	359977	164095	14.57	24.13	20.28	13.39
Pocahontas	16.0	10.9	11.2	8.5	11438750	5034939	7477868	3109488	713330	460258	670186	366323	32.89	21.21	37.20	30.89
Polk	13.5	13.4	14.1	14.4	6190089	5441795	6717495	4776667	459110	404906	474828	332716	15.83	16.91	24.70	23.57
Pottawattamie	9.7	0	8.6	9.2	6994181	0	3396081	2693181	719401	0	395064	292694	30.70	0	25.54	25.60
Poweshiek	7.7	6.9	7.1	7.0	2658064	1854647	1913527	1506869	345108	269479	269856	216790	17.68	17.08	19.15	21.24
Ringgold	4.1	3.8	5.4	5.6	1456118	2548125	1409100	862167	353629	679500	260944	154418	24.44	41.35	25.41	19.05
Sac	6.8	5.9	6.6	6.2	2593179	1544400	2321800	1424887	383161	261025	349345	228885	21.77	16.18	24.07	21.98
Scott	10.7	10.2	10.3	11.9	4754418	4836326	4145135	5046889	443584	472577	402133	424291	16.35	21.28	21.05	29.90
Shelby	8.5	8.2	9.1	7.9	2125600	1987583	2345106	1395567	251253	243378	258732	176654	12.97	19.03	19.83	19.36
Sioux	10.5	9.6	8.4	7.9	3956594	3159924	2673926	1994784	377352	328034	318971	253672	17.55	18.23	21.77	24.15
Story	8.5	9.5	8.3	8.0	2564514	2395722	2529268	1734293	300275	251446	303262	216787	14.50	13.63	18.72	18.83
Tama	7.1	6.3	6.6	6.6	4176152	6259711	3139218	1798672	589273	988375	473033	272384	33.33	62.93	35.79	25.25
Taylor	5.8	9.1	6.8	5.9	2474556	3261217	1858667	1168735	428288	358890	272000	199683	28.96	29.86	24.63	26.62
Union	10.8	8.1	7.9	7.2	3186786	3128370	2268515	1706211	295464	383936	285729	236628	14.33	25.31	19.49	27.07
Van Buren	4.4	3.2	0	5.6	1867800	782684	0	1228536	429379	247850	0	217715	28.91	22.57	0	24.28
Wapello	7.9	8.2	8.2	8.2	2619564	1905508	2284354	1320928	333509	231944	278058	161890	15.76	13.54	18.86	16.14
Warren	7.9	5.9	7.5	6.6	2122373	1679056	1931260	1055686	267262	282458	256135	160648	12.57	15.46	22.72	14.01
Washington	7.1	6.5	5.8	5.7	2365953	1866329	2170711	1396282	333526	286825	376136	246744	18.18	18.28	26.23	24.28
Wayne	6.1	6.7	7.7	5.8	3399050	3253105	3157885	1396189	561826	482883	408483	242531	36.81	40.64	34.56	32.05
Webster	8.7	8.0	8.4	9.8	4509460	2140303	2239699	2150874	519438	268771	267459	218879	21.72	13.69	16.21	18.08
Winnebago	6.9	0	6.8	6.0	4150200	0	2873091	1703619	599740	0	425166	285068	30.55	0	27.10	25.54
Winneshiek	8.4	7.9	8.9	6.0	2512180	3191212	2184036	1074700	299783	403754	244612	179616	14.93	24.66	19.55	20.90
Woodbury	0	0	0	10.4	0	0	0	4633161	0	0	0	444169	0	0	0	35.28
Worth	8.4	5.9	5.1	5.8	3471739	1814160	2832227	1664607	413731	306446	556330	287710	22.97	19.14	28.57	26.85
Wright	8.3	7.8	7.1	8.4	4659564	3088214	3031300	2307097	562610	395442	424552	275607	24.69	25.04	29.14	22.88
State of Iowa	10.0	9.4	9.3	9.0	4220360	3490167	3493256	2626051	424123	371294	375848	292869	17.95	19.11	23.12	24.34

Comparisons across all counties on sales, payrolls, and employees are more difficult because the census bureau must protect the confidentiality of individual businesses. Caution is urged in drawing conclusions because data for some key counties are suppressed.

**Note:** Readers can review the original publication for further details (1992 CENSUS OF WHOLESALE TRADE, U.S. Bureau of the Census, Geographic Area Series, Iowa WC92-A-16; only the year changes in the title of this publication from earlier censuses). Much additional information, including data on incorporated places with at least 2,500 residents, is included in those volumes.

Figure 1. Number of wholesale trade establishments in Iowa, 1977-1992.

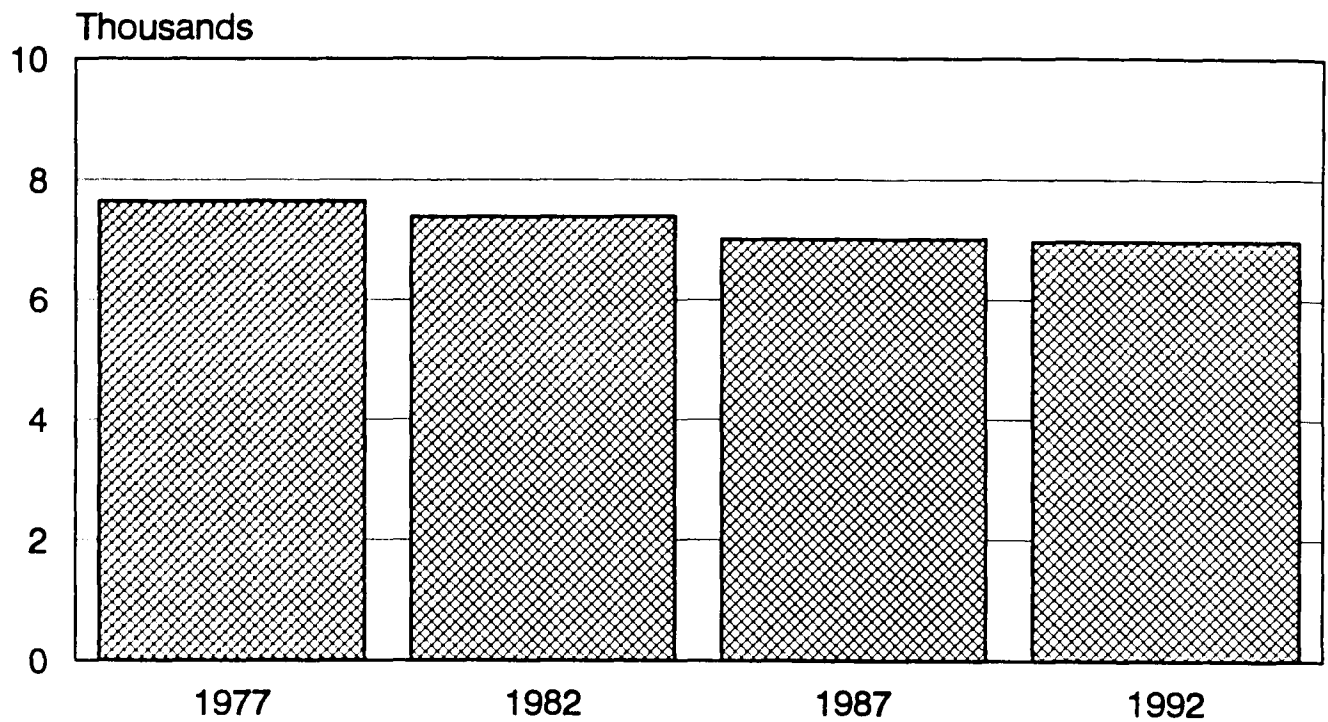
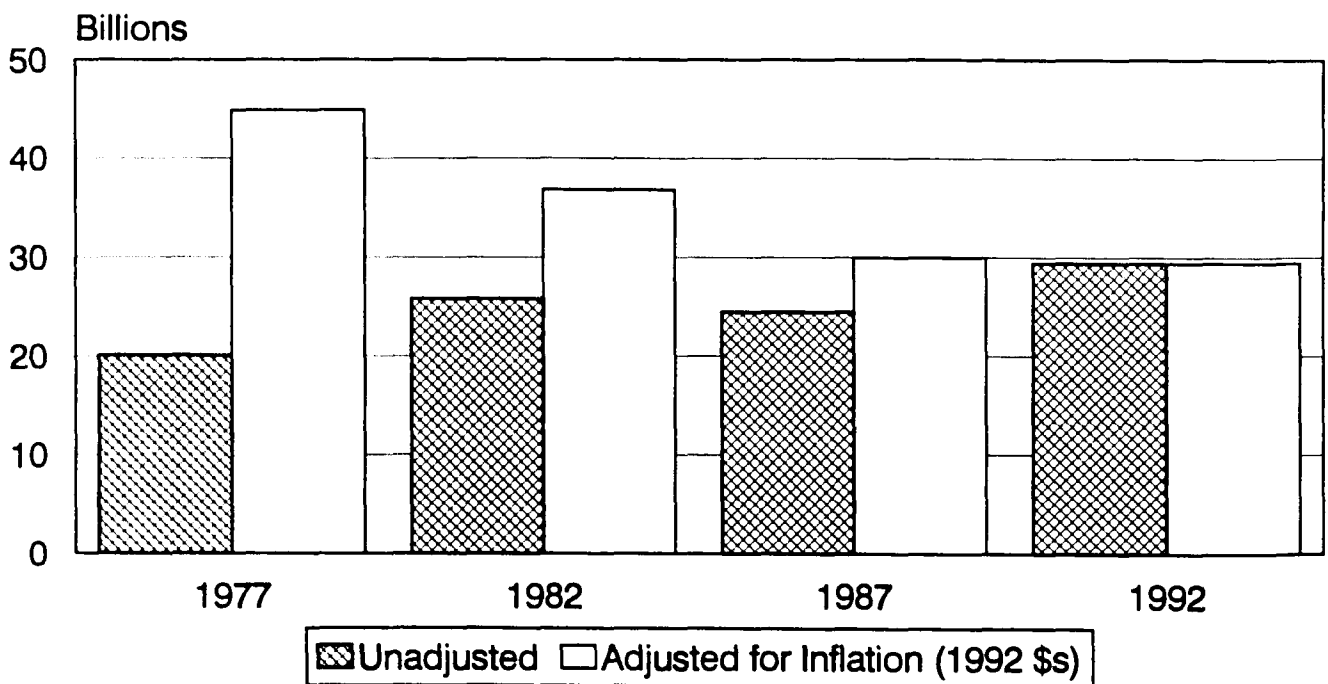


Figure 2. Sales in wholesale trade establishments in Iowa, 1977-1992.



## Service Industries in Iowa's Counties:

1982 - 1992

Sandra Charvat Burke, Iowa State University  
Willis Goudy, Iowa State University  
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A census of service industries is conducted every five years by the U.S. Bureau of the Census. This is part of a series of economic censuses completed in years ending in 2 and 7. The most recent data were collected early in 1993 covering the 1992 calendar year. Service industries are defined as establishments that are primarily engaged in providing some type of service to individuals, other businesses, government agencies, and other organizations; those included here are subject to federal income tax. Among the services included here are lodging, amusement and recreation, health, personal, legal, social, business, automotive and miscellaneous repair, engineering, accounting, and research.

### Establishments and Sales

Iowa had 17,774 service establishments in 1992 (Table 1). Linn, Polk, and Scott counties each had more than 1,000 service establishments with Polk's total of 3,098 more than twice that of the other two. The number of service firms was much lower in most counties; for example, 21 had fewer than 50 establishments, with four of these (Adams, Ringgold, Taylor, Worth) reporting fewer than 25.

Service establishments increased by 1,387 between 1987 and 1992 in the state (Figure 1). An increase of similar magnitude (+1,796) occurred between 1982 and 1987. More than two-thirds (71) of Iowa's 99 counties noted gains in services between 1987 and 1992. Polk alone increased by 411; Linn and Scott were the only others to gain at least 100 firms from 1987 to 1992. Of the 26 counties with fewer service businesses in 1992 than in 1987, only Greene and Pocahontas had declines exceeding 10.

Sales by service firms increased statewide from 1987 to 1992 as well as from 1982 to 1987 (Table 1). Sales for 1992 totaled more than \$7.7 billion, up more than \$2.5 billion (+50.6%) from 1987. Polk's share in 1992 was \$2.1 billion; Linn's sales were \$797 million and Scott's totaled \$595 million. In contrast, service receipts were less than \$10 million in 20 counties; four (Adams, Taylor, Van Buren, Worth) had sales of less than \$5 million.

Cedar, Clarke, Crawford, Lucas, Taylor, and Worth had lower sales from service establishments in 1992 than in 1987; Lucas's decline topped \$2 million. Not surprisingly, large sales gains occurred in Iowa's most populous counties. Increases exceeded \$100 million in Black Hawk, Dubuque, Linn, Scott, and Polk, with Polk's addition of \$846 million more than three times that of Linn and Scott, the next two highest gains.

Because inflation has affected the value of a dollar from year to year, comparisons of the 1992 sales data with those for earlier year are somewhat limited. To determine whether receipts from services were keeping pace with inflation, the figures from 1987 and 1982 were adjusted to 1992 dollars based on the consumer price index for each year. Comparing statewide sales in 1992 with the adjusted amounts for 1987 and 1982 shows gains at each of the two time periods, although they are more moderate than when the unadjusted figures are used (Table 1, Figure 1). Still, the adjusted increase between 1987 and 1992 (+\$1.4 billion, 23.0%) represents a real gain beyond inflation. So does that from 1982 to 1987 (+\$1.5 billion, 30.6%). These increases in adjusted sales suggest a strong service sector for the state as a whole.



Table 1. Establishments, Sales (unadjusted and adjusted to 1992 dollars), and Per Capita Income (unadjusted and adjusted to 1992 dollars) in Service Industries in Iowa Counties, 1982-1992.

County	Establishments			Sales (in \$1,000s)			Adjusted Sales (in \$1,000s)		Per Capita Sales			Adjusted Per Capita Sales	
	1992	1987	1982	1992	1987	1982	1987	1982	1992	1987	1982	1987	1982
Adair	44	40	38	7903	5337	4490	6532	6405	942	624	485	764	692
Adams	17	26	20	4676	3604	2533	4411	3613	1004	691	456	845	650
Allamakee	71	80	68	14085	11680	6392	14296	9118	1012	825	430	1010	613
Appanoose	72	69	58	17176	11649	9732	14258	13883	1243	825	642	1010	916
Audubon	41	34	42	6792	4043	4397	4949	6272	954	532	526	651	751
Benton	102	98	79	15758	13471	7604	16488	10847	691	606	326	742	465
Black Hawk	815	772	735	376970	244004	183774	298659	262160	3031	1971	1343	2412	1916
Boone	110	116	107	25322	17364	14164	21253	20205	1000	690	544	845	775
Bremer	129	103	90	27434	19415	13796	23764	19680	1190	855	559	1046	798
Buchanan	84	69	77	16247	11988	9110	14673	12996	774	577	396	706	566
Buena Vista	134	138	132	35091	24574	18230	30078	26006	1747	1222	874	1496	1247
Butler	62	66	62	15341	11148	7686	13645	10964	972	697	441	854	629
Calhoun	55	59	60	12805	12664	9831	15501	14024	1110	1077	742	1318	1059
Carroll	139	144	123	37821	23521	17392	28789	24810	1761	1080	767	1322	1095
Cass	99	91	94	23791	20223	14762	24753	21058	1584	1312	873	1605	1245
Cedar	83	80	78	11846	12480	8948	15275	12765	670	714	483	874	689
Cerro Gordo	353	331	309	142852	107167	97559	131171	139171	3050	2263	2023	2770	2886
Cherokee	76	80	76	16449	13102	11155	16037	15913	1176	903	703	1106	1003
Chickasaw	78	69	65	16388	11910	8180	14578	11669	1235	868	538	1063	767
Clarke	43	47	37	9224	10610	6211	12987	8860	1104	1271	712	1556	1016
Clay	134	130	122	47032	36531	25917	44714	36971	2651	2110	1348	2582	1924
Clayton	87	96	82	15081	13247	9336	16214	13318	803	682	449	835	640
Clinton	304	278	227	121495	115662	98714	141569	140819	2370	2236	1751	2737	2499
Crawford	99	101	88	23874	24370	15106	29829	21549	1432	1384	802	1694	1144
Dallas	160	139	126	38175	20154	14068	24668	20068	1234	700	482	856	688
Davis	35	40	41	7936	6868	7001	8406	9987	954	803	776	982	1107
Decatur	35	30	37	9068	6720	5211	8225	7434	1114	785	544	961	776
Delaware	87	76	67	16181	9580	7390	11726	10542	884	534	395	654	563
Des Moines	288	268	239	127073	80457	58694	98479	83729	2965	1873	1292	2293	1843
Dickinson	148	135	109	51614	29713	18613	36368	26552	3385	2027	1210	2481	1726
Dubuque	536	481	445	321947	217030	139291	265643	198703	3686	2491	1514	3049	2160
Emmet	72	71	72	18529	14887	9304	18222	13272	1596	1278	708	1564	1010
Fayette	127	126	130	29018	20303	20471	24851	29203	1320	923	824	1130	1176
Floyd	103	106	98	24064	21105	16125	25832	23003	1420	1203	844	1473	1204
Franklin	64	63	49	12184	8638	6304	10573	8993	1090	732	493	896	703
Fremont	47	39	35	9636	6969	6092	8530	8690	1177	804	664	984	948
Greene	50	63	56	10019	9238	10282	11307	14668	993	878	872	1075	1244
Grundy	63	65	56	18457	10473	6821	12819	9730	1528	843	489	1032	698
Guthrie	45	47	48	7919	7719	5232	9448	7464	708	699	448	855	639
Hamilton	93	99	89	27496	18222	11292	22304	16108	1705	1099	642	1346	916
Hancock	65	60	68	19007	7224	6464	8842	9221	1534	560	476	686	679
Hardin	118	116	103	23593	17955	17185	21977	24515	1255	914	798	1119	1138
Harrison	50	54	48	13473	9671	7462	11837	10645	917	637	465	780	664
Henry	101	97	99	75502	55952	27931	68485	39845	3851	2936	1494	3593	2132
Howard	47	44	52	9868	5744	5670	7031	8088	997	567	520	694	742
Humboldt	57	58	48	12627	8717	7044	10670	10049	1195	796	588	975	839
Ida	46	50	42	11980	7295	5221	8929	7448	1446	870	597	1065	852
Iowa	69	69	73	20799	13142	12956	16086	18482	1408	894	855	1094	1220
Jackson	97	101	81	23612	16583	11823	20297	16866	1177	797	536	975	764
Jasper	160	152	134	41412	27678	21504	33878	30676	1188	801	602	980	859

Table 1. Establishments, Sales (unadjusted and adjusted to 1992 dollars), and Per Capita Income (unadjusted and adjusted to 1992 dollars) in Service Industries in Iowa Counties, 1982-1992 (continued).

County	Establishments			Sales (in \$1,000s)			Adjusted Sales (in \$1,000s)		Per Capita Sales			Adjusted Per Capita Sales	
	1992	1987	1982	1992	1987	1982	1987	1982	1992	1987	1982	1987	1982
Jefferson	166	137	77	63543	41851	12602	51225	17977	3853	2567	772	3142	1102
Johnson	590	520	398	311334	211605	120614	259002	172060	3174	2338	1425	2862	2033
Jones	80	78	85	18976	12152	12287	14874	17528	960	639	614	782	875
Keokuk	40	36	39	8918	6462	5265	7909	7511	768	543	417	665	594
Kossuth	114	100	93	19118	11946	9835	14622	14030	1049	624	464	763	662
Lee	242	215	215	69799	41974	35093	51376	50061	1787	1058	830	1295	1184
Linn	1291	1167	960	796821	545327	262802	667475	374896	4605	3318	1573	4062	2244
Louisa	43	41	31	7013	6905	4317	8452	6158	614	594	360	726	513
Lucas	38	36	43	6556	8653	5028	10591	7173	724	922	489	1129	698
Lyon	60	50	45	13724	8653	8504	10591	12131	1146	727	669	890	955
Madison	67	62	50	16870	9240	6185	11310	8823	1319	754	496	923	708
Mahaska	123	113	99	34046	26696	17953	32676	25611	1583	1243	806	1522	1150
Marion	139	122	118	36612	24552	17485	30051	24943	1211	830	584	1015	833
Marshall	232	218	197	83593	59534	48183	72869	68735	2212	1536	1152	1880	1643
Mills	57	51	48	17684	13477	9834	16496	14029	1322	1020	735	1249	1049
Mitchell	58	46	46	12225	6667	6323	8160	9020	1127	598	530	732	755
Monona	56	59	54	35030	18152	7225	22218	10307	3499	1755	634	2148	904
Monroe	40	41	38	7807	7542	3978	9231	5675	952	914	444	1119	634
Montgomery	76	55	67	22828	12986	10388	15895	14819	1917	1074	790	1315	1127
Muscatine	229	203	169	103652	65740	57282	80465	81715	2538	1663	1384	2035	1974
O'Brien	110	105	105	22307	14688	12083	17978	17237	1441	941	717	1151	1022
Osceola	30	29	26	6753	4043	3835	4949	5471	936	549	472	672	673
Page	110	91	100	31305	16492	13837	20186	19739	1878	972	744	1190	1061
Palo Alto	58	56	49	12332	8799	7284	10770	10391	1173	801	582	981	831
Plymouth	118	109	95	32941	19376	14994	23716	21389	1393	822	614	1007	876
Pocahontas	49	61	63	9219	7713	5524	9441	7880	991	770	504	943	719
Polk	3098	2687	2270	2103914	1258180	780374	1540000	1113230	6225	4022	2562	4923	3655
Pottawattamie	470	439	356	190477	133763	69712	163725	99447	2281	1596	811	1954	1157
Poweshiek	124	115	85	33652	25512	12003	31226	17123	1776	1361	629	1665	897
Ringgold	22	22	20	5147	4274	3469	5231	4949	954	787	568	963	810
Sac	67	62	62	15002	8212	7003	10051	9990	1233	654	510	800	727
Scott	1165	1059	928	595381	357706	244764	437829	349164	3839	2370	1533	2901	2187
Shelby	73	67	61	21940	16290	7801	19939	11128	1657	1210	528	1480	753
Sioux	159	152	144	32147	22185	17288	27154	24662	1057	750	566	917	808
Story	420	379	324	201884	128066	95698	156752	136516	2715	1747	1324	2138	1888
Tama	67	65	69	24308	11135	8933	13629	12743	1394	625	465	765	664
Taylor	24	30	26	4595	5372	3152	6575	4496	651	725	379	888	541
Union	73	72	67	19484	16890	12087	20673	17243	1551	1314	879	1608	1254
Van Buren	30	26	25	4791	2738	2213	3351	3157	620	348	260	426	370
Wapello	191	183	170	69308	49174	36690	60188	52340	1930	1357	932	1661	1329
Warren	156	146	116	32415	31793	14690	38914	20956	870	907	423	1111	603
Washington	101	84	75	26378	14911	11480	18251	16377	1306	764	572	935	816
Wayne	36	29	31	5233	4525	4060	5539	5792	750	626	510	766	728
Webster	279	261	262	102200	61879	55367	75739	78983	2547	1505	1233	1842	1759
Winnebago	68	57	59	22720	8301	11029	10160	15733	1906	690	879	844	1254
Winneshiek	116	109	86	23595	16881	11652	20662	16622	1123	805	534	986	762
Woodbury	717	672	609	328560	278072	151536	340357	216171	3287	2873	1507	3516	2150
Worth	23	25	30	3277	3714	3044	4546	4342	416	454	340	555	485
Wright	85	79	92	20883	12365	10668	15135	15218	1464	857	673	1049	960
State of Iowa	17774	16387	14591	7710939	5120964	3363923	6268010	4798749	2746	1851	1165	2265	1661

Table 2. Percent of Total Sales from Service Industries and Percent of Total Population in Iowa Counties, 1982-1992.

County	1992		1987		1982	
	Sales	Pop	Sales	Pop	Sales	Pop
Adair	0.10	0.30	0.10	0.31	0.13	0.32
Adams	0.06	0.17	0.07	0.19	0.08	0.19
Allamakee	0.18	0.50	0.23	0.51	0.19	0.51
Appanoose	0.22	0.49	0.23	0.51	0.29	0.52
Audubon	0.09	0.25	0.08	0.27	0.13	0.29
Benton	0.20	0.81	0.26	0.80	0.23	0.81
Black Hawk	4.89	4.43	4.76	4.47	5.46	4.74
Boone	0.33	0.90	0.34	0.91	0.42	0.90
Bremer	0.36	0.82	0.38	0.82	0.41	0.85
Buchanan	0.21	0.75	0.23	0.75	0.27	0.80
Buena Vista	0.46	0.72	0.48	0.73	0.54	0.72
Butler	0.20	0.56	0.22	0.58	0.23	0.60
Calhoun	0.17	0.41	0.25	0.42	0.29	0.46
Carroll	0.49	0.76	0.46	0.79	0.52	0.78
Cass	0.31	0.53	0.39	0.56	0.44	0.59
Cedar	0.15	0.63	0.24	0.63	0.27	0.64
Cerro Gordo	1.85	1.67	2.09	1.71	2.90	1.67
Cherokee	0.21	0.50	0.26	0.52	0.33	0.55
Chickasaw	0.21	0.47	0.23	0.50	0.24	0.53
Clarke	0.12	0.30	0.21	0.30	0.18	0.30
Clay	0.61	0.63	0.71	0.63	0.77	0.67
Clayton	0.20	0.67	0.26	0.70	0.28	0.72
Clinton	1.58	1.83	2.26	1.87	2.93	1.95
Crawford	0.31	0.59	0.48	0.64	0.45	0.65
Dallas	0.50	1.10	0.39	1.04	0.42	1.01
Davis	0.10	0.30	0.13	0.31	0.21	0.31
Decatur	0.12	0.29	0.13	0.31	0.15	0.33
Delaware	0.21	0.65	0.19	0.65	0.22	0.65
Des Moines	1.65	1.53	1.57	1.55	1.74	1.57
Dickinson	0.67	0.54	0.58	0.53	0.55	0.53
Dubuque	4.18	3.11	4.24	3.15	4.14	3.19
Emmet	0.24	0.41	0.29	0.42	0.28	0.46
Fayette	0.38	0.78	0.40	0.80	0.61	0.86
Floyd	0.31	0.60	0.41	0.63	0.48	0.66
Franklin	0.16	0.40	0.17	0.43	0.19	0.44
Fremont	0.12	0.29	0.14	0.31	0.18	0.32
Greene	0.13	0.36	0.18	0.38	0.31	0.41
Grundy	0.24	0.43	0.20	0.45	0.20	0.48
Guthrie	0.10	0.40	0.15	0.40	0.16	0.40
Hamilton	0.36	0.57	0.36	0.60	0.34	0.61
Hancock	0.25	0.44	0.14	0.47	0.19	0.47
Hardin	0.31	0.67	0.35	0.71	0.51	0.75
Harrison	0.17	0.52	0.19	0.55	0.22	0.56
Henry	0.98	0.70	1.09	0.69	0.83	0.65
Howard	0.13	0.35	0.11	0.37	0.17	0.38
Humboldt	0.16	0.38	0.17	0.40	0.21	0.41
Ida	0.16	0.30	0.14	0.30	0.16	0.30
Iowa	0.27	0.53	0.26	0.53	0.39	0.52
Jackson	0.31	0.71	0.32	0.75	0.35	0.76
Jasper	0.54	1.24	0.54	1.25	0.64	1.24



Table 3. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Pay Per Employee (unadjusted and adjusted to 1992 dollars) in Service Industries in Iowa Counties, 1982-1992.

County	Employees			Payroll (in \$1,000s)			Adjusted Payroll (in \$1,000s)		Pay Per Employee			Adjusted Pay Per Employee	
	1992	1987	1982	1992	1987	1982	1987	1982	1992	1987	1982	1987	1982
Adair	210	183	194	2268	1698	1508	2078	2151	10800	9279	7773	11355	11088
Adams	195	161	123	2274	1269	833	1553	1188	11662	7882	6772	9646	9659
Allamakee	317	308	227	3536	3873	1799	4741	2566	11155	12575	7925	15393	11304
Appanoose	376	366	348	4895	3922	3443	4800	4912	13019	10716	9894	13115	14115
Audubon	198	159	167	2136	1286	1203	1574	1716	10788	8088	7204	9899	10275
Benton	364	424	332	4558	4182	2465	5119	3516	12522	9863	7425	12073	10590
Black Hawk	7482	6604	5284	146223	98743	72535	120860	103474	19543	14952	13727	18301	19583
Boone	579	545	441	9352	5911	5327	7235	7599	16152	10846	12079	13275	17231
Bremer	611	598	493	8109	5619	4251	6878	6064	13272	9396	8623	11502	12300
Buchanan	321	368	331	4385	3553	3535	4349	5043	13660	9655	10680	11818	15236
Buena Vista	832	810	658	12270	8988	6057	11001	8641	14748	11096	9205	13581	13132
Butler	526	472	336	5052	3866	2512	4732	3583	9605	8191	7476	10025	10664
Calhoun	353	361	318	4881	4107	2379	5027	3394	13827	11377	7481	13925	10673
Carroll	970	658	532	9511	5656	4337	6923	6187	9805	8596	8152	10521	11630
Cass	511	650	468	7639	6942	4622	8497	6593	14949	10680	9876	13072	14088
Cedar	267	421	348	2712	3226	2822	3949	4026	10157	7663	8109	9380	11569
Cerro Gordo	2741	2527	2524	58801	36949	31577	45225	45046	21452	14622	12511	17897	17847
Cherokee	483	485	464	6115	4378	3798	5359	5418	12660	9027	8185	11049	11677
Chickasaw	391	344	299	4331	3490	2273	4272	3243	11077	10145	7602	12419	10846
Clarke	193	251	200	1938	2426	1502	2969	2143	10041	9665	7510	11829	10715
Clay	1070	997	795	20254	12121	8368	14836	11937	18929	12157	10526	14881	15015
Clayton	405	435	387	4949	4134	3122	5060	4454	12220	9503	8067	11632	11509
Clinton	3332	2742	2625	43728	34701	27818	42474	39683	13124	12655	10597	15490	15117
Crawford	722	625	507	8768	6813	4881	8339	6963	12144	10901	9627	13342	13734
Dallas	955	638	582	13294	6262	4449	7665	6347	13920	9815	7644	12014	10905
Davis	218	243	228	2358	2189	2231	2679	3183	10817	9008	9785	11025	13961
Decatur	283	243	243	3301	2186	1890	2676	2696	11664	8996	7778	11012	11095
Delaware	346	250	225	5423	2975	2020	3641	2882	15673	11900	8978	14564	12809
Des Moines	2356	1822	1999	47918	27963	23502	34226	33526	20339	15347	11757	18785	16771
Dickinson	1238	845	582	17737	8502	5046	10406	7198	14327	10062	8670	12315	12368
Dubuque	7858	5152	3923	150776	91141	56121	111556	80058	19188	17690	14306	21653	20407
Emmet	539	405	320	7107	5020	3100	6144	4422	13186	12395	9688	15170	13819
Fayette	674	654	758	9930	7365	7331	9015	10458	14733	11261	9672	13784	13797
Floyd	738	682	599	9701	7742	5946	9476	8482	13145	11352	9927	13894	14160
Franklin	302	290	255	3518	2916	1820	3569	2596	11649	10055	7137	12307	10180
Fremont	295	305	270	3552	2603	2371	3186	3382	12041	8534	8781	10446	12526
Greene	276	307	329	3153	2845	2876	3482	4103	11424	9267	8742	11342	12471
Grundy	391	319	271	7315	3651	2387	4469	3405	18708	11445	8808	14009	12565
Guthrie	230	346	308	2448	2477	1672	3032	2385	10643	7159	5429	8763	7744
Hamilton	641	673	478	7986	6416	3345	7853	4772	12459	9533	6998	11669	9983
Hancock	577	315	343	8915	2354	2042	2881	2913	15451	7473	5953	9146	8493
Hardin	571	610	601	6555	5808	4924	7109	7024	11480	9521	8193	11654	11687
Harrison	418	393	393	4911	3514	2768	4301	3949	11749	8941	7043	10944	10048
Henry	1164	1523	1233	18703	26987	12636	33032	18026	16068	17720	10248	21689	14620
Howard	269	182	220	3031	1751	1448	2143	2066	11268	9621	6582	11775	9391
Humboldt	333	295	326	3857	2618	2489	3204	3551	11583	8875	7635	10861	10893
Ida	414	255	187	3821	2320	1787	2840	2549	9229	9098	9556	11137	13631
Iowa	554	524	525	6642	3971	3694	4860	5270	11989	7578	7036	9275	10038
Jackson	646	566	431	7745	5153	3900	6307	5563	11989	9104	9049	11143	12907
Jasper	1164	992	877	14865	9627	6873	11783	9805	12771	9705	7837	11878	11180

Table 3. Employees, Annual Payroll (unadjusted and adjusted to 1992 dollars), and Pay Per Employee (unadjusted and adjusted to 1992 dollars) in Service Industries in Iowa Counties, 1982-1992 (continued).

County	Employees			Payroll (in \$1,000s)			Adjusted Payroll (in \$1,000s)			Pay Per Employee			Adjusted Pay Per Employee	
	1992	1987	1982	1992	1987	1982	1987	1982	1992	1987	1982	1987	1982	
Jefferson	1337	1024	530	26437	15957	4734	19531	6753	19773	15583	8932	19073	12742	
Johnson	6653	4518	3386	104888	72801	42000	89108	59914	15766	16114	12404	19723	17695	
Jones	471	395	555	5996	3557	3915	4354	5585	12730	9005	7054	11023	10063	
Keokuk	320	284	258	3625	2162	1652	2646	2357	11328	7613	6403	9317	9136	
Kossuth	416	307	291	4295	2875	2196	3519	3133	10325	9365	7546	11463	10766	
Lee	1981	1595	1321	25468	14344	11350	17557	16191	12856	8993	8592	11008	12257	
Linn	18578	11320	7758	309745	174630	98540	213745	140571	16673	15427	12702	18882	18119	
Louisa	254	311	204	2482	2265	1379	2772	1967	9772	7283	6760	8913	9642	
Lucas	125	248	232	1964	2754	1800	3371	2568	15712	11105	7759	13593	11069	
Lyon	289	276	276	4389	3187	3168	3901	4519	15187	11547	11478	14134	16373	
Madison	476	363	296	5475	3025	2178	3703	3107	11502	8333	7358	10201	10497	
Mahaska	805	781	644	11125	8704	6249	10654	8914	13820	11145	9703	13641	13842	
Marion	898	713	656	12520	8248	5660	10095	8074	13942	11568	8628	14158	12308	
Marshall	1966	1370	1551	36350	20417	16928	24990	24148	18489	14903	10914	18241	15569	
Mills	688	502	465	7474	5477	3798	6704	5418	10863	10910	8168	13355	11652	
Mitchell	250	209	213	3002	2241	2227	2743	3177	12008	10722	10455	13124	14915	
Monona	457	468	307	7293	4187	2512	5125	3583	15958	8947	8182	10951	11671	
Monroe	241	295	190	2874	2315	1341	2834	1913	11925	7847	7058	9607	10068	
Montgomery	624	364	356	7791	4784	3375	5856	4815	12486	13143	9480	16088	13525	
Muscatine	2517	1942	1792	47330	29542	27766	36159	39609	18804	15212	15494	18619	22103	
O'Brien	684	472	531	7390	4580	4201	5606	5993	10804	9703	7911	11877	11286	
Osceola	228	137	183	2298	1224	1269	1498	1810	10079	8934	6934	10934	9891	
Page	726	454	435	9388	5444	4412	6663	6294	12931	11991	10143	14676	14469	
Palo Alto	385	339	278	4739	3152	2370	3858	3381	12309	9298	8525	11381	12162	
Plymouth	676	672	544	10238	6346	5590	7767	7974	15145	9443	10276	11558	14658	
Pocahontas	297	305	323	3432	2577	2068	3154	2950	11556	8449	6402	10341	9133	
Polk	35400	28391	21811	823288	466555	288151	571059	411057	23257	16433	13211	20114	18846	
Pottawattamie	4073	3377	2323	68926	46959	26841	57477	38290	16923	13906	11554	17020	16483	
Poweshiek	728	576	464	14251	7724	3922	9454	5595	19576	13410	8453	16413	12058	
Ringgold	183	188	184	1914	1540	1465	1885	2090	10459	8191	7962	10027	11359	
Sac	435	292	284	4186	2614	2298	3200	3278	9623	8952	8092	10959	11542	
Scott	12339	9535	7762	217802	134313	92846	164398	132448	17652	14086	11962	17242	17064	
Shelby	668	603	309	7934	6530	2787	7993	3976	11877	10829	9019	13255	12867	
Sioux	821	672	627	9218	6516	4962	7976	7078	11228	9696	7914	11869	11289	
Story	4325	3382	2705	77324	46707	32268	57169	46031	17878	13810	11929	16904	17017	
Tama	576	397	359	6914	3173	2621	3884	3739	12003	7992	7301	9783	10415	
Taylor	178	245	180	1655	2060	1260	2521	1797	9298	8408	7000	10290	9983	
Union	487	543	470	7729	6243	4472	7641	6379	15871	11497	9515	14072	13572	
Van Buren	75	60	51	1014	657	363	804	518	13520	10950	7118	13400	10157	
Wapello	1603	1243	1150	28539	18596	14441	22761	20601	17803	14961	12557	18311	17914	
Warren	852	936	602	11640	9541	4971	11678	7091	13662	10193	8257	12476	11779	
Washington	671	499	444	7941	4486	3184	5491	4542	11835	8990	7171	11004	10230	
Wayne	144	175	174	1799	1481	1537	1813	2193	12493	8463	8833	10360	12603	
Webster	2265	1939	1856	44750	23760	21017	29082	29981	19757	12254	11324	14998	16154	
Winnebago	429	297	621	6884	2594	3526	3175	5030	16047	8734	5678	10690	8100	
Winneshiek	643	510	372	7223	6164	4303	7545	6138	11233	12086	11567	14794	16500	
Woodbury	5764	6608	3969	119039	103841	52747	127100	75245	20652	15714	13290	19234	18958	
Worth	72	137	147	860	1074	852	1315	1215	11944	7839	5796	9599	8265	
Wright	558	449	399	7368	4568	3451	5591	4923	13204	10174	8649	12452	12338	
State of Iowa	162530	131041	105745	2899453	1828700	1208598	2238311	1724106	17839	13955	11429	17081	16304	

Table 4. Employees and Sales Per Establishment, Sales Per Employee, and Sales Per Payroll in Service Industries in Iowa Counties, 1982-1992.

County	Employees Per Establishment			Sales Per Establishment			Sales Per Employee			Sales \$s Per Payroll \$		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Adair	4.8	4.6	5.1	179614	133425	118158	37633	29164	23144	3.48	3.14	2.98
Adams	11.5	6.2	6.2	275059	138615	126650	23979	22385	20593	2.06	2.84	3.04
Allamakee	4.5	3.9	3.3	198380	146000	94000	44432	37922	28159	3.98	3.02	3.55
Appanoose	5.2	5.3	6.0	238556	168826	167793	45681	31828	27966	3.51	2.97	2.83
Audubon	4.8	4.7	4.0	165659	118912	104690	34303	25428	26329	3.18	3.14	3.66
Benton	3.6	4.3	4.2	154490	137459	96253	43291	31771	22904	3.46	3.22	3.08
Black Hawk	9.2	8.6	7.2	462540	316067	250033	50384	36948	34779	2.58	2.47	2.53
Boone	5.3	4.7	4.1	230200	149690	132374	43734	31861	32118	2.71	2.94	2.66
Bremer	4.7	5.8	5.5	212667	188495	153289	44900	32467	27984	3.38	3.46	3.25
Buchanan	3.8	5.3	4.3	193417	173739	118312	50614	32576	27523	3.71	3.37	2.58
Buena Vista	6.2	5.9	5.0	261873	178072	138106	42177	30338	27705	2.86	2.73	3.01
Butler	8.5	7.2	5.4	247435	168909	123968	29165	23619	22875	3.04	2.88	3.06
Calhoun	6.4	6.1	5.3	232818	214644	163850	36275	35080	30915	2.62	3.08	4.13
Carroll	7.0	4.6	4.3	272094	163340	141398	38991	35746	32692	3.98	4.16	4.01
Cass	5.2	7.1	5.0	240313	222231	157043	46558	31112	31543	3.11	2.91	3.19
Cedar	3.2	5.3	4.5	142723	156000	114718	44367	29644	25713	4.37	3.87	3.17
Cerro Gordo	7.8	7.6	8.2	404680	323767	315725	52117	42409	38653	2.43	2.90	3.09
Cherokee	6.4	6.1	6.1	216434	163775	146776	34056	27014	24041	2.69	2.99	2.94
Chickasaw	5.0	5.0	4.6	210103	172609	125846	41913	34622	27358	3.78	3.41	3.60
Clarke	4.5	5.3	5.4	214512	225745	167865	47793	42271	31055	4.76	4.37	4.14
Clay	8.0	7.7	6.5	350985	281008	212434	43955	36641	32600	2.32	3.01	3.10
Clayton	4.7	4.5	4.7	173345	137990	113854	37237	30453	24124	3.05	3.20	2.99
Clinton	11.0	9.9	11.6	399655	416050	434863	36463	42182	37605	2.78	3.33	3.55
Crawford	7.3	6.2	5.8	241152	241287	171659	33066	38992	29795	2.72	3.58	3.09
Dallas	6.0	4.6	4.6	238594	144993	111651	39974	31589	24172	2.87	3.22	3.16
Davis	6.2	6.1	5.6	226743	171700	170756	36404	28263	30706	3.37	3.14	3.14
Decatur	8.1	8.1	6.6	259086	224000	140838	32042	27654	21444	2.75	3.07	2.76
Delaware	4.0	3.3	3.4	185989	126053	110299	46766	38320	32844	2.98	3.22	3.66
Des Moines	8.2	6.8	8.4	441226	300213	245582	53936	44159	29362	2.65	2.88	2.50
Dickinson	8.4	6.3	5.3	348743	220096	170761	41691	35163	31981	2.91	3.49	3.69
Dubuque	14.7	10.7	8.8	600647	451206	313013	40971	42125	35506	2.14	2.38	2.48
Emmet	7.5	5.7	4.4	257347	209676	129222	34377	36758	29075	2.61	2.97	3.00
Fayette	5.3	5.2	5.8	228488	161135	157469	43053	31044	27007	2.92	2.76	2.79
Floyd	7.2	6.4	6.1	233631	199104	164541	32607	30946	26920	2.48	2.73	2.71
Franklin	4.7	4.6	5.2	190375	137111	128653	40344	29786	24722	3.46	2.96	3.46
Fremont	6.3	7.8	7.7	205021	178692	174057	32664	22849	22563	2.71	2.68	2.57
Greene	5.5	4.9	5.9	200380	146635	183607	36301	30091	31252	3.18	3.25	3.58
Grundy	6.2	4.9	4.8	292968	161123	121804	47205	32831	25170	2.52	2.87	2.86
Guthrie	5.1	7.4	6.4	175978	164234	109000	34430	22309	16987	3.23	3.12	3.13
Hamilton	6.9	6.8	5.4	295656	184061	126876	42895	27076	23623	3.44	2.84	3.38
Hancock	8.9	5.3	5.0	292415	120400	95059	32941	22933	18845	2.13	3.07	3.17
Hardin	4.8	5.3	5.8	199941	154784	166845	41319	29434	28594	3.60	3.09	3.49
Harrison	8.4	7.3	8.2	269460	179093	155458	32232	24608	18987	2.74	2.75	2.70
Henry	11.5	15.7	12.5	747545	576825	282131	64864	36738	22653	4.04	2.07	2.21
Howard	5.7	4.1	4.2	209957	130545	109038	36684	31560	25773	3.26	3.28	3.92
Humboldt	5.8	5.1	6.8	221526	150293	146750	37919	29549	21607	3.27	3.33	2.83
Ida	9.0	5.1	4.5	260435	145900	124310	28937	28608	27920	3.14	3.14	2.92
Iowa	8.0	7.6	7.2	301435	190464	177479	37543	25080	24678	3.13	3.31	3.51
Jackson	6.7	5.6	5.3	243423	164188	145963	36551	29299	27432	3.05	3.22	3.03
Jasper	7.3	6.5	6.5	258825	182092	160478	35577	27901	24520	2.79	2.88	3.13

Table 4. Employees and Sales Per Establishment, Sales Per Employee, and Sales Per Payroll in Service Industries in Iowa Counties, 1982-1992 (continued).

County	Employees Per Establishment			Sales Per Establishment			Sales Per Employee			Sales \$s Per Payroll \$		
	1992	1987	1982	1992	1987	1982	1992	1987	1982	1992	1987	1982
Jefferson	8.1	7.5	6.9	382789	305482	163662	47527	40870	23777	2.40	2.62	2.66
Johnson	11.3	8.7	8.5	527685	406933	303050	46796	46836	35621	2.97	2.91	2.87
Jones	5.9	5.1	6.5	237200	155795	144553	40289	30765	22139	3.16	3.42	3.14
Keokuk	8.0	7.9	6.6	222950	179500	135000	27869	22754	20407	2.46	2.99	3.19
Kossuth	3.6	3.1	3.1	167702	119460	105753	45957	38912	33797	4.45	4.16	4.48
Lee	8.2	7.4	6.1	288426	195228	163223	35234	26316	26565	2.74	2.93	3.09
Linn	14.4	9.7	8.1	617212	467290	273752	42891	48174	33875	2.57	3.12	2.67
Louisa	5.9	7.6	6.6	163093	168415	139258	27610	22203	21162	2.83	3.05	3.13
Lucas	3.3	6.9	5.4	172526	240361	116930	52448	34891	21672	3.34	3.14	2.79
Lyon	4.8	5.5	6.1	228733	173060	188978	47488	31351	30812	3.13	2.72	2.68
Madison	7.1	5.9	5.9	251791	149032	123700	35441	25455	20895	3.08	3.05	2.84
Mahaska	6.5	6.9	6.5	276797	236248	181343	42293	34182	27877	3.06	3.07	2.87
Marion	6.5	5.8	5.6	263396	201246	148178	40771	34435	26654	2.92	2.98	3.09
Marshall	8.5	6.3	7.9	360315	273092	244584	42519	43455	31066	2.30	2.92	2.85
Mills	12.1	9.8	9.7	310246	264255	204875	25703	26847	21148	2.37	2.46	2.59
Mitchell	4.3	4.5	4.6	210776	144935	137457	48900	31900	29685	4.07	2.98	2.84
Monona	8.2	7.9	5.7	625536	307661	133796	76652	38786	23534	4.80	4.34	2.88
Monroe	6.0	7.2	5.0	195175	183951	104684	32394	25566	20937	2.72	3.26	2.97
Montgomery	8.2	6.6	5.3	300368	236109	155045	36583	35676	29180	2.93	2.71	3.08
Muscatine	11.0	9.6	10.6	452629	323842	338947	41181	33852	31965	2.19	2.23	2.06
O'Brien	6.2	4.5	5.1	202791	139886	115076	32613	31119	22755	3.02	3.21	2.88
Osceola	7.6	4.7	7.0	225100	139414	147500	29618	29511	20956	2.94	3.30	3.02
Page	6.6	5.0	4.4	284591	181231	138370	43120	36326	31809	3.33	3.03	3.14
Palo Alto	6.6	6.1	5.7	212621	157125	148653	32031	25956	26201	2.60	2.79	3.07
Plymouth	5.7	6.2	5.7	279161	177761	157832	48729	28833	27563	3.22	3.05	2.68
Pocahontas	6.1	5.0	5.1	188143	126443	87683	31040	25289	17102	2.69	2.99	2.67
Polk	11.4	10.6	9.6	679120	468247	343777	59433	44316	35779	2.56	2.70	2.71
Pottawattamie	8.7	7.7	6.5	405270	304699	195820	46766	39610	30009	2.76	2.85	2.60
Poweshiek	5.9	5.0	5.5	271387	221843	141212	46225	44292	25869	2.36	3.30	3.06
Ringgold	8.3	8.5	9.2	233955	194273	173450	28126	22734	18853	2.69	2.78	2.37
Sac	6.5	4.7	4.6	223910	132452	112952	34487	28123	24658	3.58	3.14	3.05
Scott	10.6	9.0	8.4	511057	337777	263754	48252	37515	31534	2.73	2.66	2.64
Shelby	9.2	9.0	5.1	300548	243134	127885	32844	27015	25246	2.77	2.49	2.80
Sioux	5.2	4.4	4.4	202182	145954	120056	39156	33013	27573	3.49	3.40	3.48
Story	10.3	8.9	8.3	480676	337905	295364	46678	37867	35378	2.61	2.74	2.97
Tama	8.6	6.1	5.2	362806	171308	129464	42201	28048	24883	3.52	3.51	3.41
Taylor	7.4	8.2	6.9	191458	179067	121231	25815	21927	17511	2.78	2.61	2.50
Union	6.7	7.5	7.0	266904	234583	180403	40008	31105	25717	2.52	2.71	2.70
Van Buren	2.5	2.3	2.0	159700	105308	88520	63880	45633	43392	4.72	4.17	6.10
Wapello	8.4	6.8	6.8	362869	268710	215824	43236	39561	31904	2.43	2.64	2.54
Warren	5.5	6.4	5.2	207788	217760	126638	38046	33967	24402	2.78	3.33	2.96
Washington	6.6	5.9	5.9	261168	177512	153067	39311	29882	25856	3.32	3.32	3.61
Wayne	4.0	6.0	5.6	145361	156034	130968	36340	25857	23333	2.91	3.06	2.64
Webster	8.1	7.4	7.1	366308	237084	211324	45121	31913	29831	2.28	2.60	2.63
Winnebago	6.3	5.2	10.5	334118	145632	186932	52960	27949	17760	3.30	3.20	3.13
Winneshiekie	5.5	4.7	4.3	203405	154872	135488	36695	33100	31323	3.27	2.74	2.71
Woodbury	8.0	9.8	6.5	458243	413798	248828	57002	42081	38180	2.76	2.68	2.87
Worth	3.1	5.5	4.9	142478	148560	101467	45514	27109	20707	3.81	3.46	3.57
Wright	6.6	5.7	4.3	245682	156519	115957	37425	27539	26737	2.83	2.71	3.09
State of Iowa	9.1	8.0	7.2	433833	312502	230548	47443	39079	31812	2.66	2.80	2.78



Table 5. Establishments and Sales (in \$1,000s) in Selected Service Industries in Iowa Counties, 1987-1992.

County	Hotels and Other Lodging Places				Personal Services				Business Services				Automotive Repair			
	Estab		Sales		Estab		Sales		Estab		Sales		Estab		Sales	
	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987
Adair	4	3	0*	594	3	5	0	0	1	1	0	0	4	4	727	326
Adams	1	3	0	217	3	4	0	148	0	0	0	0	1	2	0	0
Allamakee	5	4	633	0	11	14	1257	899	1	2	0	0	15	15	3456	2665
Appanoose	2	2	0	0	17	16	2425	920	7	3	1637	0	5	8	2082	1652
Audubon	1	1	0	0	4	6	160	569	5	0	316	0	7	5	1040	369
Benton	1	2	0	0	16	14	1355	1232	11	9	1435	631	16	15	3119	2161
Black Hawk	24	18	0	0	119	128	32878	22802	133	87	69789	25684	78	75	19483	18235
Boone	4	2	0	0	19	25	3310	2950	10	8	1449	922	12	11	3052	1791
Bremer	4	6	0	0	27	21	2806	1808	10	5	916	868	17	11	3558	1589
Buchanan	1	0	0	0	15	13	1566	1227	4	3	1108	0	16	13	2958	1875
Buena Vista	8	5	0	0	26	27	2616	2111	16	13	5495	1684	13	13	1815	1386
Butler	0	1	0	0	7	13	1725	1020	4	2	0	0	11	8	1372	1079
Calhoun	1	1	0	0	9	10	743	407	4	4	1225	0	3	6	428	747
Carroll	5	4	2737	0	21	23	2375	2017	10	7	3898	0	16	14	2648	1643
Cass	6	3	0	0	17	17	1611	1474	12	9	1429	1127	13	11	5000	2659
Cedar	4	6	688	0	8	11	1014	1052	5	2	1001	0	9	8	1032	1310
Cerro Gordo	14	12	7532	5897	60	54	12064	8088	36	25	18442	5626	36	35	8626	5733
Cherokee	2	3	0	0	9	9	1043	865	5	1	703	0	10	10	1395	965
Chickasaw	2	4	0	405	19	16	1182	1095	5	4	762	0	10	9	2483	2660
Clarke	4	5	1829	0	7	5	0	0	3	3	0	0	7	8	1508	1805
Clay	5	6	2080	2213	22	22	4737	7313	20	18	4509	3919	11	8	3782	1689
Clayton	8	10	835	889	13	15	1725	1196	4	7	716	990	8	10	1087	1120
Clinton	6	9	3605	0	50	48	5213	3983	43	28	29740	14157	42	30	11955	5064
Crawford	7	5	0	0	16	18	1415	1656	3	4	0	0	12	14	1659	6759
Dallas	9	8	0	0	26	25	3526	2339	20	13	2602	836	13	19	3354	2561
Davis	1	1	0	0	5	7	690	621	6	4	1213	408	2	3	0	0
Decatur	3	2	0	0	5	4	820	708	1	1	0	0	5	1	762	0
Delaware	1	2	0	0	15	11	1175	616	9	7	1117	429	9	5	1385	460
Des Moines	10	9	4700	4693	46	47	6128	4831	35	28	14113	6617	30	25	34119	23606
Dickinson	18	17	13330	8088	27	22	2351	1509	10	12	4598	1302	12	11	3681	2041
Dubuque	25	14	0	10979	85	90	16119	12611	74	55	61744	40243	76	64	25299	15237
Emmet	4	2	359	0	14	12	1458	1327	4	2	0	0	5	7	617	1231
Fayette	4	4	487	0	16	20	6102	4387	9	8	3063	1205	11	12	2589	1088
Floyd	3	3	0	975	15	15	1976	1927	12	9	1024	1320	8	9	0	1089
Franklin	3	2	0	0	9	12	1098	987	3	2	0	0	9	6	1669	868
Fremont	3	3	0	0	4	4	696	458	3	3	0	0	6	2	1022	0
Greene	2	2	0	0	8	11	1010	1168	1	1	0	0	7	10	882	1589
Grundy	0	1	0	0	7	11	333	877	9	4	6590	664	11	8	1709	2048
Guthrie	3	3	383	165	5	7	515	525	3	1	0	0	5	6	780	906
Hamilton	5	3	0	642	13	17	1745	1233	5	7	2682	2393	10	9	2266	1135
Hancock	1	3	0	0	13	12	1656	562	4	3	0	0	11	8	2844	1216
Hardin	5	5	0	393	13	21	1146	1423	13	12	2942	2199	12	7	2722	1030
Harrison	1	2	0	0	6	8	1020	943	6	1	2602	0	9	9	1637	1376
Henry	4	4	1567	0	15	14	1984	0	10	7	46704	0	9	7	1900	0
Howard	1	1	0	0	11	10	1163	965	3	4	0	578	9	5	2104	621
Humboldt	2	4	0	0	12	12	1726	1127	3	6	0	476	6	3	0	0
Ida	1	1	0	0	8	8	982	971	3	3	0	0	6	4	1364	440
Iowa	7	6	4580	3790	7	9	963	659	3	2	2509	0	5	5	875	510
Jackson	3	6	594	918	9	11	879	465	6	3	1422	0	19	19	4202	1798
Jasper	8	5	4275	2329	33	31	3649	2758	13	9	1053	689	17	17	3510	2513

\*Zeros indicate no services in this category or information suppressed to protect confidentiality.

Table 5. Establishments and Sales (in \$1,000s) in Selected Service Industries in Iowa Counties, 1987-1992 (cont.).

County	Hotels and Other Lodging Places				Personal Services				Business Services				Automotive Repair			
	Estab		Sales		Estab		Sales		Estab		Sales		Estab		Sales	
	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987
Jefferson	3	4	0	1553	13	8	5496	2781	55	42	24328	9808	8	4	2087	0
Johnson	25	23	22386	14122	87	90	13477	10656	99	65	106595	87226	57	54	18577	11822
Jones	3	3	101	147	14	16	1567	1282	3	1	640	0	10	7	2224	914
Keokuk	1	1	0	0	9	7	751	419	3	1	0	0	8	5	823	574
Kossuth	3	3	472	0	25	24	2043	1292	7	5	1493	757	13	7	2223	921
Lee	14	10	4575	3300	37	33	6200	4254	20	22	6339	4555	27	25	7503	3795
Linn	24	24	35251	25434	182	171	32442	20825	231	182	309094	234883	155	123	52733	37850
Louisa	2	2	0	0	7	8	806	772	1	1	0	0	6	4	517	530
Lucas	4	1	260	0	5	6	811	656	2	3	0	0	4	3	524	0
Lyon	1	1	0	0	7	5	748	0	5	1	981	0	12	7	2902	556
Madison	4	3	544	0	12	11	1149	739	4	5	744	0	8	5	1423	723
Mahaska	6	6	1149	889	24	23	2847	2004	15	9	6157	770	16	12	3419	3270
Marion	7	3	1334	707	24	23	4572	2225	9	12	4369	2114	21	10	3097	2569
Marshall	5	6	0	2434	38	40	5584	4695	32	24	20879	4171	25	21	5169	7475
Mills	4	3	454	0	12	11	4677	0	5	3	756	199	5	7	1206	879
Mitchell	2	1	0	0	12	11	1088	926	3	2	0	0	13	8	4903	995
Monona	4	4	0	0	10	15	972	1052	5	5	998	0	5	5	0	0
Monroe	1	1	0	0	6	9	958	924	4	2	0	0	4	2	0	0
Montgomery	2	1	0	0	17	11	1526	1218	6	4	0	0	7	9	787	1018
Muscatine	10	7	4677	2578	43	48	7511	4739	29	19	19891	6884	25	18	5433	2949
O'Brien	4	3	330	0	17	21	1560	1350	5	1	0	0	12	11	2525	1279
Osceola	1	2	0	0	6	4	401	0	1	0	0	0	4	5	608	411
Page	4	2	0	0	14	14	2996	1702	3	2	0	0	15	8	3093	775
Palo Alto	1	2	0	0	13	10	1310	1034	5	2	540	0	2	3	0	0
Plymouth	2	1	0	0	20	20	2175	1224	9	6	0	0	14	13	4238	1757
Pocahontas	1	3	0	278	7	10	921	853	2	1	0	0	6	7	441	551
Polk	63	51	98255	67224	361	331	95940	62663	622	498	620866	335277	341	307	164959	114466
Pottawattamie	24	20	10438	0	61	60	8900	9081	59	52	27781	0	73	72	16326	13197
Poweshiek	5	3	1098	0	17	22	2213	1593	10	7	3473	0	13	9	1809	1154
Ringgold	0	0	0	0	3	7	0	474	0	0	0	0	3	4	0	682
Sac	1	2	0	0	14	12	1076	848	6	2	1766	0	7	5	1428	709
Scott	27	18	0	19701	146	145	30964	23241	168	148	94104	66163	126	101	47675	34768
Shelby	5	4	0	0	13	15	1849	1252	5	4	0	0	9	7	1205	753
Sioux	4	4	550	214	22	29	2103	1814	11	12	2335	1858	27	24	6870	3743
Story	19	18	13376	10428	62	63	9490	6595	60	49	59736	37107	46	37	10761	6042
Tama	2	3	0	204	12	16	1795	1079	4	3	0	0	9	5	1085	342
Taylor	0	0	0	0	2	3	0	258	0	1	0	0	6	5	1045	461
Union	2	4	0	0	13	15	1449	1676	11	11	3556	3910	7	5	1043	664
Van Buren	0	0	0	0	5	6	517	405	2	2	0	0	9	4	1671	282
Wapello	6	5	3962	1834	42	40	6359	4298	26	21	7971	6180	14	14	2659	2079
Warren	3	4	0	0	23	24	3014	2752	22	12	2358	2098	23	22	4093	2106
Washington	3	3	0	0	21	16	2057	1589	8	3	0	0	8	7	2823	1799
Wayne	2	2	0	0	8	5	1327	916	1	0	0	0	6	3	786	111
Webster	9	7	5056	4389	45	48	8795	5792	38	25	16241	5436	27	29	8095	6526
Winnebago	1	1	0	0	18	12	2335	961	4	1	0	0	2	3	0	461
Winneshiek	5	3	0	0	22	23	1893	1403	11	9	1847	0	12	13	1678	1477
Woodbury	18	14	0	0	89	97	20694	18277	106	96	36566	0	79	57	31104	13790
Worth	1	1	0	0	2	1	0	0	2	0	0	0	4	6	1163	1374
Wright	3	3	0	0	20	20	1836	1420	7	6	3981	961	6	5	867	412
State of Iowa	587	518	367250	262002	2627	2644	457813	333558	2366	1834	1741819	1084134	2033	1751	627875	423623

Table 5. Establishments and Sales (in \$1,000s) in Selected Service Industries in Iowa Counties, 1987-1992 (cont.).

County	Miscellaneous Repair				Amusement and Recreation Services				Health Services				Legal Services			
	Estab		Sales		Estab		Sales		Estab		Sales		Estab		Sales	
	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987
Adair	6	4	1260	670	6	6	669	445	10	8	2929	0*	6	6	810	934
Adams	0	3	0	0	2	3	0	94	7	7	3255	2241	2	3	0	0
Allamakee	8	5	1669	722	3	7	441	567	16	20	4731	5135	9	9	1151	819
Appanoose	6	6	864	219	7	7	1194	1231	13	14	7007	5764	6	4	875	623
Audubon	4	4	746	324	2	4	0	0	9	8	3419	1778	4	5	566	505
Benton	4	4	980	659	12	14	2340	1566	18	19	3539	4880	10	10	1451	1536
Black Hawk	43	36	9551	0	55	55	18372	16628	210	219	139169	92681	47	52	19958	16799
Boone	6	4	837	0	8	10	1225	1288	28	29	10864	5340	8	13	2320	2615
Bremer	10	7	3651	0	9	10	0	958	29	26	9018	5740	12	9	2333	1894
Buchanan	7	8	1189	1274	8	4	1289	335	19	18	5616	5723	5	6	1132	794
Buena Vista	9	7	1827	1000	3	10	0	1103	31	34	13515	10490	14	15	2724	2485
Butler	6	2	1718	0	1	4	0	333	17	15	6889	4795	10	13	1587	1338
Calhoun	5	2	460	0	7	4	727	289	14	15	7942	6927	8	7	1019	1123
Carroll	9	9	2568	1934	9	14	1317	1270	34	36	15352	9963	19	21	3517	2536
Cass	4	3	0	560	7	8	1104	990	21	24	6052	8916	8	7	1617	1212
Cedar	5	2	827	0	6	7	1527	885	25	23	3900	4068	9	8	768	815
Cerro Gordo	13	18	2229	1760	28	30	5622	4109	88	81	68078	40167	30	25	7766	6648
Cherokee	3	5	398	719	6	8	1123	871	23	24	8611	6262	7	8	1602	1231
Chickasaw	10	6	2199	1070	2	2	0	0	16	13	6863	4248	9	9	1329	1360
Clarke	1	0	0	0	3	6	131	243	7	9	1372	2322	3	4	694	691
Clay	6	6	1609	0	8	11	1539	1519	35	36	21033	13990	10	8	3198	2717
Clayton	7	7	892	790	8	9	635	583	22	26	7571	6710	8	6	946	742
Clinton	13	11	1837	0	35	28	12327	3748	70	78	34321	26907	16	18	3413	0
Crawford	8	12	2034	1505	10	9	1344	935	24	23	7391	5920	8	7	1731	1678
Dallas	11	8	1940	999	13	11	2078	885	40	36	15943	8100	11	12	2570	2342
Davis	1	1	0	0	1	4	0	184	13	12	4379	3640	4	5	721	768
Decatur	1	2	0	0	3	4	205	238	9	10	4851	4653	4	3	452	326
Delaware	5	6	662	558	7	7	749	532	20	16	6584	3343	7	9	1714	1651
Des Moines	9	8	1908	0	26	22	5284	4298	86	92	45110	26015	22	16	6521	4815
Dickinson	7	7	0	0	21	16	6983	4359	30	27	14569	8319	7	9	1508	964
Dubuque	27	20	8289	2559	39	41	37716	16337	117	119	114341	97448	33	29	12328	8166
Emmet	2	3	0	0	4	5	657	577	24	27	7418	6960	7	6	2574	2179
Fayette	9	11	1522	1070	14	8	1146	1202	33	33	10230	8053	14	15	1528	1123
Floyd	5	6	2318	1243	6	8	845	0	28	32	12446	10551	10	11	1658	1642
Franklin	8	4	1536	472	6	6	576	398	9	15	3957	3360	9	9	2265	1761
Fremont	6	3	953	95	2	2	0	0	8	7	4299	3308	3	5	0	1016
Greene	2	4	0	185	5	7	515	537	10	13	4438	3777	6	6	1884	1111
Grundy	1	3	0	0	3	7	459	523	19	18	6333	3738	6	8	1346	1200
Guthrie	2	4	0	0	6	3	1622	121	10	13	2714	4381	8	9	814	701
Hamilton	7	5	1400	509	7	6	1402	712	26	30	13115	8612	8	10	1411	1304
Hancock	2	2	0	0	5	6	338	271	14	12	7204	3637	7	6	780	720
Hardin	13	7	1976	497	15	9	1464	1156	19	31	7375	8307	13	12	2675	2398
Harrison	2	2	0	0	5	2	324	0	13	18	6582	5441	5	6	516	611
Henry	8	5	6590	1283	5	6	763	0	25	27	11578	7437	13	12	2188	2275
Howard	0	1	0	0	5	4	733	415	9	10	4300	2294	5	5	619	648
Humboldt	4	3	882	0	5	4	904	403	11	14	5308	3532	3	4	0	0
Ida	2	3	0	222	4	4	529	226	11	12	4674	3472	6	6	652	1076
Iowa	4	1	601	0	8	10	2292	437	21	22	6607	5095	9	10	1868	1405
Jackson	6	5	1645	0	8	6	1309	1041	24	25	11080	7391	12	13	1738	1240
Jasper	12	12	2630	1804	14	11	2075	1915	33	38	17348	11810	11	13	3180	2432

\*Zeros indicate no services in this category or information suppressed to protect confidentiality.

Table 5. Establishments and Sales (in \$1,000s) in Selected Service Industries in Iowa Counties, 1987-1992 (cont.).

County	Miscellaneous Repair				Amusement and Recreation Services				Health Services				Legal Services			
	Estab		Sales		Estab		Sales		Estab		Sales		Estab		Sales	
	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987	1992	1987
Jefferson	3	2	490	0	6	7	1167	1033	22	21	11672	6346	12	8	2196	1427
Johnson	28	23	6181	2938	42	36	12510	9531	134	115	64711	38658	40	35	16471	8191
Jones	3	4	0	723	7	9	1022	716	19	25	8831	6259	8	8	1807	1685
Keokuk	1	2	0	0	3	3	0	0	8	10	4701	3460	5	5	452	443
Kossuth	7	7	969	806	13	7	1649	558	20	22	5914	4210	13	13	2551	2513
Lee	11	11	1863	1884	21	13	3155	1507	70	68	32271	18616	15	16	3704	2851
Linn	61	46	25813	9634	80	75	29679	15897	288	278	178586	111368	94	107	46217	34852
Louisa	2	3	0	0	5	2	371	0	10	12	3730	3561	6	6	888	835
Lucas	1	2	0	0	1	2	0	0	13	11	3451	4215	5	5	781	1036
Lyon	5	5	1801	1175	6	4	445	336	10	13	2712	0	5	6	678	725
Madison	4	3	1048	0	2	4	0	319	13	16	6478	4324	6	7	1200	914
Mahaska	4	4	560	1102	8	6	1536	1156	26	26	12054	9097	12	12	2537	2286
Marion	3	3	0	0	10	10	4514	1527	38	34	13908	10733	10	10	2332	1655
Marshall	13	12	3269	1786	11	17	1876	2899	58	58	33265	26960	19	16	5365	5220
Mills	4	3	598	509	7	5	748	498	13	11	8225	5609	3	4	481	311
Mitchell	4	3	1718	969	2	1	0	0	13	9	2830	2559	4	5	875	858
Monona	2	3	0	130	5	6	0	0	11	9	6725	5547	8	8	1246	1111
Monroe	1	2	0	0	4	5	798	475	12	11	2705	2839	5	4	603	698
Montgomery	7	3	1392	0	7	3	516	0	18	16	6626	6026	4	5	807	595
Muscatine	11	10	0	0	12	15	2795	2348	52	43	27002	15211	21	24	5889	4863
O'Brien	10	8	3501	1415	8	9	881	941	27	31	7505	6371	10	8	1522	1662
Osceola	2	1	0	0	3	3	553	0	8	6	3732	1867	3	3	0	768
Page	8	6	891	513	7	6	433	389	40	31	13515	6736	8	9	1379	1159
Palo Alto	5	3	360	0	4	7	0	521	16	15	7953	4419	6	4	842	394
Plymouth	9	6	3271	896	13	11	1604	1162	27	27	10729	7972	7	9	1087	932
Pocahontas	0	3	0	0	1	2	0	0	16	15	5360	3443	8	9	965	946
Polk	111	98	52875	29326	187	180	172686	95990	665	614	477719	285020	238	203	166631	120535
Pottawattamie	32	21	11470	12849	33	31	27459	26234	100	94	57073	39056	39	42	21751	11730
Poweshiek	9	8	1016	806	8	10	1746	2177	33	33	12817	10461	11	14	2142	1512
Ringgold	5	3	410	0	1	0	0	0	6	6	3303	2608	3	1	318	0
Sac	7	7	1115	529	4	2	0	0	13	17	6372	4228	6	7	1548	998
Scott	65	42	40850	15362	67	64	77834	14354	333	309	181495	113399	84	86	30576	20640
Shelby	8	6	1439	832	5	4	0	0	16	15	5653	4887	7	7	1775	1270
Sioux	12	7	2283	368	18	13	2454	2269	34	35	10145	8616	12	15	2348	1885
Story	14	13	2927	2502	35	29	6774	4140	72	68	68938	43772	24	26	5375	4664
Tama	2	2	0	0	6	6	0	1219	17	18	8139	5242	6	5	1335	711
Taylor	0	2	0	0	3	3	0	0	5	10	2226	3458	2	3	0	0
Union	3	2	457	0	6	8	788	549	16	16	8728	7484	6	4	873	695
Van Buren	0	2	0	0	1	2	0	0	6	5	1001	0	2	3	0	401
Wapello	11	10	3528	1650	10	12	2536	1456	54	50	34592	25471	12	14	5222	3982
Warren	7	7	661	579	9	10	1558	906	33	31	14967	10652	11	8	1529	1193
Washington	10	9	2300	642	6	6	598	638	24	19	10971	6374	10	11	2048	1851
Wayne	3	3	0	243	1	1	0	0	7	9	2341	2804	5	3	313	192
Webster	11	9	1931	1654	19	19	5420	3125	69	72	38502	22847	32	24	7626	6246
Winnebago	3	2	0	0	6	7	579	485	17	19	6084	4491	7	6	926	804
Winneshiek	8	8	2024	925	11	9	2219	1215	24	24	6274	5129	8	7	2290	1870
Woodbury	35	24	0	16399	47	43	0	9461	187	191	135534	89137	63	67	25750	20870
Worth	1	2	0	0	3	3	525	0	5	7	841	0	3	4	313	369
Wright	5	2	492	0	6	5	725	482	18	21	8598	5749	6	8	1545	956
State of Iowa	920	774	279071	158256	1262	1224	546423	296699	4184	4130	2338724	1567972	1445	1436	504555	382055

Table 5. Establishments and Sales (in \$1,000s) in Selected Service Industries in Iowa Counties, 1987-1992 (cont.).

County	Social Services				Engineering, Accounting, Research, Management and Related Services			
	Estab		Sales		Estab		Sales	
	1992	1987	1992	1987	1992	1987	1992	1987
Adair	1	1	0*	0	3	2	148	0
Adams	1	0	0	0	0	1	0	0
Allamakee	1	1	0	0	2	3	0	382
Appanoose	4	5	0	173	4	3	414	306
Audubon	1	0	0	0	3	1	0	0
Benton	3	1	0	0	11	10	1376	655
Black Hawk	27	23	1558	0	73	68	51495	31615
Boone	2	4	0	0	13	9	1539	926
Bremer	2	2	0	0	9	6	912	632
Buchanan	3	1	0	0	6	3	986	0
Buena Vista	2	0	0	0	12	11	5208	3335
Butler	2	5	0	0	4	3	322	0
Calhoun	2	5	0	81	2	5	0	0
Carroll	6	4	895	14	10	12	2514	1506
Cass	1	1	0	0	10	8	3229	2184
Cedar	8	8	263	185	4	5	826	824
Cerro Gordo	11	13	732	370	32	31	10149	27482
Cherokee	4	7	0	0	6	3	737	0
Chickasaw	1	1	0	0	4	5	430	372
Clarke	4	3	122	0	4	4	0	326
Clay	3	4	0	84	10	10	3374	1337
Glayton	4	1	180	0	5	4	494	0
Clinton	5	4	0	0	22	23	18588	0
Crawford	6	3	0	0	5	6	1068	1749
Dallas	7	4	0	0	8	2	1777	0
Davis	1	2	0	0	1	1	0	0
Decatur	2	1	0	0	2	2	0	0
Delaware	6	4	0	58	8	8	2515	1846
Des Moines	7	6	0	0	16	15	7530	3445
Dickinson	4	3	0	0	12	11	3402	2061
Dubuque	13	9	1229	0	42	37	26227	12280
Emmet	2	3	0	0	6	4	1318	936
Fayette	4	2	0	0	12	12	2166	1831
Floyd	7	3	636	0	7	9	1324	1232
Franklin	5	4	95	0	3	3	492	237
Fremont	5	6	384	80	7	4	455	331
Greene	4	4	0	0	5	4	535	457
Grundy	2	2	0	0	5	3	0	0
Guthrie	2	1	0	0	1	0	0	0
Hamilton	2	2	0	0	8	8	1612	705
Hancock	3	4	0	74	4	4	0	201
Hardin	2	4	0	0	13	7	2546	325
Harrison	2	2	0	0	1	2	0	0
Henry	6	3	543	192	6	12	1685	4153
Howard	1	2	0	0	2	2	0	0
Humboldt	7	2	658	0	4	6	492	489
Ida	1	3	0	0	4	6	0	452
Iowa	3	2	0	0	1	2	0	0
Jackson	6	8	0	626	4	4	0	190
Jasper	6	6	128	91	13	10	3564	1337

\*Zeros indicate no services in this category or information suppressed to protect confidentiality.

Table 5. Establishments and Sales (in \$1,000s) in Selected Service Industries in Iowa Counties, 1987-1992 (cont.).

County	Social Services				Engineering, Accounting, Research, Management and Related Services			
	Estab		Sales		Estab		Sales	
	1992	1987	1992	1987	1992	1987	1992	1987
Jefferson	4	3	0	0	37	33	8935	11811
Johnson	30	26	4351	1950	41	41	43898	24992
Jones	4	3	153	0	8	2	1747	0
Keokuk	2	1	0	0	0	0	0	0
Kossuth	6	5	211	0	7	7	1593	504
Lee	9	7	0	0	17	9	3750	878
Linn	41	34	5849	3709	125	113	78900	47617
Louisa	1	0	0	0	3	3	0	224
Lucas	2	2	0	0	1	1	0	0
Lyon	3	2	0	0	6	5	3376	0
Madison	7	3	1722	0	6	4	1334	278
Mahaska	3	4	0	0	8	8	3645	5062
Marion	3	1	0	0	13	15	1698	2169
Marshall	10	8	0	431	21	16	4643	3463
Mills	1	2	0	0	3	2	0	0
Mitchell	3	2	0	0	1	3	0	0
Monona	0	1	0	0	6	3	0	775
Monroe	1	2	0	0	2	3	0	0
Montgomery	2	0	0	0	5	3	524	768
Muscatine	7	5	0	0	17	14	0	0
O'Brien	4	1	0	0	13	10	2071	1245
Osceola	1	2	0	0	1	3	0	174
Page	1	1	0	0	10	12	7668	5052
Palo Alto	1	5	0	0	5	5	562	509
Plymouth	4	4	0	0	13	11	3180	1862
Pocahontas	4	4	0	0	4	7	595	629
Polk	99	68	0	9945	366	295	213098	131264
Pottawattami	13	13	0	0	34	30	7602	4487
Poweshiek	4	2	113	0	14	7	7225	2464
Ringgold	1	1	0	0	0	0	0	0
Sac	3	3	0	48	6	5	617	577
Scott	28	23	2871	1554	107	107	47468	44196
Shelby	0	1	0	0	5	4	0	0
Sioux	7	3	172	0	12	9	2887	1300
Story	21	15	1771	666	57	54	19999	11731
Tama	4	3	195	95	5	3	2132	0
Taylor	2	1	0	0	4	2	219	0
Union	2	1	0	0	7	6	1565	996
Van Buren	1	1	0	0	3	1	404	0
Wapello	3	4	85	126	13	10	2394	1911
Warren	11	11	673	0	13	13	3033	0
Washington	2	0	0	0	9	9	1495	831
Wayne	1	1	0	0	1	1	0	0
Webster	10	7	1359	0	19	19	9175	5476
Winnebago	3	1	126	0	6	4	923	347
Winneshiek	4	2	44	0	9	8	3468	2827
Woodbury	21	11	0	0	67	67	28479	16844
Worth	0	0	0	0	1	1	0	0
Wright	2	1	0	0	11	8	2425	2023
State of Iowa	610	490	84056	46518	1591	1410	722862	538008

Three-fourths of Iowa's counties (75) followed the statewide trend of higher service sales in 1992 than in 1987 when adjusted for inflation. Polk's adjusted gain was \$564 million. There were 24 counties that had lower sales in 1992 than in 1987 after adjustment. Eighteen of them, however, had registered higher sales in 1992 when compared with the unadjusted 1987 figures. Although these counties recorded gains when sales were left in current (unadjusted) dollars, these increases did not keep pace with inflation. For sales to match inflation between 1987 and 1992, sales in current dollars would have had to increase by an estimated 22.5 percent.

Per capita sales were obtained by dividing the total service sales by the estimated population for that year. The state averaged \$2,746 in service sales for each person in Iowa in 1992, a figure that increased between each census (Table 1). The 1992 figure was nearly \$900 more per person than that for 1987. Per capita sales varied widely among the counties in 1992. Although six counties (Dubuque, Henry, Jefferson, Linn, Polk, Scott) exceeded \$3,500 in sales per person, six others (Benton, Cedar, Louisa, Taylor, Van Buren, Worth) averaged less than \$700. A third group of six counties (Cedar, Clarke, Lucas, Taylor, Warren, Worth) were the only ones with lower per capita sales in 1992 than in 1987.

Per capita sales for 1982 and 1987 were adjusted for inflation to 1992 dollars. The state's figure in 1992 was \$481 per person higher than in 1987 (Table 1), not as large a jump as before adjustment, but still a 21.2% increase. More than three-quarters of the counties (77) maintained higher per capita sales in 1992 than in 1987 after adjustment.

A county's receipts by service firms results from sales not only to those who are residents of that county but also from sales to those who live elsewhere. Urban centers, for example, attract more sales than would be expected based on only the resident population. In 1992, only 13 counties had a higher percentage of sales from service establishments than they did of population (Table 2). Polk's receipts from services in 1992 accounted for 27.3% of the statewide total, while the county had 12.0% of the state's population, a 15 percentage point difference. In no other county was the gap between percentages of sales and population as much as 5 points. Dubuque, Linn, and Scott were the only other ones to have even 1 percentage point more in sales than in population.

### **Employees and Payroll**

Employees in service establishments numbered 162,530 in 1992, nearly 31,500 more than in 1987 (Table 3). A similar jump (+25,300) in employees occurred between 1982 and 1987. Fewer than 200 employees worked in service firms in nine counties in 1992. These counties contrast with the large number of service employees in the most populous counties (Linn, 18,578; Polk, 35,400; Scott, 12,339). In 72 counties, more employees of service establishments were counted in 1992 than in 1987; the gains of more than 7,000 in Linn and Polk were substantially greater than what occurred elsewhere. Of the 27 counties with fewer service employees in 1992 than in 1987, the decline was less than 100 in 21; only in Woodbury was the drop greater than 400.

The payroll at Iowa's service establishments was nearly \$2.9 billion in 1992, more than \$1.0 billion (58.6%) higher than in 1987 (Table 3). Polk's payroll alone was \$823 million, more than double that in Linn (\$310 million) and more than triple that in Scott (\$218 million). The services payroll was below \$2 million in seven counties; it was under \$1 million only in Worth. All but eight counties had larger payrolls in 1992 than in 1987.

As was done for the sales figures, the payroll amounts for 1982 and 1987 were adjusted for inflation to 1992 dollars. With adjustment, Iowa's payroll in services was higher in 1992 than in 1987 (+\$661 million, +29.5%) as well as higher in 1987 than in 1982 (+\$514 million, +29.8%) (Table 3). Comparisons among the counties indicate that 1992 payrolls were higher than the 1987 adjusted amounts in 77 counties.

Dividing the payroll figure by the number of employees results in the average pay per employee. Statewide, service employees averaged \$17,839 each in 1992, nearly \$3,900 more than in 1987 (Table 3). There was, however, a \$14,000 range among the counties in average pay in 1992. Six counties (Butler, Carroll, Ida, Louisa, Sac, Taylor) averaged less than \$10,000. In contrast, averages were greater

than \$20,000 in Cerro Gordo, Des Moines, Polk, and Woodbury. Pay per employee increased in all but six (Allamakee, Henry, Johnson, Mills, Montgomery, Winneshiek) between 1987 and 1992.

Pay per employee for 1982 and 1987 was adjusted for inflation to 1992 dollars. Iowa's figure in 1992 was higher than the adjusted figure for 1987 by \$758 (+4.4%) (Table 3). A similar dollar (+\$777) and percentage gain (+4.8%) occurred between 1982 and 1987 as well. Thus, statewide, the pay employees received for work in services exceeded inflation at both periods. This was not the case for all the counties, however. Thirty-six had lower average pay per worker in 1992 than in 1987 after adjustment.

### **Sales and Employees**

Iowa's service establishments averaged 9.1 employees each in 1992, 1.1 persons more than in 1987, and 1.9 higher than 1982 (Table 4). Recent years have seen a trend toward larger businesses and these data reflect that trend. County averages ranged from fewer than five in 19 counties to 10 or more in 11 others. Seventy-two counties averaged more employees per establishment in 1992 than in 1987.

Sales per service firm averaged \$433,833 statewide in 1992, an increase of more than \$120,000 from 1987 (Table 4). Cedar, Wayne, and Worth averaged less than \$150,000 in sales for each establishment; Dubuque, Henry, Linn, Monona, and Polk exceeded \$600,000. Ninety counties recorded higher sales per service business in 1992 than in 1987.

The service sector in Iowa had an average of \$47,443 in sales per employee in 1992, \$8,364 more than in 1987 (Table 4). This followed a gain of \$7,267 in sales per employee between 1982 and 1987. The sales range for counties in 1992 varied from less than \$30,000 per employee in nine counties to more than \$60,000 in three (Henry, Monona, Van Buren). All but eight counties (Clinton, Crawford, Dubuque, Emmet, Johnson, Linn, Marshall, Mills) had higher sales per worker in 1992 than in 1987.

For each dollar of payroll in 1992, Iowa's service firms averaged \$2.66 in sales (Table 4). This ratio between sales and payroll was fairly constant across the censuses (1987, \$2.80; 1982, \$2.78). Ratios of sales to pay in the counties varied from \$2.06 (Adams) to \$4.80 (Monona). A majority of Iowa's counties (55) averaged lower sales from service establishments per dollar of pay in 1992 than in 1987.

### **Kind of Business**

The census of service industries also reports establishments and sales for several specific types of services. At the county level, the number of establishments of each type is given, but sales figures may be suppressed if the number of businesses is small and the sales figures would reveal information about any particular business.

Between 1987 and 1992, the statewide number of establishments increased for nine of the ten categories reported (Table 5). Personal service establishments, however, declined by 17. Sales for all ten categories of services increased across the period. Trends for the counties varied across the five years.

**Notes:** Readers can review the original publication for further details (1992 CENSUS OF SERVICE INDUSTRIES, U.S. Bureau of the Census, Geographic Area Series, Iowa SC92-A-16; only the year changes in the title of this publication from earlier censuses). Much additional information, including data on incorporated places with at least 2,500 residents, is included in those volumes.

Ten categories are listed among the service industries. The grouping of hotels, rooming houses, camps, and other lodging places includes commercial and noncommercial establishments engaged in furnishing lodging and camping facilities. Personal services capture establishments primarily engaged in providing services to individuals, such as laundries, dry cleaners, photographic studios, and beauty and barber shops. Business services render aid to establishments on such items as advertising, mailing, reproduction, cleaning, equipment, employment, computer programming and data processing, and



security. The automotive repair, services, and parking group furnishes auto repair, rental, leasing, and parking. Miscellaneous (labeled "other" in the table) repair services include establishments involved in other repair activities, including those serving electronic equipment and machinery. Amusement and recreation services cover film production and distribution, motion picture theaters and video rental stores, dance studios, theatrical productions, bowling centers, sports clubs, race tracks, amusement parks, and public golf courses, for example. Units listed as health services provide medical, surgical, and other health items; it includes, for example, the offices of doctors, dentists, chiropractors, and optometrists; nursing care facilities; hospitals; and laboratories. Legal services include the offices of lawyers and legal aid societies. The group labeled social services provides individual and family social services, job training and vocational rehabilitation, day care, and residential care, for example. Finally, engineering, accounting, research, management, and related services cover a variety of possibilities, including engineering, architectural, and surveying services; accounting, auditing, and bookkeeping services; commercial and noncommercial research; testing laboratories; management and consulting services; and public relations. Several other categories with very small numbers of service establishments are included in the totals. The 17,625 establishments accounted for by these 10 categories include 99.3 percent of the 17,774 reported in 1992.

Figure 1. Number of service establishments in Iowa, 1982-1992.

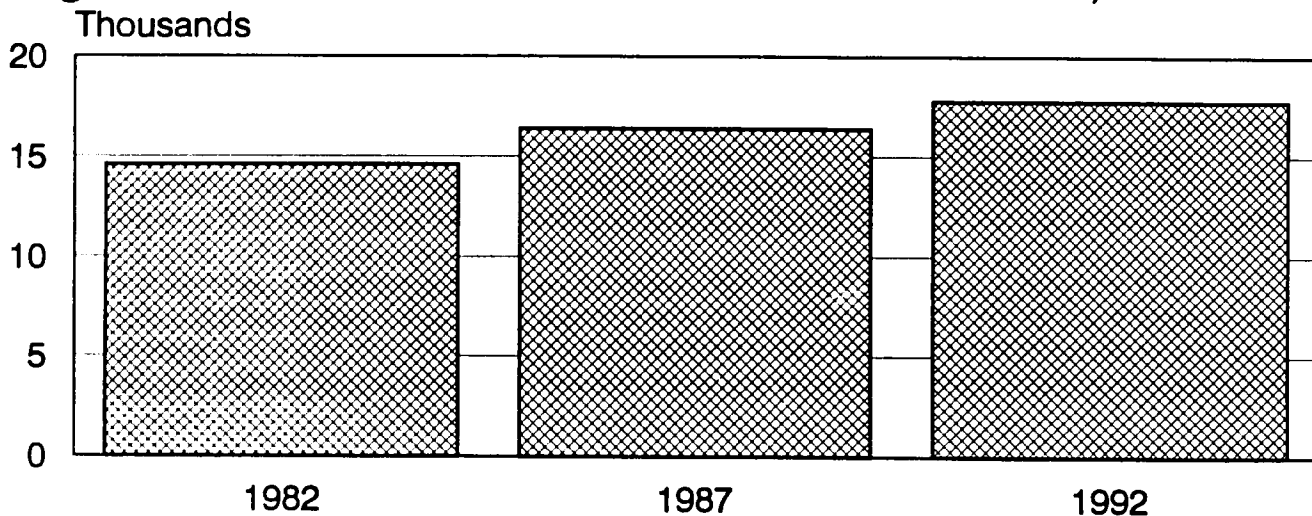
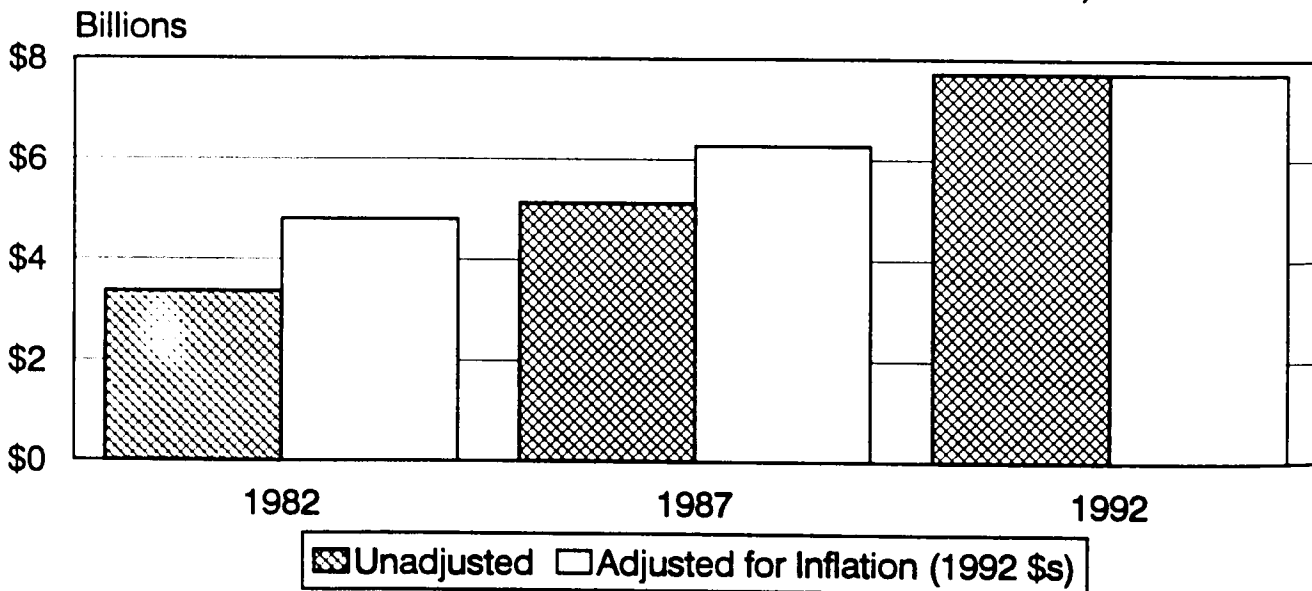


Figure 2. Sales from service establishments in Iowa, 1982-1992.



## Food Stamps in Iowa's Counties:

### 1980-1994

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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 1994; 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 78,261 Iowa households received food stamps each month in 1994 (Table 1). This was a decrease of 497 from the 1993 figure, the first decline since 1988 to 1989. More than 75,000 households received food stamps monthly from 1983 through 1987 and 1992 through 1994. The lowest monthly average (57,449) was in 1980.

Polk averaged 11,144 households receiving food stamps each month in 1994, 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 43.0 percent of Iowa's average monthly food stamp households that year. Twenty-five counties had 500 to 1,999 households receiving food stamps, while the remaining 68 counties averaged 100 to 499 households monthly.

Less than half of the counties (43) averaged more households in the program in 1994 than in 1993. Only two (Linn, Scott) increased by more than 100 households. Of the 54 counties with fewer households in the program in 1994 than in 1993, the largest decreases were in Polk (-198) and Woodbury (-230); three other counties (Dubuque, Jasper, Webster) had declines greater than 50.

A comparison of 1984 with 1994 indicates that Iowa averaged 1,684 more households in the program at the end of the period than at the beginning. Likewise, 56 counties had more households receiving food stamps in 1994 than in 1984; 20 increased by more than 100 households. Pottawattamie (+804) and Polk (+638) gained more than 500 between those years, although Scott's (+1,111) increase was even greater. Of the 42 counties with lower averages in 1994 than in 1984, Black Hawk dropped by an average of 1,046 households, the highest decrease of any county. Dubuque (-967) was the only other county to decline by an average of 500 or more households.

An examination of the 15 years of data reveals that Iowa is again at nearly 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 1994 figures indicate a return to increases in the state and most counties

Table 1. Average Monthly Number of Households Receiving Food Stamps in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	188	195	183	185	178	166	170	192	215	215	198	202	161	140	117
Adams	150	150	153	146	140	131	143	180	176	157	99	96	78	88	91
Allamakee	254	265	255	234	222	229	268	304	337	316	298	289	280	263	261
Appanoose	738	734	731	684	664	704	727	747	800	793	797	793	652	536	527
Audubon	122	115	130	120	112	109	118	139	153	148	115	116	118	127	121
Benton	450	482	515	484	489	447	457	510	523	527	531	575	517	411	339
Black Hawk	5191	5206	5066	4961	5043	5200	5468	6119	6447	6108	6237	5998	5346	5112	4285
Boone	631	659	637	566	484	499	513	546	607	590	607	707	625	547	495
Bremer	357	351	303	322	313	304	352	438	499	458	410	379	350	314	249
Buchanan	466	486	506	553	536	546	600	706	749	719	689	701	545	507	405
Buena Vista	368	371	371	346	300	280	303	326	353	317	311	333	320	270	199
Butler	305	283	299	298	294	294	330	403	465	425	369	356	286	266	229
Calhoun	280	271	273	256	233	224	246	293	307	279	240	247	233	226	229
Carroll	364	369	350	340	347	361	345	389	399	390	348	351	336	301	271
Cass	398	391	365	331	312	298	287	318	358	362	336	336	327	342	301
Cedar	360	350	337	312	305	297	308	351	360	334	300	307	307	275	275
Cerro Gordo	1420	1427	1396	1305	1224	1174	1165	1249	1296	1173	1131	1267	1188	1149	1039
Cherokee	230	236	227	213	201	205	226	268	287	260	245	252	233	218	210
Chickasaw	214	210	221	213	218	219	260	347	372	343	313	303	240	229	189
Clarke	323	320	315	275	252	230	253	279	292	274	251	268	253	203	180
Clay	398	416	430	427	413	405	434	499	524	500	453	461	413	398	356
Clayton	256	278	298	302	315	344	374	431	505	504	488	545	464	425	381
Clinton	1921	1906	1836	1761	1682	1587	1604	1803	1922	1949	1762	1649	1340	1023	876
Crawford	459	418	398	398	394	376	379	374	385	362	359	384	332	288	265
Dallas	571	592	593	565	550	539	533	595	653	664	646	642	527	478	434
Davis	232	236	255	242	247	268	289	319	318	301	293	299	235	207	197
Decatur	486	455	423	392	365	349	354	349	365	344	327	319	283	271	262
Delaware	345	361	359	353	376	395	437	539	603	587	533	546	457	441	396
Des Moines	1552	1557	1462	1384	1310	1272	1249	1285	1347	1378	1392	1448	1346	1291	1156
Dickinson	276	268	265	256	240	241	241	242	243	254	264	287	265	254	245
Dubuque	1779	1868	1879	1840	1867	1917	2089	2439	2643	2652	2746	2896	2382	2055	1715
Emmet	306	320	339	342	324	285	277	303	343	321	279	319	285	243	227
Fayette	619	634	626	617	565	568	614	690	752	741	687	691	548	455	397
Floyd	516	497	491	457	459	443	457	515	523	518	507	562	483	427	408
Franklin	249	248	256	238	227	213	214	234	246	223	220	237	221	205	189
Fremont	278	255	244	219	209	215	210	218	217	208	191	180	157	164	170
Greene	244	231	222	225	200	190	198	218	248	272	260	267	252	229	213
Grundy	117	136	164	168	148	156	149	166	177	182	170	186	140	134	115
Guthrie	298	303	289	266	228	244	278	309	322	300	274	290	280	266	254
Hamilton	382	397	413	379	326	316	348	367	354	336	324	348	346	372	367
Hancock	217	234	229	223	222	198	206	232	244	207	177	222	212	188	190
Hardin	552	522	485	429	391	385	413	434	430	363	317	333	333	308	274
Harrison	451	471	480	444	416	412	427	433	429	446	441	446	398	365	363
Henry	504	471	458	430	385	347	328	324	343	356	352	373	324	303	296
Howard	213	218	214	206	220	229	234	285	328	304	289	282	217	214	221
Humboldt	228	251	244	228	228	221	233	242	240	238	201	200	185	217	190
Ida	112	113	109	110	92	87	94	109	123	109	98	107	106	93	95
Iowa	193	177	173	159	151	136	147	180	185	180	146	169	168	145	141
Jackson	574	563	536	535	519	529	585	655	701	650	606	597	506	412	380
Jasper	699	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	576	574	551	526	484	463	435	442	437	451	466	457	428	368	331
Johnson	1344	1323	1269	1141	998	946	917	934	943	917	937	1010	999	940	781
Jones	372	386	355	337	321	348	372	420	447	440	431	462	410	395	324
Keokuk	332	355	340	353	330	299	295	322	356	308	281	287	239	234	217
Kossuth	340	349	361	334	304	294	302	347	355	316	263	298	294	279	256
Lee	1397	1435	1418	1367	1268	1232	1295	1434	1484	1458	1477	1561	1393	1238	1026
Linn	4741	4628	4518	4343	4029	3927	4083	4614	4850	4842	5023	5236	4737	4307	3541
Louisa	347	343	341	318	275	258	282	311	336	318	324	331	283	265	268
Lucas	398	362	344	338	316	313	331	361	377	389	380	386	367	334	316
Lyon	156	158	150	132	135	135	150	181	191	187	163	161	141	128	113
Madison	243	253	242	231	210	217	214	239	260	261	253	261	232	201	182
Mahaska	669	689	697	688	662	632	611	676	748	726	723	764	678	616	547
Marion	666	664	622	575	519	498	532	608	646	625	658	678	548	485	452
Marshall	1250	1287	1261	1150	1038	1014	1039	1112	1136	1072	1093	1131	1019	850	723
Mills	364	346	326	316	280	241	251	267	261	246	250	256	250	224	206
Mitchell	155	165	180	166	156	165	186	197	217	212	201	231	205	190	164
Monona	328	330	345	327	304	302	307	352	384	349	325	329	314	278	278
Monroe	313	315	306	301	306	329	358	365	385	336	308	308	266	228	206
Montgomery	367	341	346	300	266	263	256	278	292	304	282	296	266	243	217
Muscatine	1314	1287	1294	1227	1183	1119	1141	1292	1320	1277	1174	1189	1068	989	988
O'Brien	209	210	222	189	180	174	220	272	289	256	247	249	214	203	188
Osceola	100	101	93	96	90	95	105	133	157	136	100	96	79	68	70
Page	552	543	538	539	494	480	493	518	541	532	492	495	434	412	382
Palo Alto	294	294	296	279	255	241	254	302	318	319	292	315	304	278	261
Plymouth	279	274	270	263	255	276	318	362	401	384	345	349	325	310	276
Pocahontas	212	216	220	208	178	141	148	189	208	178	166	169	154	145	140
Polk	11144	11342	10793	10006	9123	8726	8739	9156	9753	9996	10506	11634	10432	9663	8470
Pottawattamie	3144	3147	3038	2834	2520	2344	2259	2218	2197	2252	2340	2580	2525	2524	2373
Poweshiek	371	368	364	352	307	262	287	336	379	378	347	340	299	279	239
Ringgold	192	199	185	181	176	177	193	208	194	215	203	187	165	151	148
Sac	230	216	226	219	197	203	197	222	244	234	243	228	218	186	168
Scott	6623	6512	6131	5747	5403	5172	5306	5668	5665	5543	5512	5573	4802	3865	3319
Shelby	236	235	223	211	189	161	174	212	217	222	222	223	202	179	170
Sioux	235	218	248	248	254	280	286	337	375	312	286	301	277	257	261
Story	1109	1070	1057	958	874	821	773	830	831	875	890	935	819	740	659
Tama	332	357	391	364	335	321	344	397	406	382	375	387	339	358	341
Taylor	209	206	192	195	188	176	184	223	243	251	231	232	199	185	188
Union	488	466	451	448	436	421	403	440	472	478	453	421	347	342	301
Van Buren	182	209	204	208	198	194	212	231	240	234	233	232	191	166	174
Wapello	1856	1843	1846	1752	1668	1686	1767	1981	2007	1768	1706	1740	1428	1294	1164
Warren	698	729	706	666	603	568	563	583	604	614	596	611	523	508	456
Washington	376	369	365	359	343	319	331	350	347	299	257	236	243	241	222
Wayne	241	249	243	230	223	223	241	268	293	305	282	280	236	203	204
Webster	1614	1694	1651	1593	1478	1456	1442	1587	1589	1438	1411	1442	1296	1177	1048
Winnebago	216	226	216	208	187	167	160	181	191	179	325	194	183	184	170
Winneshiek	300	305	295	279	273	284	326	383	429	410	371	369	336	345	283
Woodbury	2819	3049	3182	3069	2847	2729	2889	3313	3283	3259	3268	3146	2940	2861	2698
Worth	154	176	189	178	180	164	175	195	196	184	184	200	181	170	154
Wright	341	328	330	306	296	269	285	316	360	353	326	333	300	311	304
State of Iowa	78261	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	458	487	452	464	447	399	427	539	644	667	587	592	469	403	344
Adams	402	407	436	395	379	340	376	522	522	460	282	274	197	222	241
Allamakee	661	676	634	609	560	594	722	841	965	888	832	813	785	721	724
Appanoose	1808	1853	1865	1742	1677	1753	1870	2006	2211	2211	2263	2311	1944	1591	1542
Audubon	332	323	370	334	323	308	342	428	479	457	330	334	313	332	302
Benton	1210	1311	1368	1268	1269	1139	1166	1363	1408	1405	1454	1582	1421	1104	901
Black Hawk	12430	12517	12190	12002	11989	12398	13194	15165	16031	15262	15476	14359	12272	11236	10016
Boone	1514	1562	1544	1412	1196	1246	1301	1417	1559	1530	1580	1859	1639	1382	1256
Bremer	937	930	786	836	779	760	934	1258	1514	1365	1214	1116	970	841	630
Buchanan	1358	1395	1428	1515	1434	1473	1709	2081	2329	2200	2062	2071	1582	1387	1103
Buena Vista	935	947	962	929	795	766	813	913	999	874	885	940	929	739	547
Butler	805	713	798	809	789	793	906	1147	1331	1206	1038	1019	803	718	603
Calhoun	656	654	677	624	585	566	639	807	862	742	595	617	577	565	553
Carroll	923	932	863	862	869	894	851	1030	1124	1090	944	931	902	803	699
Cass	1090	1056	992	892	830	781	755	876	992	986	851	891	859	887	741
Cedar	910	899	857	814	783	764	804	943	971	903	823	856	819	692	696
Cerro Gordo	3269	3287	3211	2988	2821	2678	2707	2935	3123	2877	2810	3186	2915	2772	2558
Cherokee	569	598	585	556	523	509	552	693	768	683	622	646	580	506	483
Chickasaw	574	558	601	564	571	590	717	982	1102	1017	937	930	699	610	497
Clarke	864	848	844	749	678	618	713	808	847	803	727	771	733	561	511
Clay	925	990	1041	1037	978	970	1036	1238	1338	1309	1187	1188	1068	992	861
Clayton	709	762	803	803	853	936	1022	1237	1481	1465	1399	1548	1274	1101	983
Clinton	4603	4608	4378	4257	4089	3935	4003	4492	5013	5158	4688	4549	3664	2720	2413
Crawford	1203	1091	1018	1029	1021	942	975	1024	1047	985	968	1049	870	704	618
Dallas	1512	1525	1543	1474	1400	1345	1366	1582	1806	1882	1790	1839	1480	1290	1162
Davis	566	582	640	601	617	680	790	912	958	907	896	923	692	582	551
Decatur	1105	1050	977	918	850	833	883	900	978	909	858	838	761	708	648
Delaware	937	992	952	914	984	1074	1240	1595	1837	1754	1530	1597	1324	1227	1112
Des Moines	3828	3860	3624	3483	3348	3215	3142	3321	3547	3658	3666	3919	3550	3396	3025
Dickinson	629	612	609	616	570	636	642	642	650	684	694	774	708	630	579
Dubuque	4389	4597	4608	4422	4528	4705	5214	6217	6867	7048	7311	7728	6174	5139	4383
Emmet	768	817	865	823	810	770	777	897	1027	946	840	957	793	649	625
Fayette	1631	1694	1696	1628	1495	1529	1684	1960	2223	2137	1833	1984	1510	1170	977
Floyd	1417	1331	1329	1238	1216	1173	1214	1432	1542	1553	1500	1715	1445	1243	1158
Franklin	646	637	669	624	592	550	552	625	703	599	590	665	603	545	495
Fremont	734	662	638	567	544	564	554	590	617	587	544	529	449	443	449
Greene	658	644	599	599	511	475	500	582	677	740	699	735	674	601	552
Grundy	320	414	454	440	384	388	374	457	489	507	477	526	388	342	292
Guthrie	780	807	766	707	595	630	720	868	930	883	811	870	802	726	631
Hamilton	940	969	995	943	789	764	858	954	960	880	829	932	906	951	933
Hancock	590	652	673	637	631	538	573	669	730	620	516	681	632	536	569
Hardin	1389	1321	1246	1097	975	951	1056	1109	1127	954	841	885	862	784	645
Harrison	1206	1250	1282	1212	1129	1124	1120	1187	1207	1258	1229	1268	1122	945	906
Henry	1232	1209	1174	1120	990	889	820	851	954	1027	996	1062	896	820	796
Howard	574	575	535	501	535	556	593	774	918	841	782	761	550	472	486
Humboldt	542	590	587	538	527	506	597	660	679	668	579	575	501	548	477
Ida	290	320	302	307	222	215	248	308	353	305	269	281	292	231	236
Iowa	511	469	457	432	403	352	389	489	540	519	408	467	472	394	355
Jackson	1482	1476	1448	1451	1416	1443	1643	1961	2194	1970	1860	1834	1501	1150	1073
Jasper	1645	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	1301	1313	1279	1198	1096	1045	1004	1849	1119	1117	1154	1195	1125	912	839
Johnson	3010	2977	2826	2544	2263	2110	2078	2105	2131	2071	2040	2217	2132	1999	1705
Jones	983	1019	940	908	830	905	994	1184	1315	1257	1214	1316	1188	1049	914
Keokuk	891	948	921	980	906	853	855	960	1081	944	843	845	699	672	614
Kossuth	937	961	974	884	790	758	806	998	1061	909	741	857	816	757	643
Lee	3562	3681	3583	3398	3118	3076	3215	3572	3777	3772	3868	4087	3579	3050	2648
Linn	10955	10787	10637	10247	9451	9170	9800	11065	11717	11746	12203	12961	11584	10263	8603
Louisa	899	886	896	855	745	709	752	857	957	918	965	968	812	759	741
Lucas	935	856	834	794	738	726	773	876	988	1038	1026	1064	955	833	803
Lyon	461	461	460	397	411	412	446	560	627	597	515	515	458	375	291
Madison	642	667	643	623	554	576	553	651	742	732	712	766	667	543	468
Mahaska	1609	1684	1724	1726	1632	1578	1546	1813	2013	1974	1942	2088	1833	1599	1428
Marion	1682	1676	1575	1459	1344	1314	1442	1668	1838	1791	1865	1945	1562	1348	1292
Marshall	3012	3023	2953	2716	2483	2403	2498	2771	2794	2695	2804	2856	2522	2153	1875
Mills	998	932	906	870	757	657	717	800	796	767	771	845	783	682	594
Mitchell	377	416	468	427	387	406	478	527	578	584	539	659	606	535	457
Monona	850	879	944	906	819	809	806	961	1092	966	902	956	921	743	712
Monroe	831	823	784	769	787	820	919	965	1061	908	844	849	705	569	524
Montgomery	932	869	872	750	652	634	610	691	738	791	718	766	695	612	539
Muscatine	3531	3561	3600	3413	3262	3069	3102	3531	3602	3502	3225	3278	2915	2624	2672
O'Brien	564	573	592	464	443	421	557	733	812	720	716	691	539	480	426
Osceola	265	266	249	263	230	248	281	395	509	444	306	305	245	204	200
Page	1295	1294	1326	1363	1233	1247	1246	1329	1436	1426	1309	1396	1194	1036	920
Palo Alto	617	641	674	661	626	590	620	795	883	873	786	877	828	735	701
Plymouth	661	650	680	688	706	761	896	1056	1232	1133	994	993	911	864	740
Pocahontas	526	535	544	528	423	353	386	532	609	525	471	515	454	406	390
Polk	27254	27498	26387	24392	22267	21124	21199	22402	23914	24702	26324	29432	26502	24427	21586
Pottawattamie	8264	8363	8150	7588	6682	6181	5962	6029	6124	6264	6554	7407	7137	6905	6432
Poweshiek	946	946	930	893	775	657	736	901	1055	1073	934	972	819	742	637
Ringgold	511	531	494	480	467	468	542	608	559	623	553	511	423	377	372
Sac	603	590	611	603	559	548	529	632	715	677	685	651	597	451	400
Scott	16632	16474	15903	14971	14041	13471	13856	14735	14917	14735	14656	14678	12579	10217	9150
Shelby	631	658	657	597	532	443	503	632	665	636	618	614	541	446	433
Sioux	656	610	706	712	770	858	885	1084	1205	1001	897	935	846	733	742
Story	2504	2422	2318	2092	1907	1837	1812	2039	2029	2108	2140	2308	2016	1799	1597
Tama	914	987	1098	1009	876	825	923	1144	1210	1151	1141	1170	1014	1018	936
Taylor	554	560	519	565	548	518	529	652	759	776	702	698	591	532	547
Union	1188	1203	1153	1152	1100	1065	1039	1160	1251	1276	1221	1137	899	880	757
Van Buren	493	590	568	575	544	526	611	669	724	707	723	733	594	512	507
Wapello	4327	4361	4365	4197	3935	3967	4376	5039	5224	4472	4419	4541	3700	3337	2980
Warren	1739	1828	1764	1638	1485	1428	1446	1546	1685	1741	1683	1724	1472	1410	1229
Washington	969	960	968	944	908	886	928	989	1005	875	751	680	675	641	577
Wayne	648	694	680	630	631	599	699	753	819	847	799	750	662	547	545
Webster	3818	4036	3884	3750	3492	3462	3502	3914	4088	3790	3703	3884	3477	3122	2805
Winnebago	525	534	528	519	476	400	389	460	505	460	442	493	477	476	430
Winneshiek	758	796	760	716	704	747	875	1060	1220	1147	987	963	843	857	746
Woodbury	7247	8044	8581	8319	7646	7229	7728	9053	8842	8785	8840	8759	8049	7597	7145
Worth	363	449	445	412	407	354	401	484	521	476	499	557	515	477	425
Wright	859	829	853	796	733	622	643	766	873	859	806	860	779	793	792

State of Iowa 194193 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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	5.5	5.8	5.4	5.5	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	8.9	9.4	8.3	7.8	6.8	7.4	10.0	10.0	8.7	5.2	5.0	3.5	3.9	4.2
Allamakee	4.7	4.8	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	13.2	13.4	13.5	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	4.8	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	5.1	5.6	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	10.1	9.8	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	6.0	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	4.0	3.4	3.6	3.4	3.3	4.1	5.5	6.5	5.8	5.0	4.5	3.9	3.4	2.5
Buchanan	6.4	6.6	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	4.7	4.8	4.7	4.0	3.8	4.0	4.5	4.9	4.2	4.2	4.5	4.5	3.5	2.6
Butler	5.1	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	5.7	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	4.3	4.3	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	7.2	7.0	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	5.2	5.1	4.8	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	7.1	6.9	6.3	6.0	5.7	5.7	6.2	6.5	5.9	5.8	6.6	6.0	5.7	5.3
Cherokee	4.1	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	4.3	4.2	4.5	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	10.6	10.1	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	5.2	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	3.8	4.0	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	9.0	8.5	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	7.3	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	4.7	4.8	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	6.7	6.9	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	13.7	13.0	12.0	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	5.1	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	8.9	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	4.1	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	5.0	5.2	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	6.8	7.2	7.5	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	7.4	7.7	7.7	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	8.5	7.9	7.8	7.3	7.1	6.8	7.0	8.2	8.6	8.4	8.0	9.0	7.6	6.4	5.9
Franklin	5.8	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	8.9	8.1	7.8	6.9	6.6	6.8	6.6	6.8	7.1	6.6	6.0	5.8	4.9	4.8	4.8
Greene	6.6	6.4	5.9	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	2.6	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	6.9	7.2	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	5.9	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	4.9	5.4	5.4	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	7.5	7.1	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	8.1	8.4	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	6.3	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	5.8	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	5.2	5.6	5.6	5.0	4.9	4.7	5.5	6.0	6.0	5.7	4.9	4.8	4.2	4.5	3.9
Ida	3.5	3.8	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	3.4	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	7.3	7.3	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	4.7	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

Table 3. Average Monthly Percentage of All Residents Receiving Food Stamps in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	7.7	7.8	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	3.0	3.0	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	4.9	5.1	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	7.7	8.2	7.9	8.4	7.8	7.3	7.2	8.1	8.9	7.6	6.7	6.7	5.5	5.3	4.8
Kossuth	5.2	5.3	5.3	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	9.1	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	6.1	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	7.7	7.6	7.8	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	10.4	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	3.8	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	4.9	5.2	5.0	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	7.4	7.8	8.0	8.0	7.6	7.4	7.2	8.4	9.3	9.0	8.8	9.5	8.2	7.1	6.2
Marion	5.5	5.5	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	7.9	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	7.3	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	3.4	3.8	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	8.4	8.7	9.4	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	10.2	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	7.8	7.2	7.3	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	8.6	8.6	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	3.7	3.8	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	3.7	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	7.7	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	5.9	6.1	6.4	6.2	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	2.7	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	5.8	5.8	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	7.9	8.0	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	9.9	10.0	9.8	9.2	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	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	9.4	9.9	9.2	8.9	8.6	8.6	10.0	11.2	10.0	10.8	9.3	8.5	6.9	6.2	6.1
Sac	5.0	4.9	5.0	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	10.7	10.6	10.3	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	4.8	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	2.1	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	3.2	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	5.1	5.6	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	7.8	7.9	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	9.5	9.6	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	6.4	7.6	7.3	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	12.0	12.1	12.2	11.7	11.0	11.1	12.3	13.9	14.1	11.7	11.4	11.6	9.4	8.4	7.4
Warren	4.5	4.8	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	4.7	4.8	4.7	4.6	4.5	4.7	5.1	5.1	4.4	3.8	3.4	3.4	3.2	2.9
Wayne	9.3	9.9	9.7	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	9.7	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	4.4	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	3.6	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	7.2	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	4.6	5.6	5.6	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	6.0	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	6.9	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	319	349	319	296	261	220	218	264	321	341	287	274	209	180	126
Adams	265	283	298	266	220	187	207	281	276	242	132	120	77	94	80
Allamakee	459	461	421	379	323	313	368	425	487	444	389	380	355	315	257
Appanoose	1318	1337	1384	1202	1078	1036	1054	1049	1103	1130	1096	1109	885	712	541
Audubon	214	211	239	217	190	168	195	226	247	225	150	157	139	143	108
Benton	875	941	965	877	807	661	647	701	707	730	734	781	644	529	327
Black Hawk	9272	9275	9050	8368	7808	7463	7758	8453	8668	8394	8433	7683	6447	6055	4153
Boone	1183	1220	1202	1000	761	720	751	767	804	802	823	942	803	688	467
Bremer	649	630	544	552	489	427	514	644	758	689	614	550	455	407	236
Buchanan	936	947	1009	1040	908	855	966	1115	1208	1169	1072	1006	717	643	401
Buena Vista	649	670	689	611	491	419	427	449	498	436	424	441	421	334	191
Butler	529	462	537	536	473	430	473	573	651	599	508	477	359	333	210
Calhoun	448	440	457	398	338	313	334	403	417	368	278	277	252	248	191
Carroll	627	630	587	554	512	478	441	497	525	508	416	414	393	344	242
Cass	734	728	703	606	516	445	421	450	489	505	408	410	395	392	255
Cedar	659	673	626	559	503	456	466	524	516	482	431	429	405	340	280
Cerro Gordo	2337	2368	2336	2088	1808	1576	1511	1555	1574	1446	1386	1557	1362	1298	932
Cherokee	409	417	419	370	318	282	298	363	374	322	285	292	237	201	148
Chickasaw	378	373	387	365	339	315	381	505	550	507	450	436	305	271	161
Clarke	648	606	600	513	433	354	403	430	444	426	362	384	341	268	200
Clay	612	640	697	657	581	524	528	601	656	650	553	555	479	447	307
Clayton	488	498	550	514	502	503	540	625	737	740	674	762	605	510	388
Clinton	3546	3543	3461	3186	2807	2485	2424	2595	2771	2884	2518	2330	1743	1316	950
Crawford	863	776	743	695	627	530	533	525	529	490	451	486	393	305	219
Dallas	1175	1181	1186	1050	925	818	781	856	917	960	906	891	671	575	412
Davis	424	428	461	411	394	386	431	478	496	452	434	426	303	263	193
Decatur	763	715	660	581	496	442	442	432	461	436	395	379	316	293	216
Delaware	590	620	627	582	585	592	660	817	936	880	758	770	597	570	402
Des Moines	2916	2945	2763	2517	2230	1943	1795	1811	1842	1941	1914	1943	1716	1631	1172
Dickinson	456	430	422	403	337	348	346	310	306	329	312	344	310	270	197
Dubuque	3128	3292	3344	3064	2869	2735	2907	3322	3529	3677	3810	3952	2947	2503	1702
Emmet	529	556	602	565	515	427	401	440	491	464	392	411	334	280	207
Fayette	1077	1113	1110	1016	857	805	872	995	1096	1069	922	909	676	529	350
Floyd	963	894	872	773	707	604	616	711	731	737	679	760	619	535	386
Franklin	434	431	460	422	381	317	301	310	345	278	260	291	238	225	168
Fremont	493	429	414	357	316	289	283	289	284	285	250	238	192	179	151
Greene	442	439	413	392	303	260	260	271	304	352	315	330	297	257	183
Grundy	228	302	340	317	244	220	212	241	248	255	224	250	171	156	106
Guthrie	524	542	526	448	345	344	380	433	457	444	386	397	347	305	215
Hamilton	662	702	724	638	477	414	475	508	489	445	399	429	409	414	330
Hancock	405	435	458	394	354	280	299	324	357	301	230	298	275	230	199
Hardin	991	928	836	685	587	515	546	563	563	482	394	409	380	333	215
Harrison	800	822	869	774	668	604	583	578	567	605	552	553	468	389	312
Henry	883	875	834	737	624	506	467	443	474	513	489	504	407	391	289
Howard	378	372	352	307	299	292	310	393	464	414	376	368	256	195	164
Humboldt	353	398	390	335	297	262	310	321	313	330	253	258	219	249	174
Ida	188	201	196	187	119	107	126	145	162	143	118	121	123	99	80
Iowa	350	319	312	285	253	205	210	257	276	262	198	230	212	181	136
Jackson	1047	1032	1017	988	879	825	907	1032	1116	1014	921	889	678	522	374
Jasper	1199	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	1030	1040	985	890	731	637	609	589	596	606	601	588	532	439	309
Johnson	2431	2371	2225	1852	1500	1298	1246	1214	1152	1140	1090	1162	1090	1049	680
Jones	706	724	672	605	512	519	559	626	677	668	611	646	559	493	346
Keokuk	597	655	661	668	567	492	467	486	526	481	406	388	310	286	209
Kossuth	624	633	645	577	465	392	415	487	509	439	333	373	340	329	219
Lee	2637	2757	2696	2455	2071	1870	1909	2019	2039	2074	2044	2124	1751	1508	1028
Linn	8518	8361	8202	7516	6418	5709	5893	6340	6453	6582	6722	6927	5994	5460	3556
Louisa	675	657	662	598	491	424	437	464	494	488	484	459	374	328	272
Lucas	665	601	590	527	469	426	424	459	500	522	501	516	461	388	280
Lyon	283	287	279	224	218	200	222	269	296	272	218	229	199	169	106
Madison	449	478	459	419	355	338	315	343	374	375	338	367	297	238	160
Mahaska	1159	1196	1218	1159	1020	903	844	959	998	989	925	1020	863	765	551
Marion	1232	1262	1171	1018	855	765	810	889	968	955	945	947	737	627	480
Marshall	2244	2277	2218	1924	1646	1473	1466	1511	1482	1448	1440	1435	1216	1035	725
Mills	758	685	643	582	480	388	405	415	387	391	366	385	344	301	213
Mitchell	246	279	324	265	220	210	243	264	285	281	253	304	260	224	149
Monona	572	593	634	586	480	429	415	462	521	470	405	433	409	323	244
Monroe	577	572	558	524	497	477	517	528	566	484	432	424	321	258	189
Montgomery	649	615	631	517	401	351	327	348	355	400	352	371	329	277	195
Muscatine	2719	2652	2658	2414	2158	1849	1804	1959	1965	1947	1711	1678	1463	1274	1077
O'Brien	338	351	363	279	247	220	279	351	372	332	303	295	240	213	154
Osceola	179	173	170	168	134	128	141	193	253	238	151	141	106	85	69
Page	853	868	879	842	713	673	645	643	688	685	620	630	511	442	317
Palo Alto	396	437	455	410	344	300	314	392	425	425	355	397	358	320	238
Plymouth	420	416	437	413	391	393	459	536	610	539	457	461	415	397	281
Pocahontas	338	347	373	337	248	194	200	264	301	246	207	216	196	173	137
Polk	22643	23693	21300	18647	15570	13413	12840	12646	12987	13553	14026	15501	13618	12672	8884
Pottawattamie	6443	6453	6282	5610	4557	3832	3552	3292	3205	3322	3311	3655	3357	3233	2423
Poweshiek	696	700	684	613	480	378	409	463	512	541	472	471	390	353	241
Ringgold	327	351	330	310	267	251	283	293	262	307	262	232	187	157	122
Sac	396	377	408	381	316	276	250	290	336	314	308	290	244	185	127
Scott	13465	13338	12767	11283	9912	8763	8652	8704	8457	8410	8127	7966	6698	5430	3920
Shelby	442	437	430	388	315	239	269	314	321	309	293	295	245	207	157
Sioux	400	367	428	408	393	408	418	475	546	437	373	394	352	305	254
Story	2143	1988	1835	1521	1278	1152	1077	1110	1046	1121	1082	1129	955	871	632
Tama	631	685	783	687	556	483	519	590	634	572	545	544	453	451	331
Taylor	372	374	355	346	298	253	259	307	344	385	321	297	240	200	173
Union	842	830	811	767	673	589	547	577	617	649	605	543	413	390	268
Van Buren	349	411	399	386	333	293	328	335	357	366	353	353	282	229	185
Wapello	3148	3166	3180	2898	2542	2400	2514	2741	2707	2344	2233	2180	1688	1499	1039
Warren	1323	1396	1325	1150	986	862	842	828	869	916	844	836	690	659	453
Washington	683	674	698	635	565	518	532	529	516	455	380	303	297	298	211
Wayne	418	451	446	390	363	319	356	356	400	436	368	349	293	235	188
Webster	2809	2972	2863	2593	2226	2013	1965	2054	2064	1922	1830	1838	1590	1416	984
Winnebago	362	371	360	331	281	217	203	214	237	215	195	223	196	204	152
Winneshiek	493	528	505	452	414	405	469	543	596	559	458	448	381	391	271
Woodbury	5274	5845	6208	5677	4810	4133	4280	4730	4430	4515	4367	4263	3760	3536	2669
Worth	260	319	315	272	250	196	212	256	260	240	232	263	239	223	152
Wright	608	590	589	545	474	372	356	393	473	474	410	427	364	364	298
State of Iowa	145639	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	57.98	59.78	58.85	53.23	48.55	45.86	42.62	40.82	41.46	42.58	40.75	38.51	37.31	37.22	30.52
Adams	54.94	57.99	57.11	56.20	48.55	45.88	45.74	44.83	44.06	43.91	39.08	36.50	32.49	35.59	27.80
Allamakee	57.91	56.83	55.36	51.89	48.04	43.94	42.38	42.09	42.07	41.67	38.95	38.99	37.71	36.48	29.56
Appanoose	60.74	60.13	61.82	57.52	53.55	49.23	46.95	43.57	41.56	42.61	40.36	39.98	37.91	37.34	29.25
Audubon	53.82	54.35	53.78	54.19	48.92	45.45	47.66	44.16	43.01	41.14	37.87	39.22	37.06	35.84	29.80
Benton	60.29	59.83	58.77	57.57	53.03	48.38	46.23	42.85	41.83	43.27	42.05	41.15	37.72	39.95	30.19
Black Hawk	62.16	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	65.09	64.90	58.99	53.01	48.15	48.04	45.10	42.98	43.66	43.40	42.23	40.82	41.46	30.97
Bremer	57.71	56.48	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	57.45	56.58	58.89	57.23	52.72	48.34	47.10	44.64	43.24	44.27	43.32	40.46	37.80	38.64	30.28
Buena Vista	57.84	58.95	59.77	54.79	51.45	45.56	43.79	40.96	41.54	41.65	39.92	39.04	37.78	37.62	29.07
Butler	54.78	54.03	56.14	55.25	49.94	45.15	43.49	41.67	40.80	41.38	40.78	39.06	37.24	38.58	29.02
Calhoun	56.87	56.08	56.13	53.21	48.21	46.11	43.66	41.64	40.26	41.37	38.92	37.44	36.40	36.46	28.75
Carroll	56.65	56.29	56.78	53.48	49.14	44.52	43.24	40.19	38.88	38.81	36.71	37.06	36.36	35.74	28.90
Cass	56.14	57.45	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	60.36	62.41	60.79	57.25	53.51	49.74	48.26	46.34	44.28	44.41	43.61	41.82	41.27	41.04	33.48
Cerro Gordo	59.58	60.03	60.64	58.23	53.42	49.03	46.51	44.16	42.01	41.88	41.09	40.74	38.94	39.03	30.38
Cherokee	59.93	58.08	59.66	55.40	50.67	46.17	44.93	43.58	40.49	39.24	38.12	37.77	34.14	33.00	25.67
Chickasaw	54.93	55.67	53.74	53.90	49.39	44.41	44.35	42.87	41.65	41.59	40.00	39.14	36.34	37.05	26.96
Clarke	62.51	59.57	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	55.16	53.89	55.81	52.84	49.49	45.05	42.47	40.47	40.81	41.33	38.86	38.89	37.36	37.60	29.62
Clayton	57.33	54.48	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	64.20	64.07	65.87	62.37	57.20	52.60	50.46	48.15	46.06	46.59	44.76	42.69	39.63	40.33	32.82
Crawford	59.81	59.28	60.81	56.37	51.13	46.82	45.54	42.68	42.12	41.42	38.81	38.61	37.70	36.08	29.61
Dallas	64.75	64.55	64.03	59.36	55.07	50.71	47.66	45.07	42.30	42.51	42.16	40.35	37.77	37.13	29.52
Davis	62.43	61.23	60.00	56.91	53.32	47.35	45.44	43.64	43.11	41.57	40.35	38.46	36.56	37.63	29.22
Decatur	57.50	56.72	56.29	52.72	48.71	44.18	41.68	40.00	39.37	39.93	38.38	37.71	34.56	34.46	27.78
Delaware	52.49	52.09	54.94	53.06	49.49	45.90	44.35	42.70	42.46	41.79	41.30	40.20	37.61	38.71	30.13
Des Moines	63.47	63.57	63.52	60.21	55.50	50.36	47.61	45.44	43.28	44.23	43.52	41.31	40.28	40.02	32.30
Dickinson	60.40	58.53	57.80	54.55	49.30	45.60	44.86	40.19	39.23	40.06	37.44	37.08	36.44	35.71	28.32
Dubuque	59.39	59.68	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	57.45	56.72	58.03	57.23	52.96	46.23	42.99	40.80	39.82	40.80	38.87	35.74	35.06	36.06	27.68
Fayette	55.05	54.73	54.54	52.03	47.76	43.88	43.11	42.30	41.07	41.69	41.93	38.16	37.35	37.69	29.79
Floyd	56.61	55.98	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	56.01	56.37	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	55.94	54.00	54.08	52.56	48.35	42.73	42.60	40.85	38.41	40.37	38.30	37.43	35.63	33.86	28.06
Greene	55.93	56.83	57.60	54.59	49.51	45.68	43.40	38.83	37.37	39.73	37.61	37.41	36.80	35.61	27.72
Grundy	59.44	60.80	62.56	60.00	53.13	47.42	47.33	43.76	42.13	42.01	39.12	39.73	36.60	38.01	30.14
Guthrie	55.98	55.96	57.18	52.76	48.40	45.56	44.03	41.47	40.97	41.90	39.69	38.05	36.03	34.99	28.37
Hamilton	58.69	60.40	60.60	56.42	50.32	45.16	46.15	44.34	42.40	42.16	40.12	38.30	37.64	36.28	29.47
Hancock	57.27	55.57	56.76	51.49	46.75	43.31	43.46	40.36	40.68	40.48	37.20	36.56	36.23	35.82	29.17
Hardin	59.48	58.53	55.86	52.05	50.15	45.11	43.09	42.29	41.61	42.14	39.09	38.53	36.77	35.46	27.75
Harrison	55.27	54.82	56.47	53.22	49.25	44.75	43.39	40.52	39.19	40.06	37.45	36.36	34.76	34.39	28.70
Henry	59.75	60.31	59.20	54.82	52.53	47.47	47.44	43.48	41.40	41.58	40.91	39.55	37.83	39.76	30.28
Howard	54.85	53.95	54.77	51.10	46.54	43.71	43.51	42.38	42.16	41.02	40.07	40.34	38.73	34.53	28.19
Humboldt	54.24	56.28	55.37	51.86	47.06	43.08	43.38	40.61	38.44	41.17	36.39	37.39	36.33	37.77	30.40
Ida	53.90	52.25	53.97	50.81	44.59	41.40	42.34	39.29	38.24	39.02	36.61	35.94	34.93	35.50	28.39
Iowa	57.01	56.72	56.89	55.09	52.36	48.58	44.99	43.76	42.59	42.00	40.35	41.11	37.50	38.32	31.83
Jackson	58.85	58.25	58.56	56.79	51.77	47.68	46.01	43.86	42.39	42.89	41.27	40.40	37.64	37.83	28.98
Jasper	60.75	61.64	61.64	57.65	53.27	47.83	46.75	44.19	42.38	42.08	41.32	41.33	39.78	39.82	31.88

Table 5. Average Food Stamp Benefits (in \$) Received Per Person Per Month in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	66.01	65.98	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	67.30	66.37	65.61	60.69	55.24	51.23	50.00	48.08	45.05	45.87	44.53	43.66	42.59	43.72	33.26
Jones	59.87	59.19	59.57	55.62	51.45	47.85	46.88	44.09	42.89	44.31	41.95	40.88	39.23	39.08	31.51
Keokuk	55.82	57.61	59.72	56.84	52.10	48.07	45.50	42.19	40.61	42.48	40.16	38.22	37.05	35.42	28.50
Kossuth	55.52	54.86	55.13	54.41	48.99	43.01	42.93	40.58	39.96	40.26	37.42	36.29	34.80	36.20	28.46
Lee	61.70	62.42	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	64.79	64.59	64.26	61.12	56.59	51.88	50.11	47.75	45.90	46.70	45.90	44.54	43.12	44.33	34.44
Louisa	62.59	61.82	61.61	58.25	54.90	49.79	48.40	45.04	43.05	44.34	41.81	39.57	38.30	35.97	30.50
Lucas	59.25	58.55	58.99	55.29	52.98	48.90	45.67	43.72	42.11	41.91	40.73	40.41	40.21	38.90	29.14
Lyon	51.08	51.81	50.65	47.10	44.04	40.53	41.48	40.00	39.39	37.86	35.35	37.09	36.24	37.60	30.24
Madison	58.28	59.78	59.41	56.02	53.43	48.96	47.56	43.93	41.91	42.76	39.54	39.95	37.03	36.46	28.42
Mahaska	60.03	59.18	58.87	55.97	52.08	47.72	45.47	44.07	41.28	41.74	39.69	40.71	39.23	39.90	32.14
Marion	61.04	62.76	61.97	58.12	52.98	48.55	46.81	44.42	43.91	44.44	42.23	40.57	39.31	38.80	30.96
Marshall	62.09	62.76	62.58	59.06	55.26	51.10	48.88	45.47	44.20	44.79	42.79	41.88	40.17	40.08	32.21
Mills	63.26	61.24	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
Mitchell	54.30	55.85	57.69	51.76	47.29	43.10	42.47	41.75	41.18	40.07	39.09	38.39	35.81	34.95	27.13
Monona	56.07	56.23	56.04	53.97	48.84	44.25	42.93	40.06	39.74	40.48	37.43	37.76	37.02	36.20	28.51
Monroe	57.82	57.90	59.31	56.83	52.60	48.54	46.79	45.60	44.49	44.38	42.61	41.70	37.87	37.79	30.15
Montgomery	58.01	58.95	60.32	57.47	51.23	46.21	44.59	41.97	40.11	42.23	40.86	40.34	39.42	37.75	30.06
Muscatine	64.17	62.05	61.53	58.92	55.12	50.21	48.45	46.25	45.45	46.32	44.20	42.65	41.82	40.47	33.61
O'Brien	49.87	51.02	51.01	50.00	46.50	43.47	41.83	39.97	38.18	38.47	35.28	35.60	37.11	37.08	30.05
Osceola	56.35	54.27	56.63	53.23	48.70	42.74	41.99	40.76	41.26	44.59	41.00	38.36	35.92	34.80	29.00
Page	54.87	55.90	55.28	51.50	48.18	44.99	43.10	40.26	39.90	40.04	39.49	37.61	35.68	35.52	28.70
Palo Alto	53.49	56.77	56.23	51.74	45.85	42.37	42.10	41.01	40.09	40.55	37.63	37.63	35.99	36.33	28.25
Plymouth	53.01	53.37	53.53	50.00	46.03	43.10	42.63	42.23	41.23	39.72	38.28	38.67	37.98	38.31	31.62
Pocahontas	53.56	54.02	57.17	53.22	48.94	45.89	43.01	41.35	41.22	39.05	36.66	34.95	35.90	35.47	29.23
Polk	69.23	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
Pottawattamie	64.98	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
Poweshiek	61.30	61.65	61.29	57.22	51.61	47.95	46.33	42.84	40.47	42.03	42.15	40.43	39.68	39.76	31.55
Ringgold	53.34	55.09	55.67	53.75	47.54	44.66	43.54	40.13	39.00	41.09	39.41	37.96	36.64	34.75	27.42
Sac	54.71	53.27	55.65	52.74	47.05	41.97	39.32	38.29	39.16	38.70	37.43	37.17	34.00	34.15	26.50
Scott	67.47	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	58.40	55.29	54.49	54.27	49.44	44.92	44.53	41.30	40.30	40.57	39.45	40.07	37.71	38.79	30.02
Sioux	50.76	50.14	50.57	47.75	42.60	39.63	39.32	36.53	37.76	36.36	34.64	35.08	34.75	34.65	28.57
Story	71.31	68.41	65.96	60.56	55.85	52.26	49.50	45.37	42.98	44.35	42.13	40.77	39.43	40.36	33.00
Tama	57.57	57.86	59.38	56.69	52.85	48.85	46.80	43.01	43.64	41.36	39.81	38.72	37.28	36.84	29.49
Taylor	55.88	55.69	57.03	50.97	45.26	40.73	40.83	39.26	37.81	41.24	38.05	35.39	33.84	31.39	26.33
Union	59.07	57.51	58.63	55.47	51.00	46.10	43.89	41.47	41.09	42.40	41.29	39.75	38.26	36.93	29.46
Van Buren	58.98	58.11	58.45	55.83	51.10	46.39	44.68	41.85	41.16	43.14	40.71	40.11	39.56	37.11	30.37
Wapello	60.63	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	63.40	63.65	62.59	58.49	55.29	50.28	48.55	44.63	42.97	43.88	41.80	40.43	39.06	38.94	30.76
Washington	58.77	58.48	60.02	56.04	51.87	48.76	47.74	44.59	42.79	43.31	42.20	37.06	36.74	38.69	30.50
Wayne	53.77	54.10	54.56	51.59	47.86	44.41	42.49	39.31	40.78	42.86	38.43	38.80	36.86	35.83	28.81
Webster	61.32	61.36	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	57.44	57.97	56.82	52.99	49.37	45.25	43.70	38.91	39.21	38.91	36.67	37.73	34.17	35.71	29.30
Winneshiek	54.19	55.27	55.39	52.65	49.01	45.11	44.69	42.64	40.74	40.63	38.65	38.73	37.60	38.04	30.29
Woodbury	60.64	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	59.75	59.28	59.10	55.10	51.11	46.05	43.89	44.01	41.46	42.02	38.79	39.32	38.64	38.99	29.88
Wright	58.98	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	62.50	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, 1984-1994.

County	Percentage Change from 1984 to 1994 in:			
	Estimated Population	Persons Receiving Food Stamps	Total Annual Food Stamp Benefits	Average Food Stamp Benefits Received Per Person Per Month
Adair	-8.9	-22.0	11.1	42.3
Adams	-16.0	42.6	100.8	40.6
Allamakee	-6.0	-20.6	18.0	48.7
Appanoose	-6.2	-20.1	20.3	50.5
Audubon	-16.3	0.6	42.7	42.1
Benton	3.8	-16.8	19.2	43.4
Black Hawk	-7.6	-19.7	9.9	36.9
Boone	-1.7	-4.2	43.7	50.0
Bremer	-4.5	-22.8	5.7	36.9
Buchanan	-4.3	-34.1	-12.7	32.6
Buena Vista	-4.1	5.6	53.1	44.9
Butler	-8.1	-22.4	4.1	34.3
Calhoun	-9.3	10.3	61.2	46.1
Carroll	-5.2	-2.2	50.7	54.3
Cass	-10.5	28.1	79.9	40.5
Cedar	-4.8	10.6	52.9	38.4
Cerro Gordo	-3.1	16.3	68.6	45.0
Cherokee	-11.7	-8.5	43.5	57.2
Chickasaw	-10.2	-38.7	-16.0	37.3
Clarke	-3.8	18.8	79.0	50.5
Clay	-7.0	-22.1	10.7	42.0
Clayton	-8.1	-49.3	-27.6	42.7
Clinton	-6.6	-1.8	40.8	43.4
Crawford	-12.0	24.3	91.4	54.1
Dallas	10.0	-15.5	29.7	53.6
Davis	-5.2	-36.8	-2.3	54.7
Decatur	-11.3	28.8	93.2	49.8
Delaware	-2.3	-38.8	-22.2	27.1
Des Moines	-3.4	4.4	52.4	45.9
Dickinson	1.7	-9.4	46.2	61.3
Dubuque	-1.6	-40.0	-17.9	36.8
Emmet	-11.7	-8.6	34.9	47.8
Fayette	-9.3	-11.0	16.8	31.3
Floyd	-11.1	-5.5	41.8	50.0
Franklin	-11.5	9.5	66.9	52.3
Fremont	-9.0	34.9	97.2	46.1
Greene	-12.6	-5.9	40.3	48.7
Grundy	-10.3	-32.9	1.8	51.9
Guthrie	-2.7	-3.8	35.8	41.0
Hamilton	-6.8	13.4	65.9	46.3
Hancock	-10.1	14.3	76.1	53.9
Hardin	-12.8	65.2	151.5	52.2
Harrison	-4.4	-1.9	44.9	47.6
Henry	6.2	23.7	80.6	46.0
Howard	-9.0	-26.6	0.5	36.9
Humboldt	-12.3	-6.4	39.5	49.0
Ida	-5.8	7.8	59.3	47.2
Iowa	-1.3	25.2	76.8	41.3
Jackson	-7.3	-20.3	13.7	42.6
Jasper	0.2	-29.4	3.8	47.0

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, 1984-1994 (continued).

County	Percentage Change from 1984 to 1994 in:			
	Estimated Population	Persons Receiving Food Stamps	Total Annual Food Stamp Benefits	Average Food Stamp Benefits Received Per Person Per Month
Jefferson	2.9	12.7	71.4	52.1
Johnson	14.5	47.5	123.0	51.1
Jones	0.2	-19.0	15.5	42.7
Keokuk	-7.9	5.7	47.0	39.0
Kossuth	-12.7	26.5	87.4	48.4
Lee	-6.1	-7.9	29.0	40.1
Linn	7.0	-10.2	26.7	41.2
Louisa	-2.6	-6.8	39.5	49.7
Lucas	-10.5	-8.9	32.7	45.5
Lyon	-5.5	-10.5	29.8	44.5
Madison	6.6	-9.8	32.8	47.4
Mahaska	-1.7	-17.1	25.3	51.3
Marion	3.5	-9.8	30.4	44.5
Marshall	-6.9	7.4	55.8	45.1
Mills	2.5	29.4	107.1	59.9
Mitchell	-4.8	-30.1	-2.8	38.9
Monona	-10.2	-5.8	41.2	49.8
Monroe	-6.4	-1.5	33.6	35.7
Montgomery	-8.7	29.8	84.4	42.0
Muscatine	0.9	9.5	58.9	45.2
O'Brien	-7.9	-21.2	11.6	41.4
Osceola	-11.4	-13.4	18.5	37.4
Page	-7.9	-1.1	37.6	39.0
Palo Alto	-14.3	-21.5	11.5	42.1
Plymouth	0.8	-33.5	-8.1	38.5
Pocahontas	-15.8	11.7	63.3	46.1
Polk	12.6	3.5	61.4	55.9
Pottawattamie	-2.6	26.1	94.6	54.3
Poweshiek	1.1	1.3	47.5	45.4
Ringgold	-9.3	-7.6	24.8	35.4
Sac	-8.6	-12.0	28.6	46.2
Scott	-0.2	13.5	65.7	46.0
Shelby	-10.8	2.1	50.9	48.1
Sioux	1.4	-26.9	7.2	46.6
Story	1.9	17.0	98.1	69.3
Tama	-6.4	-19.9	15.8	44.6
Taylor	-12.0	-21.1	15.9	46.9
Union	-7.6	-2.7	39.2	43.1
Van Buren	-7.0	-31.8	-1.1	44.9
Wapello	-7.5	-2.1	41.0	44.0
Warren	10.7	3.3	56.8	51.7
Washington	2.4	29.0	79.7	39.3
Wayne	-11.2	-18.9	13.6	39.9
Webster	-9.1	3.1	53.5	48.9
Winnebago	-5.5	18.8	85.6	56.6
Winneshiek	-3.1	-23.2	7.6	40.2
Woodbury	1.4	-18.0	20.8	47.3
Worth	-10.7	-27.3	12.1	54.0
Wright	-10.1	6.6	48.3	39.0
State of Iowa	-1.0	-4.3	40.6	46.9

in these household numbers. The state figure in 1994 is only 1,137 households lower than the 1986 high point.

### **Persons Receiving Food Stamps**

In 1994, Iowa had an average of 194,193 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 15 years was 148,268 in 1980 (Figure 1).

Polk averaged more monthly food stamp recipients (27,254) in 1994 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-two counties averaged from 1,000 to 4,999 recipients monthly.

The average number of persons receiving food stamps in the state was 2,410 lower in 1994 than in 1993. Sixty-two counties followed this trend as well, with fewer persons in the program in the later year. Seven had decreases greater than 100, with Woodbury (-797) the highest. Thirty-five counties reported increases between 1993 and 1994, with only three (Crawford, Linn, Scott) noting gains of at least 100.

Comparing 1984 and 1994, Iowa had an average of 8,714 fewer persons in the food stamp program at the end of the period. Sixty counties followed this trend, with Black Hawk, Dubuque, Linn, and Woodbury counting at least 1,000 fewer in 1994 than in 1984. Twenty-five counties had increases of at least 100, although Pottawattamie and Scott were the only ones with gains greater than 1,000.

A review of the entire period indicates that Iowa is slightly below 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. In 1994, a decline occurred in three-fifths of the counties.

### **Percentage of the Population Receiving Food Stamps**

An average of 6.9 percent of Iowa's population received food stamps each month during 1994 (Table 3). The percentage for the state had been 7.0 the previous year and less than that between 1988 and 1992. The highest percentages of Iowans receiving food stamps during the period occurred in 1983 (7.4%), 1985 (7.3%), and 1986 (7.5%), while the lowest was in 1980 (5.1%).

In 1994, 59 counties averaged a lower percentage of residents receiving food stamps than did the state. Grundy, Plymouth, and Sioux each had less than 3 percent of their populations in the food stamp program. Thirty-nine counties in 1994 had a higher percentage of residents receiving food stamps than the state total. Eight listed at least 10.0 percent of their populations in the program with the highest percentage at 13.7 percent in Decatur (Figure 2).

A majority of the counties (55) had a lower percentage of their population in the food stamp program in 1994 than in 1993. For 28 counties, the percentage of persons receiving food stamps was higher at the end of the period than the beginning. Percentage point changes in either direction were small, however; only Van Buren and Worth had changes of at least a percentage point. Sixteen counties reported no change between the two years. For 51 counties, the percentage of residents in the program was higher in 1994 than in 1984. Increases of at least 2.0 percentage points occurred in nine counties; eight 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 15 years examined. Comparing 1986 with both 1980 and 1994 illustrates the high level of food stamp use in Iowa in the middle of the period and the 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 1994, there were three counties with this low level of

participation, while there were two 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 8 counties at that level in 1994 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 15 years.

### **Total Annual Benefits Received**

In 1994, Iowa distributed nearly \$146 million in food stamp benefits (Table 4, Figure 3). This was \$2 million less than the total in 1993. Total costs of the program grew substantially from 1989 to 1993.

Benefits were greater in Polk (\$22.6 million) than any other county, followed by Scott (\$13.5 million), Black Hawk (\$9.3 million), and Linn (\$8.5 million). In contrast, Adams, Audubon, Grundy, Ida, Lyon, Mitchell, Osceola, and Worth each reported less than \$300,000 in food stamp benefits.

Comparing 1994 with 1984 shows that state benefits increased by more than \$42 million; 90 counties had higher benefits in the more recent year. Polk (+\$8.6 million), Scott (+\$5.3 million), and Pottawattamie (+\$3.1 million) experienced the largest increases. Of the nine counties with lower benefits in 1994 than 1984, Dubuque (-\$682,000) was the only one in which the decline exceeded \$200,000.

Iowa's total food stamp benefits increased 40.6 percent between 1984 and 1994, although four counties (Adams, Hardin, Johnson, Mills) experienced gains greater than 100 percent during this period. Five others (Crawford, Decatur, Fremont, Pottawattamie, Story) increased at least 90 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 1994, each person in the food stamp program averaged a monthly benefit of \$62.50, which was slightly lower (-\$0.16) than the average benefit in 1993 (Table 5, Figure 4).

Iowa's counties varied significantly in the average monthly benefit received (Figure 5). O'Brien's average of \$49.87 was lowest in 1994; Delaware, Lyon, and Sioux also had averages of less than \$53.00. Benefits greater than \$65.00 occurred in Boone, Jefferson, Johnson, Polk, Scott, and Story, with Story's average of \$71.31 the highest.

Although the average statewide benefit decreased between 1993 and 1994, only 42 of the 99 counties averaged less per person in 1994 than one year earlier. All counties reported higher average monthly benefits in 1994 than in 1984. The statewide increase across these 10 years was \$19.96, with county increases ranging from gains of \$11.20 (Delaware) to \$29.18 (Story). The monthly benefit increased 46.9 percent in Iowa over this period. Delaware's gain of 27.1 percent was the only one under 30 percent, while Dickinson and Story increased by more than 60 percent. These figures can be compared against the rate of inflation, which was 41.0 percent as measured by the change in the consumer price index from 1984 to 1994.

### **Changes Between 1984 and 1994**

Changes in total benefits between 1984 and 1994 are affected by population trends, participation in the program, and benefits provided per person. Annual population estimates indicate that Iowa's population declined by 1.0 percent between 1984 and 1994. Decreases occurred in 78 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 78 counties that declined in population, 49 had fewer people in the food stamp program in 1994 than in 1984, but 29 experienced increased numbers receiving food stamps (Table 6). In the 49 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 8.1 percent but food stamp participants dropped by 49.3 percent; on the other hand, Greene had 12.6 percent fewer people but only a 5.9 percent decline in food stamp recipients.

Changes in participation in the food stamp program varied in the 21 counties that gained population between 1984 and 1994 as well. Ten had more persons in the food stamp program at the end of the period than the beginning while eleven 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 1984 and 1994, the four counties (Adams, Hardin, Johnson, Mills) for which total benefits increased by more than 100 percent also experienced relatively great percentage gains in recipients of food stamps (Table 6). The other 14 counties with participant increases exceeding 15 percent all saw total benefits rise by at least 65 percent. Of the 39 counties that had more persons in the program in 1994 than in 1984, all but four reported an increase in total benefits of at least 50 percent. In contrast, of the 60 counties for which participants declined, only one 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, Clayton's average monthly benefit gained 42.7 percent from 1984 to 1994 but the total paid declined by 27.6 percent. Cedar, which had a 38.4 percent increase in average monthly benefits, reported a total benefit increase of 52.9 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, 1980-1994.

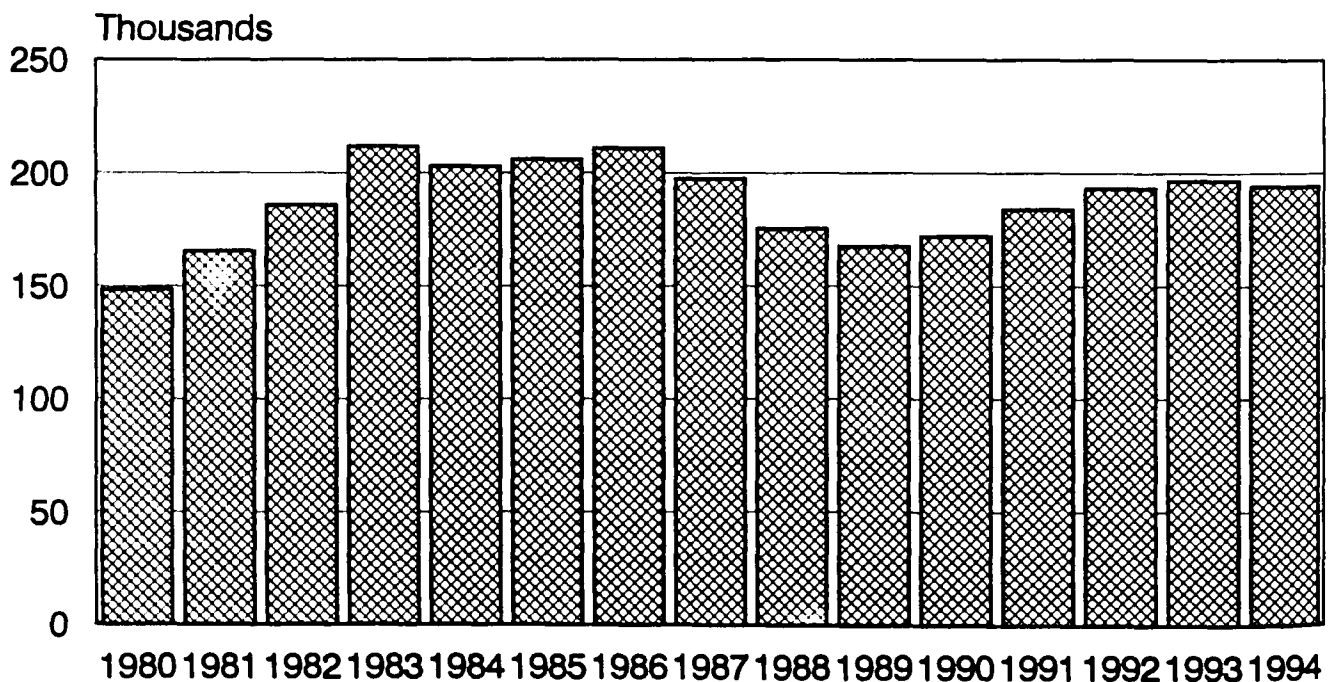


Figure 2. Percent receiving food stamps, 1994.

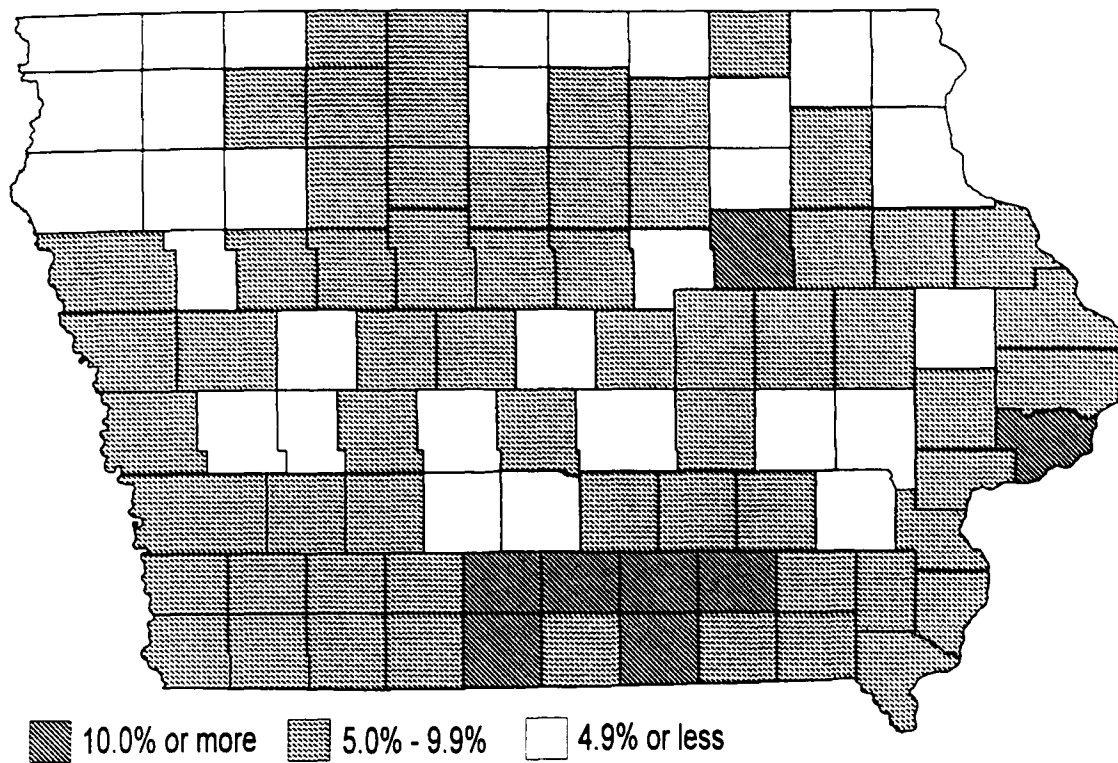


Figure 3. Total annual food stamp benefits in Iowa, 1980-1994.

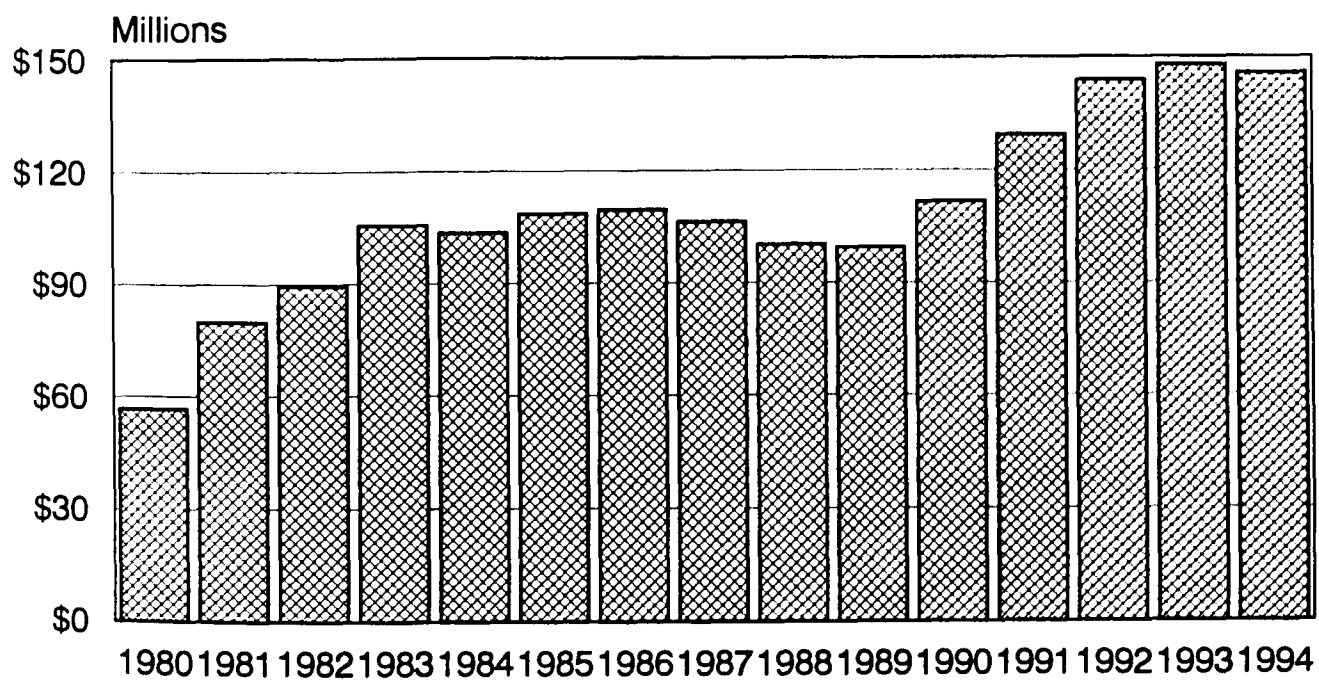


Figure 4. Average monthly food stamp benefits (in \$) per recipient in Iowa, 1980-1994.

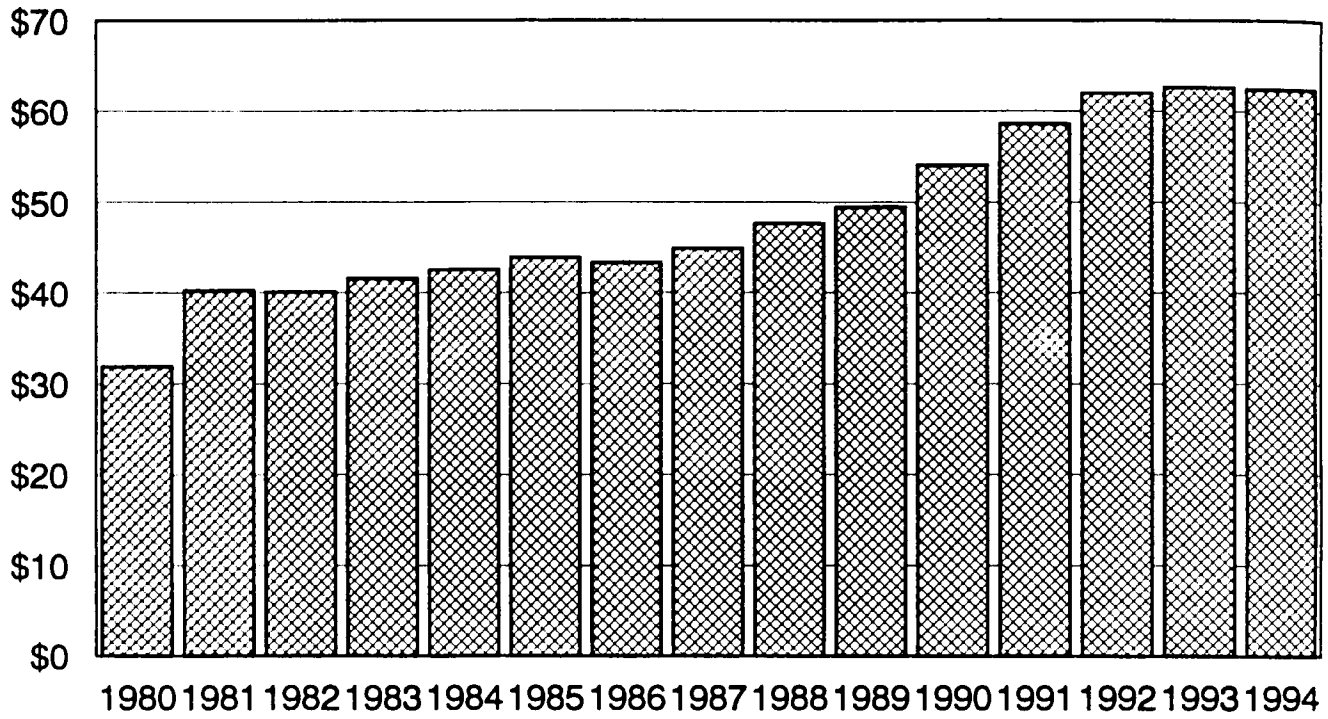
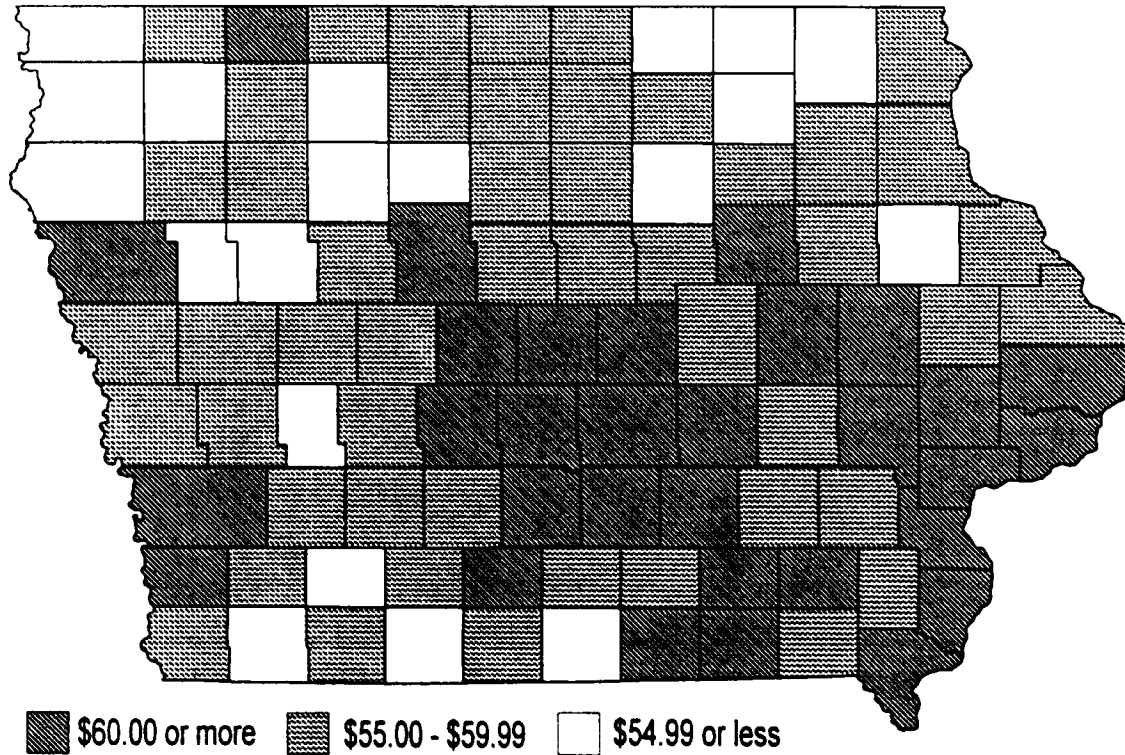


Figure 5. Average monthly food stamp benefit per recipient, 1994.



## Medical Services Provided Under Title XIX of the Social Security Act in Iowa's Counties: 1980-1994

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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 1994; numbers from monthly reports were summed and divided by 12.

### Persons Eligible for Title XIX Assistance

In 1994, Iowa averaged nearly 236,000 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 15 years reported. The figure for 1982, the lowest of those reported, was nearly 148,000.

Polk averaged 30,000 persons eligible for medical assistance each month in 1994, the highest of any county. Black Hawk, Linn, and Scott were the only other counties with more than 10,000. Fifty-nine counties had from 1,000 to 9,999 persons eligible for Title XIX assistance. Grundy and Osceola were the only counties with fewer than 400 persons eligible while four others (Adams, Audubon, Ida, Worth) were below 500.

The state averaged 68,265 more persons eligible for the Title XIX program in 1994 than in 1984. All counties but Grundy (-18) followed that pattern with more persons eligible for the program at the end of the period than at the beginning. Seventeen reported at least 1,000 more persons eligible in 1994 than in 1984. Fourteen had fewer than 200 more eligible in 1994 than 10 years earlier; the difference was less than 100 in Davis, Delaware, Osceola, and Worth.

Iowa had 40.7 percent more persons eligible for Title XIX assistance in 1994 than in 1984. Fifty-eight counties had percentage increases larger than that for the state. Four (Crawford, Hancock, Johnson, Story) had gains of 100 percent or more. Delaware and Dubuque were the only counties reporting increases of less than 10 percent, while Grundy had a decrease.

### 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 1994, more than 199,000 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 15 years studied (Figure 1).

Table 1. Average Monthly Number Eligible for Title XIX Benefits in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	603	561	509	477	445	375	368	423	472	437	405	391	352	392	396
Adams	487	452	443	420	362	329	336	376	341	301	246	214	176	207	216
Allamakee	982	975	933	782	716	685	671	697	749	738	706	681	703	796	850
Appanoose	2061	2010	1950	1847	1782	1767	1752	1762	1829	1790	1793	1695	1504	1505	1537
Audubon	479	446	461	437	372	348	331	331	351	342	277	284	298	348	358
Benton	1527	1477	1474	1375	1315	1143	1119	1157	1086	1118	1107	1013	918	943	911
Black Hawk	14130	13593	13214	12960	12748	12719	12405	13283	13413	12666	12058	10340	9404	9855	9894
Boone	2217	2217	2112	1970	1850	1881	1837	1865	1902	1895	1857	1809	1739	1831	1881
Bremer	1326	1225	1066	1039	925	826	862	972	1020	975	953	824	737	792	713
Buchanan	1753	1656	1651	1619	1547	1547	1593	1765	1805	1684	1485	1334	1083	1113	1126
Buena Vista	1242	1205	1151	1052	979	907	909	938	950	874	781	772	762	836	840
Butler	1200	1084	1090	1037	971	894	918	976	994	936	853	775	653	739	779
Calhoun	839	800	814	749	703	665	639	718	696	621	590	573	546	614	638
Carroll	1379	1330	1241	1144	1119	1053	902	943	889	820	817	784	767	824	814
Cass	1438	1331	1218	1092	964	880	838	887	920	889	812	752	761	901	849
Cedar	1076	1014	961	907	897	839	798	845	778	707	636	665	663	697	766
Cerro Gordo	4208	3989	3859	3649	3438	3184	3047	3063	2969	2697	2618	2702	2652	2903	2884
Cherokee	900	835	804	790	746	680	665	732	718	676	660	637	605	676	724
Chickasaw	974	857	754	682	649	622	607	679	651	637	594	518	420	485	505
Clarke	949	848	831	726	685	608	628	689	661	630	533	562	522	486	479
Clay	1298	1244	1211	1177	1091	1034	1002	1078	1110	1042	942	938	870	976	898
Clayton	1174	1140	1161	1124	1060	984	939	942	975	953	932	937	880	926	952
Clinton	5262	4987	4672	4477	4284	4009	3772	3950	4156	4035	3529	3275	2692	2666	2465
Crawford	1797	1558	1513	1618	1356	1059	990	1006	954	841	777	822	746	762	827
Dallas	1782	1667	1672	1590	1529	1481	1372	1542	1597	1564	1470	1386	1196	1251	1223
Davis	732	691	690	669	717	710	695	735	651	673	651	611	499	522	555
Decatur	1227	1081	1028	921	859	796	778	792	766	726	677	679	682	760	751
Delaware	1086	1048	1033	971	1006	1023	1069	1165	1230	1136	1033	958	822	912	915
Des Moines	4374	4278	4010	3926	3692	3519	3208	3298	3385	3305	3060	2948	2751	2991	2896
Dickinson	855	759	781	720	664	686	635	637	615	605	584	630	614	633	643
Dubuque	5913	5769	5658	5412	5049	4933	4926	5349	5560	5517	5391	5118	4305	4337	4292
Emmet	937	905	913	881	859	814	780	865	925	840	725	690	635	680	691
Fayette	2124	2068	1917	1812	1636	1468	1405	1498	1471	1386	1302	1255	1136	1185	1168
Floyd	1746	1578	1535	1427	1372	1299	1188	1286	1342	1222	1183	1136	1050	1132	1084
Franklin	879	779	746	716	675	602	556	565	576	540	549	545	504	577	616
Fremont	945	815	739	680	627	621	599	622	604	582	511	475	428	510	538
Greene	826	739	691	659	629	560	559	583	611	589	558	530	505	572	575
Grundy	397	437	513	485	437	416	396	448	447	436	415	392	347	400	386
Guthrie	1034	970	936	828	750	713	763	841	787	749	700	659	617	660	673
Hamilton	1247	1155	1145	1050	919	869	855	914	862	768	800	786	741	811	829
Hancock	826	744	757	681	578	505	458	486	483	446	412	436	432	511	521
Hardin	1696	1496	1393	1256	1127	1035	1025	1016	986	930	890	905	944	1008	976
Harrison	1585	1508	1470	1342	1223	1117	1055	1056	1004	1023	1031	1013	912	987	1035
Henry	1589	1429	1332	1299	1172	1045	909	893	952	1011	993	948	809	876	948
Howard	802	752	699	627	600	532	487	530	573	602	580	584	509	552	577
Humboldt	778	813	721	635	607	585	570	585	583	553	460	465	452	523	503
Ida	418	444	452	402	340	339	331	351	330	296	272	282	275	295	310
Iowa	776	676	623	607	572	464	457	505	508	440	389	419	379	434	440
Jackson	1794	1717	1624	1568	1501	1486	1524	1611	1683	1561	1485	1365	1135	1040	1062
Jasper	2303	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	1396	1322	1236	1192	1141	1025	928	950	886	842	833	840	826	818	907
Johnson	3748	3497	3261	3011	2790	2479	2281	2254	2163	1958	1808	1762	1689	1894	1850
Jones	1226	1170	1070	992	1006	984	989	1016	1067	981	944	914	902	909	949
Keokuk	1107	1096	1023	1003	954	915	858	861	846	754	665	602	535	597	598
Kossuth	1200	1148	1102	962	886	748	679	729	714	654	627	653	657	753	745
Lee	4331	4164	3986	3771	3532	3342	3175	3344	3419	3388	3269	3117	2730	2720	2621
Linn	12862	11961	11670	11157	10404	9793	9678	10398	10501	10159	9845	9398	8496	8555	8296
Louisa	1096	1038	972	910	832	760	766	861	873	869	893	792	692	732	792
Lucas	1087	970	945	905	834	809	799	854	894	886	888	827	757	773	848
Lyon	586	571	535	471	445	401	372	368	377	364	355	329	331	340	309
Madison	859	795	781	742	741	729	669	696	719	705	681	670	594	600	623
Mahaska	2078	2058	1996	1924	1819	1674	1580	1634	1661	1541	1462	1443	1308	1413	1415
Marion	2007	1873	1763	1623	1546	1460	1442	1515	1594	1483	1469	1415	1227	1312	1367
Marshall	3575	3341	3143	2897	2659	2487	2379	2499	2394	2246	2249	2099	1708	2189	2284
Mills	1692	1554	1520	1444	1428	1423	1469	1521	1546	1597	1475	1426	1443	1559	1527
Mitchell	599	575	550	499	440	434	437	434	415	404	411	436	414	433	447
Monona	1078	1039	1080	1043	947	832	806	873	871	797	768	753	703	710	712
Monroe	969	917	883	840	858	842	859	835	841	747	638	635	552	556	546
Montgomery	1174	1068	1035	893	814	763	720	792	811	776	690	665	659	673	684
Muscatine	3910	3743	3674	3538	3383	3158	2981	3217	3223	3013	2709	2506	2305	2364	2419
O'Brien	899	868	876	751	697	641	680	720	664	618	621	608	571	671	653
Osceola	302	331	308	321	276	266	237	242	289	273	227	213	190	207	242
Page	1732	1637	1588	1546	1437	1432	1331	1354	1384	1275	1179	1160	1037	1098	1133
Palo Alto	797	788	777	735	698	645	637	683	710	713	637	641	641	710	770
Plymouth	1117	1045	1012	916	904	881	845	837	863	760	700	699	664	771	768
Pocahontas	659	619	602	572	487	427	385	414	439	441	440	426	416	465	475
Polk	30040	27999	27508	25616	23690	21806	20853	21261	21433	21336	21201	21147	19995	21830	21026
Pottawattamie	9239	8738	8350	7844	7080	6489	6212	6240	6252	6219	6184	6316	6192	6893	6828
Poweshiek	1185	1106	1105	982	871	761	782	847	900	864	768	739	670	740	701
Ringgold	578	525	508	481	482	489	492	511	471	488	427	395	372	390	408
Sac	880	841	807	751	685	647	561	544	591	591	580	528	489	536	541
Scott	17763	16789	16264	15461	14654	13647	13209	13549	13331	12880	12228	11168	9827	9894	9843
Shelby	822	818	795	754	724	582	561	580	561	538	501	490	469	486	470
Sioux	1209	1086	1062	1007	916	912	827	857	832	772	683	704	719	771	801
Story	3017	2831	2641	2412	2228	1927	1750	1880	1792	1666	1490	1402	1301	1488	1552
Tama	1317	1311	1369	1209	1083	983	985	1048	1004	956	924	911	886	999	1040
Taylor	723	682	640	623	613	558	519	561	592	581	548	510	438	472	496
Union	1375	1368	1334	1273	1261	1249	1150	1214	1236	1163	1055	983	911	961	966
Van Buren	632	643	579	551	537	487	496	495	512	525	519	478	401	439	502
Wapello	4929	4635	4774	4523	4177	4021	4077	4324	4224	3824	3674	3423	2959	3086	3159
Warren	2136	2007	1981	1872	1745	1610	1529	1632	1657	1705	1660	1608	1409	1518	1489
Washington	1361	1234	1231	1196	1132	1043	1000	983	960	916	812	719	714	795	830
Wayne	815	792	748	651	670	610	598	596	623	637	636	602	562	587	604
Webster	4431	4402	4258	4089	3844	3585	3358	3539	3503	3282	3225	3043	2862	3092	3292
Winnebago	714	664	618	599	564	489	433	462	478	458	415	468	439	522	505
Winnesiek	1056	1041	985	886	801	780	765	770	789	726	675	660	624	699	697
Woodbury	9855	10061	10383	10063	9357	8531	8287	8651	8253	7898	7737	7498	7105	7819	7967
Worth	473	508	498	474	472	390	376	433	437	403	396	385	389	408	394
Wright	1206	1053	1036	939	832	757	744	802	843	787	750	726	694	831	892
State of Iowa	235812	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	479	406	377	352	328	280	271	308	311	286	263	246	230	263	249
Adams	399	327	316	297	265	234	238	263	238	208	165	137	119	137	145
Allamakee	830	724	675	555	519	482	474	492	501	476	448	435	441	496	507
Appanoose	1907	1468	1370	1314	1257	1167	1184	1179	1152	1102	1017	963	858	914	914
Audubon	418	350	375	336	294	272	249	251	251	243	196	203	202	223	221
Benton	1422	1067	1061	981	910	767	722	761	690	701	662	569	515	537	487
Black Hawk	12003	11568	11762	11745	8797	7725	7503	8138	7675	7106	6415	5450	4953	5200	5080
Boone	1654	1636	1587	1526	1493	1479	1394	1445	1418	1425	1360	1323	1275	1350	1367
Bremer	1225	921	780	724	638	548	574	613	593	564	512	444	419	434	375
Buchanan	1619	1142	1171	1131	1097	1051	1081	1183	1106	1024	859	752	640	634	616
Buena Vista	1096	887	852	779	725	640	647	645	597	551	478	477	454	506	484
Butler	1153	894	819	773	706	645	642	663	624	582	543	483	426	467	474
Calhoun	739	622	612	568	539	490	473	520	474	429	414	378	368	420	421
Carroll	1244	1023	963	864	850	755	670	710	604	565	553	532	542	548	536
Cass	1159	959	897	807	731	649	615	647	625	596	547	498	504	566	514
Cedar	979	715	694	633	622	543	540	556	468	430	388	377	365	404	419
Cerro Gordo	3990	3169	2880	2738	2489	2228	2084	2106	1891	1714	1655	1665	1620	1753	1699
Cherokee	846	646	620	594	561	505	483	510	496	455	451	416	409	425	446
Chickasaw	893	639	568	525	491	418	424	463	430	391	342	309	264	292	303
Clarke	774	597	588	501	456	420	425	468	405	378	330	340	307	283	296
Clay	992	909	908	887	798	716	709	749	707	653	589	586	554	603	550
Clayton	998	854	855	806	758	677	635	630	614	576	572	568	525	546	550
Clinton	4664	3538	3117	2957	2899	2565	2351	2494	2425	2213	1959	1738	1470	1463	1320
Crawford	1682	1126	1141	1169	914	726	651	657	604	530	512	508	462	469	470
Dallas	1573	1244	1267	1182	1141	1027	956	1058	1021	982	903	815	738	777	723
Davis	643	514	513	489	514	477	457	476	406	410	381	341	300	325	336
Decatur	958	743	723	645	628	570	554	563	516	488	447	443	430	487	473
Delaware	937	729	718	692	699	657	669	746	694	649	579	532	459	504	490
Des Moines	2993	2820	2717	2602	2445	2186	1990	2101	1981	1914	1706	1617	1454	1540	1539
Dickinson	640	597	621	553	491	457	412	417	370	366	362	370	364	392	387
Dubuque	4213	4068	3897	3711	3429	3398	3382	3423	3228	3150	3034	2832	2376	2495	2415
Emmet	740	707	755	696	638	576	542	594	569	502	449	430	396	435	417
Fayette	1979	1541	1343	1256	1152	1026	947	999	925	878	775	739	672	696	659
Floyd	1692	1226	1147	1044	1000	893	825	883	870	773	722	708	635	686	661
Franklin	780	574	557	536	490	418	394	395	372	345	353	343	327	369	386
Fremont	799	569	548	497	465	448	436	443	397	362	318	313	286	332	346
Greene	669	513	478	445	432	364	350	372	376	359	336	322	307	355	333
Grundy	375	341	385	351	333	304	291	323	312	299	262	255	229	252	244
Guthrie	851	721	705	613	556	511	549	600	534	501	464	419	392	433	405
Hamilton	1057	864	887	808	741	663	644	674	579	531	534	494	454	505	506
Hancock	774	548	571	497	427	367	325	340	320	284	259	280	267	312	303
Hardin	1484	1099	1062	927	869	777	714	717	656	625	588	573	587	615	614
Harrison	1423	1106	1068	975	897	800	742	728	651	671	636	624	564	611	622
Henry	1107	1016	963	920	809	707	619	623	626	626	610	596	490	546	553
Howard	716	531	510	470	447	387	357	373	381	366	360	359	340	370	373
Humboldt	679	599	529	473	466	427	408	436	389	366	297	310	315	330	321
Ida	384	332	343	313	273	252	253	265	233	212	198	202	209	224	223
Iowa	548	490	457	428	410	330	322	359	328	284	244	270	242	269	265
Jackson	1641	1598	1535	1440	1075	973	1013	1043	1021	937	873	779	645	638	623
Jasper	1972	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	1178	948	886	851	818	730	665	670	583	534	539	528	505	539	560
Johnson	3385	2399	2297	2140	1942	1628	1485	1452	1283	1164	1038	1003	977	1053	1009
Jones	1116	818	743	684	726	676	653	683	647	602	560	534	491	520	504
Keokuk	791	734	704	685	648	594	585	583	535	472	437	386	355	379	380
Kossuth	878	841	796	692	647	520	461	493	439	404	385	401	385	434	423
Lee	4000	3051	2863	2644	2414	2247	2049	2135	2071	1985	1856	1743	1536	1537	1459
Linn	11575	10353	10927	10163	7533	6484	6231	6620	6279	6031	5586	5252	4501	4650	4398
Louisa	731	669	636	603	529	496	480	521	481	480	471	413	358	395	409
Lucas	898	729	727	694	639	588	602	634	606	598	575	549	489	506	529
Lyon	420	398	384	340	318	273	257	252	228	218	206	197	200	193	182
Madison	754	621	602	553	562	534	504	537	519	497	459	445	408	408	414
Mahaska	1753	1468	1479	1377	1314	1092	1074	1116	1050	985	894	848	777	817	804
Marion	1697	1314	1262	1139	1090	991	962	1011	976	915	882	817	725	815	773
Marshall	2417	2257	2137	1989	1831	1645	1514	1614	1475	1374	1335	1247	1158	1252	1264
Mills	1567	1252	1268	1220	1213	1229	1243	1273	1268	1281	1217	1192	1203	1252	1211
Mitchell	544	425	411	358	338	324	316	313	284	273	270	284	265	279	297
Monona	872	812	837	770	712	577	571	619	573	517	513	503	466	467	457
Monroe	886	651	639	609	642	594	593	592	571	498	422	404	350	376	335
Montgomery	970	802	770	656	598	548	521	567	527	524	456	445	414	431	414
Muscatine	3502	3512	3478	3227	2284	1947	1789	1936	1819	1665	1481	1391	1263	1358	1337
O'Brien	779	680	677	602	539	491	496	506	443	422	413	415	400	459	447
Osceola	258	244	238	215	198	186	168	170	178	163	134	123	113	124	143
Page	1442	1200	1164	1145	1080	1040	972	1011	968	883	785	771	661	731	731
Palo Alto	687	616	598	574	535	481	471	513	492	488	431	426	429	479	482
Plymouth	799	772	750	680	659	622	584	574	553	493	463	457	431	483	471
Pocahontas	547	465	458	413	363	317	273	292	293	295	278	267	266	303	309
Polk	26983	25688	25021	22004	16430	14094	13628	13388	12701	12237	11870	11548	10725	11705	11010
Pottawattamie	8544	8259	7944	7263	5113	4319	4081	4049	3885	3856	3697	3728	3634	4012	3854
Poweshiek	880	857	819	724	640	556	554	605	568	526	446	427	393	430	399
Ringgold	415	391	391	370	380	363	365	376	328	335	278	258	254	271	281
Sac	767	613	604	555	526	463	404	391	397	388	369	335	317	334	330
Scott	15578	15086	14591	13666	10401	9028	8957	8244	7061	6605	6204	5640	4814	5031	4784
Shelby	665	647	610	565	549	461	425	435	392	371	341	338	312	320	297
Sioux	922	831	841	770	707	668	589	597	569	526	461	472	466	484	466
Story	2104	1976	1849	1736	1569	1323	1198	1241	1119	1035	915	881	809	889	894
Tama	1142	961	971	849	778	703	698	720	636	606	557	548	526	595	594
Taylor	495	469	458	430	430	374	348	389	377	384	363	334	279	287	302
Union	1165	968	946	878	888	836	772	830	791	734	659	633	598	610	616
Van Buren	547	436	417	377	378	314	317	322	314	312	303	265	237	265	280
Wapello	3379	3142	3300	3037	2807	2635	2634	2753	2538	2330	2183	1992	1696	1802	1775
Warren	1853	1523	1501	1386	1329	1177	1113	1177	1121	1117	1042	998	871	952	931
Washington	989	895	906	873	845	737	679	653	610	581	518	463	467	517	508
Wayne	694	555	540	478	496	445	430	429	417	411	394	383	354	362	374
Webster	3575	2994	2945	2765	2587	2352	2166	2235	2081	1935	1852	1712	1531	1699	1704
Winnebago	602	513	487	443	411	347	325	334	336	306	298	312	297	334	306
Winneshiek	929	753	723	648	584	530	503	490	469	426	381	379	370	396	392
Woodbury	8183	6254	6586	6296	5756	5078	4901	5122	4636	4444	4085	4006	3639	4162	4109
Worth	330	359	364	349	330	268	264	298	276	247	244	226	222	236	217
Wright	1042	764	758	683	618	570	546	590	574	522	466	470	437	518	529
State of Iowa	199104	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	7.2	6.7	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	10.7	9.8	9.5	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	7.0	7.0	6.7	5.6	5.2	4.9	4.7	4.9	5.2	5.0	4.8	4.6	4.7	5.3	5.6
Appanoose	15.0	14.5	14.1	13.4	13.0	12.8	12.6	12.5	12.9	12.4	12.2	11.4	9.9	9.8	9.9
Audubon	6.9	6.4	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	6.4	6.3	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	11.4	10.9	10.6	10.4	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	8.8	8.3	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	5.7	5.3	4.6	4.5	4.1	3.6	3.8	4.3	4.4	4.1	3.9	3.4	3.0	3.2	2.9
Buchanan	8.2	7.8	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	6.2	5.9	5.7	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	7.6	6.9	6.9	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	7.2	6.9	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	6.4	6.2	5.8	5.3	5.2	4.9	4.2	4.3	4.0	3.7	3.6	3.5	3.4	3.6	3.5
Cass	9.5	8.8	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	6.1	5.8	5.4	5.2	5.1	4.8	4.6	4.8	4.4	3.9	3.5	3.6	3.6	3.7	4.1
Cerro Gordo	9.0	8.6	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	6.5	6.0	5.7	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	7.3	6.4	5.7	5.1	4.9	4.6	4.5	4.9	4.6	4.4	4.0	3.4	2.8	3.2	3.3
Clarke	11.6	10.1	9.9	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	7.4	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	6.2	6.0	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	10.3	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	10.9	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	5.6	5.3	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	8.6	8.2	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	15.2	13.4	12.6	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	5.9	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	10.2	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	5.5	4.9	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	6.7	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	8.3	7.9	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	9.7	9.4	8.7	8.2	7.5	6.7	6.4	6.8	6.5	5.9	5.4	5.1	4.6	4.7	4.6
Floyd	10.5	9.4	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	7.9	6.9	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	11.5	10.0	9.0	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	8.2	7.3	6.8	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	3.3	3.6	4.2	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	9.2	8.7	8.4	7.4	6.9	6.5	6.9	7.6	7.0	6.6	6.0	5.7	5.3	5.6	5.6
Hamilton	7.8	7.2	7.1	6.5	5.7	5.3	5.2	5.5	5.1	4.5	4.7	4.5	4.2	4.5	4.6
Hancock	6.8	6.1	6.1	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	9.1	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	10.6	10.2	10.0	9.1	8.3	7.5	7.0	7.0	6.5	6.6	6.6	6.4	5.7	6.1	6.3
Henry	8.1	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	8.1	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	7.5	7.8	6.8	5.9	5.6	5.4	5.2	5.3	5.2	4.8	3.9	3.9	3.8	4.3	4.1
Ida	5.0	5.3	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	5.2	4.5	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	8.9	8.5	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	6.6	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

Table 3. Average Monthly Number Eligible for Title XIX Benefits as a Percentage of Total Population in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	8.3	7.9	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	3.7	3.5	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	6.1	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	9.6	9.4	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	6.6	6.3	6.0	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	11.1	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	7.3	6.8	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	9.4	8.8	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	12.1	10.7	10.4	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	4.9	4.8	4.5	3.9	3.7	3.4	3.1	3.1	3.1	2.9	2.8	2.6	2.6	2.7	2.4
Madison	6.6	6.2	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	9.5	9.5	9.3	9.0	8.4	7.8	7.3	7.6	7.7	7.1	6.6	6.6	5.9	6.3	6.2
Marion	6.5	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	9.4	8.8	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	12.4	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	5.4	5.2	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	10.7	10.3	10.8	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	11.9	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	9.8	8.9	8.7	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	9.5	9.1	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	5.8	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	4.2	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	10.3	9.8	9.5	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	7.6	7.6	7.4	6.9	6.5	6.0	5.9	6.2	6.2	6.0	5.2	5.1	5.1	5.6	6.1
Plymouth	4.6	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	7.2	6.8	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	8.7	8.2	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	11.1	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	6.2	5.9	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	10.7	9.7	9.4	8.9	8.9	9.0	9.1	9.4	8.5	8.4	7.2	6.6	6.1	6.4	6.7
Sac	7.2	7.0	6.6	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	11.4	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	6.3	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	3.9	3.5	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	4.0	3.8	3.6	3.3	3.0	2.6	2.4	2.6	2.4	2.2	2.0	1.9	1.8	2.0	2.1
Tama	7.4	7.4	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	10.2	9.6	9.1	8.8	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	10.9	10.6	10.0	9.9	9.9	9.0	9.4	9.6	8.9	7.8	7.2	6.6	6.9	7.0
Van Buren	8.2	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	13.7	12.9	13.3	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	5.5	5.3	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	6.7	6.1	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	11.7	11.3	10.7	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	11.2	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	6.0	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	5.0	4.9	4.7	4.2	3.8	3.7	3.6	3.7	3.7	3.4	3.1	3.0	2.9	3.2	3.2
Woodbury	9.7	10.0	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	6.0	6.4	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	8.5	7.4	7.3	6.6	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	8.3	7.9	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	3238	2715	2255	1954	1679	1232	1128	1064	972	986	980	841	825	879	801
Adams	1617	1526	1411	1176	1028	823	807	888	720	724	628	571	427	419	359
Allamakee	4656	4466	4065	3440	3012	2335	2046	2009	1969	1976	1588	1581	1486	1745	1484
Appanoose	6732	5532	5700	5041	4425	3550	3230	3059	2437	2500	2101	2043	1842	2205	1838
Audubon	3069	2882	2686	2351	1797	1408	1163	1037	930	927	687	749	576	611	582
Benton	6333	4972	4532	4701	3582	2971	2318	2105	1787	1674	1634	1537	1282	1296	1080
Black Hawk	55924	44147	43326	39225	32376	27276	23831	21401	17399	16570	13636	12727	11953	11761	10469
Boone	39745	40276	38388	39137	36179	33500	33322	29224	27288	25835	24184	24453	23638	20507	19870
Bremer	5855	4742	4083	3711	2741	2125	1958	1689	1615	1542	1380	1439	1350	1225	915
Buchanan	7055	6771	5559	5518	4648	4448	4114	4041	3876	3627	2815	2619	2691	2040	1693
Buena Vista	6114	4845	4720	3844	3163	2645	2708	2119	1789	1724	1368	1402	1364	1319	1197
Butler	6666	5834	4852	4475	3473	2936	2547	2316	2004	1895	1772	1785	1520	1532	1501
Calhoun	4497	4392	4157	4232	3556	2533	2276	2329	1937	1936	1469	1457	1365	1328	1286
Carroll	8519	7327	6519	5772	5095	4304	3102	2886	2254	2170	1988	1944	2009	1804	1792
Cass	6078	6092	5577	4886	3660	2820	2215	2226	2155	2258	1692	1700	1659	1550	1483
Cedar	4391	3813	3912	3492	2944	2530	2071	2091	1516	1306	1233	1166	1203	1226	1189
Cerro Gordo	17936	16828	16921	14947	11917	9058	7568	6567	5043	4817	4355	4547	4352	4221	3997
Cherokee	5034	5079	4246	4026	4209	3514	3011	2990	2775	2305	1960	2596	2726	1464	1777
Chickasaw	3845	3126	3011	2639	2063	1582	1533	1287	1102	1048	892	977	811	843	760
Clarke	3547	3116	2815	2390	1783	1772	1499	1743	1240	1300	1042	1058	923	787	671
Clay	5990	4986	4743	4454	3924	3031	2805	2470	2039	1912	1606	1562	1332	1357	1266
Clayton	5932	5285	5302	4796	3814	3330	2922	2481	2156	1956	1989	1981	1800	1792	1515
Clinton	19961	17521	16477	16449	13223	9347	7976	7437	5996	5203	4001	3956	3596	3425	2921
Crawford	9987	7059	6630	5885	4364	2898	2516	2229	1971	1772	1566	1837	1535	1334	1306
Dallas	7405	6886	6859	6085	5109	4550	3972	3764	3061	3025	2514	2583	2297	2010	1755
Davis	3056	2553	2653	2196	2147	1700	1439	1219	1018	1086	809	996	883	767	770
Decatur	4873	4234	4054	3176	2909	2264	2198	1953	1838	1716	1475	1476	1472	1518	1434
Delaware	4459	3918	3810	3538	2847	2381	2081	1909	1536	1496	1202	1195	1092	1130	885
Des Moines	15230	12332	12247	11117	9639	8106	7024	6145	4802	5593	4031	3729	3707	3606	3445
Dickinson	4092	3383	3213	2905	2163	1960	1431	1359	1127	1139	1155	875	1030	925	810
Dubuque	26515	23709	20205	18753	15841	13461	12068	10478	9138	8847	8141	8052	7074	7123	6322
Emmet	5226	4783	4631	4035	3026	2544	2210	2179	1920	1599	1362	1231	1184	1305	1157
Fayette	8492	7205	6425	5807	4559	3638	3101	2971	2520	2519	2236	2219	2002	1910	1647
Floyd	8398	7564	7129	5888	4897	3839	3180	2773	2347	2264	2158	2102	1914	1911	1611
Franklin	3715	3546	3707	3039	2402	1859	1835	1468	1237	1233	1199	1156	1139	1226	1171
Fremont	3998	3307	3142	2639	2339	1904	1678	1501	1312	1278	1088	1046	1006	1076	946
Greene	3066	2759	2549	2193	1889	1375	1270	1150	1033	1060	897	898	758	848	720
Grundy	1456	1667	2391	2027	1626	1498	1185	1140	983	997	834	818	756	813	685
Guthrie	4418	4111	3926	3117	2625	2206	2067	2166	1996	1900	1794	1470	1487	1475	1272
Hamilton	5271	5051	5265	3981	3257	2423	2071	1839	1521	1602	1396	1286	1266	1234	1222
Hancock	3645	3198	3121	2623	2241	1672	1449	1305	1074	1070	902	945	874	827	839
Hardin	7194	6429	6341	5444	4519	3353	3043	2432	2047	1994	1838	1736	1753	1744	1538
Harrison	7490	6564	6839	6255	4562	4010	3030	2912	2264	2599	2458	2166	2102	2094	2203
Henry	6114	5546	4963	5090	4112	3519	3222	2175	1888	1844	1861	2102	1630	1663	1746
Howard	3800	3036	3016	2852	2156	1717	1354	1383	1196	1197	2233	1268	1282	1257	1118
Humboldt	4579	3761	3166	3025	2731	1997	1615	1559	1261	1233	1003	1018	1197	885	858
Ida	1532	2422	2361	2099	1698	1597	1161	1150	995	1018	895	900	929	923	889
Iowa	3618	3481	3103	2892	2421	1655	1564	1475	1248	1112	885	968	951	943	883
Jackson	6938	6063	6107	5318	4047	3476	3266	2918	2663	2278	2146	1984	1671	1540	1425
Jasper	12328	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	5363	4792	4206	4081	3661	2777	2208	2073	1519	1392	1393	1471	1343	1243	1169
Johnson	16440	12841	12344	11002	9080	6332	5352	4626	3802	3830	2583	2551	2554	2103	2521
Jones	4483	3863	3560	3054	2501	2422	1955	1873	1567	1422	1284	1403	1196	1194	1142
Keokuk	4238	3922	4004	3567	3020	2173	2115	1778	1547	1407	1250	1235	1090	1108	953
Kossuth	5864	4823	4285	3543	3196	2454	1992	1842	1500	1494	1254	1290	1284	1286	1206
Lee	15582	13353	13060	11662	9397	8688	7232	6581	6069	5916	5001	4990	4553	4013	3503
Linn	56084	43868	42473	36346	31005	24744	20989	17922	15196	15141	13290	13684	11121	10996	9176
Louisa	4002	3350	3325	3276	2697	2013	1908	1738	1382	1392	1165	1106	975	896	859
Lucas	3999	3328	3312	3067	2596	2178	2113	1793	1672	1765	1594	1577	1583	1482	1285
Lyon	2942	2682	2743	2499	2247	1754	1410	1314	1044	957	935	773	791	731	588
Madison	4246	3874	3435	3147	3099	2390	2235	2221	2135	2010	1779	1712	1616	1525	1346
Mahaska	8515	7461	7352	6763	5383	4559	4032	3721	3139	2895	2379	2414	2279	2032	1943
Marion	7980	6854	6698	5983	5008	3933	3548	3487	2732	2681	2348	2311	2249	2122	1720
Marshall	15922	11545	9720	8790	6981	5693	4866	4758	3766	3552	3083	3182	2940	2921	2795
Mills	44507	44002	46448	46189	43949	39591	35569	33672	33192	29374	26455	28401	25426	23327	20104
Mitchell	3278	3149	2767	2273	1859	1540	1344	1378	1296	1185	1145	1203	1129	1089	1056
Monona	5373	5182	4912	4484	3651	2631	2170	2149	1753	1633	1474	1751	1518	1424	1260
Monroe	4375	3327	3496	3062	2650	2126	2104	1729	1501	1372	1107	1238	1073	955	705
Montgomery	5447	5295	5017	3984	2938	2407	2019	2224	1844	1719	1382	1472	1245	1225	1093
Muscatine	11545	10031	9835	9468	7742	6116	4894	4262	3954	3751	3157	3066	3105	3074	2761
O'Brien	4763	4265	4164	3644	3024	2282	2016	1821	1487	1592	1542	1605	1514	1451	1396
Osceola	1209	1848	1714	1404	1117	1019	889	723	598	721	405	350	381	352	314
Page	7056	6673	6277	5348	4505	3583	3296	3630	3069	3286	2080	2578	2734	2298	2290
Palo Alto	4218	4199	3703	3683	2689	2311	1924	1625	1503	1491	1301	1260	1165	1209	1030
Plymouth	5727	4854	4593	3916	3526	2755	2374	2244	1977	1585	1510	1503	1415	1479	1211
Pocahontas	3720	3175	3099	2448	2157	1712	1303	1260	1095	1095	932	1063	957	1099	974
Polk	124717	111741	109427	89799	80301	61803	54254	50014	40882	42286	35842	37048	33444	31127	25270
Pottawattamie	35260	30429	28700	24435	23002	16468	14303	12897	11520	12581	10478	11689	10938	9577	8932
Poweshiek	5220	4374	4486	3878	3071	2480	2060	1882	1639	1659	1077	1136	1103	1016	869
Ringgold	2497	2559	2613	2125	1863	1677	1492	1467	1192	1223	1018	949	933	915	981
Sac	3765	3967	3774	3356	2806	2259	1694	1404	1321	1406	1191	1200	1036	1008	957
Scott	61388	53387	48419	40807	34696	28343	25319	20817	17893	17012	15084	13549	11955	11950	9989
Shelby	3798	4016	3771	3289	2549	1877	1641	1513	1501	1665	1285	1244	1208	1199	951
Sioux	6259	6080	6086	5038	3867	3224	2563	2698	2683	2351	2032	1898	1850	1754	1516
Story	12028	10491	9775	9061	7459	5587	4377	4222	3674	3626	2974	2912	2886	2804	2536
Tama	6444	6072	5638	4767	3771	3095	2935	2527	2097	2107	1917	1912	1813	1758	1516
Taylor	2814	2574	2280	2077	1847	1464	1249	1154	1080	1233	1301	1132	929	881	873
Union	4542	4639	4486	3916	3781	3160	2639	2645	2108	1931	1784	1936	1615	1582	1410
Van Buren	2422	2166	1954	1781	1613	1465	1242	856	756	858	689	633	522	503	481
Wapello	15447	13019	13182	11541	9811	8851	8091	7513	6288	6014	5440	5498	4538	4302	3825
Warren	9970	8997	8463	8022	6901	5295	4801	4531	3937	4015	3367	3218	2832	2705	2699
Washington	7527	5892	5689	5825	4870	3420	2638	2270	2067	2005	1716	1488	1386	1514	1318
Wayne	3211	2827	2735	2257	1974	1859	1581	1472	1249	1421	1176	1142	1132	1059	970
Webster	18876	17009	15927	14025	11506	9045	7734	6939	5990	5794	5001	4990	4575	4606	3865
Winnebago	4082	4112	3627	3115	2415	1973	1657	1544	1257	1213	1037	953	880	954	924
Winneshiek	4953	4728	3891	3538	2833	2194	2047	1577	1347	1238	1060	1076	1030	1052	881
Woodbury	45776	38567	42571	38727	33716	26102	24268	21176	18952	16949	14261	13835	11214	11439	10932
Worth	2410	2615	2529	2126	1571	1239	986	925	820	815	739	676	733	656	571
Wright	4829	3949	4028	3500	2734	2229	2232	2052	1668	1657	1351	1302	1323	1381	1372

State of Iowa 1054676 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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	563	557	498	463	427	367	347	288	260	287	310	285	299	279	268
Adams	338	389	372	330	323	293	283	281	252	290	317	347	299	255	206
Allamakee	467	514	502	517	484	404	360	340	328	346	295	303	281	293	244
Appanoose	294	314	347	320	293	253	227	216	176	189	172	177	179	201	168
Audubon	612	686	597	583	510	431	390	344	309	318	292	307	238	228	219
Benton	371	388	356	399	328	323	268	230	216	199	206	225	207	201	185
Black Hawk	388	318	307	278	307	294	265	219	189	194	177	195	201	188	172
Boone	2002	2052	2016	2137	2019	1888	1992	1685	1604	1511	1482	1540	1545	1266	1211
Bremer	398	429	436	427	358	323	284	230	227	228	225	270	268	235	203
Buchanan	363	494	396	407	353	353	317	285	292	295	273	290	350	268	229
Buena Vista	465	455	462	411	364	344	349	274	250	261	238	245	250	217	206
Butler	482	544	494	483	410	379	331	291	268	271	272	308	297	273	264
Calhoun	507	588	566	621	550	431	401	373	341	376	296	321	309	264	254
Carroll	571	597	564	557	500	475	386	339	311	320	299	305	309	274	279
Cass	437	529	518	505	417	362	300	287	287	316	258	285	274	228	240
Cedar	374	444	470	460	394	388	320	313	270	253	265	258	275	253	237
Cerro Gordo	375	443	490	455	399	339	303	260	222	234	219	228	224	201	196
Cherokee	496	655	571	565	625	580	519	489	466	422	362	520	556	287	332
Chickasaw	359	408	442	419	350	315	301	232	213	223	217	263	256	241	209
Clarke	382	435	399	398	326	352	294	310	255	287	263	259	250	232	189
Clay	503	457	435	418	410	353	330	275	240	244	227	222	200	188	192
Clayton	495	516	517	496	419	410	383	328	293	283	290	291	286	273	229
Clinton	357	413	441	464	380	304	283	248	206	196	170	190	204	195	184
Crawford	495	522	484	420	398	333	322	283	272	279	255	301	277	237	232
Dallas	392	461	451	429	373	369	346	297	250	257	232	264	259	216	202
Davis	396	414	431	374	348	297	262	213	209	221	177	243	245	197	191
Decatur	424	475	467	410	386	331	331	289	297	293	275	278	285	260	253
Delaware	397	448	442	426	339	302	259	213	184	192	173	187	198	187	150
Des Moines	424	364	376	356	329	309	294	244	202	244	197	192	212	195	187
Dickinson	533	472	431	438	367	358	289	272	254	259	266	197	236	197	174
Dubuque	524	486	432	421	385	330	297	255	236	234	224	237	248	238	218
Emmet	589	564	511	483	395	368	340	306	281	265	253	239	249	250	231
Fayette	358	390	399	385	330	296	273	248	227	239	240	250	248	229	208
Floyd	414	514	518	470	408	358	321	262	225	244	249	247	251	232	203
Franklin	397	515	555	472	409	371	388	310	277	298	283	281	290	277	253
Fremont	417	484	478	442	419	354	321	282	275	294	285	279	293	270	228
Greene	382	448	444	411	364	315	302	258	229	246	222	232	206	199	180
Grundy	323	408	517	481	407	411	339	294	263	278	265	267	275	269	234
Guthrie	433	475	464	424	393	360	314	301	312	316	322	292	316	284	262
Hamilton	416	487	495	411	366	305	268	227	219	251	218	217	232	204	201
Hancock	392	486	456	440	437	380	371	320	280	314	290	281	273	221	231
Hardin	404	488	498	489	433	360	355	283	260	266	261	253	249	236	209
Harrison	439	495	534	535	424	418	340	333	290	323	322	289	311	286	295
Henry	460	455	429	461	424	415	434	291	251	245	254	294	277	254	263
Howard	442	476	493	506	402	370	316	309	261	272	517	294	314	283	250
Humboldt	562	523	499	533	488	390	330	298	270	281	281	274	317	224	223
Ida	333	608	573	559	518	528	382	362	356	400	377	371	370	343	332
Iowa	550	592	566	563	492	418	405	342	317	326	302	299	327	292	278
Jackson	352	316	332	308	314	298	269	233	217	203	205	212	216	201	191
Jasper	521	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	379	421	396	400	373	317	277	258	217	217	215	232	222	192	174
Johnson	405	446	448	428	390	324	300	265	247	274	207	212	218	166	208
Jones	335	394	399	372	287	299	249	229	202	197	191	219	203	191	189
Keokuk	446	445	474	434	388	305	301	254	241	248	238	267	256	244	209
Kossuth	556	478	449	427	412	393	360	311	285	308	271	268	278	247	238
Lee	325	365	380	368	324	322	294	257	244	248	225	239	247	218	200
Linn	404	353	324	298	343	318	281	226	202	209	198	217	206	197	174
Louisa	456	417	436	453	425	338	331	278	240	242	206	223	227	189	175
Lucas	371	381	380	368	339	309	293	236	230	246	231	240	270	244	202
Lyon	584	562	595	613	589	536	457	435	382	366	378	327	330	316	269
Madison	469	520	475	474	460	373	370	345	343	337	323	321	330	312	271
Mahaska	405	424	414	409	341	348	313	278	249	245	222	237	244	207	201
Marion	392	435	442	438	383	331	307	287	233	244	222	236	258	217	185
Marshall	549	426	379	368	318	288	268	246	213	215	192	213	212	194	184
Mills	2367	2929	3053	3155	3019	2685	2385	2204	2181	1911	1811	1985	1761	1553	1383
Mitchell	502	617	561	529	458	396	354	367	380	362	353	353	355	325	296
Monona	513	532	489	485	427	380	317	289	255	263	239	290	271	254	230
Monroe	412	426	456	419	344	298	296	243	219	230	219	255	255	212	176
Montgomery	468	550	543	506	410	366	323	327	292	273	253	276	251	237	220
Muscatine	275	238	236	244	282	262	228	183	181	188	178	184	205	189	172
O'Brien	509	523	513	504	468	387	339	300	280	314	311	322	316	263	260
Osceola	391	631	600	544	470	456	441	354	280	369	251	237	281	236	183
Page	408	463	449	389	348	287	283	299	264	310	221	279	345	262	261
Palo Alto	512	568	516	535	419	400	341	264	254	255	252	246	226	210	178
Plymouth	597	524	510	480	446	369	339	326	298	268	272	274	274	255	214
Pocahontas	567	569	564	494	495	450	397	360	312	309	279	331	300	302	262
Polk	385	362	364	340	407	365	332	311	268	288	252	267	260	222	191
Pottawattamie	344	307	301	280	375	318	292	265	247	272	236	261	251	199	193
Poweshiek	494	425	456	446	400	372	310	259	240	263	201	222	234	197	181
Ringgold	501	546	557	479	409	385	341	325	303	304	305	307	306	282	291
Sac	409	539	521	504	444	406	350	299	277	302	269	299	272	251	242
Scott	328	295	277	249	278	262	236	210	211	215	203	200	207	198	174
Shelby	476	517	515	485	387	339	322	290	319	374	314	307	323	312	267
Sioux	566	610	603	545	456	402	363	377	393	372	367	335	331	302	271
Story	476	442	441	435	396	352	304	283	274	292	271	275	297	263	236
Tama	470	527	484	468	404	367	350	292	275	290	287	291	287	246	213
Taylor	474	457	415	403	358	326	299	247	239	268	299	282	277	256	241
Union	325	399	395	372	355	315	285	266	222	219	226	255	225	216	191
Van Buren	369	414	390	394	356	389	326	221	201	229	189	199	184	158	143
Wapello	381	345	333	317	291	280	256	227	206	215	208	230	223	199	180
Warren	448	492	470	482	433	375	359	321	293	300	269	269	271	237	242
Washington	634	549	523	556	480	387	324	290	282	288	276	268	247	244	216
Wayne	386	425	422	394	332	348	307	286	250	288	249	248	266	244	216
Webster	440	473	451	423	371	320	298	259	240	250	225	243	249	226	189
Winnebago	565	668	621	586	490	474	425	385	312	330	290	254	247	238	252
Winneshiek	444	523	448	455	404	345	339	268	239	242	232	237	232	221	187
Woodbury	466	514	539	513	488	428	413	345	341	318	291	288	257	229	222
Worth	608	607	579	508	397	385	311	259	248	275	252	249	275	232	219
Wright	386	431	443	427	369	326	341	290	242	265	242	231	252	222	216
State of Iowa	441	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, 1984-1994.

County	Total Annual Payments (in \$1,000)		Number of Recipients		Average Monthly Payments Per Person	
	\$ Change	% Change	N Change	% Change	\$ Change	% Change
Adair	2258	230.4	216	82.1	253	81.6
Adams	989	157.5	234	141.8	21	6.6
Allamakee	3068	193.2	382	85.3	172	58.3
Appanoose	4631	220.4	890	87.5	122	70.9
Audubon	2382	346.7	222	113.3	320	109.6
Benton	4699	287.6	760	114.8	165	80.1
Black Hawk	42288	310.1	5588	87.1	211	119.2
Boone	15561	64.3	294	21.6	520	35.1
Bremer	4475	324.3	713	139.3	173	76.9
Buchanan	4240	150.6	760	88.5	90	33.0
Buena Vista	4746	346.9	618	129.3	227	95.4
Butler	4894	276.2	610	112.3	210	77.2
Calhoun	3028	206.1	325	78.5	211	71.3
Carroll	6531	328.5	691	125.0	272	91.0
Cass	4386	259.2	612	111.9	179	69.4
Cedar	3158	256.1	591	152.3	109	41.1
Cerro Gordo	13581	311.8	2335	141.1	156	71.2
Cherokee	3074	156.8	395	87.6	134	37.0
Chickasaw	2953	331.1	551	161.1	142	65.4
Clarke	2505	240.4	444	134.5	119	45.2
Clay	4384	273.0	403	68.4	276	121.6
Clayton	3943	198.2	426	74.5	205	70.7
Clinton	15960	398.9	2705	138.1	187	110.0
Crawford	8421	537.7	1170	228.5	240	94.1
Dallas	4891	194.6	670	74.2	160	69.0
Davis	2247	277.8	262	68.8	219	123.7
Decatur	3398	230.4	511	114.3	149	54.2
Delaware	3257	271.0	358	61.8	224	129.5
Des Moines	11199	277.8	1287	75.4	227	115.2
Dickinson	2937	254.3	278	76.8	267	100.4
Dubuque	18374	225.7	1179	38.9	300	133.9
Emmet	3864	283.7	291	64.8	336	132.8
Fayette	6256	279.8	1204	155.4	118	49.2
Floyd	6240	289.2	970	134.3	165	66.3
Franklin	2516	209.8	427	121.0	114	40.3
Fremont	2910	267.5	481	151.3	132	46.3
Greene	2169	241.8	333	99.1	160	72.1
Grundy	622	74.6	113	43.1	58	21.9
Guthrie	2624	146.3	387	83.4	111	34.5
Hamilton	3875	277.6	523	97.9	198	90.8
Hancock	2743	304.1	515	198.8	102	35.2
Hardin	5356	291.4	896	152.4	143	54.8
Harrison	5032	204.7	787	123.7	117	36.3
Henry	4253	228.5	497	81.5	206	81.1
Howard	1567	70.2	356	98.9	-75	-14.5
Humboldt	3576	356.5	382	128.6	281	100.0
Ida	637	71.2	186	93.9	-44	-11.7
Iowa	2733	308.8	304	124.6	248	82.1
Jackson	4792	223.3	768	88.0	147	71.7
Jasper	8981	268.3	773	64.5	288	123.6

Table 6. Change in Total Annual Payments, Recipients, and Average Monthly Payments Per Recipient of Title XIX Benefits in Iowa Counties, 1984-1994 (continued).

County	Total Annual Payments (in \$1,000)		Number of Recipients		Average Monthly Payments Per Person	
	\$ Change	% Change	N Change	% Change	\$ Change	% Change
Jefferson	3970	285.0	639	118.6	164	76.3
Johnson	13857	536.5	2347	226.1	198	95.7
Jones	3199	249.1	556	99.3	144	75.4
Keokuk	2988	239.0	354	81.0	208	87.4
Kossuth	4610	367.6	493	128.1	285	105.2
Lee	10581	211.6	2144	115.5	100	44.4
Linn	42794	322.0	5989	107.2	206	104.0
Louisa	2837	243.5	260	55.2	250	121.4
Lucas	2405	150.9	323	56.2	140	60.6
Lyon	2007	214.7	214	103.9	206	54.5
Madison	2467	138.7	295	64.3	146	45.2
Mahaska	6136	257.9	859	96.1	183	82.4
Marion	5632	239.9	815	92.4	170	76.6
Marshall	12839	416.4	1082	81.0	357	185.9
Mills	18052	68.2	350	28.8	556	30.7
Mitchell	2133	186.3	274	101.5	149	42.2
Monona	3899	264.5	359	70.0	274	114.6
Monroe	3268	295.2	464	110.0	193	88.1
Montgomery	4065	294.1	514	112.7	215	85.0
Muscatine	8388	265.7	2021	136.5	97	54.5
O'Brien	3221	208.9	366	88.6	198	63.7
Osceola	804	198.5	124	92.5	140	55.8
Page	4976	239.2	657	83.7	187	84.6
Palo Alto	2917	224.2	256	59.4	260	103.2
Plymouth	4217	279.3	336	72.6	325	119.5
Pocahontas	2788	299.1	269	96.8	288	103.2
Polk	88875	248.0	15113	127.3	133	52.8
Pottawattamie	24782	236.5	4847	131.1	108	45.8
Poweshiek	4143	384.7	434	97.3	293	145.8
Ringgold	1479	145.3	137	49.3	196	64.3
Sac	2574	216.1	398	107.9	140	52.0
Scott	46304	307.0	9374	151.1	125	61.6
Shelby	2513	195.6	324	95.0	162	51.6
Sioux	4227	208.0	461	100.0	199	54.2
Story	9054	304.4	1189	129.9	205	75.6
Tama	4527	236.2	585	105.0	183	63.8
Taylor	1513	116.3	132	36.4	175	58.5
Union	2758	154.6	506	76.8	99	43.8
Van Buren	1733	251.5	244	80.5	180	95.2
Wapello	10007	184.0	1196	54.8	173	83.2
Warren	6603	196.1	811	77.8	179	66.5
Washington	5811	338.6	471	90.9	358	129.7
Wayne	2035	173.0	300	76.1	137	55.0
Webster	13875	277.4	1723	93.0	215	95.6
Winnebago	3045	293.6	304	102.0	275	94.8
Winneshiek	3893	367.3	548	143.8	212	91.4
Woodbury	31515	221.0	4098	100.3	175	60.1
Worth	1671	226.1	86	35.2	356	141.3
Wright	3478	257.4	576	123.6	144	59.5
State of Iowa	734579	229.5	101266	103.5	168	61.5



Polk's average monthly number of recipients (26,983) was the highest in 1994. Five others (Black Hawk, Linn, Pottawattamie, Scott, Woodbury) had at least 5,000. Five counties averaged fewer than 400 recipients of medical assistance, with Osceola the only one of these below 300.

The state (+101,000) and all 99 counties had more Title XIX recipients in 1994 than in 1984. Black Hawk, Linn, Polk, and Scott averaged at least 5,000 more persons receiving benefits in the later year. Fifteen other counties had at least 1,000 more, while 20 increased by less than 300, although only Worth increased by fewer than 100 recipients. Recipients statewide more than doubled (+103.5%) between 1984 and 1994. Forty-five counties counted at least twice the number receiving Title XIX benefits in 1994 as they reported in 1984. Boone and Mills increased by less than 20.0 percent; caution is urged in interpreting the figures for these two counties, because they are influenced by recipients located in two state facilities.

In Iowa in 1994, an average of 84.4 percent of those eligible received benefits monthly. That figure for 1984 for the state was 58.4 percent. For the counties in Iowa in 1994, the percentage of those eligible who received benefits ranged from 66.7 percent to 96.9 percent. In all 99 counties, the percentage of those eligible who actually used the benefits increased between 1984 and 1994. 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 1994, an average of 8.3 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 1994, the percentage of the population that was eligible for medical assistance ranged from less than 5 percent in 7 counties to 10 percent or more in 25 others. Residents eligible for the program accounted for less than 4 percent of the total population in Grundy, Johnson, and Sioux; they were at least 13 percent in Appanoose, Decatur, and Wapello. Fifty-five 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 1994 than in 1984.

### **Total Annual Title XIX Payments**

More than \$1 billion was paid in Title XIX medical benefits in Iowa in 1994 (Table 4, Figure 2). This was nearly \$126 million more than in 1993 and the highest amount of the period reported. 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 1994 payments were less than \$2 million in Adams, Grundy, Ida, and Osceola. In contrast, Polk's figure was more than \$124 million; payments in Black Hawk, Linn, Mills, Scott, and Woodbury exceeded \$40 million that year.

Although total payments declined in 12 counties between 1993 and 1994, large increases took place when the 1984-1994 period is examined. Statewide, payments rose more than \$734 million between 1984 and 1994, an increase of nearly 230 percent (Table 6). All but five counties (Boone, Grundy, Howard, Ida, Mills) experienced percentage gains greater than 100. Dollar increases ranged from \$622,000 in Grundy to \$88.9 million in Polk.

### **Average Monthly Title XIX Payments Per Person**

Medical benefits for the state averaged \$441 per recipient per month in 1994, \$3 lower than in 1993 (Table 5). Among the counties, the lowest per person payments were in Appanoose (\$294) and Muscatine (\$275), the only ones below \$300. Monthly benefits were more than double that level for three counties (Audubon, Washington, Worth). Two others (Boone, \$2,002; Mills, \$2,367) were substantially higher than all others; again, residents of state facilities influence the results.

Monthly payments for each recipient averaged \$168 higher in 1994 than in 1984 (Table 6). All counties except Howard and Ida 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 61.5 percent in the state. This is somewhat higher than the rate of inflation (+41.0%) over those years but not nearly as high as the 230 percent increase in total payments. County gains in average benefits per person ranged from 6.6 percent (Adams) to 185.9 percent (Marshall). Twenty-three counties increased average monthly benefits per person by at least 100 percent; 94 counties increased at least that much in total benefits paid, however.

### Change in Selected Title XIX Figures

The number of Title XIX recipients increased by 103.5 percent between 1984 and 1994, compared with increases of 61.5 percent in average monthly payments per person and 230 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 four 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 lower 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, 1980-1994.

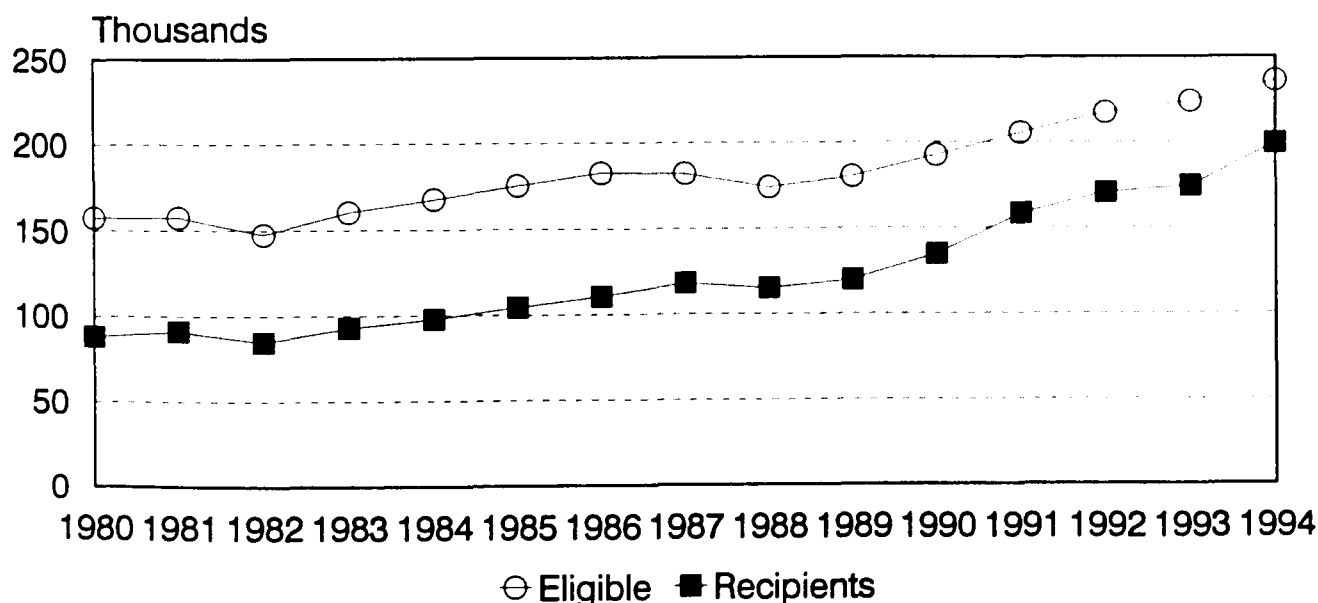
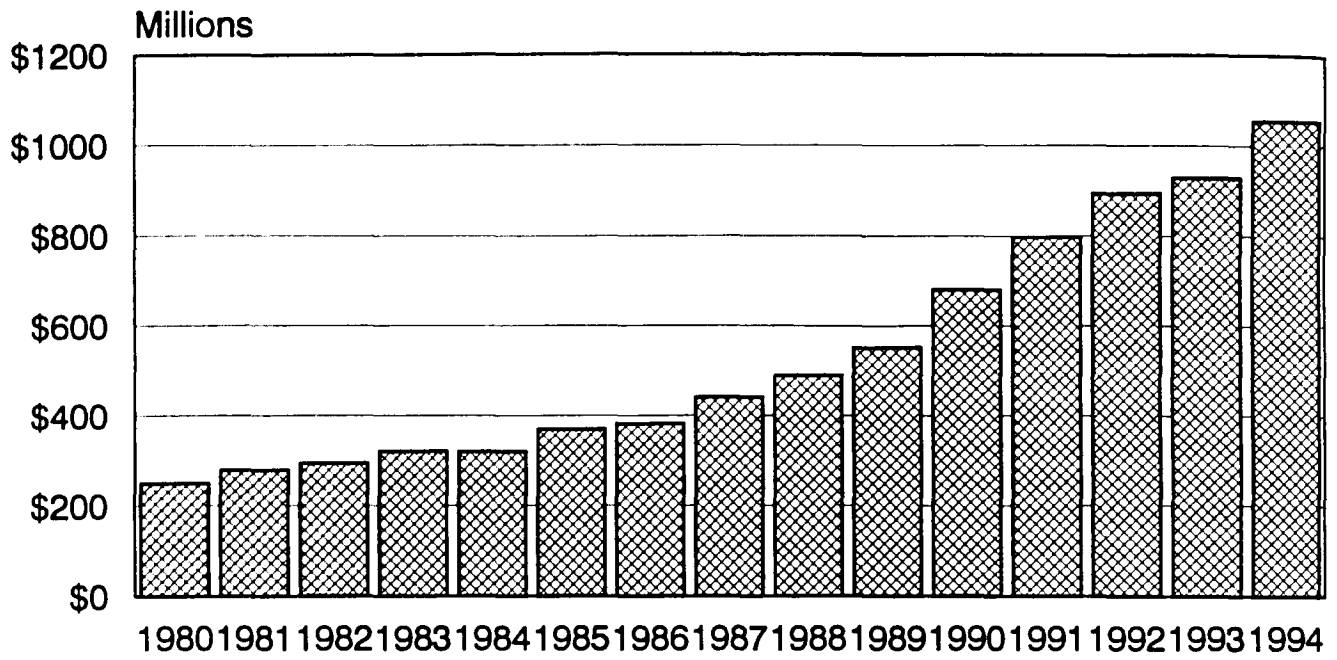


Figure 2. Total annual Title XIX payments in Iowa, 1980-1994.



## Aid to Families With Dependent Children in Iowa's Counties: 1980-1994

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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 1994 (Table 1). The highest monthly average was 36,129 in 1981 followed by 35,679 in 1994. The 1994 average was 3,434 cases higher than the 1980-1994 low, which occurred in 1989. Across the 15 years, caseloads in the regular program varied relatively little.

In 1994, three counties (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 5,801 the highest.

An increase of 886 regular AFDC cases occurred from 1993 to 1994; this was the fifth consecutive year-to-year increase. Sixty-seven of Iowa's 99 counties had increases between 1993 and 1994; three (Black Hawk, Polk, Scott) gained at least 50 cases. Twenty-nine counties reported declines from 1993 to 1994, although only Woodbury (-114) dropped by more than 25 cases.

A 10-year comparison (1984-1994) reveals that Iowa had 927 more regular cases at the end of the period than at the beginning. The majority (54) of Iowa's counties also had more cases in 1994 than in 1984, with the largest gains in Scott (+620) and Polk (+513); five others (Clinton, Johnson, Marshall, Pottawattamie, Story) also increased by at least 100 cases. Four counties (Black Hawk, Dubuque, Linn, Woodbury) reported declines of more than 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 1994 was 94,568 (Table 2). This figure

Table 1. Average Monthly Number of Regular AFDC Cases in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	50	56	57	49	46	39	48	56	69	66	64	60	51	66	66
Adams	53	47	48	43	36	39	43	52	46	40	30	27	22	33	35
Allamakee	84	84	81	67	72	79	87	93	105	108	110	109	126	145	144
Appanoose	273	274	290	297	300	322	326	301	301	307	328	328	304	306	306
Audubon	42	37	41	42	36	33	37	43	47	47	37	37	40	55	59
Benton	219	216	225	216	225	199	209	231	217	207	207	197	198	206	182
Black Hawk	2629	2539	2549	2526	2550	2703	2743	2893	2972	2888	2907	2682	2538	2752	2728
Boone	245	252	248	228	209	229	239	251	263	260	262	275	269	285	285
Bremer	166	148	126	131	122	124	140	162	180	174	181	157	151	180	168
Buchanan	223	235	242	248	236	245	257	289	280	282	269	256	248	273	260
Buena Vista	157	154	157	137	127	130	144	151	166	153	150	146	149	172	162
Butler	110	102	123	131	122	115	121	121	128	131	120	118	98	123	124
Calhoun	98	90	92	86	79	93	100	106	99	93	98	95	97	119	114
Carroll	128	128	122	122	114	122	117	128	116	109	110	105	110	132	131
Cass	178	170	148	138	137	134	129	133	142	141	140	133	138	188	173
Cedar	142	124	125	121	122	118	115	128	116	118	105	110	126	151	160
Cerro Gordo	570	561	558	539	539	534	547	567	558	527	525	540	566	656	627
Cherokee	113	92	91	97	86	89	92	115	116	108	105	107	104	137	138
Chickasaw	92	84	75	73	80	90	89	106	106	98	98	94	74	93	101
Clarke	135	111	105	90	97	90	100	105	105	94	97	105	103	107	97
Clay	146	152	162	159	154	172	184	195	201	198	194	189	179	208	189
Clayton	85	89	105	109	102	119	124	121	132	134	139	141	140	153	159
Clinton	901	925	887	866	834	823	813	831	822	808	752	728	656	680	643
Crawford	191	168	164	166	162	162	162	163	169	154	156	156	132	147	166
Dallas	283	292	298	276	275	286	283	309	323	319	335	322	267	305	290
Davis	94	90	87	85	100	101	99	94	88	99	98	89	83	86	84
Decatur	124	121	124	114	104	100	102	104	112	105	101	99	103	120	118
Delaware	113	120	122	119	131	146	169	178	177	167	159	155	156	181	171
Des Moines	730	732	705	685	674	652	652	679	698	724	699	663	645	741	657
Dickinson	96	76	82	91	91	107	112	113	109	114	119	126	122	140	147
Dubuque	749	751	761	749	769	804	865	918	963	971	1011	996	936	968	890
Emmet	96	101	101	106	115	117	125	146	153	142	128	127	131	147	146
Fayette	253	265	248	236	203	201	200	206	213	213	213	208	198	227	227

Table 1. Average Monthly Number of Regular AFDC Cases in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	215	191	190	191	200	209	196	214	214	202	208	208	207	225	210
Franklin	94	81	86	79	84	92	90	89	92	82	85	83	85	110	126
Fremont	124	108	92	87	84	95	96	97	98	95	84	78	72	96	102
Greene	107	92	81	83	82	83	92	92	106	93	94	94	94	117	112
Grundy	57	65	68	67	63	60	57	60	58	65	64	68	59	76	73
Guthrie	114	115	116	108	93	99	110	121	105	105	100	97	96	116	127
Hamilton	143	144	134	132	117	123	138	156	138	131	152	157	153	171	175
Hancock	87	83	84	73	80	82	82	82	78	78	81	81	83	101	101
Hardin	218	209	197	174	165	162	172	171	168	160	171	171	175	202	194
Harrison	167	165	172	156	150	156	168	170	161	176	183	179	168	205	224
Henry	225	203	188	169	165	165	157	144	156	170	174	174	152	172	177
Howard	59	60	63	50	54	67	64	71	78	78	81	73	58	69	72
Humboldt	74	74	69	64	65	75	94	95	91	86	72	72	77	104	102
Ida	43	41	45	42	29	35	42	50	49	46	33	36	36	43	46
Iowa	89	74	69	69	73	64	71	80	76	71	63	68	65	79	82
Jackson	219	205	204	222	220	215	234	249	244	241	242	242	223	212	203
Jasper	306	325	315	300	291	300	319	359	400	415	403	401	387	438	408
Jefferson	195	172	168	175	169	166	151	166	148	149	154	171	172	185	195
Johnson	599	550	492	465	455	449	464	483	476	452	449	427	419	500	469
Jones	157	152	139	136	145	159	184	198	208	197	191	183	189	207	193
Keokuk	138	143	133	145	137	139	126	126	119	102	95	91	83	106	106
Kossuth	124	117	120	119	116	101	108	110	110	99	94	110	121	151	152
Lee	695	684	699	704	663	640	659	709	707	685	692	692	648	690	633
Linn	2090	2050	2044	1996	1924	1917	2017	2208	2281	2272	2299	2232	2117	2212	2100
Louisa	177	170	169	151	135	132	145	157	155	150	153	148	145	167	182
Lucas	144	124	129	130	122	123	128	132	143	143	147	137	136	143	159
Lyon	55	53	45	38	42	45	52	49	48	49	50	47	46	52	49
Madison	95	96	95	103	95	103	103	104	105	98	99	100	88	100	105
Mahaska	278	264	269	278	274	277	274	296	299	279	279	272	258	308	309
Marion	281	271	256	237	230	228	228	252	258	262	276	272	247	288	297
Marshall	558	548	533	481	455	452	444	458	438	418	447	424	421	473	485
Mills	201	163	150	136	137	137	144	149	138	142	134	127	127	167	171
Mitchell	60	58	60	59	48	54	62	59	61	57	57	59	52	59	63

Table 1. Average Monthly Number of Regular AFDC Cases in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	107	111	124	134	125	117	129	130	134	119	117	117	124	134	136
Monroe	126	112	116	123	123	130	139	131	131	123	108	108	101	108	104
Montgomery	147	158	153	139	124	118	118	140	151	144	137	134	129	142	147
Muscatine	645	620	625	623	615	618	619	669	688	666	626	600	577	614	604
O'Brien	86	82	80	71	65	68	83	89	85	78	75	78	69	93	95
Osceola	37	31	29	30	28	32	32	32	40	37	34	32	30	36	46
Page	208	198	202	209	208	220	222	218	223	222	212	212	186	222	222
Palo Alto	71	66	70	66	68	71	75	77	92	101	93	97	96	113	122
Plymouth	110	95	96	108	98	110	111	118	124	124	121	119	105	140	144
Pocahontas	62	61	73	67	60	51	55	60	61	71	69	66	65	76	73
Polk	5801	5654	5681	5348	4919	4717	4805	4850	5013	5159	5288	5240	4955	5458	5293
Pottawattamie	1640	1603	1549	1505	1393	1354	1398	1417	1410	1431	1488	1542	1556	1860	1885
Poweshiek	174	155	156	146	131	120	131	143	152	150	147	144	133	149	141
Ringgold	52	51	51	51	56	64	63	62	57	63	56	54	52	61	63
Sac	91	82	88	83	78	81	76	78	85	87	96	92	89	98	95
Scott	3605	3475	3426	3274	3123	3071	3134	3163	3111	3008	2985	2875	2606	2700	2647
Shelby	76	73	69	76	75	67	80	84	80	84	83	81	79	86	82
Sioux	96	80	81	79	78	94	92	91	86	88	88	96	90	103	122
Story	401	379	377	354	335	331	338	379	361	322	296	272	241	294	303
Tama	152	169	193	178	170	171	188	198	185	181	178	177	179	222	227
Taylor	105	99	90	94	93	85	86	101	107	103	102	85	74	89	93
Union	179	189	188	188	191	207	205	216	225	199	202	185	175	198	199
Van Buren	72	76	72	70	71	72	77	82	82	81	86	83	78	90	95
Wapello	698	693	703	679	664	693	710	737	731	691	697	642	590	670	665
Warren	377	350	332	306	287	280	274	306	316	321	326	316	293	353	333
Washington	153	145	146	145	149	134	149	163	152	147	146	128	142	159	161
Wayne	85	91	92	76	81	81	77	80	86	95	99	94	92	102	103
Webster	674	682	684	681	650	633	648	694	685	656	672	658	644	720	728
Winnebago	84	70	68	67	71	58	50	58	64	67	61	72	72	94	91
Winneshiek	91	79	81	86	85	84	96	103	111	102	101	96	92	97	85
Woodbury	1538	1652	1757	1726	1665	1635	1716	1770	1783	1786	1811	1775	1732	1987	2012
Worth	58	63	60	54	55	51	59	76	74	69	67	67	74	79	79
Wright	124	121	133	123	118	117	121	125	139	137	134	134	126	164	172
State of Iowa	35679	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	136	151	158	146	133	103	129	158	209	201	202	174	138	174	183
Adams	160	128	143	122	115	118	132	156	141	126	92	81	64	91	99
Allamakee	237	231	223	178	204	221	241	252	299	310	302	280	323	389	405
Appanoose	686	710	784	814	801	847	888	832	938	929	989	948	901	881	878
Audubon	113	103	115	125	108	100	106	113	131	135	106	107	112	153	162
Benton	573	571	601	599	642	542	566	612	630	591	586	533	529	553	506
Black Hawk	6980	6788	6799	6859	7047	7328	7425	7720	8619	8343	7947	6899	6511	6909	6971
Boone	656	677	655	590	536	576	609	644	708	732	728	752	732	748	749
Bremer	427	380	316	336	316	322	373	428	542	497	497	418	393	447	416
Buchanan	606	623	647	676	634	659	696	756	801	826	771	718	675	710	725
Buena Vista	393	400	404	352	328	325	367	374	474	444	426	403	415	464	433
Butler	297	272	337	377	335	322	338	339	384	378	328	304	251	303	338
Calhoun	246	227	240	238	232	279	279	289	294	263	265	256	258	314	305
Carroll	340	339	324	327	317	324	307	324	331	302	303	280	297	355	353
Cass	489	485	407	370	373	369	342	349	397	393	377	366	379	502	463
Cedar	346	308	315	320	336	315	305	338	323	333	277	301	351	397	419
Cerro Gordo	1429	1411	1449	1418	1449	1416	1429	1461	1593	1500	1443	1416	1487	1713	1647
Cherokee	286	240	250	274	231	237	248	310	345	315	297	281	271	354	373
Chickasaw	239	208	193	194	214	234	239	286	298	280	269	248	196	233	264
Clarke	358	303	293	250	282	263	293	298	309	278	281	292	294	301	273
Clay	364	380	424	419	406	442	456	484	560	556	520	485	452	533	472
Clayton	234	243	286	307	304	328	347	344	395	399	407	396	387	423	450
Clinton	2295	2367	2263	2268	2226	2191	2128	2115	2310	2266	2057	1932	1784	1775	1673
Crawford	516	467	456	459	441	438	435	413	456	418	408	413	361	391	447
Dallas	766	765	779	741	741	776	766	827	945	934	946	890	746	822	773
Davis	253	243	237	223	270	271	273	255	259	301	292	252	237	249	237
Decatur	327	322	319	295	264	257	280	277	304	294	275	276	299	358	344
Delaware	324	347	338	344	386	414	487	508	546	531	503	453	449	516	484
Des Moines	1931	1970	1900	1887	1893	1799	1790	1810	2012	2092	1956	1816	1780	2013	1814
Dickinson	239	197	200	233	237	287	303	290	305	331	325	355	354	385	395
Dubuque	1992	1997	2024	2020	2090	2161	2313	2432	2865	2875	2901	2777	2604	2691	2470
Emmet	258	272	274	300	319	329	355	401	459	426	370	362	359	400	407
Fayette	691	719	680	651	573	549	533	556	610	615	620	580	550	609	602



Table 2. Average Monthly Number of Regular AFDC Recipients in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	581	518	504	516	531	551	512	551	618	575	577	570	570	605	552
Franklin	248	215	222	212	217	250	243	234	280	228	223	219	228	298	348
Fremont	340	297	255	235	233	253	261	264	288	280	252	231	205	265	289
Greene	283	248	218	215	220	217	248	246	304	265	256	251	250	313	305
Grundy	145	180	185	181	174	154	153	160	177	195	183	188	160	192	194
Guthrie	307	306	308	282	260	277	318	352	314	317	294	290	289	340	371
Hamilton	369	375	344	340	298	323	373	408	379	354	412	419	412	454	460
Hancock	244	235	235	199	201	208	212	215	233	222	222	228	223	284	287
Hardin	563	526	479	427	407	397	440	444	481	443	449	450	487	553	516
Harrison	445	452	467	445	409	428	456	461	472	518	517	509	472	533	595
Henry	563	530	479	444	432	445	414	359	439	484	471	463	413	448	478
Howard	157	154	178	143	154	180	170	193	232	230	221	201	158	188	205
Humboldt	211	214	198	175	170	198	243	238	245	241	199	193	207	262	259
Ida	101	103	119	113	75	95	117	137	141	131	97	107	98	110	121
Iowa	227	188	164	165	180	159	187	204	213	191	162	174	174	205	210
Jackson	573	534	520	576	574	563	618	653	711	705	707	671	621	576	564
Jasper	765	826	803	783	739	771	833	933	1132	1152	1096	1050	1041	1178	1110
Jefferson	494	457	435	466	448	418	378	429	437	433	433	448	455	463	499
Johnson	1556	1432	1267	1108	1187	1138	1186	1192	1359	1246	1187	1070	1028	1209	1142
Jones	421	412	376	367	390	434	502	533	585	541	522	457	486	529	503
Keokuk	359	385	346	390	380	405	369	352	360	316	298	258	220	284	273
Kossuth	330	316	316	303	298	257	277	282	320	296	275	309	340	423	423
Lee	1871	1857	1888	1932	1830	1746	1806	1895	2028	1944	1950	1931	1808	1838	1729
Linn	5403	5288	5265	5248	5128	5067	5308	5716	6610	6538	6308	5811	5643	5804	5553
Louisa	469	462	464	424	385	364	398	421	472	449	456	428	412	469	512
Lucas	372	327	339	344	320	317	341	368	427	421	438	397	389	413	465
Lyon	145	143	129	112	131	126	143	134	145	142	147	131	124	140	133
Madison	261	244	238	268	262	287	279	265	299	262	257	263	241	267	273
Mahaska	708	682	694	732	718	716	714	759	858	801	776	730	696	812	819
Marion	730	724	690	630	620	621	613	667	753	766	772	775	691	787	810
Marshall	1516	1485	1440	1311	1238	1222	1199	1201	1351	1272	1249	1099	1127	1265	1324
Mills	539	433	391	360	370	371	398	419	419	441	395	362	378	497	478
Mitchell	146	144	153	152	118	133	159	146	154	143	140	152	146	156	160

Table 2. Average Monthly Number of Regular AFDC Recipients in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	270	293	333	358	332	319	351	358	397	348	323	321	345	362	367
Monroe	342	305	312	345	347	355	373	347	362	342	308	303	286	297	286
Montgomery	374	392	396	371	337	308	302	358	406	387	362	354	350	370	396
Muscatine	1739	1715	1756	1753	1734	1721	1697	1797	1946	1896	1710	1623	1571	1634	1611
O'Brien	218	212	211	186	175	184	229	237	255	224	202	200	184	248	249
Osceola	111	95	87	92	87	94	90	88	120	113	89	92	82	98	122
Page	554	517	543	568	573	592	582	581	627	602	573	560	500	580	582
Palo Alto	190	192	211	194	200	200	215	206	273	294	254	259	275	311	338
Plymouth	268	237	237	271	257	293	304	305	359	330	321	319	287	382	379
Pocahontas	174	167	193	190	148	132	150	158	165	192	203	191	188	219	207
Polk	15616	15220	15308	14605	13706	12858	12992	12814	14463	14672	14794	14345	13703	15084	14704
Pottawattamie	4453	4385	4229	4123	3860	3695	3788	3759	4015	4099	4152	4260	4320	5130	5213
Poweshiek	458	401	398	394	366	326	360	378	419	425	398	386	357	392	377
Ringgold	135	126	126	138	145	170	175	171	158	188	167	151	143	170	169
Sac	231	214	230	219	217	215	193	192	235	244	254	236	232	262	248
Scott	9693	9445	9440	9173	8899	8640	8759	8647	9447	8962	8569	7946	7240	7425	7330
Shelby	196	189	185	201	200	179	218	220	219	241	232	222	222	238	211
Sioux	245	205	220	221	223	264	267	264	262	273	253	280	277	282	335
Story	1022	956	964	915	882	861	877	943	976	883	779	707	650	791	812
Tama	399	441	514	487	461	448	484	519	507	499	501	475	489	598	600
Taylor	268	251	240	268	265	239	242	276	332	306	294	236	206	252	251
Union	480	499	501	509	529	578	559	597	658	585	565	501	480	532	522
Van Buren	195	220	199	203	213	196	213	220	243	234	247	235	225	257	279
Wapello	1837	1792	1830	1778	1772	1847	1897	1941	2091	1987	2003	1773	1593	1754	1713
Warren	942	869	830	784	734	723	718	801	894	919	872	819	788	918	852
Washington	394	379	394	386	410	380	427	445	454	428	437	354	371	402	402
Wayne	239	259	261	216	239	232	226	219	251	275	273	262	257	274	280
Webster	1808	1814	1825	1830	1752	1676	1727	1824	1973	1857	1867	1777	1775	1951	2019
Winnebago	227	191	180	183	195	160	135	148	203	206	169	182	185	250	232
Winneshiek	218	198	212	235	230	229	261	276	346	323	305	258	244	269	223
Woodbury	4155	4498	4828	4859	4739	4564	4772	4789	5315	5353	5184	4922	4753	5424	5536
Worth	154	168	153	146	148	140	157	197	227	202	197	191	208	217	211
Wright	336	315	357	337	322	316	318	339	403	389	381	365	348	443	472
State of Iowa	94568	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, 1983-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	7	6	4	2	1	1	5	7	10	8	6	6
Adams	13	12	10	8	5	5	6	8	9	8	7	6
Allamakee	9	4	2	6	3	5	6	9	17	18	14	10
Appanoose	60	46	46	39	33	31	51	67	83	92	87	65
Audubon	7	3	4	6	3	3	5	6	7	7	3	2
Benton	35	24	17	18	10	13	20	25	27	38	42	37
Black Hawk	179	135	124	135	140	179	275	432	511	464	426	203
Boone	51	33	23	16	13	24	31	37	45	43	43	29
Bremer	20	12	14	18	16	12	23	39	44	44	40	30
Buchanan	45	22	19	24	25	33	57	89	111	103	83	65
Buena Vista	13	10	8	8	9	10	13	24	31	20	13	14
Butler	18	13	16	14	19	21	28	39	44	43	38	24
Calhoun	13	6	9	7	7	4	11	19	24	20	15	10
Carroll	8	5	5	6	6	6	5	9	12	13	17	15
Cass	28	11	12	11	9	5	8	20	27	29	17	11
Cedar	27	20	20	19	18	20	28	33	38	29	25	28
Cerro Gordo	66	40	37	36	28	23	35	48	74	59	49	60
Cherokee	9	4	3	2	2	1	4	7	8	8	10	6
Chickasaw	14	7	7	7	7	6	13	26	30	30	26	15
Clarke	19	10	15	15	10	7	11	21	25	25	14	19
Clay	13	7	6	7	8	5	12	23	32	32	20	20
Clayton	11	5	7	7	6	9	15	20	27	24	18	22
Clinton	123	70	67	76	67	71	95	157	216	229	191	142
Crawford	19	8	9	11	11	11	8	12	11	12	7	10
Dallas	36	19	19	15	14	14	16	37	47	44	35	24
Davis	7	6	6	9	9	13	19	33	34	36	35	30
Decatur	24	10	13	11	7	8	9	13	20	16	15	15
Delaware	21	12	13	11	15	24	34	49	62	59	49	45
Des Moines	75	54	42	43	45	40	33	56	83	83	76	76
Dickinson	12	7	5	6	5	9	8	12	11	11	9	10
Dubuque	99	64	62	74	75	89	125	196	236	249	246	205
Emmet	16	14	13	12	10	11	13	22	28	22	18	15
Fayette	38	31	28	25	25	30	43	63	72	58	50	39
Floyd	44	26	24	21	20	18	30	46	61	49	40	33
Franklin	15	5	10	11	10	12	7	8	9	13	14	14
Fremont	14	7	7	7	3	5	5	9	17	17	12	8
Greene	16	14	11	11	7	5	9	13	20	22	21	13
Grundy	7	6	7	8	7	9	12	16	19	11	14	8
Guthrie	15	10	7	5	6	8	12	18	23	19	26	20
Hamilton	23	15	16	18	12	8	10	21	29	22	19	17
Hancock	7	3	5	8	5	2	6	14	17	15	7	11
Hardin	30	11	11	12	8	10	15	17	19	23	17	15
Harrison	28	17	13	16	14	8	14	17	19	17	25	23
Henry	33	20	18	19	18	13	15	23	26	38	32	28
Howard	7	6	6	8	7	4	4	8	11	17	17	17
Humboldt	7	6	7	7	11	6	6	12	18	17	10	13
Ida	3	0	0	1	0	0	1	2	4	1	2	2
Iowa	9	6	5	5	4	2	3	9	15	14	10	13
Jackson	41	32	27	32	28	39	61	83	112	100	89	68
Jasper	44	23	17	15	22	19	26	41	51	49	59	67

Table 3. Average Monthly Number of Unemployed-Parent AFDC Cases in Iowa Counties, 1983-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	48	33	28	23	22	19	22	26	36	35	35	27
Johnson	46	25	19	17	17	13	17	27	30	24	18	20
Jones	24	16	16	14	12	12	16	20	33	33	32	33
Keokuk	19	15	17	19	19	17	21	31	36	32	24	19
Kossuth	18	13	12	10	12	10	10	14	16	16	14	12
Lee	101	61	51	53	45	46	62	82	99	116	117	87
Linn	200	126	130	140	114	109	183	282	336	326	303	264
Louisa	27	16	17	20	17	18	15	24	34	41	44	27
Lucas	30	12	12	12	13	14	17	20	28	30	31	28
Lyon	1	1	1	0	0	2	4	8	8	10	8	10
Madison	11	6	9	5	4	7	5	14	18	20	20	19
Mahaska	30	26	36	33	31	20	24	37	48	45	42	46
Marion	43	30	25	26	22	22	36	51	66	48	49	48
Marshall	58	45	42	35	32	25	38	64	74	67	66	44
Mills	22	10	13	10	12	8	13	22	20	24	10	14
Mitchell	4	4	2	3	2	2	6	7	7	8	9	7
Monona	12	9	12	16	11	11	16	26	30	28	27	21
Monroe	18	15	12	11	10	15	26	32	41	33	25	23
Montgomery	27	15	11	8	7	6	10	13	20	24	10	9
Muscatine	109	75	66	73	79	77	96	121	132	112	94	62
O'Brien	10	7	10	3	1	1	3	11	14	11	12	9
Osceola	3	2	1	2	2	2	3	4	8	9	7	4
Page	42	31	26	24	16	21	26	35	46	38	30	29
Palo Alto	10	7	4	4	5	4	7	16	24	24	18	17
Plymouth	9	4	4	3	3	6	13	14	19	16	11	10
Pocahontas	7	8	5	4	8	5	3	8	14	12	11	6
Polk	332	150	162	158	137	135	148	225	283	287	285	298
Pottawattamie	137	84	81	68	45	35	35	49	68	69	68	75
Poweshiek	15	10	16	12	8	8	13	26	39	34	28	27
Ringgold	16	8	7	6	4	7	13	18	18	18	14	14
Sac	16	8	7	5	4	5	6	7	11	12	10	10
Scott	283	187	156	165	181	196	249	356	395	410	364	206
Shelby	15	7	8	6	8	4	6	9	15	12	9	7
Sioux	5	2	5	4	4	3	4	8	15	10	5	4
Story	76	31	28	29	15	11	15	31	32	35	25	23
Tama	17	12	12	15	9	6	8	19	28	29	26	20
Taylor	11	5	4	7	9	10	11	11	15	20	15	17
Union	26	15	16	17	11	13	17	25	32	38	29	24
Van Buren	9	8	6	7	8	9	12	17	20	28	23	20
Wapello	112	82	88	94	78	83	126	185	179	133	117	107
Warren	22	12	17	17	19	18	24	34	43	52	58	49
Washington	20	11	6	10	10	10	20	22	27	26	16	11
Wayne	14	9	8	6	8	10	14	19	22	22	23	18
Webster	86	63	52	52	47	46	45	93	115	99	94	66
Winnebago	7	5	5	4	5	5	7	10	15	11	6	11
Winneshiek	16	14	13	7	10	11	20	28	27	28	25	22
Woodbury	79	50	55	60	47	37	50	95	122	106	102	99
Worth	7	8	5	6	7	6	6	10	12	14	13	12
Wright	16	9	10	13	7	3	5	14	19	17	14	12
State of Iowa	3741	2334	2222	2244	2033	2072	2837	4331	5308	5108	4587	3724

Table 4. Average Monthly Number of Unemployed-Parent AFDC Recipients in Iowa Counties, 1983-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	38	28	18	8	5	8	25	26	50	36	25	21
Adams	52	50	44	39	25	21	27	32	40	33	28	22
Allamakee	36	14	12	30	12	21	22	38	82	82	61	37
Appanoose	254	196	190	159	137	128	199	255	377	396	366	244
Audubon	32	13	18	23	12	11	23	31	40	34	12	6
Benton	144	97	75	77	44	56	86	99	127	200	185	130
Black Hawk	737	563	516	553	601	746	1126	1707	2308	2127	1768	621
Boone	207	141	105	70	54	109	146	166	207	192	184	103
Bremer	78	46	51	74	70	51	94	156	213	218	183	104
Buchanan	192	88	81	99	111	143	253	382	515	472	353	245
Buena Vista	49	39	29	33	33	39	52	95	163	101	52	45
Butler	75	46	61	56	70	80	110	154	194	177	159	89
Calhoun	55	28	36	29	32	17	46	81	117	90	66	41
Carroll	39	25	19	23	24	25	16	31	52	54	64	50
Cass	119	45	56	46	37	18	37	83	117	119	63	35
Cedar	102	76	80	82	80	85	112	126	157	119	105	108
Cerro Gordo	265	172	162	150	117	95	140	180	315	259	191	214
Cherokee	32	14	11	8	9	6	17	28	40	37	45	19
Chickasaw	55	29	27	26	27	21	56	102	133	141	119	53
Clarke	83	43	61	60	45	30	45	84	105	109	58	63
Clay	57	34	24	24	30	19	45	93	149	134	78	74
Clayton	51	22	29	28	23	39	59	77	122	114	71	76
Clinton	472	269	273	306	277	286	385	624	940	997	790	524
Crawford	85	29	37	48	45	41	33	41	50	53	29	36
Dallas	144	71	72	63	57	57	62	145	202	178	135	81
Davis	26	17	20	36	38	50	77	130	156	156	149	114
Decatur	97	36	51	43	27	29	38	55	90	66	63	54
Delaware	81	49	60	51	69	109	146	205	285	264	228	171
Des Moines	298	213	157	185	191	170	138	218	387	393	333	300
Dickinson	45	27	19	25	22	38	37	52	54	50	38	35
Dubuque	414	255	252	314	331	390	570	838	1072	1139	1099	780
Emmet	69	55	51	52	48	48	60	91	156	126	88	66
Fayette	164	131	117	103	104	125	181	261	347	292	227	141
Floyd	177	104	99	85	79	76	127	191	276	243	183	128
Franklin	60	24	40	42	41	46	27	31	40	56	53	48
Fremont	58	30	29	28	12	20	21	33	65	70	51	33
Greene	64	53	44	41	28	23	37	55	90	98	87	54
Grundy	31	24	26	39	28	38	46	64	80	43	52	25
Guthrie	62	45	27	19	25	31	46	73	109	93	119	83
Hamilton	94	67	78	79	51	35	46	79	127	93	77	65
Hancock	30	12	20	32	22	11	23	57	72	66	26	37
Hardin	125	48	46	51	35	43	65	69	80	97	77	56
Harrison	123	73	54	69	60	30	50	65	88	81	113	89
Henry	134	80	72	79	71	58	63	90	110	176	133	96
Howard	32	26	25	33	27	14	15	31	61	84	70	68
Humboldt	30	22	29	30	50	24	25	49	75	71	39	48
Ida	12	2	0	2	1	0	4	9	18	4	7	6
Iowa	36	19	21	22	17	10	13	40	88	65	41	44
Jackson	164	135	113	136	122	170	269	347	498	451	379	240
Jasper	170	91	66	57	92	76	105	156	212	205	228	233

Table 4. Average Monthly Number of Unemployed-Parent AFDC Recipients in Iowa Counties, 1983-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	192	136	112	92	91	79	93	100	155	156	148	99
Johnson	173	96	73	73	72	49	68	96	164	139	73	73
Jones	98	60	62	57	52	48	64	79	154	164	135	107
Keokuk	81	65	77	83	81	71	85	128	174	143	104	69
Kossuth	84	53	50	49	54	46	37	58	79	70	56	41
Lee	398	249	212	209	180	186	256	327	446	517	481	321
Linn	832	523	550	586	497	455	782	1099	1540	1507	1254	882
Louisa	111	68	67	81	69	76	64	97	162	178	185	99
Lucas	119	51	51	51	50	53	66	82	130	135	136	94
Lyon	5	4	2	0	0	7	18	34	35	46	37	43
Madison	47	25	35	23	17	30	24	56	77	84	81	71
Mahaska	115	101	142	133	128	81	91	130	219	203	160	159
Marion	171	120	95	98	80	87	149	205	293	211	197	178
Marshall	229	175	162	141	135	105	158	258	382	362	272	156
Mills	89	41	56	42	47	32	59	89	93	106	48	53
Mitchell	11	15	8	10	9	11	27	27	32	36	39	26
Monona	52	40	49	64	46	47	67	105	129	115	122	83
Monroe	76	60	49	43	38	58	100	120	169	146	103	85
Montgomery	106	62	39	28	28	23	41	54	83	103	42	29
Muscatine	472	320	280	318	344	323	402	517	595	513	406	235
O'Brien	42	29	40	13	5	7	17	48	68	52	47	31
Osceola	13	10	6	8	9	6	13	20	42	41	31	16
Page	167	120	100	89	64	86	99	135	196	163	132	113
Palo Alto	39	25	17	20	24	18	28	66	125	123	77	60
Plymouth	35	15	16	13	14	26	53	58	85	72	46	33
Pocahontas	29	31	18	17	34	25	13	35	63	51	46	24
Polk	1419	657	696	678	619	598	629	892	1246	1271	1225	1122
Pottawattamie	540	341	330	285	206	150	154	193	291	297	276	269
Poweshiek	62	44	69	51	34	35	59	110	207	172	121	98
Ringgold	67	35	29	27	19	30	51	69	90	89	52	51
Sac	63	35	31	23	15	21	25	26	53	53	45	39
Scott	1204	795	666	717	813	845	1052	1458	1785	1841	1569	792
Shelby	56	23	32	27	34	13	24	35	61	51	38	24
Sioux	20	8	22	15	17	20	28	49	77	50	19	13
Story	302	124	107	113	60	45	56	109	125	142	96	76
Tama	69	45	49	62	38	27	31	70	127	131	109	79
Taylor	49	21	18	29	40	36	45	48	81	98	56	55
Union	108	62	63	68	45	56	69	101	167	178	126	85
Van Buren	35	32	24	29	38	40	57	71	97	133	104	74
Wapello	433	326	358	377	315	334	514	708	787	589	486	384
Warren	90	51	74	74	82	75	95	134	195	230	228	168
Washington	80	44	27	49	39	40	87	82	126	110	61	46
Wayne	59	35	33	26	32	41	54	72	101	97	93	64
Webster	363	267	219	226	216	190	180	367	487	426	377	223
Winnebago	28	18	17	16	18	18	28	36	65	51	22	43
Winneshiek	61	55	51	27	42	47	88	114	127	117	94	78
Woodbury	346	211	238	266	213	155	220	389	636	531	439	380
Worth	26	29	19	23	30	27	25	37	55	58	51	39
Wright	73	38	40	58	30	13	20	58	79	70	57	42
State of Iowa	15382	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	205	242	249	230	206	164	188	231	280	251	259	247	191	239	244
Adams	234	201	215	193	169	183	197	222	191	165	125	112	87	125	130
Allamakee	369	367	357	268	313	338	360	370	426	430	417	394	452	517	506
Appanoose	1145	1191	1289	1352	1333	1379	1370	1255	1262	1235	1325	1326	1240	1186	1120
Audubon	164	155	171	188	158	148	156	178	189	179	144	148	150	198	218
Benton	909	935	983	974	1016	856	879	937	884	817	835	797	777	775	683
Black Hawk	11098	11040	11091	11232	11210	11503	11436	11845	12292	11363	11447	10437	9751	10129	9980
Boone	1074	1137	1106	1011	900	971	991	1021	1056	1016	1036	1088	1059	1049	998
Bremer	662	615	521	555	523	514	559	641	740	674	699	612	581	663	577
Buchanan	915	991	1048	1097	1035	1052	1058	1168	1153	1110	1055	986	950	1009	959
Buena Vista	627	652	664	575	540	523	583	602	676	606	595	566	566	626	570
Butler	466	439	532	600	540	500	511	507	520	495	458	434	359	455	449
Calhoun	376	372	391	389	358	416	415	444	420	358	367	358	360	426	411
Carroll	528	541	516	522	505	511	465	502	460	413	415	397	408	452	439
Cass	738	747	646	619	600	569	520	527	579	553	541	513	512	672	625
Cedar	545	508	524	525	528	501	476	530	469	466	430	443	499	550	572
Cerro Gordo	2311	2376	2415	2371	2361	2250	2227	2315	2306	2089	2055	2109	2190	2421	2276
Cherokee	454	385	382	420	360	364	374	461	465	398	395	403	380	466	483
Chickasaw	376	341	313	317	336	372	367	433	427	387	385	367	283	333	359
Clarke	565	483	459	410	446	399	429	442	452	375	394	416	402	405	368
Clay	584	640	684	704	653	711	720	789	812	762	738	717	650	749	654
Clayton	367	402	471	493	463	508	517	514	556	537	555	558	542	564	571
Clinton	3765	4001	3858	3820	3704	3521	3317	3310	3361	3183	2966	2795	2545	2477	2273
Crawford	811	754	723	741	702	692	671	640	663	586	579	589	494	527	591
Dallas	1265	1319	1331	1232	1212	1245	1175	1270	1334	1259	1314	1260	1047	1092	1045
Davis	391	404	385	375	429	435	416	379	358	393	390	354	319	333	306
Decatur	502	525	536	499	438	411	416	425	439	405	390	382	406	479	464
Delaware	472	524	529	533	586	620	704	750	767	705	665	629	638	683	627
Des Moines	3110	3244	3155	3091	3017	2806	2726	2749	2806	2795	2743	2571	2484	2711	2416
Dickinson	386	314	339	390	397	452	450	458	441	429	449	496	477	517	528
Dubuque	3123	3270	3304	3286	3403	3537	3746	3916	4065	3930	4067	3970	3648	3667	3343
Emmet	420	441	440	461	499	499	521	617	644	562	497	505	503	542	534
Fayette	1077	1154	1092	1051	897	852	818	835	867	831	839	800	752	826	803

Table 5. Total Annual Regular-Program AFDC Payments (in \$1,000) in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	900	842	820	848	861	862	790	847	869	784	796	805	799	823	739
Franklin	378	344	370	353	347	396	388	378	400	325	320	318	313	390	447
Fremont	506	470	399	373	359	389	390	395	398	376	341	307	276	343	382
Greene	442	391	351	350	352	341	366	367	415	347	356	357	351	422	404
Grundy	234	292	309	306	289	245	233	247	238	254	255	260	235	279	259
Guthrie	463	490	495	452	403	426	454	512	422	417	394	381	369	427	459
Hamilton	603	622	577	572	484	492	559	633	540	484	557	585	561	615	603
Hancock	371	377	377	323	334	339	330	333	328	297	308	310	311	352	356
Hardin	878	864	799	717	691	656	676	684	684	631	671	660	684	743	678
Harrison	667	700	734	684	649	636	681	681	656	680	703	689	644	716	767
Henry	858	852	781	714	684	678	640	578	618	647	670	674	577	619	638
Howard	228	244	279	230	241	283	264	296	324	301	307	275	208	239	258
Humboldt	285	325	310	286	281	306	370	373	354	328	279	272	285	355	352
Ida	154	167	186	171	115	141	173	198	195	177	136	147	129	143	149
Iowa	328	298	279	280	298	257	293	315	305	267	232	252	234	279	286
Jackson	923	885	871	958	953	904	973	1024	999	967	994	969	871	787	764
Jasper	1238	1396	1328	1297	1211	1211	1278	1447	1605	1569	1520	1516	1462	1632	1544
Jefferson	788	754	748	789	733	683	583	660	590	570	606	658	654	653	698
Johnson	2463	2353	2126	1996	1956	1899	1943	2027	1977	1778	1778	1678	1640	1892	1696
Jones	654	658	616	604	617	679	761	825	858	768	756	707	713	752	691
Keokuk	561	623	589	654	600	612	531	504	491	419	388	363	312	384	375
Kossuth	507	503	497	499	481	406	422	432	436	374	348	413	448	563	559
Lee	2918	2984	3066	3137	2943	2728	2759	2899	2897	2664	2700	2697	2493	2508	2322
Linn	8577	8724	8803	8763	8391	8190	8483	9129	9494	9033	9156	8745	8205	8368	7749
Louisa	750	744	750	684	621	568	605	651	657	602	619	588	561	624	675
Lucas	600	538	568	571	538	501	506	532	583	554	573	541	521	521	590
Lyon	221	218	184	162	181	186	218	200	193	185	192	178	160	190	172
Madison	396	404	403	451	428	452	423	407	413	359	351	359	319	364	375
Mahaska	1168	1154	1199	1209	1176	1159	1097	1193	1218	1088	1100	1076	1011	1139	1109
Marion	1155	1184	1128	1040	1016	992	987	1050	1097	1051	1099	1101	974	1007	1095
Marshall	2370	2421	2400	2159	2034	1967	1895	1917	1848	1681	1806	1693	1638	1777	1840
Mills	804	689	628	576	580	566	589	611	580	572	530	501	519	618	630
Mitchell	236	241	259	247	196	222	256	233	240	206	210	212	192	210	217



Table 5. Total Annual Regular-Program AFDC Payments (in \$1,000) in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	420	467	537	582	537	474	517	540	571	462	441	444	477	487	493
Monroe	523	491	502	559	542	542	563	518	530	470	422	416	391	396	378
Montgomery	591	661	665	628	552	482	471	565	605	541	511	502	479	504	510
Muscatine	2798	2795	2841	2840	2791	2678	2591	2773	2852	2640	2471	2361	2241	2257	2234
O'Brien	327	335	334	301	276	287	333	353	338	297	279	287	257	321	326
Osceola	163	146	140	141	125	134	124	120	160	144	129	125	107	131	159
Page	837	825	868	913	890	915	887	874	881	823	798	794	692	768	770
Palo Alto	292	297	317	299	314	300	301	309	361	387	341	348	359	416	437
Plymouth	414	401	395	451	408	462	448	468	490	463	462	447	398	505	489
Pocahontas	258	267	317	303	241	200	219	236	240	264	266	254	237	265	254
Polk	25235	25424	25712	24517	22482	20561	20187	19997	20629	20222	20915	20608	19564	20815	19808
Pottawattamie	6924	7026	6840	6686	6181	5776	5735	5706	5739	5532	5798	6033	6038	7000	7064
Poweshiek	725	670	661	642	586	498	531	574	608	578	576	559	512	548	496
Ringgold	211	209	220	232	240	273	274	270	236	259	229	208	194	207	216
Sac	364	349	371	354	339	330	303	306	339	334	361	351	331	352	337
Scott	15617	15634	15564	15068	14370	13684	13571	13378	13198	12154	12039	11541	10350	10281	9977
Shelby	314	300	299	324	310	273	301	321	297	306	309	301	307	312	282
Sioux	363	342	355	350	333	399	377	375	348	348	340	378	363	372	434
Story	1706	1639	1652	1575	1496	1464	1451	1543	1483	1284	1181	1030	934	1123	1123
Tama	621	716	838	783	740	701	752	803	743	700	682	666	673	825	825
Taylor	418	417	385	425	411	365	357	414	463	413	417	318	265	312	322
Union	762	831	831	833	824	921	870	892	933	797	821	735	691	736	711
Van Buren	312	354	326	327	334	311	326	344	347	323	350	343	320	344	370
Wapello	2940	3001	3082	3005	2880	2947	2944	2981	2947	2679	2739	2527	2295	2460	2363
Warren	1511	1499	1425	1320	1229	1198	1163	1250	1280	1240	1234	1217	1133	1325	1175
Washington	614	610	639	622	627	569	615	673	636	575	584	496	539	590	559
Wayne	350	402	400	337	377	345	322	323	349	365	379	364	346	374	378
Webster	2827	2967	2992	2989	2823	2608	2609	2777	2732	2484	2545	2470	2421	2626	2620
Winnebago	346	307	295	288	309	242	201	229	263	255	230	260	262	338	315
Winneshiek	359	313	333	370	371	355	406	426	448	398	384	349	339	353	310
Woodbury	6452	7243	7785	7796	7452	7089	7289	7408	7419	7153	7188	7020	6782	7547	7624
Worth	247	282	264	231	239	207	236	314	319	270	268	264	294	282	276
Wright	514	469	562	551	519	495	492	500	570	537	522	512	470	590	628
State of Iowa	150015	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, 1983-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	37	33	20	9	6	6	24	32	51	38	27	30
Adams	61	59	53	45	33	28	30	36	42	34	32	27
Allamakee	43	16	13	37	16	28	29	51	90	89	65	44
Appanoose	283	239	241	206	169	153	233	319	403	414	415	302
Audubon	31	16	20	24	15	15	25	34	38	36	12	7
Benton	157	117	85	90	53	60	99	124	132	184	209	169
Black Hawk	840	692	627	702	732	913	1351	2073	2492	2153	1992	898
Boone	239	178	136	86	67	136	172	198	225	201	217	130
Bremer	83	54	68	90	89	62	116	187	231	209	189	123
Buchanan	196	107	101	120	140	167	294	447	567	479	397	274
Buena Vista	57	50	37	44	42	46	57	113	160	100	60	63
Butler	85	61	81	69	95	102	129	184	208	191	178	101
Calhoun	51	32	47	37	39	19	53	92	118	93	71	45
Carroll	39	27	23	31	26	27	22	42	53	55	73	62
Cass	106	44	64	57	45	19	40	95	136	132	76	46
Cedar	89	93	104	107	100	106	125	161	184	127	123	121
Cerro Gordo	300	209	196	191	142	117	164	219	343	272	232	253
Cherokee	39	19	15	11	11	7	23	35	39	35	41	25
Chickasaw	61	34	32	31	33	22	63	124	140	144	127	67
Clarke	102	54	74	74	49	38	53	100	121	119	69	83
Clay	62	40	31	32	41	28	52	113	161	144	91	92
Clayton	56	26	39	39	30	49	74	97	128	123	80	98
Clinton	522	339	350	396	333	349	443	734	1028	1045	898	610
Crawford	87	42	51	66	54	53	42	55	55	59	35	44
Dallas	166	98	98	86	77	72	74	171	227	191	163	103
Davis	29	23	28	48	49	64	92	162	170	175	169	136
Decatur	105	44	66	57	36	39	50	68	109	74	70	64
Delaware	85	58	71	56	80	115	169	244	316	277	242	197
Des Moines	342	262	195	222	233	201	158	266	409	384	379	357
Dickinson	57	35	25	31	24	40	40	55	53	42	37	41
Dubuque	427	296	296	376	396	463	641	978	1146	1162	1169	886
Emmet	73	65	62	60	55	59	68	112	142	109	96	68
Fayette	177	163	150	136	123	157	225	328	369	290	244	174

Table 6. Total Annual Unemployed-Parent AFDC Payments (in \$1,000) in Iowa Counties, 1983-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Floyd	195	127	125	106	105	88	140	215	283	231	184	140
Franklin	57	25	47	53	48	56	35	38	46	57	59	60
Fremont	50	35	34	34	14	24	25	40	79	78	56	39
Greene	69	68	51	54	32	29	44	65	95	103	98	56
Grundy	35	29	29	44	38	49	55	76	86	50	58	32
Guthrie	66	52	34	25	31	40	56	87	113	91	126	88
Hamilton	100	80	90	94	61	40	54	98	138	96	83	73
Hancock	32	14	23	38	29	11	25	62	80	65	28	46
Hardin	135	63	58	60	40	50	72	83	84	107	84	65
Harrison	112	79	66	77	75	38	63	77	92	75	120	102
Henry	141	94	82	91	89	64	76	108	118	172	156	120
Howard	34	30	29	39	38	18	17	38	56	76	72	74
Humboldt	30	28	39	40	60	26	32	57	82	77	44	53
Ida	9	1	0	3	1	0	4	10	17	4	7	6
Iowa	36	25	26	26	21	12	15	48	81	68	49	60
Jackson	181	167	132	168	155	202	312	414	561	469	419	286
Jasper	197	112	85	77	109	96	122	184	227	214	268	282
Jefferson	214	169	141	119	113	99	110	125	164	157	161	113
Johnson	195	118	94	90	85	58	79	124	141	116	84	86
Jones	94	74	76	68	66	58	77	99	172	162	160	155
Keokuk	87	73	86	95	104	89	100	150	184	151	120	89
Kossuth	74	52	60	52	58	52	43	67	72	63	57	44
Lee	420	314	267	271	227	227	307	399	473	532	544	381
Linn	870	622	649	712	597	552	933	1364	1633	1585	1494	1209
Louisa	134	86	82	107	91	91	79	120	171	186	212	125
Lucas	135	59	63	57	60	62	77	95	141	137	154	120
Lyon	6	5	3	0	0	8	19	42	37	41	37	47
Madison	45	32	46	26	19	37	23	61	79	91	94	78
Mahaska	124	130	191	178	163	107	115	180	234	204	193	209
Marion	192	156	125	130	106	113	180	251	324	219	234	211
Marshall	237	221	211	173	174	133	191	311	381	350	323	208
Mills	91	45	69	49	61	37	66	106	102	109	50	61
Mitchell	16	20	10	15	10	15	31	38	35	41	43	30

Table 6. Total Annual Unemployed-Parent AFDC Payments (in \$1,000) in Iowa Counties, 1983-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Monona	55	53	60	79	58	57	75	127	152	133	128	94
Monroe	83	76	62	53	47	72	124	151	196	158	119	104
Montgomery	103	70	55	40	35	31	46	58	91	104	48	40
Muscatine	506	379	349	393	432	395	493	607	674	544	468	292
O'Brien	38	30	44	16	7	7	18	58	77	55	55	38
Osceola	16	12	8	11	12	6	12	20	43	43	31	19
Page	167	147	116	118	73	105	123	161	211	162	129	126
Palo Alto	38	34	22	24	26	22	35	81	122	118	87	71
Plymouth	35	17	21	18	14	33	61	66	88	66	50	38
Pocahontas	30	38	22	22	39	29	13	43	68	50	53	27
Polk	1578	818	877	883	778	730	749	1101	1369	1310	1362	1300
Pottawattamie	576	413	412	359	249	178	175	229	321	297	294	318
Poweshiek	69	56	87	63	39	34	64	128	202	169	139	121
Ringgold	80	48	40	37	25	35	66	95	100	94	64	64
Sac	62	41	37	28	20	26	30	33	55	54	45	46
Scott	1330	982	823	915	1009	1037	1257	1780	1969	1915	1760	969
Shelby	67	28	39	34	43	16	25	39	64	50	43	30
Sioux	25	10	27	22	21	16	19	40	77	46	20	17
Story	309	150	140	144	74	63	90	155	157	160	119	97
Tama	70	54	61	75	49	34	42	91	141	134	122	91
Taylor	53	22	23	37	43	44	56	58	86	101	73	71
Union	101	71	81	91	57	65	92	124	174	184	154	114
Van Buren	34	41	33	38	48	47	67	79	103	134	117	94
Wapello	493	405	437	475	402	416	617	877	843	612	557	479
Warren	87	60	95	89	100	94	110	161	216	231	269	214
Washington	72	52	34	58	52	50	108	106	132	127	73	51
Wayne	65	40	40	30	37	54	71	92	113	103	106	76
Webster	400	318	266	262	259	224	206	434	527	425	415	273
Winnebago	33	27	25	18	21	21	34	49	66	44	24	48
Winneshiek	57	63	62	35	50	57	106	138	134	114	99	91
Woodbury	350	259	293	324	253	183	258	474	601	522	505	462
Worth	27	39	26	25	36	26	25	50	60	60	63	53
Wright	69	48	47	70	41	15	23	66	89	79	65	54
State of Iowa	16580	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	126	134	131	132	129	133	121	122	112	104	107	118	115	114	111
Adams	122	131	125	132	123	129	124	119	113	109	113	115	113	115	110
Allamakee	130	133	133	125	128	128	125	122	119	116	115	117	117	111	104
Appanoose	139	140	137	138	139	136	129	126	112	111	112	117	115	112	106
Audubon	121	126	124	126	122	123	122	131	120	111	113	115	111	108	112
Benton	132	136	136	136	132	132	129	128	117	115	119	125	122	117	112
Black Hawk	132	136	136	136	133	131	128	128	119	114	120	126	125	122	119
Boone	136	140	141	143	140	141	136	132	124	116	119	121	121	117	111
Bremer	129	135	138	138	138	133	125	125	114	113	117	122	123	124	116
Buchanan	126	133	135	135	136	133	127	129	120	112	114	114	117	118	110
Buena Vista	133	136	137	136	137	134	132	134	119	114	116	117	114	112	110
Butler	131	134	132	133	134	129	126	125	113	109	116	119	119	125	111
Calhoun	127	137	136	136	128	124	124	128	119	114	115	117	116	113	112
Carroll	129	133	133	133	133	132	126	129	116	114	114	118	115	106	104
Cass	126	128	132	139	134	129	127	126	122	117	119	117	113	112	112
Cedar	131	137	139	137	131	132	130	131	121	117	129	123	119	116	114
Cerro Gordo	135	140	139	139	136	132	130	132	121	116	119	124	123	118	115
Cherokee	132	134	127	128	130	128	126	124	112	105	111	120	117	110	108
Chickasaw	131	137	135	136	131	133	128	126	119	115	119	123	120	119	113
Clarke	132	133	130	137	132	126	122	124	122	113	117	119	114	112	112
Clay	134	140	135	140	134	134	132	136	121	114	118	123	120	117	115
Clayton	131	138	137	134	127	129	124	125	117	112	114	117	117	111	106
Clinton	137	141	142	140	139	134	130	130	121	117	120	121	119	116	113
Crawford	131	135	132	134	133	132	129	129	121	117	118	119	114	112	110
Dallas	138	144	142	139	136	134	128	128	118	112	116	118	117	111	113
Davis	129	138	135	140	132	134	127	124	115	109	111	117	112	111	107
Decatur	128	136	140	141	138	133	124	128	120	115	118	115	113	111	112
Delaware	121	126	130	129	127	125	120	123	117	111	110	116	118	110	108
Des Moines	134	137	138	137	133	130	127	127	116	111	117	118	116	112	111
Dickinson	135	133	141	140	140	131	124	132	121	108	115	117	112	112	111
Dubuque	131	136	136	136	136	136	135	134	118	114	117	119	117	114	113
Emmet	136	135	134	128	130	126	122	128	117	110	112	116	117	113	109
Fayette	130	134	134	134	130	129	128	125	118	113	113	115	114	113	111
Floyd	129	135	136	137	135	130	129	128	117	114	115	118	117	113	112
Franklin	127	133	139	139	133	132	133	134	119	119	120	121	114	109	107
Fremont	124	132	130	132	129	128	124	125	115	112	113	111	112	108	110
Greene	130	131	134	136	133	131	123	124	114	109	116	118	117	112	110
Grundy	134	135	139	141	138	133	127	129	112	109	116	115	122	121	111
Guthrie	126	133	134	134	129	128	119	121	112	110	112	109	106	105	103
Hamilton	136	138	140	140	135	127	125	129	119	114	113	116	114	113	109
Hancock	127	134	134	135	138	136	130	129	117	111	116	113	116	103	103
Hardin	130	137	139	140	142	138	128	128	118	119	125	122	117	112	109
Harrison	125	129	131	128	132	124	125	123	116	109	113	113	114	112	107
Henry	127	134	136	134	132	127	129	134	117	111	119	121	116	115	111
Howard	121	132	131	134	130	131	129	128	116	109	116	114	110	106	105
Humboldt	113	126	130	136	138	129	127	131	120	113	117	117	115	113	113
Ida	127	135	130	126	128	123	123	121	115	112	117	115	109	108	103
Iowa	120	132	142	141	138	135	131	129	119	116	119	121	112	113	114
Jackson	134	138	140	139	138	134	131	131	117	114	117	120	117	114	113
Jasper	135	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, 1980-1994  
(continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	133	137	143	141	136	136	128	128	113	110	117	122	120	118	117
Johnson	132	137	140	150	137	139	137	142	121	119	125	131	133	130	124
Jones	129	133	136	137	132	130	126	129	122	118	121	129	122	118	114
Keokuk	130	135	142	140	132	126	120	119	114	110	108	117	118	113	114
Kossuth	128	133	131	137	134	132	127	128	113	105	105	111	110	111	110
Lee	130	134	135	135	134	130	127	128	119	114	115	116	115	114	112
Linn	132	137	139	139	136	135	133	133	120	115	121	125	121	120	116
Louisa	133	134	135	134	134	130	127	129	116	112	113	115	114	111	110
Lucas	134	137	140	138	140	132	124	120	114	110	109	114	112	105	106
Lyon	127	127	119	121	115	123	127	124	111	109	109	113	107	113	108
Madison	126	138	141	140	136	131	126	128	115	114	114	114	110	114	115
Mahaska	137	141	144	138	136	135	128	131	118	113	118	123	121	117	113
Marion	132	136	136	138	137	133	134	131	121	114	119	118	117	107	113
Marshall	130	136	139	137	137	134	132	133	114	110	121	128	121	117	116
Mills	124	133	134	133	131	127	123	122	115	108	112	115	114	104	110
Mitchell	135	139	141	135	138	139	134	133	130	120	125	116	110	112	113
Monona	130	133	134	136	135	124	123	126	120	111	114	115	115	112	112
Monroe	127	134	134	135	130	127	126	124	122	114	114	114	114	111	110
Montgomery	132	141	140	141	137	131	130	132	124	116	118	118	114	114	107
Muscatine	134	136	135	135	134	130	127	129	122	116	120	121	119	115	116
O'Brien	125	132	132	135	132	130	121	124	110	110	115	120	116	108	109
Osceola	122	128	134	127	120	119	114	114	111	106	121	113	109	111	108
Page	126	133	133	134	129	129	127	125	117	114	116	118	115	110	110
Palo Alto	128	129	125	128	131	125	117	125	110	110	112	112	109	112	108
Plymouth	129	141	139	139	132	131	123	128	114	117	120	117	116	110	108
Pocahontas	124	133	137	133	136	126	122	125	121	115	109	111	105	101	102
Polk	135	139	140	140	137	133	129	130	119	115	118	120	119	115	112
Pottawattamie	130	134	135	135	133	130	126	126	119	112	116	118	116	114	113
Poweshiek	132	139	138	136	134	127	123	127	121	113	121	121	119	117	110
Ringgold	130	139	146	140	138	134	131	132	124	115	114	115	113	102	107
Sac	131	136	134	135	130	128	131	133	120	114	118	124	119	112	113
Scott	134	138	137	137	135	132	129	129	116	113	117	121	119	115	113
Shelby	134	132	135	134	129	127	115	122	113	106	111	113	115	109	112
Sioux	123	139	135	132	124	126	118	118	111	106	112	112	109	110	108
Story	139	143	143	143	141	142	138	136	127	121	126	121	120	118	115
Tama	130	135	136	134	134	130	129	129	122	117	113	117	115	115	115
Taylor	130	139	134	132	129	127	123	125	116	112	118	112	107	103	107
Union	132	139	138	136	130	133	130	124	118	113	121	122	120	115	114
Van Buren	133	134	137	134	131	132	127	130	119	115	118	122	119	112	111
Wapello	133	140	140	141	135	133	129	128	117	112	114	119	120	117	115
Warren	134	144	143	140	139	138	135	130	119	112	118	124	120	120	115
Washington	130	134	135	134	127	125	120	126	117	112	111	117	121	122	116
Wayne	122	129	128	130	132	124	119	123	116	111	116	116	112	114	113
Webster	130	136	137	136	134	130	126	127	115	111	114	116	114	112	108
Winnebago	127	134	137	131	132	126	124	129	108	103	114	119	118	113	113
Winneshiek	137	132	131	131	134	129	130	129	108	103	105	113	116	109	116
Woodbury	129	134	134	134	131	129	127	129	116	111	116	119	119	116	115
Worth	134	140	144	132	134	123	125	133	117	111	113	115	118	108	109
Wright	127	124	131	136	134	130	129	123	118	115	114	117	113	111	111
State of Iowa	132	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, 1983-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	82	99	91	92	103	66	81	101	86	87	90	119
Adams	98	99	100	97	111	111	91	94	87	86	94	103
Allamakee	99	97	88	102	111	112	110	111	91	91	88	99
Appanoose	93	102	106	108	103	99	98	104	89	87	94	103
Audubon	80	105	93	88	103	115	91	91	79	87	86	103
Benton	91	101	94	97	101	90	96	104	86	77	94	108
Black Hawk	95	102	101	106	102	102	100	101	90	84	94	120
Boone	96	105	108	102	104	104	98	99	91	87	98	106
Bremer	88	97	111	101	106	102	103	100	90	80	86	99
Buchanan	85	101	104	101	105	98	97	98	92	85	94	93
Buena Vista	97	107	107	112	107	98	92	99	82	83	96	116
Butler	95	110	111	102	113	106	97	100	89	90	93	94
Calhoun	77	94	109	107	101	95	97	94	84	86	89	91
Carroll	84	89	99	114	92	89	112	113	85	86	95	104
Cass	74	82	96	103	101	88	91	95	97	92	101	110
Cedar	73	102	109	109	104	104	93	107	98	89	97	93
Cerro Gordo	94	101	101	106	101	103	97	101	91	88	101	98
Cherokee	102	110	110	116	104	97	115	104	81	79	77	107
Chickasaw	93	98	99	101	102	88	93	102	88	85	89	106
Clarke	103	105	101	103	91	106	99	100	96	91	99	110
Clay	91	99	107	113	115	122	97	101	90	90	97	104
Clayton	92	100	111	115	108	106	104	105	88	90	94	108
Clinton	92	105	107	108	100	102	96	98	91	87	95	97
Crawford	85	120	114	114	101	107	107	112	91	92	102	102
Dallas	96	115	114	114	112	105	99	98	94	90	100	105
Davis	93	112	116	112	108	106	100	104	91	94	95	99
Decatur	90	101	109	110	110	112	109	103	101	93	93	99
Delaware	87	98	98	91	96	88	96	99	92	88	89	96
Des Moines	96	103	104	100	102	99	96	102	88	81	95	99
Dickinson	106	110	109	102	92	87	91	88	82	70	80	98
Dubuque	86	97	98	100	100	99	94	97	89	85	89	95
Emmet	89	99	102	96	95	102	94	102	76	72	91	85
Fayette	90	104	107	110	99	105	104	105	89	83	90	103
Floyd	92	102	105	104	111	97	92	94	86	79	84	91
Franklin	80	86	98	105	97	102	108	102	96	85	92	103
Fremont	72	98	96	101	97	99	98	101	101	92	91	100
Greene	89	106	96	109	97	106	99	99	88	88	93	86
Grundy	94	101	94	94	114	107	100	99	89	96	93	105
Guthrie	89	96	106	109	102	106	102	99	86	82	88	88
Hamilton	89	100	97	99	99	95	98	103	90	86	90	93
Hancock	89	101	97	99	108	85	92	90	92	82	89	103
Hardin	90	109	105	98	96	96	92	100	88	92	91	97
Harrison	76	90	101	93	104	106	106	99	87	77	88	96
Henry	88	98	95	96	105	93	101	100	90	82	98	104
Howard	89	96	96	98	117	105	96	103	76	75	86	91
Humboldt	83	104	111	110	101	90	106	96	91	91	94	92
Ida	62	62	. <sup>a</sup>	117	108	.	90	92	79	84	85	86
Iowa	83	110	102	100	102	100	99	100	77	87	99	113
Jackson	92	103	97	103	106	99	97	99	94	87	92	99
Jasper	96	102	107	112	98	106	97	98	89	87	98	101

<sup>a</sup>No payments of this type were provided this year.

Table 8. Average Monthly Unemployed-Parent AFDC Payments Per Person (in \$) in Iowa Counties, 1983-1994  
(continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Jefferson	93	103	105	108	103	105	99	104	88	84	91	95
Johnson	94	103	108	103	98	99	97	108	72	70	96	98
Jones	80	103	102	100	105	100	100	105	93	82	99	121
Keokuk	90	94	93	95	107	104	98	98	88	88	96	108
Kossuth	73	82	99	89	89	94	97	96	76	75	85	89
Lee	88	105	105	108	105	102	100	102	88	86	94	99
Linn	87	99	98	101	100	101	99	103	88	88	99	114
Louisa	100	106	103	110	110	100	103	103	88	87	96	105
Lucas	94	97	103	92	100	98	97	97	91	85	95	107
Lyon	101	104	124	.	.	91	89	102	88	75	84	90
Madison	79	107	109	93	92	103	81	90	85	90	97	91
Mahaska	90	108	112	112	106	110	105	116	89	84	101	110
Marion	94	108	109	110	111	108	101	102	92	87	99	99
Marshall	86	105	109	102	107	106	101	100	83	81	99	111
Mills	85	92	103	97	108	97	93	99	91	86	87	96
Mitchell	119	110	103	123	96	110	95	119	90	95	91	96
Monona	88	110	102	103	104	101	94	100	98	96	87	94
Monroe	91	105	105	104	102	103	103	105	96	90	97	102
Montgomery	81	94	118	120	103	112	93	90	91	84	95	114
Muscatine	89	99	104	103	105	102	102	98	94	88	96	104
O'Brien	76	85	92	104	116	78	90	101	95	88	98	102
Osceola	105	99	113	115	113	89	75	84	86	87	84	101
Page	83	102	97	110	95	102	103	100	90	83	82	93
Palo Alto	81	113	109	99	91	100	104	103	81	80	94	98
Plymouth	84	95	111	117	85	107	96	95	86	77	90	96
Pocahontas	87	102	104	106	94	97	84	101	90	81	96	95
Polk	93	104	105	109	105	102	99	103	92	86	93	97
Pottawattamie	89	101	104	105	101	99	95	99	92	83	89	98
Poweshiek	92	106	105	102	95	80	91	97	81	82	95	103
Ringgold	99	114	115	114	109	97	107	114	93	88	103	105
Sac	83	97	100	100	113	103	100	104	87	85	84	99
Scott	92	103	103	106	103	102	100	102	92	87	93	102
Shelby	100	103	102	106	104	99	88	93	87	82	94	104
Sioux	105	100	103	120	105	66	56	67	83	76	88	111
Story	85	101	109	106	103	118	134	119	105	94	103	107
Tama	84	99	103	101	107	105	113	108	92	85	93	96
Taylor	90	89	105	105	89	102	104	100	89	86	109	108
Union	78	96	107	111	105	97	111	103	87	86	102	112
Van Buren	82	108	115	109	106	98	98	92	88	84	94	106
Wapello	95	104	102	105	106	104	100	103	89	87	95	104
Warren	81	98	107	100	101	105	97	100	92	84	98	106
Washington	75	99	104	99	110	105	104	108	88	96	100	93
Wayne	92	96	100	96	97	109	109	106	93	88	95	99
Webster	92	99	101	97	100	98	95	99	90	83	92	102
Winnebago	97	123	121	91	98	97	100	113	85	72	92	92
Winneshiek	78	96	102	109	100	101	101	101	88	81	88	97
Woodbury	84	102	103	101	99	98	98	102	79	82	96	101
Worth	87	113	113	92	100	79	84	112	91	86	102	113
Wright	79	105	99	101	114	95	95	95	94	94	96	108
State of Iowa	90	102	103	104	103	101	99	101	89	85	94	102



was higher than 9 of the other 14 years examined and represented an increase of 1,883 from 1993 but a decrease of 2,672 from 1984. More than 100,000 persons were in the program each month, on average, in both 1985 and 1986 (Figure 1).

Polk county averaged 15,616 AFDC recipients monthly in the regular program in 1994, 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 39.9 percent of Iowa's average monthly regular AFDC recipients. Sixty-five of Iowa's counties had fewer than 500 recipients in 1994, although none was below 100.

Increases in the number of recipients occurred in 69 counties between 1993 and 1994. Gains were less than 50 in most (57) of these counties; they exceeded 100 in Black Hawk, Johnson, Linn, Mills, Polk, and Scott. Declines from 1993 to 1994 in the number of recipients took place in 30 counties; 27 of these counties had decreases of less than 50. Only Woodbury declined by more than 75 persons.

Iowa had 2,672 fewer persons receiving regular AFDC each month, on average, in 1994 than in 1984. The majority (57) of Iowa's counties followed this trend. Black Hawk (-967), Dubuque (-909), Linn (-905), and Woodbury (-1,029) dropped by at least 350, although most (41) lost fewer than 100 recipients. Of the 42 counties with more recipients in 1994 than in 1984, Johnson (+369), Polk (+822) and Scott (+1,124) gained at least 350; the increase was less than 100 in 31 other counties. Changes of less than 100 persons in either direction occurred in the majority (72) of Iowa's counties when 1984 and 1994 were compared.

#### **Unemployed-Parent AFDC Cases and Recipients**

Iowa averaged 3,741 unemployed-parent AFDC cases each month in 1994 (Table 3). The 1994 average was less than that from 1984 through 1986, when Iowa had more than 4,500 such cases. Twenty-one of the counties averaged fewer than 10 unemployed-parent cases each month in 1994. Sixty-nine counties had from 10 to 99 unemployed-parent cases. The highest monthly averages were in four counties (Black Hawk, Linn, Polk, Scott) with more than 175 each; Polk's total of 332 was the highest.

Unemployed-parent cases increased, on average, by 1,407 between 1993 and 1994 in the state. The majority (59) of the counties reported increases or decreases of nine or fewer cases or no change from one year to the next. Clinton, Linn, Polk, Pottawattamie, and Scott increased by more than 50 cases.

Iowa's unemployed-parent case average was lower by 846 in 1994 than it was in 1984. Sixty counties also had declines when comparing these years. Black Hawk, Dubuque, and Linn had decreases of 100 or more cases. Three counties remained the same; the remaining 36 had increases over the period, although only Pottawattamie and Story reported at least 50 more cases in 1994 than in 1984.

The average monthly number of AFDC recipients in the unemployed-parent program was 15,382 in 1994, a figure 5,787 higher than in 1993 (Table 4, Figure 2). The 1994 total was substantially greater than those from 1988 through 1993, although it was below those for earlier years. Polk had the highest monthly average (1,419) of unemployed-parent recipients in 1994; Black Hawk, Linn, Pottawattamie, and Scott also were greater than 500. Thirty-four other counties averaged at least 100 recipients. The counties with the lowest average of unemployed-parent recipients were Ida, Lyon, Mitchell, and Osceola.

The number of recipients of unemployed-parent AFDC benefits increased between 1993 and 1994. Twelve counties reported changes in either direction of fewer than 10 recipients or had the same number in 1993 and 1994. Gains in Linn, Polk, and Scott exceeded 300. Iowa averaged 3,968 fewer persons per month receiving unemployed-parent AFDC benefits in 1994 than in 1984. Nearly two-thirds (63) of the counties followed the downward state trend. Decreases greater than 300 occurred in Black Hawk, Clinton, Dubuque, Linn, and Scott. Of the 36 counties with more unemployed-parent recipients in 1994 than in 1984, only Johnson, Polk, Pottawattamie, and Story increased by at least 100.

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 1994 for the regular AFDC program exceeded \$150 million, which was about 2 million less than the 1993 total (Table 5, Figure 3). Benefits increased in 7 of the 14 year-to-year comparisons. County totals in 1994 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 \$25.2 million, was nearly \$10 million above the second highest total (Scott, \$15.6 million). Fifty-three counties reported lower benefits paid to participants in the regular program in 1994 than in 1993 as did the state. Total benefits increased in 46 counties. Changes in either direction between the two years were less than \$100,000 in most instances.

Although Iowa's total payments to regular recipients increased by nearly \$13 million between 1984 and 1994, 34 of the counties had lower benefits paid at the end of the period. The change in Dubuque county, a decrease of \$944,000, was somewhat greater than the next largest decline (Woodbury, -\$736,000). Of the counties with higher benefits paid in 1994, Polk, Pottawattamie, and Scott increased payments by more than \$1 million.

The counties with the largest dollar increases were not those with the largest percentage gains, however. Adams (+87.6%), Mills (+51.7%), and Winnebago (+50.2%) reported that benefits increased by at least 50 percent between 1984 and 1994. The statewide percentage increase during the 10 years was 9.6, far below the rate of inflation (+41.0%). Percentage increases in total payments for regular AFDC are substantially lower than those for two other programs; food stamp benefits increased 40.6 percent during this period while Title XIX (Medicaid) payments jumped 229.5 percent.

Unemployed-parent program benefits totaled \$16.6 million in 1994 (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 were half or less of those reported in 1985 and 1986. The increase from 1993 to 1994 reflects the larger caseload in the latter year.

Four counties provided less than \$20,000 in unemployed-parent benefits in 1994, with Ida (\$9,000) and Lyon (\$8,000) reporting the lowest figures. The highest benefits were recorded in Scott (\$1.3 million) and Polk (\$1.5 million), which were the only two greater than \$1 million. Nearly all (92 of 99) counties distributed more unemployed-parent benefits in 1994 than in 1993.

Total costs for the unemployed-parent program in Iowa were \$5.2 million lower in 1994 than in 1984. A majority of counties (67) also reported lower benefits at the end of the period; among these, Black Hawk (-\$1.2 million), Dubuque (-\$742,000), and Linn (-\$623,000) had decreases greater than a half million dollars. For counties with higher payments in 1994 than in 1984, the increases were not of this magnitude; Pottawattamie's gain (+\$282,000) was highest.

### **Average Monthly Payments Per Person**

The average per person benefit per month for the regular program was \$132 in 1994 (Table 7). This was the same as the 1989 figure and within \$5 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 \$26 difference between the lowest (\$113 in Humboldt) and the highest (\$139 in Appanoose and Story) monthly per person benefits in 1994. For all the years from 1980 through 1994, less than \$30 separated the lowest and highest county in per person monthly payments for the regular program.

Changes between 1993 and 1994 in the regular program benefits were small in most counties; a \$16 drop in Sioux county was the largest change in either direction. Modest change also is noted when

1984 and 1994 are compared. Iowa averaged \$15 more per person in the regular program in the later year and increases were recorded for all counties except one (Humboldt). Only three counties (Appanoose, Lucas, Winneshiek) gained at least \$25 across the period.

The state's average per person increase of 12.8 percent between 1984 and 1994 did not keep pace with inflation as measured by a 41.0 percent rise in the consumer price index for the same years. Indeed, benefit increases were less than 10 percent in 27 counties, and the greatest gain (Winneshiek, +30.5%) still was well below the rate of inflation. The small percentage change in per person benefits for the regular AFDC program from 1984 to 1994 contrasts sharply with percentage increases for average monthly benefits per person in both the food stamp (+46.9%) and Medicaid (+61.5%) programs. While the last two programs had gains above the rate of inflation (+41.0%), the 12.8 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 \$90 in 1994 (Table 8). This was \$12 lower than 1993; only the figures for 1985 and 1986 were under the 1994 average (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 for the regular program, frequently by \$20 or more per month.

In 1994, county-level average benefits per person in the unemployed-parent program ranged from \$62 (Ida) to \$119 (Mitchell). For any given year, there was more variation among the counties in the unemployed-parent payments than in those for the regular program.

The 1994 average benefits for persons in the unemployed-parent program was \$4 less than that in 1984 for the state, and 67 counties had lower average payments in 1994 than 10 years earlier. Three counties (Cherokee, Dickinson, Mitchell) gained at least \$25 across the 10 years, while two others (Cass, Washington) dropped by at least that amount.

Figure 1. Average number of persons receiving regular AFDC per month in Iowa, 1980-1994.

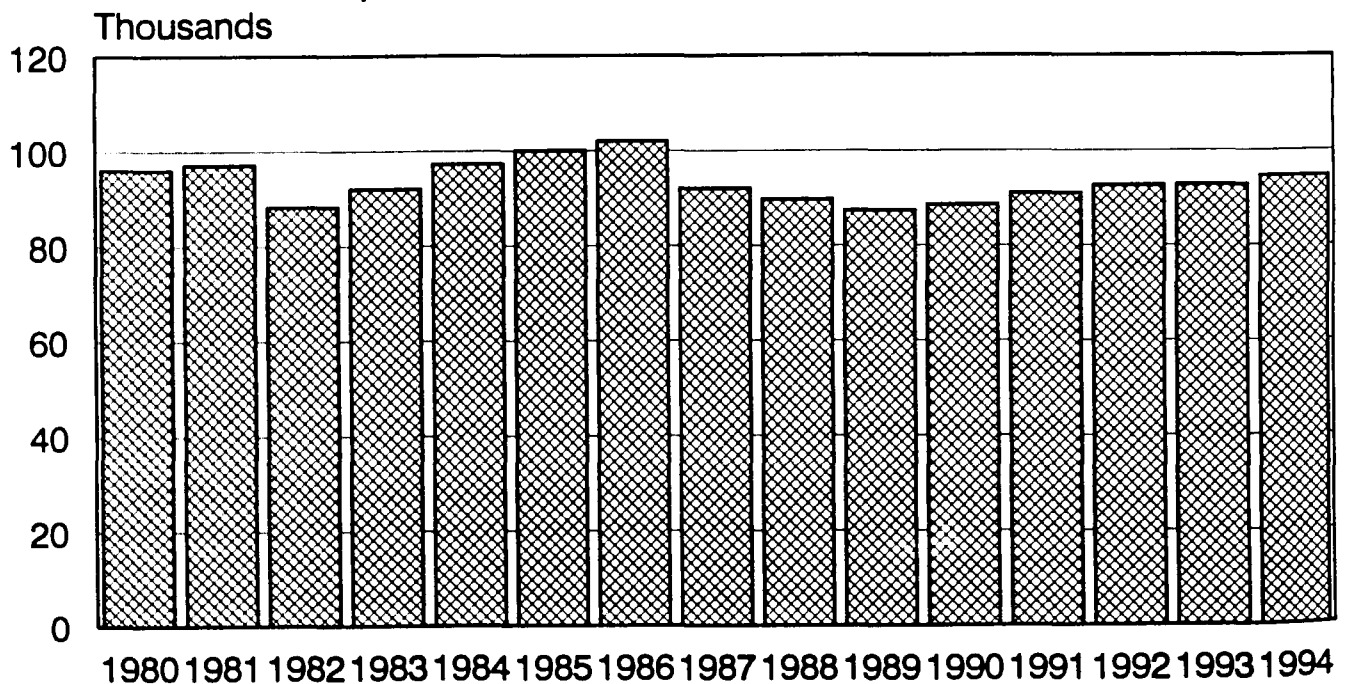


Figure 2. Average number of persons receiving unemployed-parent AFDC per month in Iowa, 1983-1994.

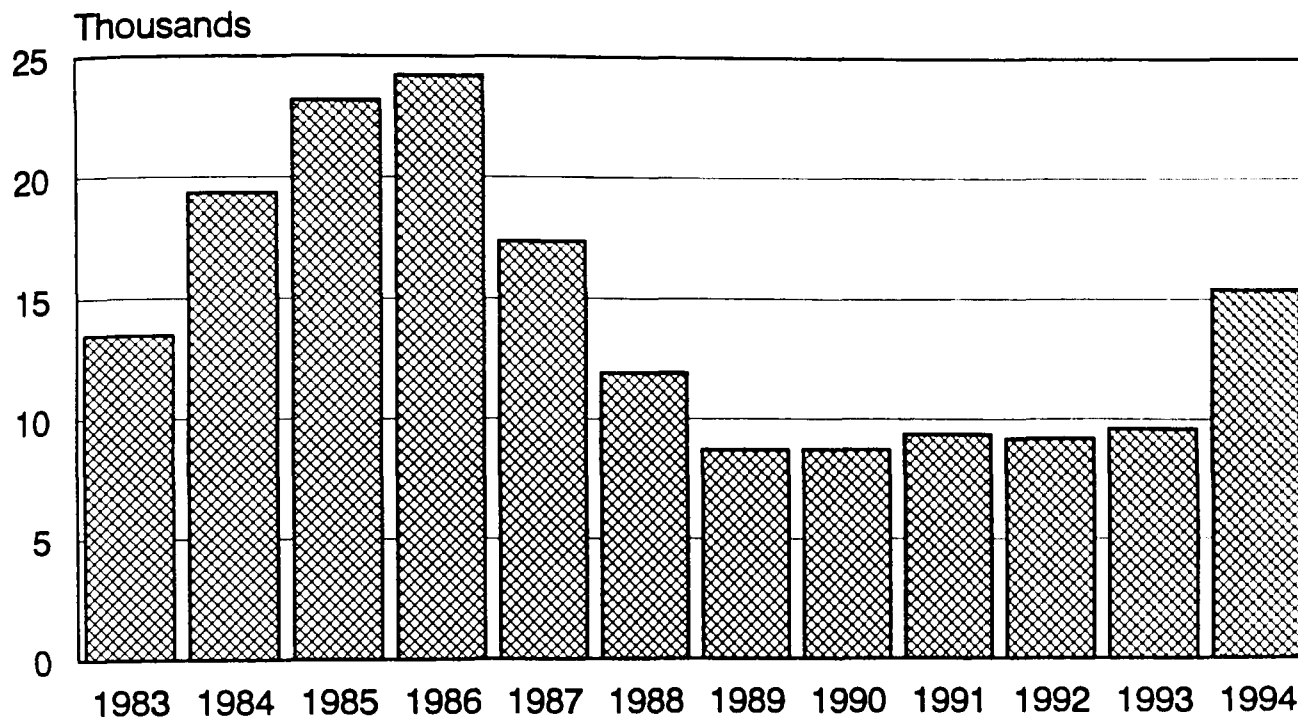


Figure 3. Total annual payments to persons receiving regular AFDC in Iowa, 1980-1994.

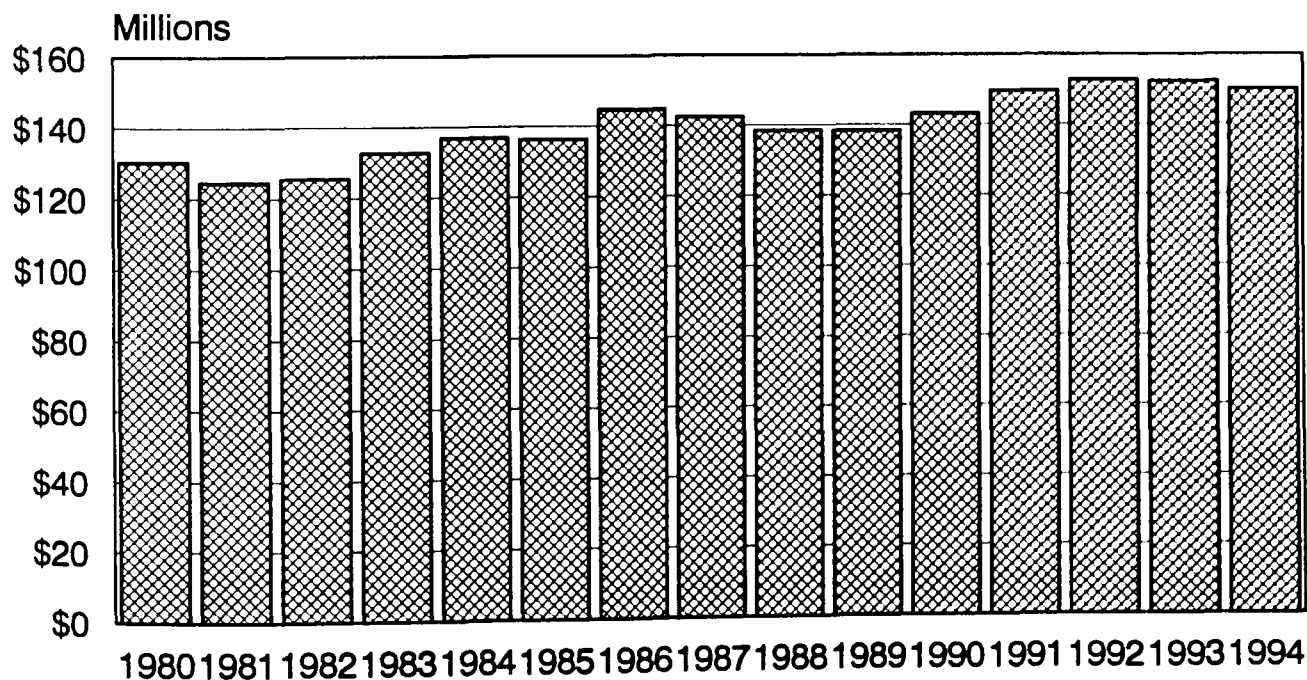


Figure 4. Total annual payments to persons receiving unemployed-parent AFDC in Iowa, 1983-1994.

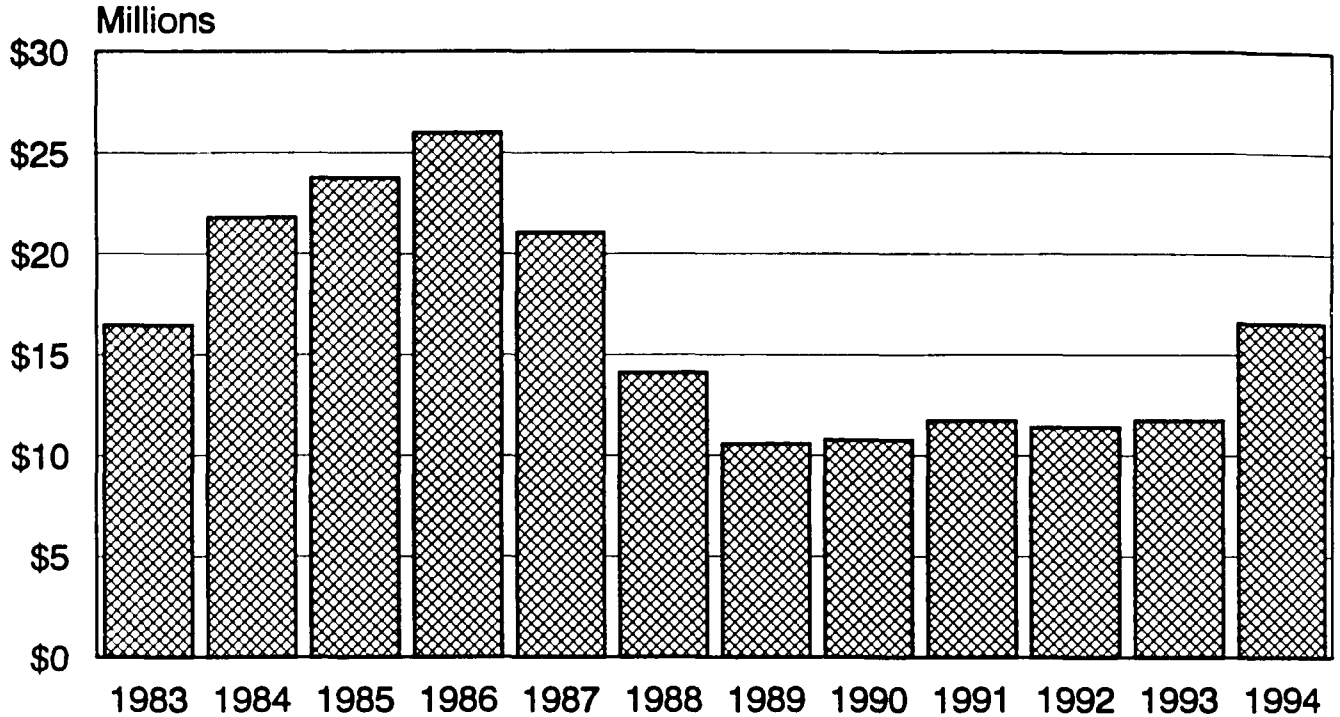
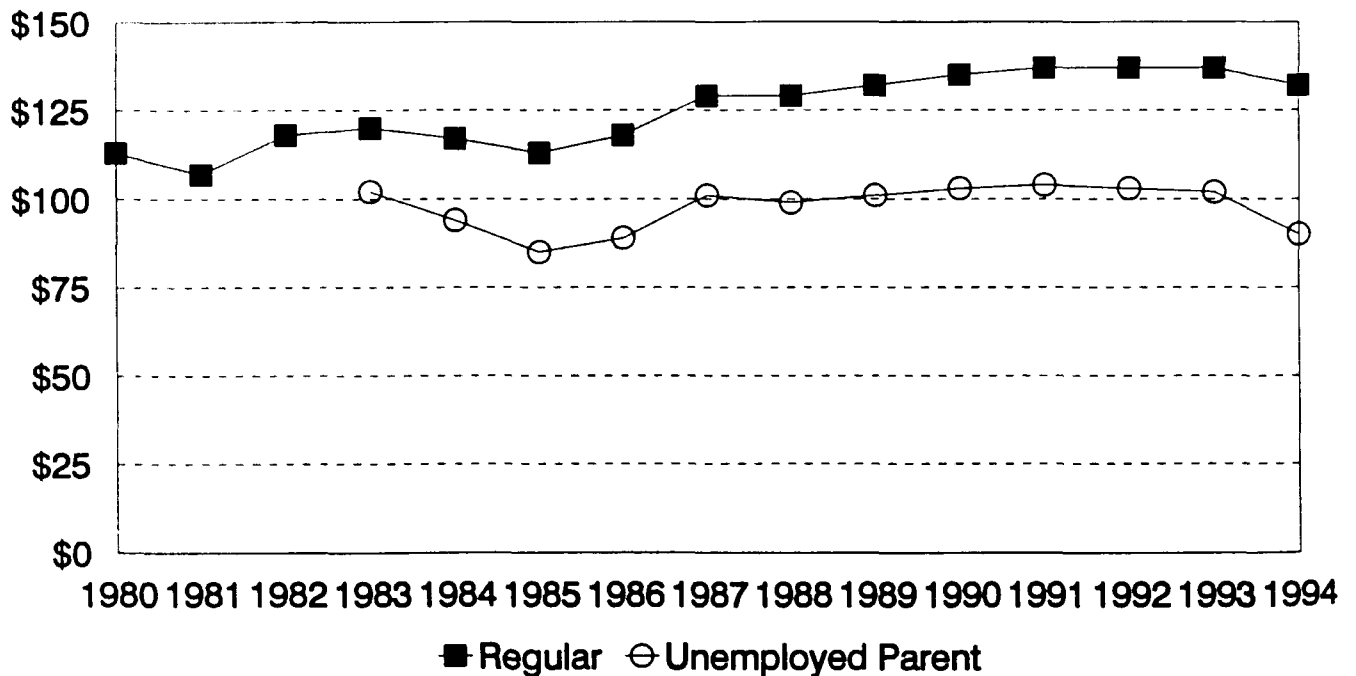


Figure 5. Average monthly AFDC payments (in \$) per recipient, 1980-1994.



## Children in Foster Care in Iowa's Counties: 1982-1994

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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 foster care 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; the 1994 average of 3,573 per month was 105 higher than the 1993 average (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.

Six counties (Black Hawk, Dubuque, Linn, Polk, Scott, Woodbury) averaged at least 100 children in foster care in 1994; these six accounted for nearly half (47.3%) the total that year. Twenty-five counties reported fewer than 10 under such care in 1994; 61 counties averaged 10 to 49 children in foster care, while 7 reported 50 to 99 children in this type of care in 1994. Seven counties (Adams, Calhoun, Grundy, Lyon, Osceola, Ringgold, Taylor) had fewer than 10 in foster care in any of the years examined.

When averages for 1984 and 1994 are compared, 64 counties had more children in foster care at the end of the period than at the beginning. Black Hawk, Polk, and Woodbury had the only increases greater than 50. Sixteen counties noted increases of 10 to 50 foster care children. Declines in the average number in foster care occurred in 31 counties, although only 6 were 20 or greater (Kossuth, Linn, Marshall, Pottawattamie, Story, Webster). Four counties (Adair, Carroll, Palo Alto, Wapello) had the same average number in foster care in 1984 and 1994.

Table 1. Average Monthly Number of Children in Foster Care in Iowa Counties, 1982-1994.

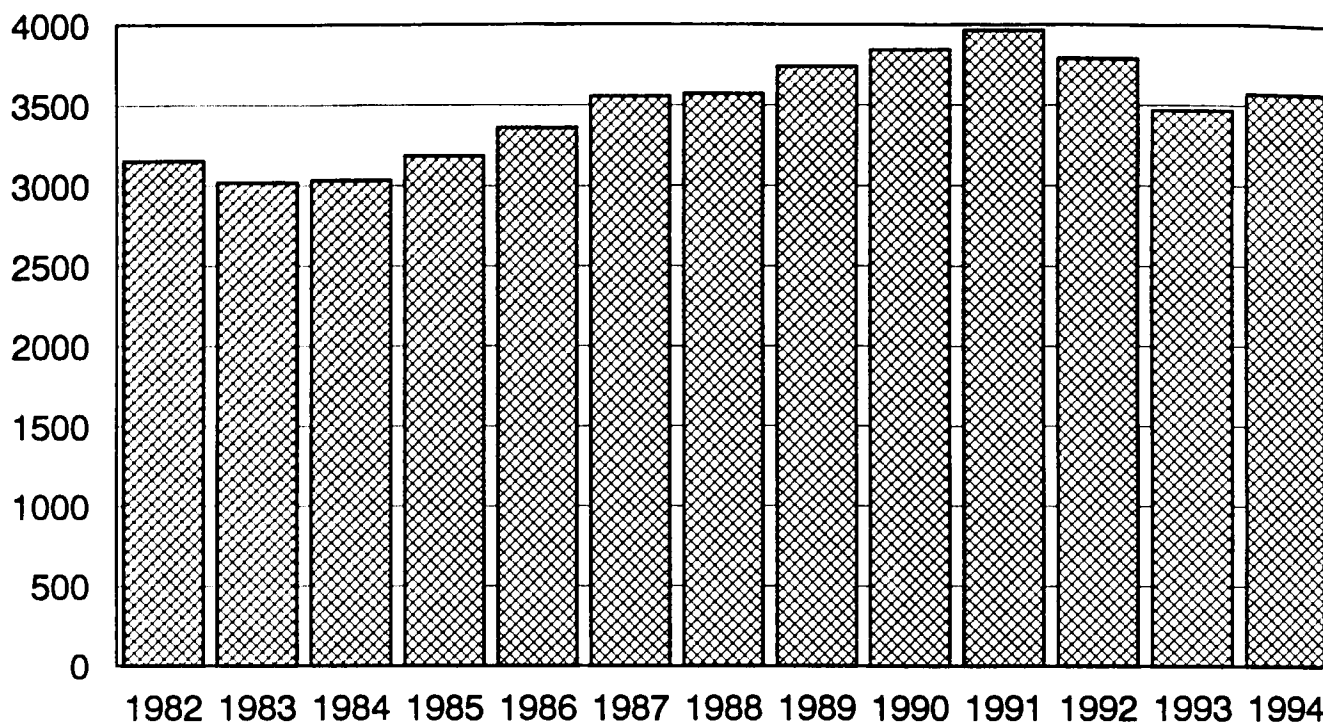
County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	4	0	1	2	5	6	6	11	9	3	4	4	4
Adams	3	3	3	1	3	2	2	1	0	1	1	2	1
Allamakee	9	14	20	14	11	9	9	4	4	4	8	8	9
Appanoose	37	34	29	28	24	22	21	19	14	14	12	11	14
Audubon	8	6	8	7	11	11	12	7	5	7	12	15	12
Benton	31	28	33	33	26	23	18	18	16	13	12	11	16
Black Hawk	246	211	243	246	236	237	217	201	181	184	177	182	208
Boone	24	21	26	35	41	42	31	31	25	24	20	20	19
Bremer	12	17	13	12	15	15	15	9	7	6	4	7	6
Buchanan	27	28	21	17	16	16	17	23	12	10	8	9	9
Buena Vista	21	19	26	34	36	34	28	25	19	21	14	11	18
Butler	9	10	11	11	12	10	10	13	9	8	11	14	10
Calhoun	8	6	4	3	4	5	2	2	3	4	5	6	8
Carroll	18	16	15	21	26	27	29	23	27	21	18	17	16
Cass	13	18	21	20	19	13	13	17	18	23	17	9	10
Cedar	17	20	19	15	15	10	14	11	8	13	10	10	10
Cerro Gordo	63	67	76	76	70	75	88	87	84	83	81	87	85
Cherokee	20	19	17	19	19	22	16	15	17	14	21	18	18
Chickasaw	7	5	11	11	9	9	10	11	11	9	9	9	9
Clarke	6	9	11	11	8	12	10	7	8	8	4	10	10
Clay	25	25	22	25	24	19	14	15	21	30	24	26	23
Clayton	11	15	14	16	9	9	8	7	6	6	7	8	10
Clinton	57	54	59	67	62	60	59	59	56	48	49	56	58
Crawford	17	16	25	27	18	18	17	20	19	14	12	15	18
Dallas	31	34	32	29	23	17	22	20	12	15	18	19	15
Davis	10	6	6	3	5	5	5	4	5	5	3	3	2
Decatur	12	16	10	12	11	10	8	7	5	7	9	11	9
Delaware	26	28	24	26	27	29	19	19	19	29	23	14	21
Des Moines	49	49	54	56	71	76	60	69	78	65	54	49	55
Dickinson	12	13	19	23	19	14	11	18	19	15	15	16	13
Dubuque	106	108	131	146	121	109	100	100	90	98	101	108	107
Emmet	22	25	22	19	18	16	14	17	16	16	13	12	15
Fayette	23	15	12	14	15	12	15	14	11	11	11	15	19
Floyd	28	36	27	26	24	20	20	20	23	18	15	19	16
Franklin	5	8	7	12	11	7	6	6	12	9	9	10	10
Fremont	13	11	4	2	8	5	4	6	6	6	7	7	8
Greene	13	4	8	12	6	9	13	13	16	12	10	12	18
Grundy	1	4	9	5	8	7	4	2	2	3	3	4	9
Guthrie	12	13	12	8	7	7	4	7	10	9	6	5	7
Hamilton	19	28	30	20	14	17	18	21	17	13	20	19	18
Hancock	6	2	8	9	7	6	6	6	4	4	5	9	15
Hardin	24	21	27	24	24	26	22	29	32	31	31	34	34
Harrison	11	11	16	21	26	28	28	22	19	19	19	18	18
Henry	11	17	17	19	26	26	21	24	24	21	27	14	15
Howard	3	4	3	3	1	2	3	7	7	6	5	8	10
Humboldt	10	8	7	8	14	13	10	11	14	20	24	20	18
Ida	9	8	5	8	10	8	2	6	5	6	5	4	3
Iowa	20	14	12	14	16	18	17	15	13	10	8	5	4
Jackson	24	16	18	19	19	20	15	12	10	16	22	19	25
Jasper	38	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, 1982-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	19	22	20	17	18	15	19	18	18	12	17	17	12
Johnson	81	83	91	87	85	78	77	79	72	77	66	62	56
Jones	16	13	21	15	16	16	19	15	12	11	10	12	10
Keokuk	11	13	16	12	12	20	14	16	14	11	12	10	10
Kossuth	8	8	15	14	15	18	17	21	22	27	34	34	39
Lee	45	43	58	61	65	77	66	65	60	52	43	51	52
Linn	235	230	281	310	289	296	279	272	279	278	291	268	267
Louisa	12	11	20	20	14	9	6	8	9	11	9	10	9
Lucas	5	8	10	10	6	6	6	7	11	12	6	6	11
Lyon	9	4	4	8	6	6	5	5	5	2	2	2	8
Madison	12	9	9	6	6	12	10	7	6	3	2	2	3
Mahaska	44	65	69	58	51	40	40	37	32	26	24	14	21
Marion	25	31	29	27	32	37	35	30	29	19	16	19	16
Marshall	38	39	42	58	67	66	65	64	67	77	67	76	83
Mills	18	24	37	35	25	18	17	12	14	13	14	14	12
Mitchell	4	2	3	4	4	5	8	12	11	8	9	10	15
Monona	8	7	10	10	10	9	9	5	4	5	7	6	6
Monroe	14	18	20	13	11	10	7	8	8	6	6	5	4
Montgomery	14	13	15	21	21	20	14	13	8	9	9	7	11
Muscatine	70	60	51	46	49	51	48	52	44	35	30	39	37
O'Brien	20	15	11	9	14	12	9	9	5	10	10	11	11
Osceola	5	4	7	8	4	4	3	3	2	4	3	4	7
Page	25	24	28	34	20	20	25	29	27	21	18	22	29
Palo Alto	13	12	11	13	12	16	14	11	9	12	13	12	16
Plymouth	6	8	10	10	14	9	11	14	17	17	11	13	18
Pocahontas	4	6	6	9	10	12	10	7	7	6	10	11	12
Polk	490	423	469	483	476	476	491	477	445	383	336	299	315
Pottawattamie	89	115	106	111	107	136	149	154	158	158	160	145	128
Poweshiek	23	24	27	21	16	17	13	11	8	9	17	15	23
Ringgold	8	8	6	9	5	1	2	1	2	1	3	3	2
Sac	11	14	11	14	12	15	18	13	14	23	19	16	13
Scott	284	252	236	263	236	223	228	222	230	225	237	242	247
Shelby	11	10	9	4	5	6	7	8	8	9	10	19	14
Sioux	9	14	16	13	14	19	10	13	21	15	10	8	9
Story	32	50	56	57	49	47	54	70	77	66	60	53	56
Tama	26	24	28	27	31	36	25	12	12	14	12	20	24
Taylor	6	3	2	1	2	2	2	1	1	2	1	1	2
Union	13	16	19	26	32	26	17	17	16	13	10	10	12
Van Buren	11	9	7	8	7	5	5	6	5	11	10	8	6
Wapello	75	62	89	99	92	84	120	128	103	96	75	72	67
Warren	40	38	46	54	60	57	56	51	38	42	26	27	31
Washington	24	31	29	36	38	35	29	23	23	19	21	17	14
Wayne	10	8	10	6	6	4	2	3	5	2	3	5	3
Webster	58	50	70	74	83	68	62	62	61	75	81	78	76
Winnebago	10	9	13	11	13	12	9	8	11	13	9	11	10
Winneshiek	11	11	6	7	7	6	9	6	4	3	5	8	11
Woodbury	328	321	336	378	357	294	261	271	223	157	139	161	176
Worth	2	1	4	6	6	10	6	4	4	5	6	7	9
Wright	13	14	16	17	24	20	17	20	21	21	22	20	23
State of Iowa	3573	3468	3791	3966	3844	3740	3572	3555	3361	3185	3033	3019	3153



Figure 1. Average monthly number of children in foster care in Iowa, 1982-1994.



## Founded Child Abuse in Iowa's Counties:

### 1982-1994

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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 1994, 9,172 children were determined to be abused in Iowa, the highest of the years reported (Table 1, Figure 1). The gain of 900 between 1992 and 1993 was the largest since the increase of 1,565 between 1987 and 1988. Founded cases increased by 338 between 1993 and 1994.

Polk had 1,777 children with founded abuse in 1994, the highest number reported among the state's 99 counties. Six other counties (Black Hawk, Linn, Muscatine, Pottawattamie, Scott, Woodbury) had more than 300 children abused; these six counties plus Polk accounted for half (50.3%) of the cases of child abuse in 1994. Eleven counties had between 100 and 299 abused children, 18 counties ranged from 50 to 99, while 59 counties reported 10 to 49 children abused. For four counties (Adams, Davis, Osceola, Taylor), the number of abused children in 1994 was less than 10.

Fifty-four counties had more abused children in 1994 than in 1993. For some of these counties, the differences between the two years were small; in 24 of these 54, for example, the gains were less than 10. For Woodbury, however, the increase was greater than 100. Forty counties had fewer children with founded abuse in 1994 than in 1993. From one to nine fewer abused children were recorded for 19 counties. Declines exceeded 50 cases in Dubuque (-65), which dropped significantly more than Pottawattamie (-45), the county with the next greatest decrease. Five counties (Clay, Decatur, Emmet, Monroe, Washington) had the same number of children with founded abuse both years.

The number of children with founded abuse increased by 1,077 between 1989 and 1994. Fifty-seven counties followed the state trend of increase during this period. Forty counties reported fewer abused children in 1994 than in 1989. Forty-one of Iowa's counties changed by fewer than 10 cases in either direction between 1989 and 1994.

The number of cases in which abuse was found increased by 2,683 between 1984 and 1994. Three-quarters (74) of the counties also had gains. Polk increased by more than 600; Black Hawk, Muscatine, and Woodbury also had gains exceeding 200. Linn declined by 70 cases; drops of at least 50 occurred in Delaware, Lee, and Webster. A third of Iowa's counties changed by 10 or fewer cases when 1984 and 1994 were compared.

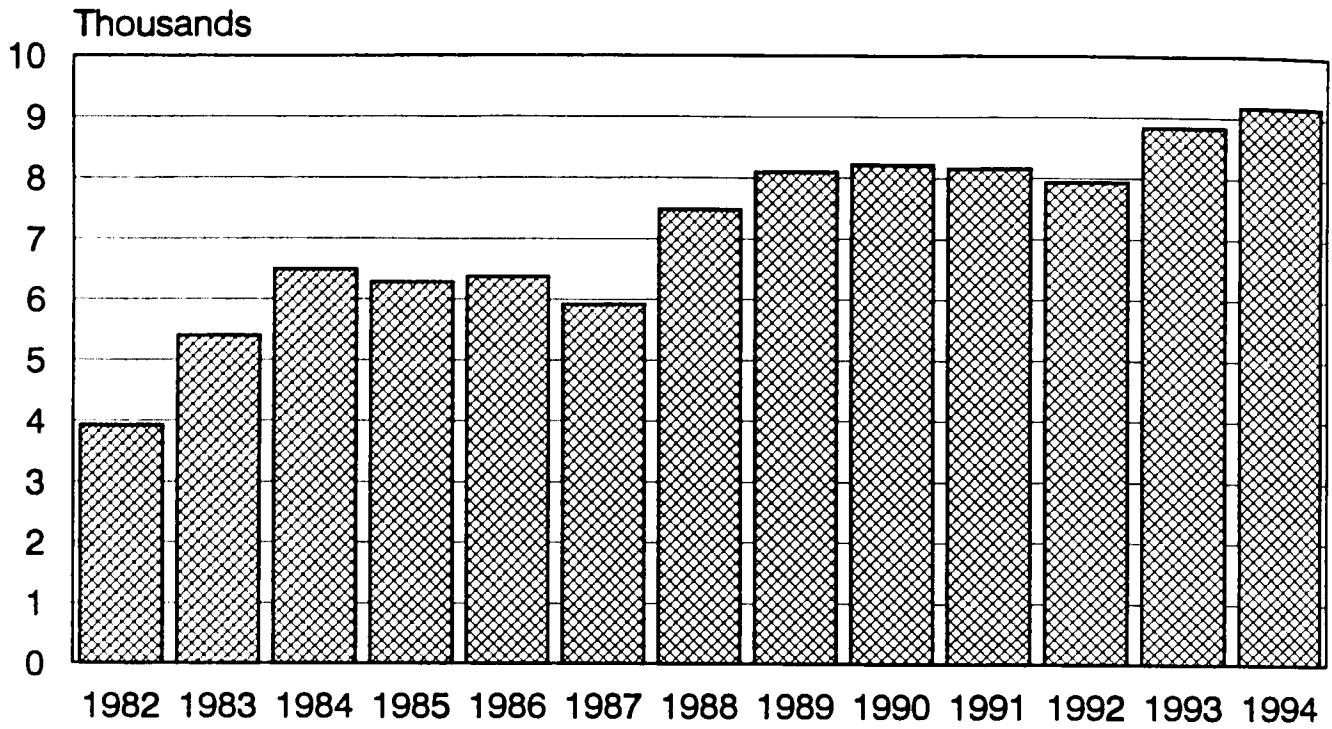
Table 1. Number of Children in Founded Cases of Child Abuse in Iowa Counties, 1982-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	30	13	16	14	22	12	3	10	13	20	14	12	12
Adams	6	13	13	13	8	3	11	4	6	6	5	7	4
Allamakee	16	25	31	35	46	37	20	17	26	16	13	19	16
Appanoose	20	44	38	24	16	24	18	15	25	8	35	42	56
Audubon	22	13	8	8	18	17	17	24	7	5	23	15	6
Benton	67	69	28	56	47	62	46	39	40	30	27	27	7
Black Hawk	661	608	497	472	459	471	482	368	437	324	307	296	226
Boone	90	59	79	113	109	168	113	46	39	65	107	56	22
Bremer	33	29	38	20	20	31	29	19	30	23	26	13	11
Buchanan	42	60	43	40	29	37	54	40	59	49	21	16	17
Buena Vista	48	55	58	45	45	58	34	20	29	27	82	11	23
Butler	21	26	27	31	15	32	32	10	11	16	11	13	10
Calhoun	16	21	14	36	36	11	20	13	5	18	20	4	12
Carroll	32	36	15	50	37	38	41	41	9	27	21	25	17
Cass	14	43	29	27	31	26	37	29	18	23	27	31	37
Cedar	55	51	37	22	32	36	24	16	24	29	32	24	9
Cerro Gordo	205	225	161	173	121	149	130	87	102	69	83	96	83
Cherokee	33	19	15	26	27	36	18	9	16	25	26	23	12
Chickasaw	25	47	19	18	26	30	16	17	19	25	14	6	9
Clarke	40	23	31	25	22	37	29	13	10	22	7	8	11
Clay	54	54	65	57	69	56	65	41	50	38	38	19	26
Clayton	33	27	26	44	51	65	33	38	18	42	28	34	15
Clinton	162	188	147	119	150	144	128	127	119	140	154	102	102
Crawford	47	36	24	44	44	49	41	19	23	18	33	26	32
Dallas	84	62	52	95	69	78	74	85	64	42	58	47	50
Davis	8	21	24	14	19	13	17	14	7	20	18	12	10
Decatur	42	42	36	40	28	23	24	13	23	16	17	21	9
Delaware	33	20	39	55	65	91	68	55	47	37	85	43	31
Des Moines	170	129	135	109	121	132	91	98	127	108	119	79	46
Dickinson	52	28	39	25	33	45	22	31	24	16	12	17	11
Dubuque	170	235	199	185	198	187	178	106	106	176	162	102	65
Emmet	41	41	39	39	26	28	32	18	31	16	17	22	17
Fayette	48	63	46	52	73	46	38	62	46	53	48	46	14
Floyd	79	68	74	56	46	42	36	42	29	30	13	23	22
Franklin	18	12	11	25	16	24	22	10	10	19	14	16	7
Fremont	18	19	22	11	19	20	26	10	6	8	3	17	13
Greene	47	46	18	39	24	34	15	21	25	18	29	7	6
Grundy	15	22	13	16	10	17	11	9	6	6	2	10	15
Guthrie	38	22	36	18	24	22	17	24	14	18	23	6	20
Hamilton	77	57	63	83	74	56	34	27	26	24	31	23	25
Hancock	16	39	24	15	12	27	13	16	24	13	17	7	6
Hardin	36	11	18	21	31	39	41	27	34	32	22	24	28
Harrison	53	29	58	35	49	54	61	44	42	28	36	34	37
Henry	34	27	42	56	43	35	42	33	36	39	39	51	27
Howard	18	14	14	17	18	14	14	12	16	19	17	22	13
Humboldt	26	24	10	16	19	29	7	10	13	13	32	21	20
Ida	14	10	8	15	7	21	10	2	3	3	3	9	6
Iowa	13	42	24	9	22	24	23	17	18	11	14	9	1
Jackson	71	58	47	45	58	40	34	58	41	43	41	31	29
Jasper	126	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, 1982-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	39	44	29	35	19	23	21	17	29	20	23	39	46
Johnson	151	155	137	114	135	130	110	89	98	80	68	82	69
Jones	34	30	54	38	35	32	39	32	49	45	65	57	21
Keokuk	20	31	25	32	26	20	17	8	9	22	29	11	21
Kossuth	26	35	52	22	12	13	5	15	14	10	24	21	16
Lee	125	113	106	114	110	102	111	121	146	190	182	139	43
Linn	422	455	394	460	469	586	476	371	434	405	492	357	286
Louisa	44	35	10	34	38	34	28	12	21	24	20	14	11
Lucas	14	21	28	11	10	6	5	8	7	16	12	16	18
Lyon	13	15	10	15	15	7	12	13	4	13	9	10	8
Madison	30	26	16	25	31	32	26	30	23	21	13	8	12
Mahaska	43	32	51	49	37	23	31	29	28	37	41	30	29
Marion	92	91	107	119	98	105	120	79	119	92	60	64	25
Marshall	139	116	81	85	117	155	135	112	116	88	86	81	54
Mills	59	72	42	40	30	44	55	28	22	21	16	20	20
Mitchell	18	32	26	14	12	7	13	12	14	1	4	1	1
Monona	19	6	13	28	27	9	13	16	7	16	17	6	3
Monroe	19	19	24	25	15	7	6	7	12	9	5	10	7
Montgomery	31	21	24	31	16	31	20	37	21	11	20	36	12
Muscatine	342	277	205	276	222	182	138	91	85	129	141	137	130
O'Brien	44	16	32	14	21	15	17	7	13	12	3	18	13
Osceola	8	10	10	12	15	9	12	1	10	14	3	5	8
Page	29	38	61	30	64	57	50	22	19	13	39	25	42
Palo Alto	18	31	19	20	31	12	23	17	25	21	34	15	8
Plymouth	35	14	20	35	54	34	27	29	15	23	28	13	12
Pocahontas	19	18	8	12	28	23	19	21	16	7	27	1	17
Polk	1777	1803	1474	1528	1478	1348	1518	1189	1271	1093	1122	860	543
Pottawattamie	332	377	302	273	245	249	265	290	339	372	316	332	176
Poweshiek	56	51	22	28	27	39	28	31	37	16	27	39	8
Ringgold	16	18	23	15	9	6	4	8	13	13	7	6	3
Sac	39	42	41	20	37	28	21	17	9	27	12	7	9
Scott	643	642	584	539	522	428	423	342	397	425	543	451	234
Shelby	19	15	28	19	9	14	18	11	10	4	11	19	13
Sioux	22	14	24	30	16	32	19	31	10	16	16	20	17
Story	119	118	85	120	178	154	134	63	86	70	29	59	25
Tama	88	40	46	34	52	52	66	51	52	27	24	22	39
Taylor	7	6	18	22	16	14	21	7	10	9	11	8	8
Union	81	60	65	47	65	51	45	31	44	60	51	35	14
Van Buren	12	29	6	16	17	8	13	4	8	11	19	22	21
Wapello	128	113	140	130	124	161	106	94	93	115	124	134	148
Warren	77	117	112	148	126	94	142	94	99	111	99	64	51
Washington	45	45	38	49	54	42	34	24	16	21	16	24	17
Wayne	32	24	33	9	6	18	1	3	8	7	7	9	5
Webster	103	108	148	154	195	154	131	102	109	130	161	129	135
Winnebago	50	46	27	14	17	27	21	25	9	15	15	14	16
Winneshiek	28	26	20	48	32	50	23	47	9	16	17	37	20
Woodbury	441	267	390	430	507	497	357	208	222	259	169	182	118
Worth	19	46	21	12	13	18	11	7	7	8	7	9	3
Wright	73	40	40	39	51	50	14	21	30	20	23	30	12
County Not Reported	13	5	4	8	13	3	17	8	16	14	5	12	12
State of Iowa	9172	8834	7934	8154	8215	8095	7483	5918	6372	6281	6489	5399	3924

Figure 1. Abused children in Iowa, 1982-1994.



## Public and Non-Public School Enrollment in Iowa's Counties: 1980-1994

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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 1994, 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 1994, 494,539 students were enrolled in public schools in Iowa (Table 1). This was nearly 5,900 more than the 488,673 reported in 1984. Declines occurred annually from 1980 through 1988, but slight gains took place each year from 1988 to 1994. About 18,400 more public school students were counted in 1994 than at the low point in 1988 (Figure 1).

Forty-five counties had more students in public schools in 1994 than 10 years earlier: five (Dallas, Johnson, Polk, Story, Woodbury) had at least 1,000 more. Declines in the other 54 counties ranged from less than 100 in 18 counties to more than 1,000 in Black Hawk and Scott.

Thirteen counties had at least 10 percent more public school students in 1994 than in 1984; gains in the other 32 ranged from 0.2 percent to 9.7 percent. Twenty-three counties decreased by less than 5 percent from 1984 to 1994. Three (Crawford, Emmet, Pocahontas) declined by at least 15 percent in the last 10 years.

### Enrollment in Non-Public Schools

A total of 44,752 non-public school students were enrolled in Iowa in 1994 (Table 2). This was down 5,900 from the 50,668 reported in 1984. 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 1994 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 reported here.

Table 1. Public School Enrollment in Iowa Counties, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	1273	1226	1252	1184	1188	1148	1149	1224	1222	1248	1249	1277	1258	1303	1364
Adams	768	755	728	770	773	767	819	816	792	804	791	776	835	842	900
Allamakee	2832	2776	2774	2762	2744	2770	2744	2798	2809	2882	2891	2982	3085	3098	3383
Appanoose	2460	2461	2524	2518	2502	2485	2542	2575	2532	2473	2542	2595	2636	2712	2798
Audubon	1178	1204	1237	1211	1211	1184	1201	1232	1266	1310	1327	1361	1387	1417	1499
Benton	4117	4121	4362	4322	4325	4297	4191	4233	4278	4306	4330	4439	4534	4735	4923
Black Hawk	18518	18449	18143	18625	18791	18710	18570	18819	18981	19539	20094	20722	21170	21248	21869
Boone	4123	4136	4099	4043	3992	3934	3920	3874	3928	3948	3912	3956	3988	4129	4258
Bremer	5815	5812	5774	5699	5594	5675	5639	5718	5853	6021	6129	6154	6273	6455	6697
Buchanan	3431	3410	3446	3382	3424	3353	3305	3270	3180	3273	3357	3423	3517	3616	3704
Buena Vista	3912	3898	3432	3445	3312	3130	3095	3039	3191	3076	3077	3061	3069	3140	3230
Butler	2670	2643	2656	2667	2769	2741	2827	2790	2778	2846	2918	2994	3055	3193	3291
Calhoun	2755	2698	2609	2602	2460	2465	2324	2482	2520	2536	2580	2634	2659	2822	2913
Carroll	3255	3313	3295	3179	3069	2926	2863	2688	2648	2653	2674	2710	2799	2808	2952
Cass	3230	3188	3194	3261	3236	3238	3162	3215	3200	3228	3248	3299	3347	3457	3566
Cedar	3629	3588	3674	3640	3671	3597	3589	3530	3518	3564	3677	3717	3799	3848	3981
Cerro Gordo	7408	7357	7321	7349	7320	7282	7344	7436	7301	7272	7294	7220	7212	7493	7721
Cherokee	2809	3082	2810	2794	2791	2767	2828	2899	2824	2873	2922	2979	3025	3108	3216
Chickasaw	2355	2352	2346	2339	2367	2359	2388	2422	2477	2566	2613	2684	2771	2863	3061
Clarke	1755	1713	1753	1745	1722	1634	1702	1736	1664	1656	1600	1658	1643	1667	1694
Clay	3057	3071	3458	3450	3419	3392	3366	3249	3245	3349	3349	3359	3339	3402	3513
Clayton	3760	3740	3737	3769	3780	3785	3816	3789	3760	3876	3912	3950	4006	4067	4135
Clinton	9186	9276	9365	9418	9325	9359	9374	9385	9626	9816	9950	10265	10635	10963	11262
Crawford	2751	2928	2956	3210	3243	3279	3428	3498	3577	3640	3622	3636	3729	3752	3788
Dallas	7250	7060	6887	6776	6627	6417	6350	6355	6258	6249	6134	6113	6147	6358	6456
Davis	1360	1388	1410	1423	1398	1365	1430	1440	1473	1492	1514	1534	1573	1600	1608
Decatur	1444	1342	1442	1460	1480	1458	1457	1543	1553	1533	1558	1604	1655	1692	1687
Delaware	3737	3754	3679	3608	3581	3453	3464	3427	3400	3394	3434	3680	3599	3679	3790
Des Moines	7615	7643	7645	7715	7762	7750	7765	7820	7813	7762	7789	7805	8031	8253	8607
Dickinson	2852	2747	2790	2771	2807	2804	2735	2741	2754	2789	2825	2819	2796	2832	2938
Dubuque	12367	12380	12063	11893	11869	12019	12232	12814	13105	12408	12643	12941	13370	13855	14644
Emmet	2248	2260	2247	2271	2278	2324	2332	2308	2300	2369	2655	2516	2557	2657	2677
Fayette	4514	4470	4481	4440	4449	4396	4412	4435	4509	4724	4853	5164	5256	5334	5665
Floyd	3185	3171	3224	3207	3174	3142	3211	3238	3253	3350	3510	3565	3719	3860	4004
Franklin	1905	1862	1968	1941	1985	1856	1762	1733	1808	1806	1819	1887	1865	1896	1945
Fremont	1679	1696	1692	1704	1688	1672	1671	1717	1736	1743	1804	1764	1752	1728	1769
Greene	1992	1975	1949	1996	1905	1887	1894	1841	1934	2019	2063	2023	2103	2223	2329
Grundy	2747	2727	2740	2261	2223	2267	2314	2341	2418	2488	2571	2622	2716	2825	2855
Guthrie	2347	2425	2411	2453	2477	2424	2434	2581	2575	2626	2660	2716	2725	2757	2885
Hamilton	3095	3050	3074	3088	3099	3184	3056	3081	3055	3107	3176	3235	3318	3406	3539
Hancock	2086	2320	2332	2397	2393	2352	2402	2390	2381	2404	2365	2424	2443	2537	2583
Hardin	3707	3714	3707	4022	3956	3956	3959	3787	4055	4086	4230	4362	4452	4532	4786
Harrison	3327	3010	3063	3032	3016	2926	3049	3074	3041	3105	3208	3232	3309	3374	3476
Henry	3950	3904	3960	3861	4161	3668	3618	3593	3637	3607	3585	3597	3645	3672	3764
Howard	2286	2191	2168	2143	2119	2063	2055	2045	2080	2103	2101	2223	2284	2336	2479
Humboldt	1936	1940	1916	1948	1912	1899	1887	1927	1897	1967	1991	2027	2124	2234	2339
Ida	1628	1750	1644	1585	1580	1569	1525	1544	1489	1446	1395	1423	1462	1446	1513
Iowa	3085	2991	2973	2913	2828	2635	2587	2604	2639	2698	2651	2719	2827	2953	3116
Jackson	3680	3732	3725	3675	3621	3588	3655	3753	3730	3809	3998	4203	4205	4321	4455
Jasper	6318	6492	6411	6439	6344	6338	6319	6452	6428	6463	6456	6598	6590	6897	7034

Table 1. Public School Enrollment in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	2030	2011	2014	2102	1977	1976	2020	2017	2036	2120	2246	2282	2349	2467	2596
Johnson	11985	11911	11654	11388	11070	10953	11036	10553	10358	10298	10140	10183	10357	10381	10596
Jones	3562	3523	3337	3211	3214	3304	3279	3315	3367	3470	3517	3546	3637	3702	3950
Keokuk	2445	2440	2399	2437	2447	2436	2410	2429	2395	2451	2450	2402	2362	2480	2618
Kossuth	2707	2727	2685	2679	2702	2649	2561	2487	2583	2718	2754	2807	2883	2986	3183
Lee	6536	6565	6540	6533	6380	6287	6323	6535	6550	6532	6483	6607	6771	6815	7035
Linn	30622	29881	29409	28745	28410	28424	28743	28804	28960	29454	29960	30566	31391	32196	33286
Louisa	2882	2848	2824	2720	2803	2852	2842	2838	2829	2824	2817	2918	2887	3041	3115
Lucas	1594	1620	1580	1583	1574	1607	1587	1655	1647	1647	1678	1701	1733	1769	1832
Lyon	2318	2293	2262	2256	2264	2276	2288	2318	2286	2239	2206	2227	2316	2379	2415
Madison	2842	2795	2845	2847	2813	2846	2857	2840	2836	2824	2835	2819	2810	2917	2972
Mahaska	3370	3321	3367	3286	3294	3273	3241	3223	3259	3262	3323	3304	3280	3235	3314
Marion	5608	5442	5462	5468	5424	5332	5387	5313	5266	5320	5382	5384	5385	5525	5634
Marshall	6482	6373	6414	6721	6816	6751	6775	6947	6936	6959	7124	7358	7473	7655	8043
Mills	2548	2619	2656	2586	2577	2573	2599	2641	2533	2612	2632	2621	2636	2626	2587
Mitchell	1894	1881	1839	1819	1810	1807	1814	1836	1808	1780	1816	1831	1896	1987	2142
Monona	1795	1826	1826	1858	1832	1825	1831	1841	1844	1879	1914	1930	2007	2095	2182
Monroe	1386	1364	1404	1376	1358	1364	1337	1367	1376	1410	1433	1457	1498	1518	1567
Montgomery	2127	2141	2137	2219	2165	2169	2230	2182	2212	2274	2253	2278	2241	2283	2309
Muscatine	7834	7740	7865	7842	7689	7602	7449	7554	7585	7536	7508	7702	7775	7815	7937
O'Brien	3013	2971	2969	2930	2926	2835	2833	2804	2799	2804	2774	2807	2848	2910	2994
Osceola	1038	995	1019	984	955	935	938	959	943	949	971	993	1012	1018	1153
Page	3076	3090	3098	3161	3201	3208	3132	3156	3130	3169	3196	3162	3188	3243	3313
Palo Alto	2064	2100	2079	2076	2048	2035	2070	2106	2001	2038	2087	2150	2220	2326	2465
Plymouth	4454	4431	4364	4322	4182	4081	4067	4047	3932	3894	3888	3865	3993	4057	4265
Pocahontas	1381	1350	1670	1665	1798	1668	1636	1663	1683	1722	1802	1844	1914	1951	2045
Polk	57034	55975	55288	53999	53727	52029	51474	51340	51072	51299	51062	51197	51834	53303	54885
Pottawattamie	16100	16095	16065	16113	15931	15667	15638	15880	15914	15981	16054	16364	16551	17062	17599
Poweshiek	3188	3151	3090	3102	3011	3019	3088	3155	3098	3102	3153	3203	3318	3432	3517
Ringgold	1047	1018	1006	1037	1020	1059	1049	1003	975	1009	1065	1118	1090	1124	1141
Sac	2394	2378	2402	2401	2478	2426	2379	2423	2371	2368	2381	2447	2518	2552	2654
Scott	28117	29535	28508	28422	27841	27703	27634	28112	28386	29035	30002	30567	30783	31522	32336
Shelby	2719	2704	2598	2486	2425	2349	2320	2328	2371	2451	2572	2621	2650	2778	2964
Sioux	4374	4358	4281	3888	4018	3895	3868	3816	3730	3737	3684	3750	3741	3835	3965
Story	11023	10910	11097	10506	10166	9973	9828	9758	9513	9543	9502	9577	9638	9888	10252
Tama	3060	3074	3507	3305	3279	3354	3348	3378	3412	3460	3536	3586	3678	3830	3988
Taylor	1326	1314	1291	1338	1368	1410	1469	1503	1429	1493	1510	1494	1518	1548	1597
Union	2258	2350	2321	2392	2375	2452	2447	2463	2483	2494	2568	2574	2568	2598	2674
Van Buren	1495	1478	1449	1431	1419	1419	1441	1471	1487	1503	1531	1540	1570	1618	1686
Wapello	6575	6614	6683	6667	6544	6537	6562	6795	6909	7121	7306	7313	7403	7556	7856
Warren	7666	7568	7312	7261	7127	6941	7027	7144	6994	6955	6956	7048	7127	7264	7467
Washington	3580	3501	3455	3495	3455	3373	3392	3403	3411	3398	3447	3470	3548	3579	3702
Wayne	1217	1202	1249	1280	1247	1206	1201	1209	1237	1259	1307	1368	1396	1399	1414
Webster	6057	6099	6052	6069	6130	6093	6164	6138	6283	6278	6359	6457	6607	7029	7358
Winnebago	2966	2920	2892	2860	2901	2844	2766	2795	2771	2759	2744	2758	2751	2829	2975
Winneshek	2868	2870	2780	2725	2663	2605	2647	2598	2590	2573	2540	2572	2704	2771	2882
Woodbury	18081	17880	18030	18203	17661	17618	17422	17485	17169	16984	16953	17146	17062	17401	17994
Worth	1230	1201	1237	1217	1137	1131	1183	1184	1246	1279	1296	1300	1351	1409	1429
Wright	3184	2876	2813	2818	2759	2745	2721	2870	2786	2876	2910	2960	2983	3075	3212
State of Iowa	494539	492520	489670	486235	482171	476605	476114	478982	479282	483444	488673	495821	503545	516174	533756



Table 2. Non-Public School Enrollment in Iowa Counties, 1980-1994.

County	1994	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	0
Adams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allamakee	191	175	194	197	187	183	199	192	207	219	214	217	215	190	185
Appanoose	68	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	0
Benton	128	128	132	123	161	152	143	139	102	131	144	149	156	151	164
Black Hawk	3272	3674	3727	3731	3832	3715	3806	3809	3754	3725	3827	3858	3776	3726	3781
Boone	251	245	242	252	277	306	331	337	329	329	338	317	285	264	242
Bremer	244	252	247	263	375	376	393	399	391	301	322	336	405	395	397
Buchanan	292	267	245	267	252	260	311	315	340	375	390	422	446	448	430
Buena Vista	444	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	0
Calhoun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carroll	1778	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	0
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Cerro Gordo	769	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	0
Chickasaw	159	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	0
Clay	130	127	144	153	152	155	173	194	185	178	189	193	195	203	214
Clayton	147	154	155	162	160	164	167	173	168	158	179	183	184	193	207
Clinton	519	521	534	545	570	569	643	737	828	900	939	940	950	906	965
Crawford	354	335	326	310	354	351	352	376	363	361	403	445	417	422	433
Dallas	190	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	0
Decatur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delaware	323	338	337	341	322	333	312	298	303	285	280	255	260	277	279
Des Moines	459	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	0
Dubuque	5969	6024	6172	6357	6148	6572	6747	6649	6895	7244	7506	7807	8046	8472	8762
Emmet	33	36	37	45	48	22	18	20	28	23	0	0	0	0	0
Fayette	304	289	297	292	306	335	352	339	340	325	344	330	331	335	342
Floyd	180	185	200	210	244	262	283	237	256	252	250	267	279	280	265
Franklin	42	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	0
Greene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grundy	59	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	0
Hamilton	104	102	113	83	84	97	105	92	103	105	93	96	100	105	105
Hancock	55	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	0	14	15
Harrison	49	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	0
Howard	142	143	174	214	263	262	279	301	298	295	287	289	291	306	313
Humboldt	214	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	0
Iowa	216	197	199	196	222	218	228	191	219	224	236	247	238	243	240
Jackson	567	533	540	549	559	595	593	605	608	631	642	662	634	660	676
Jasper	193	181	179	200	212	221	239	220	226	230	234	218	213	205	210

Table 2. Non-Public School Enrollment in Iowa Counties, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	366	651	415	418	0	575	493	353	293	218	262	246	104	0	0
Johnson	808	764	756	720	766	633	609	583	571	584	586	601	604	586	610
Jones	216	223	214	218	242	225	244	267	282	264	268	274	268	280	286
Keokuk	0	0	0	0	0	0	15	0	0	0	0	95	102	102	111
Kossuth	857	846	904	956	934	967	1065	1287	1130	1180	1218	1294	1328	1370	1425
Lee	989	986	966	966	1053	1079	1148	1143	1195	1234	1350	1383	1382	1413	1390
Linn	2896	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	0
Lucas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lyon	129	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	0
Mahaska	179	195	202	208	220	211	221	227	213	197	190	192	203	189	183
Marion	845	847	847	831	838	826	837	812	795	785	784	778	748	736	729
Marshall	366	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	0
Mitchell	176	171	177	190	195	201	199	232	247	243	240	252	250	240	255
Monona	61	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	0
Montgomery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscatine	198	216	197	230	223	223	252	270	263	256	272	269	261	279	268
O'Brien	460	485	487	508	548	573	596	593	560	547	516	547	559	550	565
Osceola	45	49	53	55	57	73	94	101	110	112	103	114	114	116	122
Page	97	81	89	87	87	91	95	99	109	93	107	111	100	94	76
Palo Alto	235	255	259	261	279	276	276	268	263	262	275	272	259	259	268
Plymouth	1013	994	992	982	1001	1014	1004	1021	1051	1046	1058	1082	1096	1097	1139
Pocahontas	115	103	194	189	181	175	131	137	135	150	148	150	154	177	186
Polk	4731	4614	4588	4946	5197	5091	5302	5278	5617	5646	5714	5689	5586	5480	5529
Pottawattamie	976	949	939	913	991	1023	1038	1081	1048	903	922	944	902	936	926
Poweshiek	10	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	0
Sac	0	0	0	0	0	54	61	61	55	55	68	78	79	63	67
Scott	2869	2786	2736	2691	2880	2999	2712	2683	2674	2805	2728	2796	2901	2978	2908
Shelby	308	327	339	339	319	323	342	350	335	335	347	374	399	408	404
Sioux	2905	2946	2853	2892	2809	2869	2840	2686	2663	2634	2608	2354	2380	2423	2459
Story	173	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	0
Taylor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Union	116	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	0
Wapello	136	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	0
Washington	292	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	0
Webster	1200	1225	1184	1166	1238	1260	1478	1308	1318	1375	1385	1435	1436	1491	1508
Winnebago	19	22	19	17	16	13	13	11	14	12	12	12	9	10	11
Winneshiek	465	486	517	529	605	558	548	543	560	561	537	537	532	533	525
Woodbury	2656	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	0
Wright	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State of Iowa	44752	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, 1980-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	1273	1226	1252	1184	1188	1148	1149	1224	1222	1248	1249	1277	1258	1303	1364
Adams	768	755	728	770	773	767	819	816	792	804	791	776	835	842	900
Allamakee	3023	2951	2968	2959	2931	2953	2943	2990	3016	3101	3105	3199	3300	3288	3568
Appanoose	2528	2527	2581	2572	2591	2573	2623	2686	2642	2568	2648	2714	2749	2825	2906
Audubon	1178	1204	1237	1211	1211	1184	1201	1232	1266	1310	1327	1361	1387	1417	1499
Benton	4245	4249	4494	4445	4486	4449	4334	4372	4380	4437	4474	4588	4690	4886	5087
Black Hawk	21790	22123	21870	22356	22623	22425	22376	22628	22735	23264	23921	24580	24946	24974	25650
Boone	4374	4381	4341	4295	4269	4240	4251	4211	4257	4277	4250	4273	4273	4393	4500
Bremer	6059	6064	6021	5962	5969	6051	6032	6117	6244	6322	6451	6490	6678	6850	7094
Buchanan	3723	3677	3691	3649	3676	3613	3616	3585	3520	3648	3747	3845	3963	4064	4134
Buena Vista	4356	4338	3778	3772	3647	3425	3420	3392	3547	3424	3444	3426	3433	3498	3602
Butler	2670	2643	2656	2667	2769	2741	2827	2790	2778	2846	2918	2994	3055	3193	3291
Calhoun	2755	2698	2609	2602	2460	2465	2324	2482	2520	2536	2580	2634	2659	2822	2913
Carroll	5033	5127	5102	5027	4931	4810	4740	4647	4637	4666	4749	4848	5025	5139	5393
Cass	3230	3188	3194	3261	3236	3238	3162	3215	3200	3228	3248	3299	3347	3457	3566
Cedar	3629	3588	3674	3640	3671	3597	3589	3530	3518	3564	3677	3717	3799	3859	3992
Cerro Gordo	8177	8136	8144	8142	8093	8095	8077	8103	8123	8004	8051	7970	7970	8164	8395
Cherokee	2809	3082	2810	2794	2791	2767	2828	2899	2824	2873	2922	2979	3025	3108	3216
Chickasaw	2514	2491	2502	2504	2533	2536	2578	2597	2664	2761	2819	2906	2991	3101	3301
Clarke	1755	1713	1753	1745	1722	1634	1702	1736	1664	1656	1600	1658	1643	1667	1694
Clay	3187	3198	3602	3603	3571	3547	3539	3443	3430	3527	3538	3552	3534	3605	3727
Clayton	3907	3894	3892	3931	3940	3949	3983	3962	3928	4034	4091	4133	4190	4260	4342
Clinton	9705	9797	9899	9963	9895	9928	10017	10122	10454	10716	10889	11205	11585	11869	12227
Crawford	3105	3263	3282	3520	3597	3630	3780	3874	3940	4001	4025	4081	4146	4174	4221
Dallas	7440	7231	7056	6953	6904	6711	6656	6666	6476	6449	6370	6358	6383	6570	6674
Davis	1360	1388	1410	1423	1398	1365	1430	1440	1473	1492	1514	1534	1573	1600	1608
Decatur	1444	1342	1442	1460	1480	1458	1457	1543	1553	1533	1558	1604	1655	1692	1687
Delaware	4060	4092	4016	3949	3903	3786	3776	3725	3703	3679	3714	3935	3859	3956	4069
Des Moines	8074	8106	8060	8111	8165	8118	8229	8311	8324	8208	8240	8212	8474	8747	9089
Dickinson	2852	2747	2790	2771	2807	2804	2735	2741	2754	2789	2825	2819	2796	2832	2938
Dubuque	18336	18404	18235	18250	18017	18591	18979	19463	20000	19652	20149	20748	21416	22327	23406
Emmet	2281	2296	2284	2316	2326	2346	2350	2328	2328	2392	2655	2516	2557	2657	2677
Fayette	4818	4759	4778	4732	4755	4731	4764	4774	4849	5049	5197	5494	5587	5669	6007
Floyd	3365	3356	3424	3417	3418	3404	3494	3475	3509	3602	3760	3832	3998	4140	4269
Franklin	1947	1909	2015	1985	2044	1908	1824	1792	1840	1840	1858	1923	1906	1923	1973
Fremont	1679	1696	1692	1704	1688	1672	1671	1717	1736	1743	1804	1764	1752	1728	1769
Greene	1992	1975	1949	1996	1905	1887	1894	1841	1934	2019	2063	2023	2103	2223	2329
Grundy	2806	2769	2795	2322	2297	2341	2396	2419	2488	2560	2640	2692	2783	2883	2904
Guthrie	2347	2425	2411	2453	2477	2424	2434	2581	2575	2626	2660	2716	2725	2757	2885
Hamilton	3199	3152	3187	3171	3183	3281	3161	3173	3158	3212	3269	3331	3418	3511	3644
Hancock	2141	2377	2394	2467	2468	2426	2462	2446	2442	2466	2434	2494	2509	2609	2650
Hardin	3707	3714	3707	4022	3956	3956	3959	3787	4055	4086	4230	4362	4452	4546	4801
Harrison	3376	3059	3117	3077	3072	2991	3114	3142	3119	3183	3281	3297	3373	3439	3535
Henry	3950	3904	3960	3861	4161	3668	3618	3593	3637	3607	3585	3597	3645	3672	3764
Howard	2428	2334	2342	2357	2382	2325	2334	2346	2378	2398	2388	2512	2575	2642	2792
Humboldt	2150	2144	2100	2129	2082	2031	2021	2074	2046	2114	2143	2169	2244	2355	2466
Ida	1628	1750	1644	1585	1580	1569	1525	1544	1489	1446	1395	1423	1462	1446	1513
Iowa	3301	3188	3172	3109	3050	2853	2815	2795	2858	2922	2887	2966	3065	3196	3356
Jackson	4247	4265	4265	4224	4180	4183	4248	4358	4338	4440	4640	4865	4839	4981	5131
Jasper	6511	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, 1980-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	2396	2662	2429	2520	1977	2551	2513	2370	2329	2338	2508	2528	2453	2467	2596
Johnson	12793	12675	12410	12108	11836	11586	11645	11136	10929	10882	10726	10784	10961	10967	11206
Jones	3778	3746	3551	3429	3456	3529	3523	3582	3649	3734	3785	3820	3905	3982	4236
Keokuk	2445	2440	2399	2437	2447	2436	2425	2429	2395	2451	2450	2497	2464	2582	2729
Kossuth	3564	3573	3589	3635	3636	3616	3626	3774	3713	3898	3972	4101	4211	4356	4608
Lee	7525	7551	7506	7499	7433	7366	7471	7678	7745	7766	7833	7990	8153	8228	8425
Linn	33518	32894	32386	31698	31499	31397	31827	31884	32090	32616	33237	33852	34719	35555	36675
Louisa	2882	2848	2824	2720	2803	2852	2842	2838	2829	2824	2817	2918	2887	3041	3115
Lucas	1594	1620	1580	1583	1574	1607	1587	1655	1647	1647	1678	1701	1733	1769	1832
Lyon	2447	2425	2407	2382	2389	2432	2446	2481	2460	2428	2392	2415	2503	2562	2590
Madison	2842	2795	2845	2847	2813	2846	2857	2840	2836	2824	2835	2819	2810	2917	2972
Mahaska	3549	3516	3569	3494	3514	3484	3462	3450	3472	3459	3513	3496	3483	3424	3497
Marion	6453	6289	6309	6299	6262	6158	6224	6125	6061	6105	6166	6162	6133	6261	6363
Marshall	6848	6716	6773	7098	7191	7134	7139	7294	7286	7320	7507	7768	7891	8051	8344
Mills	2548	2619	2656	2586	2577	2573	2599	2641	2533	2612	2632	2621	2636	2626	2587
Mitchell	2070	2052	2016	2009	2005	2008	2013	2068	2055	2023	2056	2083	2146	2227	2397
Monona	1856	1901	1902	1930	1911	1893	1919	1922	1932	1967	2002	2020	2100	2186	2273
Monroe	1386	1364	1404	1376	1358	1364	1337	1367	1376	1410	1433	1457	1498	1518	1567
Montgomery	2127	2141	2137	2219	2165	2169	2230	2182	2212	2274	2253	2278	2241	2283	2309
Muscatine	8032	7956	8062	8072	7912	7825	7701	7824	7848	7792	7780	7971	8036	8094	8205
O'Brien	3473	3456	3456	3438	3474	3408	3429	3397	3359	3351	3290	3354	3407	3460	3559
Osceola	1083	1044	1072	1039	1012	1008	1032	1060	1053	1061	1074	1107	1126	1134	1275
Page	3173	3171	3187	3248	3288	3299	3227	3255	3239	3262	3303	3273	3288	3337	3389
Palo Alto	2299	2355	2338	2337	2327	2311	2346	2374	2264	2300	2362	2422	2479	2585	2733
Plymouth	5467	5425	5356	5304	5183	5095	5071	5068	4983	4940	4946	4947	5089	5154	5404
Pocahontas	1496	1453	1864	1854	1979	1843	1767	1800	1818	1872	1950	1994	2068	2128	2231
Polk	61765	60589	59876	58945	58924	57120	56776	56618	56689	56945	56776	56886	57420	58783	60414
Pottawattamie	17076	17044	17004	17026	16922	16690	16676	16961	16962	16884	16976	17308	17453	17998	18525
Poweshiek	3198	3162	3103	3124	3046	3040	3105	3168	3107	3110	3161	3203	3318	3432	3517
Ringgold	1047	1018	1006	1037	1020	1059	1049	1003	975	1009	1065	1118	1090	1124	1141
Sac	2394	2378	2402	2401	2478	2480	2440	2484	2426	2423	2449	2525	2597	2615	2721
Scott	30986	32321	31244	31113	30721	30702	30346	30795	31060	31840	32730	33363	33684	34500	35244
Shelby	3027	3031	2937	2825	2744	2672	2662	2678	2706	2786	2919	2995	3049	3186	3368
Sioux	7279	7304	7134	6780	6827	6764	6708	6502	6393	6371	6292	6104	6121	6258	6424
Story	11196	11093	11265	10673	10348	10170	10014	9944	9686	9727	9687	9766	9828	10075	10443
Tama	3060	3074	3507	3305	3279	3354	3348	3378	3412	3460	3536	3586	3678	3830	3988
Taylor	1326	1314	1291	1338	1368	1410	1469	1503	1429	1493	1510	1494	1518	1548	1597
Union	2374	2468	2435	2515	2503	2582	2574	2609	2613	2588	2664	2679	2687	2723	2796
Van Buren	1495	1478	1449	1431	1419	1419	1441	1471	1487	1503	1531	1540	1570	1618	1686
Wapello	6711	6756	6812	6787	6680	6679	6712	6938	7059	7223	7413	7451	7540	7693	7962
Warren	7666	7568	7312	7261	7127	6941	7027	7144	6994	6955	6956	7048	7127	7264	7467
Washington	3872	3765	3734	3767	3754	3680	3707	3687	3725	3710	3742	3766	3837	3859	3988
Wayne	1217	1202	1249	1280	1247	1206	1201	1209	1237	1259	1307	1368	1396	1399	1414
Webster	7257	7324	7236	7235	7368	7353	7642	7446	7601	7653	7744	7892	8043	8520	8866
Winnebago	2985	2942	2911	2877	2917	2857	2779	2806	2785	2771	2756	2770	2760	2839	2986
Winneshiek	3333	3356	3297	3254	3268	3163	3195	3141	3150	3134	3077	3109	3236	3304	3407
Woodbury	20737	20542	20716	20881	20391	20404	20255	20358	20078	19832	19881	20044	19901	20223	20786
Worth	1230	1201	1237	1217	1137	1131	1183	1184	1246	1279	1296	1300	1351	1409	1429
Wright	3184	2876	2813	2818	2759	2745	2721	2870	2786	2876	2910	2960	2983	3075	3212
State of Iowa	539291	537861	534912	532108	529095	524564	525102	527790	528736	533002	539341	547160	555040	568130	586260

Of the 64 counties with non-public school students in both 1984 and in 1994, 17 had increases among these students and 47 had decreases. Gains ranged from less than 50 in nine counties to more than 100 in four (Jefferson, Johnson, Scott, Sioux). Declines had a much greater range; 23 counties had decreases among non-public school students that were less than 50, but 11 dropped by more than 100. The greatest decrease occurred in Dubuque (-1,537); losses of 400-1,000 occurred in Black Hawk, Clinton, and Polk.

### Total School Enrollment

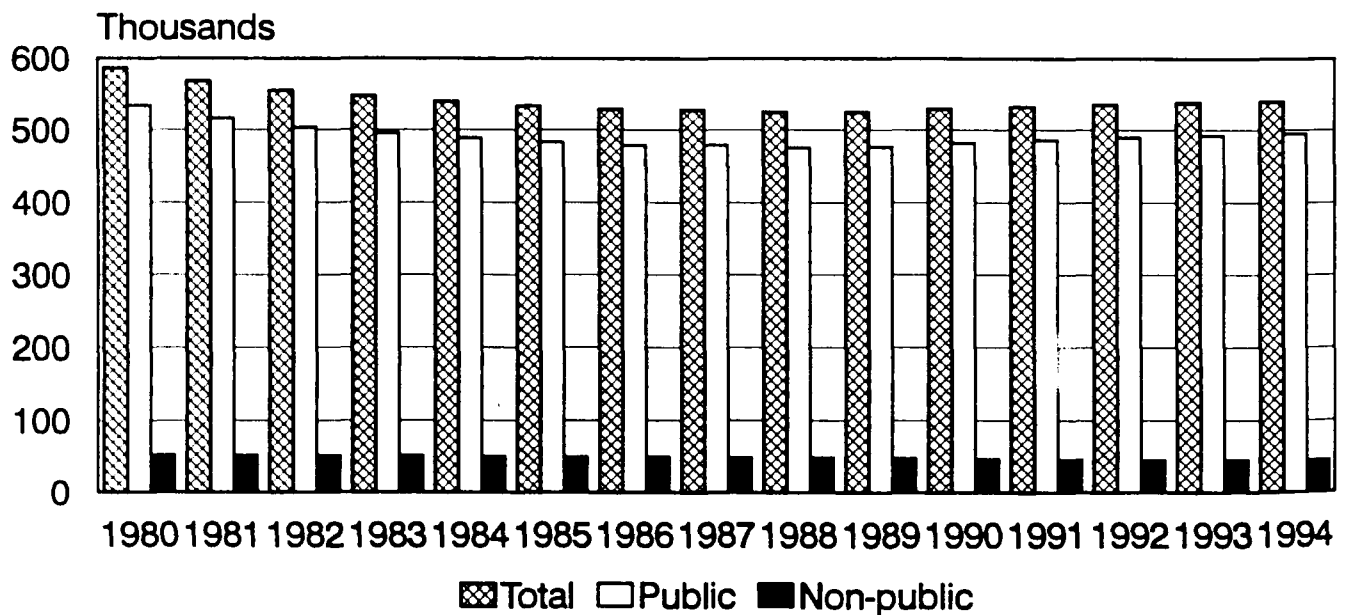
When the public and non-public figures are added, total enrollment was nearly identical in 1984 (539,341) and 1994 (539,291) (Table 3). Increases in total student numbers occurred from 1989 to 1994 but decreases took place in the remainder of the 1980s.

In 1994, 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 was below 1,000.

The total number of students increased in 42 counties when 1984 and 1994 were compared. Four of these (Dallas, Johnson, Polk, 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 9 of the 57 counties with fewer students in 1994 than in 1984 dropped by less than 50. Four (Black Hawk, Clinton, Dubuque, Scott) were down by at least 1,000.

**Note:** These data are from the Basic Educational Data Survey (BEDS) for September of each year. Additional information is available from the Bureau of Planning, Research, and Evaluation in the Iowa Department of Education (Grimes State Office Building, Des Moines, IA 50319).

Figure 1. Public and non-public school enrollment, 1980-1994.



## Estimates of Public Secondary School Dropouts in Iowa's Counties: 1984-1994

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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 1994 dropouts are those who left school between 1 July 1993 and 30 June 1994. 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 4,645 for 1994 (Table 1). That's the lowest number of Iowa dropouts during the 11 years from 1984 through 1994. In that period, the number of dropouts has ranged within 500 of the total recorded in 1984 except for 1989 (Figure 1).

Polk had the highest number of dropouts in 1994; indeed, Polk had the greatest number each year except 1993, when Scott had the most. Other counties with at least 100 dropouts each year included Black Hawk, Dubuque, Linn, Pottawattamie, and Woodbury. Some counties had very few or no dropouts in selected years. 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 1984 and 1994 when the number of dropouts increased and other years when the number decreased. Forty-six counties had fewer dropouts in 1994 than in 1984. Of these 46 counties, 35 had decreases of fewer than 20 dropouts. Des Moines, Linn, Polk, and Pottawattamie had at least 100 fewer dropouts in 1994 than in 1984. Forty-nine counties had more dropouts in 1994 than in 1984, although only Woodbury reported at least 100 more dropouts in 1994 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 1984 and 1991, although it increased from 1991 to 1994. There were nearly 27,000 fewer secondary school students in Iowa at the end of the period than at the beginning. Eighty-four of Iowa's 99 counties had fewer secondary enrollees in 1994 than in 1984. Declines were greater than 1,000 in eight counties (Black Hawk, Clinton, Dubuque, Linn, Marshall, Polk, Scott, Woodbury). Linn (-3,075) was the only county that decreased by at least 3,000. Fifteen counties recorded increases in secondary enrollees between 1984 and 1994; only Buena Vista (+358) increased by more than 200 secondary students.

**Percentage of Dropouts**

In 1994, 2.1 percent of public secondary enrollees in Iowa became dropouts (Table 2). This percentage tied the low previously reported (1984) during the 11 years examined. The proportion of dropouts for Iowa increased between 1984 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-five counties had fewer than 1 percent of their secondary students leave school in 1994. Mahaska had the highest dropout rate (5.7%). Eight (Appanoose, Black Hawk, Cerro Gordo, Lee, Muscatine, Scott, Webster, Woodbury) had percentages ranging from 3.0 to 5.1.

More than half (54) of Iowa's counties had a higher percentage of students drop out in 1994 than in 1984 while 36 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 available from the Division of Instructional Services in the Iowa Department of Education (Grimes State Office Building, Des Moines, IA 50319).

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1984-1994.<sup>1</sup>

County	1994 <sup>2</sup>		1993		1992		1991		1990		1989		1988		1987		1986		1985		1984	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Adair	3	584	12	586	2	530	3	519	4	489	0	487	0	519	4	529	6	561	2	574	3	589
Adams	3	333	2	315	12	302	9	300	12	361	3	356	3	367	3	365	4	350	1	364	5	368
Allamakee	4	1339	18	1286	11	1268	25	1233	13	1313	26	1309	12	1344	17	1362	15	1459	11	1499	15	1569
Appanoose	37	1191	43	1160	42	1144	41	1089	45	1186	34	1188	31	1219	59	1221	24	1154	33	1193	34	1234
Audubon	7	562	6	542	1	534	8	513	0	507	6	522	5	542	2	575	6	600	4	648	10	687
Benton	35	1806	41	1868	26	1761	30	1770	33	1874	26	1832	33	1864	21	1960	28	2013	39	2159	39	2257
Black Hawk	318	8202	549	7813	546	7813	493	7668	488	7653	516	8075	422	8316	388	8446	374	8647	454	9268	355	9476
Boone	52	1844	43	1755	23	1677	21	1639	34	1729	45	1784	30	1825	43	1900	30	1915	38	2024	41	1993
Bremer	14	2713	20	2616	13	2568	17	2457	32	2615	21	2665	27	2716	29	2879	29	3011	31	3144	20	3208
Buchanan	35	1477	41	1496	24	1485	19	1454	21	1518	28	1462	28	1457	35	1488	22	1532	37	1605	40	1656
Buena Vista	29	1778	36	1543	34	1457	30	1423	30	1505	26	1421	24	1339	27	1375	18	1400	17	1476	13	1420
Butler	9	1203	6	1151	5	1188	13	1144	11	1146	11	1239	8	1683	9	1334	8	1354	10	1431	18	1499
Calhoun	7	1246	6	1219	3	1145	13	1064	10	1066	8	1066	8	1111	7	1130	5	1191	9	1289	8	1310
Carroll	20	1461	15	1350	10	1231	10	1130	10	1164	10	1165	15	1165	15	1177	14	1167	20	1260	12	1295
Cass	18	1466	22	1432	19	1391	26	1334	18	1367	27	1391	24	1444	21	1459	18	1475	18	1531	21	1602
Cedar	14	1676	19	1674	23	1636	22	1574	11	1575	10	1593	18	1576	14	1618	20	1659	27	1781	23	1836
Cerro Gordo	122	3066	66	3012	80	2956	96	2905	70	3160	93	3194	60	3231	223	3269	74	3520	101	3623	77	3471
Cherokee	25	1266	8	1248	17	1219	16	1206	19	1228	18	1196	19	1276	8	1267	8	1332	12	1362	15	1419
Chickasaw	14	1119	5	1110	15	1068	17	1075	9	1099	15	1136	13	1187	16	1244	17	1299	15	1369	10	1431
Clarke	22	786	8	761	17	775	12	746	20	727	10	720	7	743	12	767	4	804	9	771	11	816
Clay	32	1481	19	1653	25	1595	15	1495	17	1469	25	1459	19	1421	37	1429	19	1535	21	1574	32	1640
Clayton	19	1799	20	1738	16	1704	28	1680	11	1746	19	1732	16	1726	16	1744	19	1744	23	1828	27	1900
Clinton	103	4094	87	4064	133	4075	175	3914	92	4229	109	4227	77	4345	103	4576	89	4815	92	5037	94	5192
Crawford	17	1404	14	1407	42	1505	18	1491	21	1551	12	1559	16	1691	10	1715	10	1749	13	1781	18	1792
Dallas	57	3041	98	2929	69	2774	64	2697	40	2705	30	2736	67	2759	62	2874	75	2946	39	3018	46	2999
Davis	11	656	13	637	9	651	13	606	15	670	9	667	11	694	11	694	12	702	14	728	13	744
Decatur	9	594	13	640	12	690	14	642	13	643	12	664	13	725	11	716	9	720	13	758	18	817
Delaware	19	1734	13	1600	8	1536	21	1471	18	1484	26	1521	23	1543	35	1625	26	1740	28	1809	18	1855
Des Moines	60	3358	53	3199	48	3179	70	3113	68	3573	79	3469	55	3581	116	3917	178	3790	179	3994	189	3791
Dickinson	13	1323	13	1315	16	1246	12	1199	12	1277	10	1245	25	1184	15	1274	15	1306	14	1350	15	1333
Dubuque	145	6063	148	5842	116	5635	130	5546	140	6088	201	6262	150	6554	146	6781	145	6845	205	7119	170	7191
Emmet	13	1133	10	1087	11	1064	16	1018	18	1100	17	1110	24	1124	12	1145	18	1129	21	1189	10	1221
Fayette	26	2108	39	2124	25	2026	19	2003	27	2036	17	2072	32	2189	28	2257	15	2384	33	2497	46	2653
Floyd	20	1493	28	1521	32	1483	33	1443	33	1540	27	1630	33	1683	28	1611	20	1745	17	1867	39	1888
Franklin	21	944	12	900	18	873	19	852	9	821	12	757	8	770	7	810	16	819	12	828	9	890
Fremont	15	812	12	802	10	802	10	721	14	752	12	769	16	780	23	768	11	805	12	820	11	792



Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1984-1994 (continued).<sup>1</sup>

County	1994 <sup>2</sup>		1993		1992		1991		1990		1989		1988		1987		1986		1985		1984	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Greene	11	842	8	818	13	817	10	776	23	809	14	792	9	828	6	866	10	931	8	1009	13	1017
Grundy	12	1313	12	1303	8	1047	8	1008	4	1063	8	1090	7	1117	3	1160	8	1210	13	1296	7	1324
Guthrie	8	1098	7	1081	13	1083	16	1101	10	1087	8	1083	20	1122	14	1148	8	1242	8	1288	21	1338
Hamilton	25	1389	23	1406	25	1322	19	1305	20	1380	29	1405	15	1463	16	1498	25	1534	27	1580	10	1619
Hancock	7	1156	7	1102	4	1111	6	1087	7	1053	2	1082	5	1075	5	1072	5	1064	7	1098	5	1123
Hardin	31	1676	33	1685	24	1739	18	1657	18	1764	25	1786	14	1871	21	1905	15	1986	19	2105	23	2191
Harrison	20	1424	22	1380	27	1381	19	1350	24	1391	27	1400	26	1453	26	1525	32	1566	33	1625	23	1642
Henry	32	1760	28	1769	21	1680	27	1636	32	1661	34	1657	18	1670	24	1693	27	1735	32	1712	26	1732
Howard	9	1106	10	1061	3	991	4	970	10	968	7	884	4	922	9	979	6	1020	2	1072	17	1164
Humboldt	7	908	11	866	8	841	7	858	6	839	11	847	11	859	9	891	9	959	18	1008	10	1069
Ida	14	778	1	664	2	652	6	649	3	689	3	683	6	654	5	657	3	658	0	660	2	659
Iowa	5	1277	6	1244	6	1196	3	1146	11	1125	11	1132	8	1193	6	1250	10	1288	12	1352	12	1438
Jackson	40	1789	28	1751	25	1722	26	1666	30	1721	38	1780	24	1749	27	1848	23	1930	32	1998	25	2192
Jasper	44	2973	56	2949	39	2875	57	2768	114	2948	83	2933	120	3099	99	3124	85	3130	78	3228	64	3269
Jefferson	16	803	33	843	24	795	20	797	23	855	30	866	22	949	18	1001	22	1052	19	1100	11	1134
Johnson	60	4858	64	4705	46	4490	47	4239	177	4636	135	4610	130	4740	94	4869	123	4739	87	4792	87	4833
Jones	47	1727	34	1634	18	1461	22	1471	34	1609	14	1559	28	1606	28	1730	14	1788	14	1856	17	1913
Keokuk	19	1132	13	1073	15	1018	14	1010	6	1042	12	1084	10	1095	12	1095	14	1128	10	1185	6	1202
Kossuth	11	1240	13	1195	9	1131	8	1101	17	1123	11	1101	10	1109	16	1178	21	1211	13	1303	10	1366
Lee	122	3037	94	2912	81	2851	83	2696	88	2993	101	2845	77	2946	103	3044	105	3117	114	3182	102	3200
Linn	153	12837	135	12557	218	12098	149	11930	292	13815	433	14302	331	14150	414	14443	345	14943	308	15559	299	15912
Louisa	27	1314	13	1319	25	1213	24	1179	36	1268	39	1236	37	1298	27	1288	25	1308	32	1350	36	1381
Lucas	16	782	15	754	10	701	12	675	18	714	26	726	25	775	19	761	24	798	32	817	26	836
Lyon	8	1130	5	1031	4	1020	9	972	5	979	2	974	8	998	4	1026	1	1054	4	1071	4	1081
Madison	15	1377	8	1304	9	1217	21	1232	27	1302	14	1268	30	1326	25	1317	19	1325	25	1335	15	1346
Mahaska	81	1410	35	1388	28	1346	28	1370	24	1369	40	1376	39	1420	50	1482	28	1497	45	1542	46	1522
Marion	31	2424	34	2364	38	2347	32	2313	45	2346	32	2380	39	2431	44	2401	35	2467	48	2574	44	2620
Marshall	19	2852	22	2817	45	2795	70	2711	97	3087	109	3083	75	3181	66	3375	59	3474	55	3765	67	3859
Mills	28	1172	25	1160	25	1115	18	1165	20	1179	17	1175	17	1206	14	1193	26	1287	9	1237	13	1234
Mitchell	5	873	10	858	9	843	10	816	14	840	3	903	8	917	1	917	8	915	10	927	13	961
Monona	15	847	19	834	14	832	16	835	14	851	12	848	13	872	13	874	13	921	21	930	15	939
Monroe	13	592	14	590	19	579	12	551	15	591	11	576	15	585	29	611	19	654	15	693	23	723
Montgomery	15	961	13	986	23	963	16	881	16	985	15	971	20	983	22	986	23	1003	13	1023	38	1070
Muscatine	158	3475	114	3446	87	3288	80	3144	86	3253	118	3386	97	3414	83	3413	110	3342	127	3508	156	3634
O'Brien	11	1347	21	1336	16	1295	16	1294	16	1343	20	1322	10	1346	14	1344	8	1357	7	1377	21	1424
Osceola	1	444	7	433	2	408	7	391	9	441	3	433	8	457	3	469	2	455	1	498	2	490

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1984-1994 (continued).<sup>1</sup>

County	1994 <sup>2</sup>		1993		1992		1991		1990		1989		1988		1987		1986		1985		1984	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Page	32	1508	33	1506	28	1482	41	1454	33	1530	37	1495	37	1485	30	1463	21	1475	26	1509	29	1478
Palo Alto	17	1031	11	1021	11	959	12	955	7	952	18	941	7	935	4	949	8	974	7	1035	15	1109
Plymouth	7	2077	14	1972	19	1887	24	1788	32	1816	36	1818	9	1800	16	1798	22	1847	17	1895	19	1908
Pocahontas	6	638	6	748	10	729	9	812	13	758	4	779	7	839	2	838	3	869	3	930	5	967
Polk	610	23772	579	23006	820	21952	994	21201	889	23436	952	23710	1064	23888	1082	24939	1124	25705	1125	26111	924	26365
Pottawattamie	142	6864	120	6633	113	6516	175	6225	255	6421	332	6620	376	6863	348	6877	376	7194	302	7172	287	7501
Poweshiek	30	1427	27	1369	28	1257	31	1252	21	1333	29	1394	34	1498	20	1502	15	1561	25	1580	16	1593
Ringgold	5	441	13	449	10	457	3	413	3	432	8	446	2	459	3	471	3	490	6	484	3	521
Sac	25	1114	19	1098	11	1080	8	1006	7	1025	16	1032	6	1024	12	1052	11	1086	10	1124	6	1196
Scott	453	12594	631	12300	527	12106	540	11811	523	12558	511	12545	526	12996	454	13429	435	13900	480	14538	433	15073
Shelby	16	1337	12	1224	3	1218	8	1083	17	1111	18	1236	19	1200	19	1245	0	1267	19	1380	14	1452
Sioux	10	1929	16	1830	16	1478	13	1614	15	1653	13	1675	14	1673	16	1669	12	1690	13	1774	12	1867
Story	57	4724	58	4617	43	4291	57	4126	48	4155	42	4228	52	4249	45	4263	53	4494	59	4676	60	4709
Tama	39	1432	31	1556	32	1506	21	1468	18	1473	16	1407	11	1624	36	1649	37	1658	35	1740	25	1842
Taylor	4	561	2	538	5	503	4	527	6	540	4	623	2	651	1	655	4	689	7	749	2	732
Union	29	1132	18	1062	20	1082	13	1073	23	1166	14	1166	15	1142	12	1183	8	1231	15	1247	15	1207
Van Buren	8	662	16	644	12	621	9	599	13	639	9	624	6	643	10	657	10	716	13	723	11	744
Wapello	77	3031	110	3011	124	2949	70	2854	62	2932	72	3134	119	3204	64	3301	76	3359	69	3438	52	3508
Warren	81	3400	34	3206	33	3190	45	2960	76	3122	72	3215	59	3309	49	3348	42	3445	49	3519	32	3530
Washington	41	1546	38	1498	41	1465	26	1472	25	1541	23	1549	37	1573	23	1566	33	1632	19	1724	21	1774
Wayne	4	561	5	570	4	592	18	567	12	566	10	582	10	579	2	588	10	595	11	604	10	629
Webster	83	2586	73	2548	72	2557	64	2394	71	2456	110	2573	125	2791	106	2869	133	3034	69	3208	52	3233
Winnebago	25	1276	30	1254	20	1237	14	1182	19	1237	16	1261	14	1225	10	1239	20	1247	9	1302	8	1303
Winneshiek	23	1367	22	1283	17	1209	9	1206	10	1200	8	1270	9	1267	10	1337	8	1366	13	1397	21	1426
Woodbury	297	7639	280	7472	252	7660	287	7203	219	8046	216	7941	203	8836	207	8710	155	8712	183	8880	185	8747
Worth	10	529	9	531	6	515	7	495	12	495	5	525	10	556	5	585	3	616	5	645	7	659
Wright	10	1252	10	1198	10	1201	10	1118	12	1210	14	1204	17	1231	6	1228	10	1296	18	1366	11	1424
State of Iowa	4645	219708	4768	214157	4783	207948	5030	201742	5270	213888	5652	216251	5498	222112	5574	227144	5343	233453	5529	241973	5109	246788

<sup>1</sup>This table includes public school dropouts from grades 7 through 12 and nongraded secondary special education classes. Dropouts are students who withdraw before graduation or completion of a secondary school program for reasons other than death or transfer to another approved program. Students may have been counted in the enrollment of a county different from that in which they lived because school district boundaries do not necessarily coincide with county lines and because school districts may have cooperative sharing agreements.

<sup>2</sup>This refers to the state's fiscal year; the label "1994" covers the period from 1 July 1993 through 30 June 1994, for example.

Table 2. Percentage of Public Secondary School Dropouts in Iowa Counties, 1984-1994.

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	0.5	2.0	0.4	0.6	0.8	0.0	0.0	0.8	1.1	0.3	0.5
Adams	0.9	0.6	4.0	3.0	3.3	0.8	0.8	0.8	1.1	0.3	1.4
Allamakee	0.3	1.4	0.9	2.0	1.0	2.0	0.9	1.2	1.0	0.7	1.0
Appanoose	3.1	3.7	3.7	3.8	3.8	2.9	2.5	4.8	2.1	2.8	2.8
Audubon	1.2	1.1	0.2	1.6	0.0	1.1	0.9	0.3	1.0	0.6	1.5
Benton	1.9	2.2	1.5	1.7	1.8	1.4	1.8	1.1	1.4	1.8	1.7
Black Hawk	3.9	7.0	7.0	6.4	6.4	6.4	5.1	4.6	4.3	4.9	3.7
Boone	2.8	2.5	1.4	1.3	2.0	2.5	1.6	2.3	1.6	1.9	2.1
Bremer	0.5	0.8	0.5	0.7	1.2	0.8	1.0	1.0	1.0	1.0	0.6
Buchanan	2.4	2.7	1.6	1.3	1.4	1.9	1.9	2.4	1.4	2.3	2.4
Buena Vista	1.6	2.3	2.3	2.1	2.0	1.8	1.8	2.0	1.3	1.2	0.9
Butler	0.7	0.5	0.4	1.1	1.0	0.9	0.5	0.7	0.6	0.7	1.2
Calhoun	0.6	0.5	0.3	1.2	0.9	0.8	0.7	0.6	0.4	0.7	0.6
Carroll	1.4	1.1	0.8	0.9	0.9	0.9	1.3	1.3	1.2	1.6	0.9
Cass	1.2	1.5	1.4	1.9	1.3	1.9	1.7	1.4	1.2	1.2	1.3
Cedar	0.8	1.1	1.4	1.4	0.7	0.6	1.1	0.9	1.2	1.5	1.3
Cerro Gordo	4.0	2.2	2.7	3.3	2.2	2.9	1.9	6.8	2.1	2.8	2.2
Cherokee	2.0	0.6	1.4	1.3	1.6	1.5	1.5	0.6	0.6	0.9	1.1
Chickasaw	1.3	0.5	1.4	1.6	0.8	1.3	1.1	1.3	1.3	1.1	0.7
Clarke	2.8	1.1	2.2	1.6	2.8	1.4	0.9	1.6	0.5	1.2	1.3
Clay	2.2	1.1	1.6	1.0	1.2	1.7	1.3	2.6	1.2	1.3	2.0
Clayton	1.1	1.2	0.9	1.7	0.6	1.1	0.9	0.9	1.1	1.3	1.4
Clinton	2.5	2.1	3.3	4.5	2.2	2.6	1.8	2.3	1.8	1.8	1.8
Crawford	1.2	1.0	2.8	1.2	1.4	0.8	0.9	0.6	0.6	0.7	1.0
Dallas	1.9	3.3	2.5	2.4	1.5	1.1	2.4	2.2	2.5	1.3	1.5
Davis	1.7	2.0	1.4	2.1	2.2	1.3	1.6	1.6	1.7	1.9	1.7
Decatur	1.5	2.0	1.7	2.2	2.0	1.8	1.8	1.5	1.3	1.7	2.2
Delaware	1.1	0.8	0.5	1.4	1.2	1.7	1.5	2.2	1.5	1.5	1.0
Des Moines	1.8	1.7	1.5	2.2	1.9	2.3	1.5	3.0	4.7	4.5	5.0
Dickinson	1.0	1.0	1.3	1.0	0.9	0.8	2.1	1.2	1.1	1.0	1.1
Dubuque	2.4	2.5	2.1	2.3	2.3	3.2	2.3	2.2	2.1	2.9	2.4
Emmet	1.1	0.9	1.0	1.6	1.6	1.5	2.1	1.0	1.6	1.8	0.8
Fayette	1.2	1.8	1.2	0.9	1.3	0.8	1.5	1.2	0.6	1.3	1.7
Floyd	1.3	1.8	2.2	2.3	2.1	1.7	2.0	1.7	1.1	0.9	2.1
Franklin	2.2	1.3	2.1	2.2	1.1	1.6	1.0	0.9	2.0	1.4	1.0
Fremont	1.8	1.5	1.2	1.4	1.9	1.6	2.1	3.0	1.4	1.5	1.4
Greene	1.3	1.0	1.6	1.3	2.8	1.8	1.1	0.7	1.1	0.8	1.3
Grundy	0.9	0.9	0.8	0.8	0.4	0.7	0.6	0.3	0.7	1.0	0.5
Guthrie	0.7	0.6	1.2	1.5	0.9	0.7	1.8	1.2	0.6	0.6	1.6
Hamilton	1.8	1.6	1.9	1.5	1.4	2.1	1.0	1.1	1.6	1.7	0.6
Hancock	0.6	0.6	0.4	0.6	0.7	0.2	0.5	0.5	0.5	0.6	0.4
Hardin	1.8	2.0	1.4	1.1	1.0	1.4	0.7	1.1	0.8	0.9	1.0
Harrison	1.4	1.6	2.0	1.4	1.7	1.9	1.8	1.7	2.0	2.0	1.4
Henry	1.8	1.6	1.2	1.7	1.9	2.1	1.1	1.4	1.6	1.9	1.5
Howard	0.8	0.9	0.3	0.4	1.0	0.8	0.4	0.9	0.6	0.2	1.5
Humboldt	0.8	1.3	1.0	0.8	0.7	1.3	1.3	1.0	0.9	1.8	0.9
Ida	1.8	0.2	0.3	0.9	0.4	0.4	0.9	0.8	0.5	0.0	0.3
Iowa	0.4	0.5	0.5	0.3	1.0	1.0	0.7	0.5	0.8	0.9	0.8
Jackson	2.2	1.6	1.4	1.6	1.7	2.1	1.4	1.5	1.2	1.6	1.1
Jasper	1.5	1.9	1.4	2.1	3.9	2.8	3.9	3.2	2.7	2.4	2.0

Figure 1. Dropouts from public secondary schools in Iowa, 1980-1994.

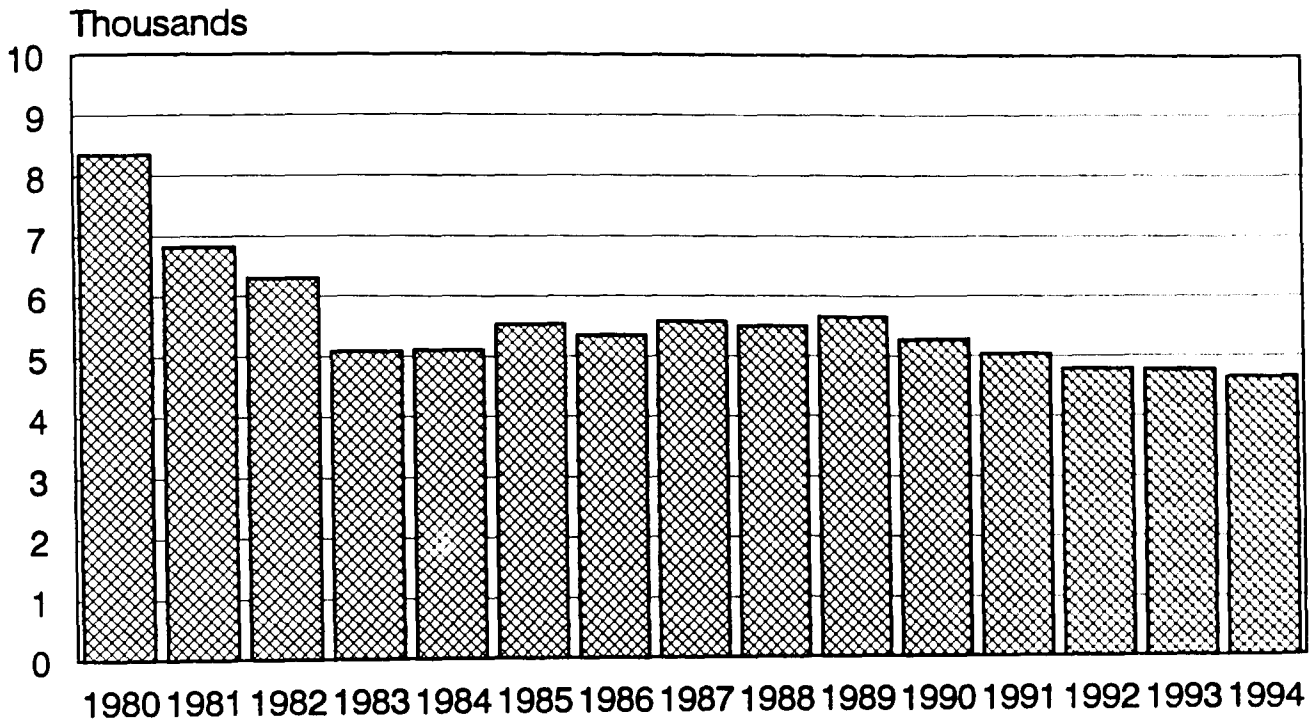


Figure 2. Dropouts as percent of public secondary school enrollees in Iowa, 1980-1994.

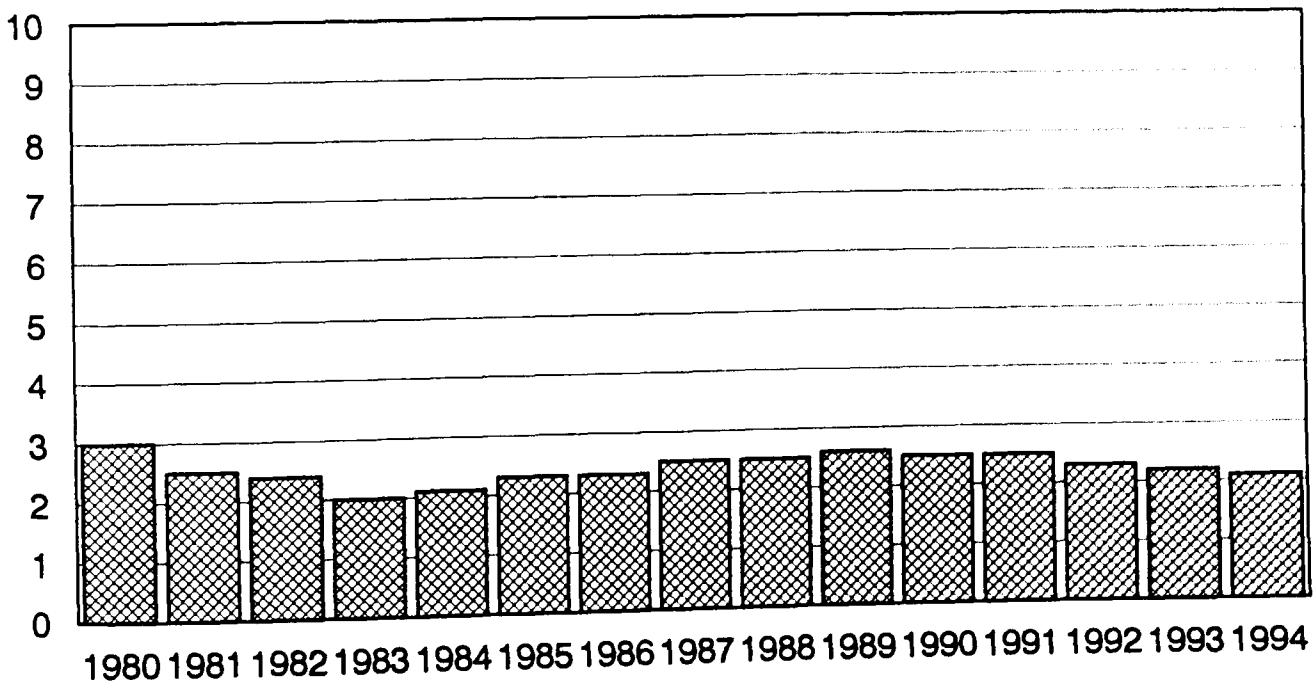


Table 2. Percentage of Public Secondary School Dropouts in Iowa Counties, 1984-1994 (continued).

County	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984
Jefferson	2.0	3.9	3.0	2.5	2.7	3.5	2.3	1.8	2.1	1.7	1.0
Johnson	1.2	1.4	1.0	1.1	3.8	2.9	2.7	1.9	2.6	1.8	1.8
Jones	2.7	2.1	1.2	1.5	2.1	0.9	1.7	1.6	0.8	0.8	0.9
Keokuk	1.7	1.2	1.5	1.4	0.6	1.1	0.9	1.1	1.2	0.8	0.5
Kossuth	0.9	1.1	0.8	0.7	1.5	1.0	0.9	1.4	1.7	1.0	0.7
Lee	4.0	3.2	2.8	3.1	2.9	3.6	2.6	3.4	3.4	3.6	3.2
Linn	1.2	1.1	1.8	1.2	2.1	3.0	2.3	2.9	2.3	2.0	1.9
Louisa	2.1	1.0	2.1	2.0	2.8	3.2	2.9	2.1	1.9	2.4	2.6
Lucas	2.0	2.0	1.4	1.8	2.5	3.6	3.2	2.5	3.0	3.9	3.1
Lyon	0.7	0.5	0.4	0.9	0.5	0.2	0.8	0.4	0.1	0.4	0.4
Madison	1.1	0.6	0.7	1.7	2.1	1.1	2.3	1.9	1.4	1.9	1.1
Mahaska	5.7	2.5	2.1	2.0	1.8	2.9	2.7	3.4	1.9	2.9	3.0
Marion	1.3	1.4	1.6	1.4	1.9	1.3	1.6	1.8	1.4	1.9	1.7
Marshall	0.7	0.8	1.6	2.6	3.1	3.5	2.4	2.0	1.7	1.5	1.7
Mills	2.4	2.2	2.2	1.5	1.7	1.4	1.4	1.2	2.0	0.7	1.1
Mitchell	0.6	1.2	1.1	1.2	1.7	0.3	0.9	0.1	0.9	1.1	1.4
Monona	1.8	2.3	1.7	1.9	1.6	1.4	1.5	1.5	1.4	2.3	1.6
Monroe	2.2	2.4	3.3	2.2	2.5	1.9	2.6	4.7	2.9	2.2	3.2
Montgomery	1.6	1.3	2.4	1.8	1.6	1.5	2.0	2.2	2.3	1.3	3.6
Muscatine	4.5	3.3	2.6	2.5	2.6	3.5	2.8	2.4	3.3	3.6	4.3
O'Brien	0.8	1.6	1.2	1.2	1.2	1.5	0.7	1.0	0.6	0.5	1.5
Osceola	0.2	1.6	0.5	1.8	2.0	0.7	1.8	0.6	0.4	0.2	0.4
Page	2.1	2.2	1.9	2.8	2.2	2.5	2.5	2.1	1.4	1.7	2.0
Palo Alto	1.6	1.1	1.2	1.3	0.7	1.9	0.7	0.4	0.8	0.7	1.4
Plymouth	0.3	0.7	1.0	1.3	1.8	2.0	0.5	0.9	1.2	0.9	1.0
Pocahontas	0.9	0.8	1.4	1.1	1.7	0.5	0.8	0.2	0.3	0.3	0.5
Polk	2.6	2.5	3.7	4.7	3.8	4.0	4.5	4.3	4.4	4.3	3.5
Pottawattamie	2.1	1.8	1.7	2.8	4.0	5.0	5.5	5.1	5.2	4.2	3.8
Poweshiek	2.1	2.0	2.2	2.5	1.6	2.1	2.3	1.3	1.0	1.6	1.0
Ringgold	1.1	2.9	2.2	0.7	0.7	1.8	0.4	0.6	0.6	1.2	0.6
Sac	2.2	1.7	1.0	0.8	0.7	1.6	0.6	1.1	1.0	0.9	0.5
Scott	3.6	5.1	4.4	4.6	4.2	4.1	4.0	3.4	3.1	3.3	2.9
Shelby	1.2	1.0	0.2	0.7	1.5	1.5	1.6	1.5	0.0	1.4	1.0
Sioux	0.5	0.9	1.1	0.8	0.9	0.8	0.8	1.0	0.7	0.7	0.6
Story	1.2	1.3	1.0	1.4	1.2	1.0	1.2	1.1	1.2	1.3	1.3
Tama	2.7	2.0	2.1	1.4	1.2	1.1	0.7	2.2	2.2	2.0	1.4
Taylor	0.7	0.4	1.0	0.8	1.1	0.6	0.3	0.2	0.6	0.9	0.3
Union	2.6	1.7	1.8	1.2	2.0	1.2	1.3	1.0	0.6	1.2	1.2
Van Buren	1.2	2.5	1.9	1.5	2.0	1.4	0.9	1.5	1.4	1.8	1.5
Wapello	2.5	3.7	4.2	2.5	2.1	2.3	3.7	1.9	2.3	2.0	1.5
Warren	2.4	1.1	1.0	1.5	2.4	2.2	1.8	1.5	1.2	1.4	0.9
Washington	2.7	2.5	2.8	1.8	1.6	1.5	2.4	1.5	2.0	1.1	1.2
Wayne	0.7	0.9	0.7	3.2	2.1	1.7	1.7	0.3	1.7	1.8	1.6
Webster	3.2	2.9	2.8	2.7	2.9	4.3	4.5	3.7	4.4	2.2	1.6
Winnebago	2.0	2.4	1.6	1.2	1.5	1.3	1.1	0.8	1.6	0.7	0.6
Winneshiek	1.7	1.7	1.4	0.7	0.8	0.6	0.7	0.7	0.6	0.9	1.5
Woodbury	3.9	3.7	3.3	4.0	2.7	2.7	2.3	2.4	1.8	2.1	2.1
Worth	1.9	1.7	1.2	1.4	2.4	1.0	1.8	0.9	0.5	0.8	1.1
Wright	0.8	0.8	0.8	0.9	1.0	1.2	1.4	0.5	0.8	1.3	0.8
State of Iowa	2.1	2.2	2.3	2.5	2.5	2.6	2.5	2.5	2.3	2.3	2.1

## **Students Receiving Free or Reduced-Price School Meals in Iowa's Counties: 1984-1995**

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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 1984-1985 through 1994-1995. 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 1994-1995, 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 1994-1995 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 89,000, the lowest number of the period, only to increase to more than 106,000 again in 1994-1995, the highest figure across the years examined.

During the 1994-1995 school year, Black Hawk, Linn, Polk, and Scott averaged at least 5,000 students receiving free meals each month. Eighteen 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 1994-1995 school year was nearly 11,100 higher than 10 years earlier in 1984-1985. Sixty-five counties also had more students in the program in 1994-1995 than in 1984-1985. Buena Vista, Muscatine, Polk, Pottawattamie, Scott, and Woodbury had increases greater than 500; another 23 gained at least 100. Of the 34 counties with fewer students in the program in 1994-1995 than 10 years earlier, Buchanan, Dubuque, Floyd, Humboldt, Mahaska, Monona, Plymouth, and Wapello dropped by at least 100; Dubuque was the only county with a decline greater than 200, however.

Table 1. Average Number of Students Receiving Free Meals in Selected Months\* in Iowa Counties, 1984-1995.

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Adair	311	326	312	289	304	238	212	253	334	329	253
Adams	193	187	173	156	161	162	175	149	203	198	163
Allamakee	598	553	572	515	481	491	505	580	642	653	595
Appanoose	855	835	829	842	844	811	819	940	911	958	868
Audubon	221	227	212	248	232	194	200	239	278	280	223
Benton	734	742	806	828	843	822	747	767	903	844	777
Black Hawk	5694	5244	5081	5016	4835	4828	4931	5291	6494	5906	5293
Boone	606	590	599	566	511	510	526	546	630	672	645
Bremer	789	727	747	691	645	603	675	854	1103	979	732
Buchanan	733	762	762	792	724	694	733	779	926	918	838
Buena Vista	1168	987	833	783	743	704	674	686	730	660	587
Butler	502	511	486	499	455	484	444	515	651	626	434
Calhoun	523	516	519	495	451	363	420	466	556	572	408
Carroll	738	497	613	754	654	743	711	718	863	839	623
Cass	734	709	678	699	617	648	656	682	714	711	634
Cedar	471	476	478	441	368	392	411	434	446	445	436
Cerro Gordo	1496	1434	1427	1341	1321	1267	1289	1338	1418	1466	1222
Cherokee	520	540	519	496	465	462	506	539	588	593	507
Chickasaw	416	468	413	433	403	408	433	474	555	585	464
Clarke	517	515	528	451	390	383	439	502	481	520	429
Clay	560	567	518	623	592	578	611	689	672	680	502
Clayton	820	689	593	668	667	553	674	736	924	955	802
Clinton	1752	1714	1649	1541	1484	1483	1549	1612	1744	1862	1670
Crawford	749	748	681	728	744	799	723	779	830	810	648
Dallas	1002	953	1098	948	835	790	757	843	900	953	950
Davis	340	358	376	357	330	310	306	383	422	440	395
Decatur	531	565	562	525	484	470	464	465	501	486	421
Delaware	689	703	694	642	619	631	679	659	821	829	696
Des Moines	1572	1520	1462	1559	1535	1448	1499	1472	1405	1505	1468
Dickinson	443	431	391	421	430	457	505	528	565	592	504
Dubuque	3008	3007	2899	2835	2731	2813	2894	3157	3933	3663	3477
Emmet	749	651	561	589	534	571	632	623	684	662	550
Fayette	1032	1039	972	970	953	943	954	1076	1219	1217	1112
Floyd	904	940	888	893	888	852	918	993	1022	1074	1009
Franklin	367	347	356	376	327	350	340	337	400	410	340
Fremont	396	369	425	375	335	333	279	374	409	445	417
Greene	471	426	409	425	391	342	383	352	418	457	434
Grundy	367	394	396	305	276	244	229	277	345	286	264
Guthrie	519	487	505	503	464	428	480	587	677	660	605
Hamilton	580	566	596	551	534	492	508	558	557	593	527
Hancock	427	447	441	470	407	357	347	410	447	441	276
Hardin	1035	1046	1050	1106	1007	1062	960	1004	1078	1138	997
Harrison	806	664	728	744	687	652	665	706	747	795	757
Henry	558	641	641	639	571	532	492	522	564	593	573
Howard	496	520	473	479	431	443	515	532	592	624	554
Humboldt	297	323	303	305	289	305	311	369	411	491	453
Ida	309	301	334	257	243	234	245	294	327	316	280
Iowa	401	411	375	334	347	306	308	349	373	398	319
Jackson	860	821	783	797	756	784	817	885	1061	1052	931
Jasper	968	904	832	841	747	753	720	791	864	937	892

\*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, 1984-1995  
(continued).

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Jefferson	320	291	326	302	283	263	257	281	342	327	328
Johnson	1475	1376	1379	1292	1243	1208	1198	1241	1201	1233	1020
Jones	682	669	620	594	580	583	602	603	759	696	650
Keokuk	479	529	537	514	500	475	421	490	507	564	501
Kossuth	779	789	729	705	613	590	598	713	836	823	536
Lee	1715	1728	1397	1363	1238	1209	1266	1334	1389	1497	1327
Linn	5752	5712	5627	5446	5096	4659	4669	4874	5090	5486	5375
Louisa	615	646	606	514	514	482	416	445	482	558	481
Lucas	420	408	376	334	293	281	297	326	374	388	405
Lyon	352	372	392	366	319	367	414	479	557	547	434
Madison	439	484	476	472	410	445	437	448	567	616	496
Mahaska	791	885	831	814	792	788	826	901	939	975	893
Marion	939	863	863	820	741	654	753	791	840	921	887
Marshall	1569	1563	1435	1380	1297	1155	1128	1174	1573	1248	1213
Mills	540	557	532	511	425	444	440	444	505	498	524
Mitchell	322	339	339	340	324	313	353	423	462	362	331
Monona	430	484	509	534	573	539	576	585	591	639	552
Monroe	391	367	365	364	358	321	349	389	425	425	386
Montgomery	404	369	401	388	338	345	331	365	395	402	375
Muscatine	1854	1837	1918	1836	1766	1587	1514	1492	1455	1322	1238
O'Brien	626	570	543	522	469	453	501	564	623	600	449
Osceola	169	168	162	172	145	163	155	173	217	230	198
Page	769	801	750	615	584	604	565	653	724	680	645
Palo Alto	506	595	600	565	579	532	557	625	669	679	481
Plymouth	678	620	643	680	606	750	803	830	885	987	829
Pocahontas	294	308	421	392	383	307	314	355	418	435	385
Polk	12053	11088	10857	10257	9244	8691	8746	9288	9548	9744	9449
Pottawattamie	4493	4227	3944	3747	3399	3112	3091	3206	3121	3267	3205
Poweshiek	482	470	502	445	423	365	371	399	420	488	416
Ringgold	371	344	324	358	302	315	317	312	323	338	346
Sac	612	595	551	572	517	524	546	572	617	630	534
Scott	6845	6749	6533	6415	5859	5884	5607	5754	5729	5795	5607
Shelby	675	653	644	555	493	441	435	489	517	448	393
Sioux	1085	1023	1073	1008	989	989	1050	1246	1451	1431	1135
Story	1438	1333	1313	1302	1251	1213	1220	1287	1315	1273	1132
Tama	856	847	976	879	785	720	757	820	926	949	792
Taylor	394	388	392	381	384	371	394	445	482	559	468
Union	624	606	609	554	542	541	550	555	611	606	552
Van Buren	392	404	372	354	342	337	333	335	364	406	412
Wapello	1977	1894	1874	1944	1967	2034	2050	2166	2346	2234	2154
Warren	864	817	798	744	645	604	628	868	725	771	725
Washington	587	536	505	545	536	533	518	562	611	597	488
Wayne	448	424	419	365	330	343	356	359	382	406	387
Webster	1633	1790	1634	1514	1533	1481	1516	1592	1588	1789	1641
Winnebago	420	395	403	361	404	356	347	378	456	485	409
Winneshiek	498	542	504	490	482	491	529	534	599	642	524
Woodbury	4579	4420	4496	4430	4211	3994	4070	4111	4320	4189	3928
Worth	252	206	232	198	191	193	181	195	241	261	192
Wright	594	514	486	424	439	410	390	471	490	502	445
State of Iowa	106313	102994	100798	97820	91826	88983	90009	96058	104328	105037	95225



Table 2. Average Number of Students Receiving Reduced-Price Meals in Selected Months\* in Iowa Counties, 1984-1995.

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Adair	122	128	121	110	73	92	106	111	79	100	113
Adams	78	62	59	61	52	48	65	59	68	65	70
Allamakee	279	275	252	269	256	225	205	188	175	203	181
Appanoose	172	200	195	191	176	182	171	139	146	148	161
Audubon	87	100	78	91	84	61	64	61	63	65	69
Benton	257	260	291	292	293	213	263	326	276	252	230
Black Hawk	1061	1218	1177	1142	1152	985	1004	1068	1216	1095	1117
Boone	205	223	226	224	222	233	206	198	221	209	205
Bremer	305	316	308	287	305	294	278	254	289	230	208
Buchanan	243	201	201	216	196	218	177	192	207	206	176
Buena Vista	417	408	315	290	271	229	215	287	281	262	259
Butler	195	220	243	220	248	151	178	167	180	178	167
Calhoun	239	263	260	207	167	196	147	165	163	149	127
Carroll	401	267	327	416	355	335	348	332	349	298	289
Cass	252	243	269	203	271	222	250	243	267	266	235
Cedar	189	160	195	188	179	178	179	177	160	138	130
Cerro Gordo	579	527	488	457	437	433	476	486	499	402	383
Cherokee	220	224	233	192	185	184	192	189	192	223	214
Chickasaw	209	186	189	168	197	202	169	186	198	149	160
Clarke	163	164	135	113	108	88	96	75	132	82	63
Clay	237	257	268	316	292	284	230	223	265	273	185
Clayton	309	259	263	276	313	240	251	231	258	276	254
Clinton	369	403	418	331	367	342	291	287	326	315	318
Crawford	288	341	322	347	299	277	280	279	310	302	297
Dallas	395	412	440	387	380	287	279	325	353	346	299
Davis	128	134	103	102	97	97	92	88	90	80	108
Decatur	153	148	134	127	118	105	109	115	105	87	113
Delaware	191	200	189	191	170	154	149	123	127	142	175
Des Moines	324	348	317	339	335	317	332	377	334	290	324
Dickinson	183	196	194	204	154	164	145	129	133	125	131
Dubuque	1243	1184	1224	1101	1058	958	936	996	970	1026	1021
Emmet	215	204	206	244	216	201	192	227	203	229	200
Fayette	383	361	361	321	275	250	254	252	296	288	330
Floyd	261	237	245	230	226	240	229	264	272	257	229
Franklin	162	186	218	169	194	155	149	169	126	96	89
Fremont	173	143	170	142	136	108	95	117	114	111	101
Greene	205	197	196	195	163	173	205	189	182	161	134
Grundy	235	178	204	125	122	119	129	135	140	108	99
Guthrie	170	199	220	191	158	151	169	158	158	213	146
Hamilton	277	261	243	237	221	189	174	203	214	206	197
Hancock	172	213	191	194	236	186	193	200	186	170	152
Hardin	292	282	282	243	268	233	274	253	268	259	273
Harrison	299	240	277	261	242	241	245	231	250	230	267
Henry	188	213	230	223	173	167	182	173	200	228	190
Howard	325	275	271	263	218	166	161	161	174	148	131
Humboldt	196	184	178	188	170	151	169	185	195	164	172
Ida	174	178	150	152	163	140	150	148	164	113	94
Iowa	202	182	206	221	220	165	167	163	184	184	162
Jackson	261	298	268	275	223	205	191	170	181	208	206
Jasper	299	322	313	251	261	218	195	192	232	243	304

\*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, 1984-1995 (continued).

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Jefferson	63	86	96	80	55	68	74	57	57	85	83
Johnson	378	388	395	370	399	382	346	322	354	345	351
Jones	274	258	219	254	244	207	162	192	152	185	160
Keokuk	161	130	150	162	152	143	120	110	109	85	93
Kossuth	392	317	350	248	242	251	286	290	264	270	214
Lee	324	316	295	280	270	261	285	315	315	309	295
Linn	1757	1753	1556	1512	1476	1250	1246	1297	1400	1520	1460
Louisa	177	144	123	121	111	115	138	104	136	99	125
Lucas	89	86	96	85	104	97	105	95	110	97	84
Lyon	184	182	168	170	145	213	223	208	175	170	152
Madison	186	189	200	207	247	200	228	254	204	195	180
Mahaska	275	245	222	222	241	235	219	180	245	252	228
Marion	336	293	332	378	349	328	261	266	258	296	289
Marshall	392	380	439	422	355	332	320	349	428	342	383
Mills	189	177	162	154	188	117	67	118	100	146	114
Mitchell	183	178	183	149	166	174	156	206	179	118	160
Monona	166	170	149	142	138	132	112	120	153	153	129
Monroe	91	113	126	89	92	97	100	84	62	96	98
Montgomery	91	110	95	103	91	110	126	125	121	130	129
Muscatine	438	489	533	402	417	347	384	384	371	332	309
O'Brien	305	308	261	277	310	246	242	209	249	261	232
Osceola	113	111	123	90	100	94	83	85	102	81	91
Page	209	213	207	190	210	208	204	192	201	210	178
Palo Alto	238	200	188	197	193	169	168	161	194	171	160
Plymouth	348	352	357	339	273	341	317	342	299	373	313
Pocahontas	154	166	178	165	159	174	149	156	129	112	97
Polk	3036	2807	2776	2675	2638	2393	2538	2359	2418	2313	2252
Pottawattamie	1142	1086	989	866	822	832	811	848	912	854	902
Poweshiek	160	140	150	141	132	145	100	94	138	121	144
Ringgold	75	96	99	97	94	71	80	72	77	53	58
Sac	244	255	236	261	202	234	232	266	309	232	230
Scott	1129	1075	1099	1007	996	918	923	842	897	874	889
Shelby	306	295	266	228	181	180	160	155	137	164	142
Sioux	776	761	745	747	683	663	633	601	577	548	474
Story	436	452	448	477	499	405	437	440	461	420	376
Tama	246	321	331	293	298	320	261	258	249	261	216
Taylor	124	109	104	114	96	100	118	105	119	97	134
Union	194	207	234	218	167	177	159	186	178	179	172
Van Buren	120	102	110	98	107	92	80	96	121	77	105
Wapello	430	485	462	438	417	334	388	363	385	410	608
Warren	349	324	285	279	249	292	264	259	224	240	250
Washington	249	281	213	225	186	140	170	156	184	165	163
Wayne	121	110	105	88	111	70	64	85	74	60	53
Webster	554	512	494	494	456	491	497	476	474	484	491
Winnebago	195	193	221	209	168	151	131	121	143	134	98
Winneshiek	235	229	234	218	231	197	201	197	184	152	130
Woodbury	1173	1090	1178	1184	1096	894	887	929	846	875	826
Worth	129	115	92	118	109	94	97	96	111	98	118
Wright	247	207	185	210	190	208	199	171	222	197	159
State of Iowa	33166	32484	32125	30677	29551	27140	26953	27063	27963	27015	26357

Table 3. Average Number Enrolled in Schools in Selected Months\* in Iowa Counties, 1984-1995.

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Adair	1285	1232	1221	1188	1172	1130	1115	1179	1173	1176	1229
Adams	744	720	720	704	709	741	766	789	782	766	786
Allamakee	2938	2899	2926	2929	2905	2903	2920	2965	2971	3071	3070
Appanoose	2497	2609	2635	2645	2603	2607	2613	2693	2678	2627	2500
Audubon	1171	1180	1067	1181	1161	1179	1192	1234	1267	1306	1326
Benton	4315	4270	4570	4534	4500	4492	4351	4314	4400	4392	4424
Black Hawk	21319	21534	20615	21025	21120	20642	20769	20708	21383	21541	22302
Boone	4133	4077	4020	4034	3922	3905	3838	3830	3877	3760	3832
Bremer	5671	5537	5497	5382	5326	5340	5295	5154	5387	5611	5770
Buchanan	3671	3656	3675	3629	3633	3437	3408	3291	3265	3333	3467
Buena Vista	4329	4179	3765	3619	3516	3360	3362	3322	3287	3226	3187
Butler	2733	2674	2664	2669	2636	2635	2735	2728	2716	2765	2875
Calhoun	2690	2749	2634	2571	2431	2382	2349	2403	2435	2444	2508
Carroll	4871	3422	4159	4734	4193	4741	4288	4124	4332	4283	4397
Cass	3055	3017	3103	3083	3174	3173	3169	3198	3167	3230	3244
Cedar	3413	3515	3593	3603	3519	3499	3533	3438	3380	3379	3518
Cerro Gordo	8124	7799	7293	7404	7400	7591	7494	7569	7841	7842	7831
Cherokee	2894	2934	2950	2790	2738	2805	2772	2788	2743	2727	2811
Chickasaw	2494	2465	2470	2468	2472	2498	2550	2537	2586	2742	2766
Clarke	1781	1742	1760	1781	1682	1630	1652	2609	1667	1634	1605
Clay	3104	3178	2777	3577	3434	3392	3314	3193	3196	3258	2965
Clayton	3915	3419	3329	3628	3904	3398	3662	3454	3896	4026	4069
Clinton	9333	9243	9426	9364	9188	9234	9098	9374	9314	9148	9437
Crawford	3005	3238	3225	3511	3521	3631	3712	3814	3895	3926	3970
Dallas	7015	7011	6808	6576	6323	6037	6043	5880	5936	5771	5857
Davis	1207	1381	1409	1411	1437	1412	1415	1418	1457	1467	1502
Decatur	1461	1482	1484	1489	1474	1457	1471	1507	1535	1527	1552
Delaware	4034	4057	3924	3829	3756	3643	3604	3452	3574	3563	3643
Des Moines	7497	7793	7709	7796	7729	7647	7693	7765	7765	7622	7599
Dickinson	2833	2763	2785	2665	2712	2690	2643	2586	2624	2641	2749
Dubuque	18246	18205	18129	18188	17523	17622	17787	17991	18282	18672	19069
Emmet	2439	2332	2177	2318	2292	2321	2326	2301	2318	2316	2459
Fayette	4687	4653	4668	4588	4734	4652	4624	4607	4671	4826	5013
Floyd	3320	3332	3359	3380	3348	3338	3345	3472	3539	3429	3713
Franklin	1822	1834	1849	1837	1817	1746	1693	1660	1691	1670	1706
Fremont	1694	1501	1681	1687	1688	1664	1377	1697	1721	1720	1779
Greene	1882	1800	1840	1826	1750	1731	1758	1752	1787	1845	1908
Grundy	2777	2751	2740	2282	2264	2636	2419	2354	2369	2328	2502
Guthrie	2342	2217	2430	2458	2414	2399	2415	2535	2563	2568	2609
Hamilton	3126	3111	3131	3099	3032	3042	3084	2992	3014	3069	3196
Hancock	2150	2364	2364	2440	2375	2335	2330	2401	2378	2371	2376
Hardin	3748	3841	3844	4152	4093	4109	4077	4042	4189	4161	4347
Harrison	3360	2726	3058	3037	2984	2978	2983	3055	3079	3077	3112
Henry	3167	3886	3850	3802	3722	3598	3572	3605	3627	3620	3537
Howard	2408	2334	2352	2333	2312	2276	2277	2305	2351	2356	2360
Humboldt	1974	1997	1998	1958	1960	1969	1955	1978	1994	2040	2085
Ida	1575	1598	1584	1567	1521	1429	1444	1401	1381	1335	1355
Iowa	3231	3087	3031	3138	2967	2769	2710	2714	2791	2814	2823
Jackson	4274	4273	4254	4226	4042	4139	4212	4259	4261	4357	4566
Jasper	6408	6396	6436	6467	6350	6451	6125	6198	6136	6140	6397

\*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, 1984-1995 (continued).

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Jefferson	1829	1816	1853	1807	1771	1795	1826	1825	1869	1921	2039
Johnson	12103	11880	11323	11268	10963	10807	10579	10599	10245	10253	10043
Jones	3749	3717	3537	3471	3433	3389	3394	3404	3500	3416	3569
Keokuk	2436	2422	2400	2421	2432	2446	2441	2443	2390	2407	2470
Kossuth	3600	3518	3484	3583	3446	3471	3602	3540	3679	3656	3789
Lee	7481	7475	7240	7298	6906	7102	7119	7485	7291	7225	7315
Linn	33645	32691	32147	31861	29899	28832	29124	29670	30103	30498	31109
Louisa	2686	2811	2757	2695	2732	2730	2663	2600	2669	2660	2694
Lucas	1576	1623	1575	1559	1581	1575	1579	1621	1642	1631	1686
Lyon	2400	2355	2375	2321	2032	2324	2353	2358	2353	2315	2323
Madison	2824	2799	2800	2821	2815	2838	2836	2824	2855	2826	2785
Mahaska	3478	3478	3493	3416	3444	3400	3412	3363	3409	3402	3434
Marion	6308	5780	6031	6051	5820	5509	5546	5483	5036	5513	5573
Marshall	6560	6498	6495	6782	6569	6574	6296	6515	6662	6843	7038
Mills	2590	2629	2629	2587	2600	2623	2647	2667	2636	2663	2733
Mitchell	2041	2035	2016	2002	1978	2000	2016	2035	2014	1455	2038
Monona	1786	1869	1908	1900	1892	1925	1912	1882	1933	1938	1971
Monroe	1328	1314	1335	1324	1316	1293	1274	1340	1331	1402	1437
Montgomery	1989	1999	2006	2017	1989	2066	1987	2120	2004	1973	2044
Muscatine	7605	7610	7673	7520	7273	7276	7204	7208	7219	7245	7122
O'Brien	3356	3307	3094	3205	3201	3093	3107	3046	3134	3124	3031
Osceola	1005	981	995	966	926	1016	940	968	976	1030	1057
Page	3232	3165	3205	3041	3008	3176	3076	3089	3091	3207	3229
Palo Alto	2270	2326	2351	2296	2317	2311	2255	2212	2199	2215	2319
Plymouth	5462	5273	5175	5211	4434	4971	4996	4955	4282	4861	4885
Pocahontas	1562	1548	1873	1860	1800	1790	1738	1768	1743	1789	1872
Polk	62531	60791	59994	55555	53487	52846	50778	50616	49740	49394	51289
Pottawattamie	16642	16369	16199	16022	15709	15295	15430	15502	15946	16483	16610
Poweshiek	2982	2973	2965	2860	2793	2822	2860	2883	2899	2895	2962
Ringgold	993	1001	998	1023	985	1006	995	992	994	993	1049
Sac	2387	2383	2343	2400	2389	2414	2362	2331	2322	2324	2354
Scott	28523	28749	28809	28683	28473	28207	27704	27823	27678	28349	29786
Shelby	3027	2984	3022	2708	2627	2601	2581	2599	2634	2684	2775
Sioux	6946	6701	6893	6851	6749	6464	6501	6396	6329	6402	6346
Story	10326	10215	9955	10018	9570	9407	9300	9200	9106	8989	9027
Tama	3176	3231	3652	3402	3413	3432	3474	3564	3581	3593	3502
Taylor	1276	1280	1269	1298	1375	1359	1414	1363	1386	1389	1433
Union	2251	2256	2322	2336	2294	2376	2409	2405	2428	2426	2476
Van Buren	1477	1460	1434	1406	1399	1400	1405	1431	1457	1449	1499
Wapello	6701	6708	6772	6739	6688	6564	6700	6769	6943	7196	7376
Warren	7010	6985	6818	6725	6717	6634	6465	6561	6483	6703	6722
Washington	3803	3724	3691	3680	3644	3599	3686	3660	3660	3675	3693
Wayne	1246	1226	1243	1190	1214	1192	1193	1196	1236	1239	1280
Webster	6863	6853	6906	6746	6703	6526	6749	6622	6772	6862	7005
Winnebago	2864	2846	2840	2811	2790	2757	2815	2787	2756	2676	2743
Winneshiek	3259	3307	3334	3245	3181	3173	3213	3116	3134	3150	3104
Woodbury	18811	18348	18568	18435	18432	17878	17994	17788	17014	16860	16804
Worth	1151	1131	1159	1151	1110	1117	1154	1154	1222	1224	1269
Wright	3148	2901	2730	2688	2574	2616	2640	2619	2686	2778	2850
State of Iowa	524451	517352	514671	509850	498375	494454	491083	493034	493328	496697	507262

Table 4. Percent Enrolled Who Received Free or Reduced-Price School Meals in Selected Months\* in Iowa Counties, 1984-1995.

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Adair	33.7	36.8	35.4	33.6	32.2	29.2	28.5	30.9	35.2	36.5	29.8
Adams	36.4	34.6	32.2	30.9	30.0	28.3	31.3	26.4	34.7	34.3	29.6
Allamakee	29.9	28.6	28.2	26.8	25.4	24.7	24.3	25.9	27.5	27.9	25.3
Appanoose	41.2	39.7	38.9	39.1	39.2	38.1	37.9	40.1	39.5	42.1	41.2
Audubon	26.3	27.7	27.3	28.7	27.2	21.6	22.1	24.3	26.9	26.4	22.0
Benton	23.0	23.5	24.0	24.7	25.2	23.0	23.2	25.3	26.8	25.0	22.8
Black Hawk	31.7	30.0	30.4	29.3	28.3	28.2	28.6	30.7	36.1	32.5	28.7
Boone	19.6	20.0	20.5	19.6	18.7	19.0	19.1	19.4	21.9	23.4	22.2
Bremer	19.3	18.8	19.2	18.2	17.8	16.8	18.0	21.5	25.8	21.5	16.3
Buchanan	26.6	26.4	26.2	27.8	25.3	26.5	26.7	29.5	34.7	33.7	29.2
Buena Vista	36.6	33.4	30.5	29.6	28.8	27.8	26.4	29.3	30.8	28.6	26.5
Butler	25.5	27.3	27.4	27.0	26.7	24.1	22.7	25.0	30.6	29.1	20.9
Calhoun	28.3	28.3	29.6	27.3	25.4	23.5	24.1	26.3	29.5	29.5	21.3
Carroll	23.4	22.3	22.6	24.7	24.1	22.7	24.7	25.5	28.0	26.5	20.7
Cass	32.3	31.6	30.5	29.3	28.0	27.4	28.6	28.9	31.0	30.2	26.8
Cedar	19.3	18.1	18.7	17.5	15.5	16.3	16.7	17.8	17.9	17.3	16.1
Cerro Gordo	25.5	25.1	26.3	24.3	23.8	22.4	23.6	24.1	24.4	23.8	20.5
Cherokee	25.6	26.0	25.5	24.6	23.7	23.0	25.2	26.1	28.4	29.9	25.6
Chickasaw	25.1	26.5	24.4	24.3	24.3	24.4	23.6	26.0	29.1	26.8	22.6
Clarke	38.2	39.0	37.7	31.7	29.6	28.9	32.4	22.1	36.8	36.8	30.7
Clay	25.7	25.9	28.3	26.3	25.7	25.4	25.4	28.6	29.3	29.3	23.2
Clayton	28.8	27.7	25.7	26.0	25.1	23.3	25.3	28.0	30.3	30.6	26.0
Clinton	22.7	22.9	21.9	20.0	20.1	19.8	20.2	20.3	22.2	23.8	21.1
Crawford	34.5	33.6	31.1	30.6	29.6	29.6	27.0	27.7	29.3	28.3	23.8
Dallas	19.9	19.5	22.6	20.3	19.2	17.8	17.1	19.9	21.1	22.5	21.3
Davis	38.8	35.6	34.1	32.6	29.7	28.8	28.1	33.2	35.1	35.4	33.5
Decatur	46.8	48.1	46.9	43.8	40.8	39.5	39.0	38.5	39.5	37.5	34.4
Delaware	21.8	22.2	22.5	21.8	21.0	21.5	23.0	22.7	26.5	27.3	23.9
Des Moines	25.3	24.0	23.1	24.3	24.2	23.1	23.8	23.8	22.4	23.6	23.6
Dickinson	22.1	22.7	21.0	23.4	21.5	23.1	24.6	25.4	26.6	27.1	23.1
Dubuque	23.3	23.0	22.7	21.6	21.6	21.4	21.5	23.1	26.8	25.1	23.6
Emmet	39.6	36.7	35.3	35.9	32.7	33.3	35.4	36.9	38.3	38.5	30.5
Fayette	30.2	30.1	28.6	28.1	25.9	25.6	26.1	28.8	32.4	31.2	28.8
Floyd	35.1	35.3	33.7	33.2	33.3	32.7	34.3	36.2	36.6	38.8	33.3
Franklin	29.0	29.1	31.0	29.7	28.7	28.9	28.9	30.5	31.1	30.3	25.1
Fremont	33.6	34.1	35.4	30.7	27.9	26.5	27.2	28.9	30.4	32.3	29.1
Greene	35.9	34.7	32.9	34.0	31.7	29.8	33.4	30.9	33.6	33.5	29.8
Grundy	21.7	20.8	21.9	18.8	17.6	13.8	14.8	17.5	20.5	16.9	14.5
Guthrie	29.4	30.9	29.8	28.2	25.8	24.1	26.9	29.4	32.6	34.0	28.8
Hamilton	27.4	26.6	26.8	25.4	24.9	22.4	22.1	25.4	25.6	26.0	22.7
Hancock	27.9	27.9	26.7	27.2	27.1	23.3	23.2	25.4	26.6	25.8	18.0
Hardin	35.4	34.6	34.6	32.5	31.2	31.5	30.3	31.1	32.1	33.6	29.2
Harrison	32.9	33.2	32.9	33.1	31.1	30.0	30.5	30.7	32.4	33.3	32.9
Henry	23.6	22.0	22.6	22.7	20.0	19.4	18.9	19.3	21.1	22.7	21.6
Howard	34.1	34.1	31.6	31.8	28.1	26.8	29.7	30.1	32.6	32.8	29.0
Humboldt	25.0	25.4	24.1	25.1	23.4	23.2	24.6	28.0	30.4	32.1	30.0
Ida	30.6	30.0	30.6	26.1	26.7	26.2	27.4	31.5	35.6	32.1	27.6
Iowa	18.7	19.2	19.2	17.7	19.1	17.0	17.5	18.9	20.0	20.7	17.0
Jackson	26.2	26.2	24.7	25.4	24.2	23.9	23.9	24.8	29.1	28.9	24.9
Jasper	19.8	19.2	17.8	16.9	15.9	15.1	14.9	15.9	17.9	19.2	18.7

\*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, 1984-1995 (continued).

County	1994- 1995	1993- 1994	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985
Jefferson	21.0	20.7	22.8	21.2	19.1	18.4	18.1	18.5	21.3	21.4	20.2
Johnson	15.3	14.8	15.7	14.8	15.0	14.7	14.6	14.7	15.2	15.4	13.7
Jones	25.5	24.9	23.7	24.4	24.0	23.3	22.5	23.4	26.0	25.8	22.7
Keokuk	26.3	27.2	28.6	27.9	26.8	25.3	22.2	24.6	25.8	27.0	24.0
Kossuth	32.5	31.4	31.0	26.6	24.8	24.2	24.5	28.3	29.9	29.9	19.8
Lee	27.3	27.3	23.4	22.5	21.8	20.7	21.8	22.0	23.4	25.0	22.2
Linn	22.3	22.8	22.3	21.8	22.0	20.5	20.3	20.8	21.6	23.0	22.0
Louisa	29.5	28.1	26.4	23.6	22.9	21.9	20.8	21.1	23.2	24.7	22.5
Lucas	32.3	30.5	30.0	26.9	25.1	24.0	25.5	26.0	29.5	29.7	29.0
Lyon	22.3	23.5	23.6	23.1	22.8	25.0	27.1	29.1	31.1	31.0	25.2
Madison	22.1	24.1	24.2	24.1	23.3	22.7	23.4	24.9	27.0	28.7	24.3
Mahaska	30.7	32.5	30.1	30.3	30.0	30.1	30.6	32.1	34.7	36.1	32.6
Marion	20.2	20.0	19.8	19.8	18.7	17.8	18.3	19.3	21.8	22.1	21.1
Marshall	29.9	29.9	28.8	26.6	25.1	22.6	23.0	23.4	30.0	23.2	22.7
Mills	28.1	27.9	26.4	25.7	23.6	21.4	19.2	21.1	23.0	24.2	23.3
Mitchell	24.7	25.4	25.9	24.4	24.8	24.4	25.2	30.9	31.8	33.0	24.1
Monona	33.4	35.0	34.5	35.6	37.6	34.9	36.0	37.5	38.5	40.9	34.6
Monroe	36.3	36.5	36.8	34.2	34.2	32.3	35.2	35.3	36.6	37.2	33.7
Montgomery	24.9	24.0	24.7	24.4	21.6	22.0	23.0	23.1	25.7	27.0	24.7
Muscatine	30.1	30.6	31.9	29.8	30.0	26.6	26.3	26.0	25.3	22.8	21.7
O'Brien	27.7	26.5	26.0	24.9	24.3	22.6	23.9	25.4	27.8	27.6	22.5
Osceola	28.1	28.4	28.6	27.1	26.5	25.3	25.3	26.7	32.7	30.2	27.3
Page	30.3	32.0	29.9	26.5	26.4	25.6	25.0	27.4	29.9	27.8	25.5
Palo Alto	32.8	34.2	33.6	33.2	33.3	30.3	32.2	35.5	39.2	38.4	27.6
Plymouth	18.8	18.4	19.3	19.5	19.8	21.9	22.4	23.7	27.7	28.0	23.4
Pocahontas	28.6	30.6	32.0	29.9	30.1	26.9	26.6	28.9	31.4	30.6	25.7
Polk	24.1	22.9	22.7	23.3	22.2	21.0	22.2	23.0	24.1	24.4	22.8
Pottawattamie	33.9	32.5	30.5	28.8	26.9	25.8	25.3	26.2	25.3	25.0	24.7
Poweshiek	21.5	20.5	22.0	20.5	19.9	18.1	16.5	17.1	19.2	21.0	18.9
Ringgold	44.9	43.9	42.3	44.5	40.2	38.4	39.9	38.7	40.2	39.4	38.5
Sac	35.8	35.7	33.6	34.7	30.1	31.4	32.9	36.0	39.9	37.1	32.5
Scott	28.0	27.2	26.5	25.9	24.1	24.1	23.6	23.7	23.9	23.5	21.8
Shelby	32.4	31.8	30.1	28.9	25.7	23.9	23.1	24.8	24.8	22.8	19.3
Sioux	26.8	26.6	26.4	25.6	24.8	25.6	25.9	28.9	32.0	30.9	25.4
Story	18.2	17.5	17.7	17.8	18.3	17.2	17.8	18.8	19.5	18.8	16.7
Tama	34.7	36.2	35.8	34.5	31.7	30.3	29.3	30.2	32.8	33.7	28.8
Taylor	40.5	38.9	39.0	38.2	34.9	34.7	36.2	40.4	43.4	47.2	42.0
Union	36.3	36.0	36.3	33.1	30.9	30.2	29.4	30.8	32.5	32.4	29.2
Van Buren	34.7	34.6	33.6	32.2	32.1	30.6	29.4	30.1	33.3	33.3	34.5
Wapello	35.9	35.5	34.5	35.4	35.6	36.1	36.4	37.4	39.3	36.7	37.4
Warren	17.3	16.3	15.9	15.2	13.3	13.5	13.8	17.2	14.6	15.1	14.5
Washington	22.0	21.9	19.5	20.9	19.8	18.7	18.7	19.6	21.7	20.7	17.6
Wayne	45.7	43.6	42.2	38.1	36.3	34.6	35.2	37.1	36.9	37.6	34.4
Webster	31.9	33.6	30.8	29.8	29.7	30.2	29.8	31.2	30.4	33.1	30.4
Winnebago	21.5	20.7	22.0	20.3	20.5	18.4	17.0	17.9	21.7	23.1	18.5
Winneshiek	22.5	23.3	22.1	21.8	22.4	21.7	22.7	23.5	25.0	25.2	21.1
Woodbury	30.6	30.0	30.6	30.5	28.8	27.3	27.5	28.3	30.4	30.0	28.3
Worth	33.0	28.4	28.0	27.5	27.0	25.7	24.1	25.2	28.8	29.3	24.4
Wright	26.7	24.9	24.6	23.6	24.4	23.6	22.3	24.5	26.5	25.2	21.2
State of Iowa	26.6	26.2	25.8	25.2	24.4	23.5	23.8	25.0	26.8	26.6	24.0

### Reduced-Price Meals

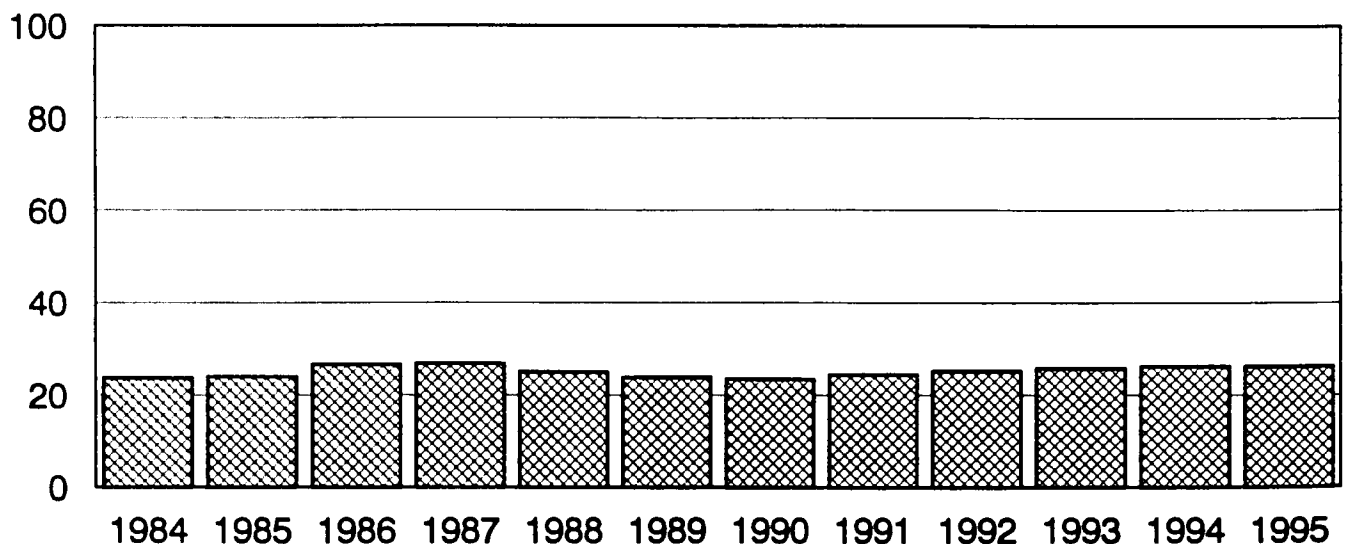
The number of students in Iowa receiving reduced-price meals did not vary as much as the number getting free meals (Table 2), although it has increased each year since 1988-1989. In 1994-1995, an average of 33,166 students qualified for reduced-price meals each month. This was the highest statewide average for reduced-priced meals during the period examined. For 1994-1995, Polk had 3,036 students getting reduced-price meals; the counts also were greater than 1,000 in Black Hawk, Dubuque, Linn, Pottawattamie, Scott, and Woodbury. Twenty-four other counties had 300 or more. Jefferson (63) had the fewest students receiving reduced-price meals; six others also were under 100.

### Percentage of Students Receiving Free or Reduced-Price Meals

In Iowa in 1994-1995, 26.6 percent 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 the same or higher percentages (Figure 1). In 1994-1995, Johnson (15.3%) had the lowest percentage of students in the meal program. Nine other counties had less than 20 percent of students qualifying; their figures were at least five percentage points below that of the state. Thirty-four counties had percentages at least five points above the state's figure, with five at 40 percent or higher (Appanoose, Decatur, Ringgold, Taylor, Wayne). For 15 counties, the percentages for the 1994-1995 school year were lower than what they had been during 1984-1985. Two (Humboldt, Plymouth) dropped by at least four percentage points. Eighty-one counties had greater percentages of students in the meal program in 1994-1995 than in 1984-1985. Six (Buena Vista, Crawford, Decatur, Kossuth, Shelby, Wayne) had gains of at least 10 percentage points.

**Note:** Caution must be exercised in comparing the averages among the years. The months for which data were available varied considerably (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 1994-1995, 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, 1984-1995.



## Voting for Selected Candidates in U.S. and Iowa Elections in Iowa's Counties: 1980-1994

Willis Goudy, Iowa State University  
Yang Xiaodong, Iowa State University

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After votes are cast and counted for federal and state offices, they are canvassed to assure accuracy of the totals. They are then made available by county first in an official canvass summary released by the Office of the Secretary of State of Iowa and later in the Iowa Official Register, a publication that the state releases every two years. In the tables that follow, only candidates receiving at least 5% of the total votes in a particular race are included. What are labeled "scattered" votes (usually write-ins) are not noted either; these are available in some editions of the register but not in others. Thus, the numbers included under-represent the total votes cast, although the unreported categories generally included relatively few voters.

### Representative

The influence of a presidential election on voting participation is confirmed when total votes for the races for seats in the U.S. House of Representatives are reviewed from 1980 through 1994. Voting for representatives drops by 200,000 to 400,000 in Iowa in the election two years after a presidential race is on the ballot (Table 1). The decline was least from 1980 to 1982; in contrast, the drop from 1988 to 1990 was the greatest, in part because Democrats failed to field a candidate for U.S. representative in 16 counties while Republicans had no one running in 22 counties in 1990. In 1992, the Democrats did not have a candidate on the ballot for one of the seats available; this district included 30 counties. In 1994, however, all seats were contested by candidates from both major parties.

When the votes for representative were totaled across the state, Republicans received more support in 1984, 1986, 1988, 1992, and 1994 while Democrats had the majority of votes in the other years (1980, 1982, 1990). The differences didn't exceed 100,000 until 1992, when Republican candidates for the U.S. House of Representatives received 236,000 more votes than did Democrats. In 1994, the Republican total was nearly 153,000 above that for Democrats.

### Governor

Contests for governor occur in between the years when the presidential election takes place. The number voting in 1982, 1986, 1990, and 1994 varied from about 900,000 to slightly more than 1 million (Table 2). The Republican candidate won each of these elections for governor. The closest race was in 1986, when the Republican received 52.0 percent of the vote; in 1994, the Republican had 57.7 percent of the votes for the two candidates for the major political parties.

In the 1994 election, the Republican party's candidate for governor won a majority of the votes in all but four counties (Johnson, Lee, Story, Wapello). A total of 77 counties gave a majority of their votes to the Republican candidate in each of these four elections; only Johnson, Lee, and Wapello favored the Democrat each time.

**Note:** Readers can review the biennial Iowa Official Register for additional information on elections. Before data appear in a register, they are available as the Official Canvass Summary from the office of Iowa's Secretary of State (State Capitol Building, Des Moines, IA 50319). But caution is urged in



examining figures even after they have been officially canvassed. The register containing the results for 1990 elections, for example, included a note indicating that the official canvass totals for the Democratic and Republican candidates for the U.S. Senate were in error in Sioux County and had been reversed and reported correctly in that register. Other problems, generally not of this magnitude, also may occur in the registers if errors were discovered after the official canvass results had to be reported to the state.

For those wishing to put the names of candidates for statewide office with the votes that they received, here is that information: Table 2 (Governor): 1982, Democrat (Conlin), Republican (Branstad); 1986, Democrat (Junkins), Republican (Branstad); 1990, Democrat (Avenson), Republican (Branstad); 1994, Democrat (Campbell), Republican (Branstad). Redistricting changed the counties in the districts of U.S. representatives in 1982 and 1992; see the Official Canvas Summary or the [Iowa Official Register](#) for candidates by county.

Table 1. Votes for Selected Candidates for U.S. Representative in Iowa Counties, 1980-1994.

County	1994		1992		1990		1988		1986		1984		1982		1980	
	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep
Adair	1332	2319	2026	1366	1062	2590	1358	2548	1431	2126	1887	2591	2431	1577	2878	1695
Adams	683	1377	921	1511	532	1382	664	1587	803	1438	1082	1832	1415	985	1783	1163
Allamakee	1584	3375	2238	4128	1947	3095	2001	3857	1545	3500	1615	4455	1589	3576	1875	4393
Appanoose	1684	2660	2775	2774	0	2379	1953	3469	1507	2703	2000	3953	2392	2749	3064	3285
Audubon	1193	1577	1868	1102	888	2130	1161	2037	1222	1587	2068	1965	2043	1470	2544	1643
Benton	3633	4616	5220	5531	4175	0	6371	3278	4321	2823	3896	6229	3574	5080	3176	6342
Black Hawk	22163	21093	33313	26690	23972	0	34851	20060	23548	19370	25291	36695	25906	30310	33043	28786
Boone	4902	4546	0	7349	5529	0	8055	2793	5858	2675	7288	4305	5866	3115	7851	3611
Bremer	3535	4807	5364	5888	3879	0	5457	4265	3683	4168	3389	7171	2988	6077	4492	6396
Buchanan	2978	4363	4273	5358	3450	3719	3591	4583	2918	4127	3134	6145	3045	4617	4479	4610
Buena Vista	2551	3886	0	7214	1798	5340	3125	5638	3453	3569	6278	2895	5394	1759	6386	3005
Butler	1875	3288	2910	4037	2050	0	2986	2976	1943	2953	1738	4993	1688	4260	2378	4612
Calhoun	1737	2455	0	4493	1177	2653	1985	3197	1765	2406	3332	2362	2473	1836	3990	1946
Carroll	3053	4492	0	7311	2007	4410	3715	4789	3304	3503	6343	3308	4773	2744	6178	2912
Cass	1787	3825	3396	3456	1339	4659	1954	4656	1633	3520	2510	4703	2867	3061	4045	3752
Cedar	2678	3570	1964	5964	3031	2918	2689	4734	1658	3303	2027	5661	2158	4232	2357	4999
Cerro Gordo	7248	9339	12070	11018	5375	12147	8690	13391	7890	9553	13839	8166	9969	7663	11973	10121
Cherokee	2240	2830	0	6154	1751	3953	2644	4154	3584	2463	5076	2248	4253	1415	5076	2231
Chickasaw	3062	2660	3847	2743	3888	0	3757	2024	2720	2490	2504	3967	2449	3445	3350	3177
Clarke	1232	2059	1778	2172	1189	2236	1254	2724	1367	1950	2254	1834	2412	1189	2874	1416
Clay	2411	3371	0	6194	1834	4162	3066	4708	3177	2979	5755	2350	4878	1725	5990	2502
Clayton	2394	4546	3615	5183	3204	3691	3387	4738	2198	4311	2205	6008	2613	4841	3281	5459
Clinton	5588	9867	7576	14166	9101	7634	10092	12477	5704	10838	8681	15998	7455	11356	8901	14823
Crawford	2111	2844	0	4650	1591	3398	2253	4444	2384	2916	4001	3527	3356	2281	4480	2886
Dallas	5868	6625	9298	4861	7841	0	8952	3453	6538	3103	7826	4903	6767	3841	8497	4019
Davis	1270	1719	1943	1835	0	1165	1323	1956	1133	1514	1442	2181	1579	1646	1956	1778
Decatur	1093	1850	1633	2026	948	1926	1149	2487	1334	1853	2204	1826	2463	1066	3151	1248
Delaware	1806	4501	2832	5488	2377	4099	2646	4656	1734	3250	2267	5551	1913	4011	2747	4705
Des Moines	6774	6971	11248	8165	0	8650	8238	10284	4696	7992	7737	12203	7076	7656	7110	12211
Dickinson	2511	3280	0	6151	1697	4028	2503	4426	3159	2928	5024	2112	4047	1547	5381	1959
Dubuque	12370	16320	20993	20971	15470	15952	17632	20582	11284	16026	17555	22779	13392	19072	16790	22834
Emmet	1658	2008	0	4255	1225	2560	1785	3011	2054	1705	3943	1623	2998	1207	4071	1414
Fayette	3162	5107	4515	5983	3916	4796	3712	6244	2794	5121	3384	7536	3316	6156	4262	6830

Table 1. Votes for Selected Candidates for U.S. Representative in Iowa Counties, 1980-1994 (continued).

County	1994		1992		1990		1988		1986		1984		1982		1980	
	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep
Floyd	2843	2975	4275	3303	4169	0	4709	2760	2925	2946	3347	4948	3289	3844	4622	4175
Franklin	1159	2907	0	3924	948	3084	1564	3223	1761	2332	2875	2130	2041	1964	2520	2901
Fremont	1102	1643	2153	1447	673	2582	819	2628	854	2285	1208	2874	1638	1431	1895	2044
Greene	1877	2200	0	4117	1469	2866	1931	2927	1949	2283	3175	2442	2949	1635	3656	1938
Grundy	1475	3145	2209	3723	1778	0	2568	2946	1706	2672	1111	5282	1171	4818	1650	5161
Guthrie	1857	2534	2554	1846	1309	2443	1920	2737	1671	2075	2708	2501	2727	1496	3362	1916
Hamilton	2668	3517	0	6106	3021	0	4554	2249	3323	1919	4060	3256	3455	2459	3659	4103
Hancock	1370	3241	0	4985	948	3696	1753	3693	2064	2438	3082	2587	2379	2052	2498	3286
Hardin	2983	4288	0	7452	2138	5488	2912	5514	3303	4110	5211	3433	3803	3214	4252	4575
Harrison	2112	3026	3339	2490	1267	3131	1610	4039	1782	3179	2932	3645	2956	2471	3779	3013
Henry	2519	3847	4002	4325	0	5235	2142	5485	1695	4091	1893	5091	1912	4352	2263	5287
Howard	1784	2006	2538	2320	2951	0	2888	1579	2085	2129	1765	3256	1705	2724	2434	2748
Humboldt	1565	2536	0	4568	911	3214	1570	3600	1845	2297	3552	1905	2793	1454	3509	2079
Ida	1237	1568	0	3203	817	2252	1282	2453	1769	1517	2675	1409	1980	1166	2591	1651
Iowa	2169	3394	3120	4095	2723	0	3792	2572	2301	2435	2284	4532	2215	3728	2265	4655
Jackson	2589	3671	4204	4169	3968	2960	4075	3936	3021	3482	3513	5369	2604	4557	2904	5240
Jasper	6124	8006	8331	8576	10124	0	11432	4456	8374	3940	9800	6438	8693	4807	8279	8176
Jefferson	2065	3094	2616	3236	0	4618	1867	5171	1212	2955	1689	5520	1535	3662	1847	5105
Johnson	15379	17148	16479	32332	24682	0	29795	14361	17184	9024	22002	22662	19221	13380	18061	21902
Jones	2575	4069	2464	5947	3542	3166	3548	4527	2603	3576	3059	5616	2905	4471	3525	4923
Keokuk	1463	2572	2312	2540	0	2185	1757	3155	1306	2346	1609	3476	1552	2665	2952	2604
Kossuth	2874	4253	0	7523	1694	5275	3188	5561	4361	2621	6535	2790	5125	2103	6832	2881
Lee	6213	5175	10201	6600	0	6430	8069	8278	6040	7257	6783	9738	6333	6287	7173	9834
Linn	24727	35635	29122	55215	31002	30620	33065	43209	20444	31174	29895	51775	28549	32589	37651	37647
Louisa	899	2198	1250	3535	0	3104	1313	2989	803	2372	1073	3345	1180	2393	1181	3201
Lucas	1351	2096	2056	2207	0	2117	1488	2151	1173	2163	1416	2831	1697	2166	2412	2353
Lyon	745	2779	0	4520	825	3149	1158	3961	1669	2116	2275	3182	1584	2139	2810	2889
Madison	2285	2915	3868	2247	1666	2915	2346	3241	2047	2419	3420	2658	3566	1757	4227	1980
Mahaska	2025	4683	3533	5778	0	4190	2584	5864	1669	4646	2661	6585	2939	4606	4664	5251
Marion	3375	6640	5420	7232	3582	6138	5069	7160	3910	4975	7251	5647	5795	3547	6461	6259
Marshall	6543	8354	9084	8576	10806	0	10688	6096	7550	6139	6908	11533	7091	8602	9088	9481
Mills	1314	2758	2594	2096	799	2981	1129	3934	934	2573	1441	3845	1672	1956	1992	2959
Mitchell	1674	2523	2661	2827	2106	0	3028	1921	1810	2360	1646	3623	1791	2914	2354	3325

Table 1. Votes for Selected Candidates for U.S. Representative in Iowa Counties, 1980-1994 (continued).

County	1994		1992		1990		1988		1986		1984		1982		1980	
	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep
Monona	1434	1804	0	3394	1177	2128	1642	2711	2045	1866	3267	1579	2728	1171	3143	1902
Monroe	1002	1552	1736	1848	0	1506	1641	1536	1152	1655	1504	2095	1499	1720	2023	1934
Montgomery	1306	2597	2526	2700	779	3125	1098	3853	983	2873	1457	4305	1834	2274	2457	3398
Muscatine	3402	7165	3843	11188	0	7490	4835	8549	2018	5903	3842	10669	3300	6919	4483	9713
O'Brien	1381	3863	0	6362	1378	4206	2089	4870	2924	2870	4191	3135	3311	2135	4477	3032
Osceola	557	1632	0	2679	1300	1323	905	2296	1368	1326	1932	1449	1541	1223	2118	1271
Page	990	4338	1841	5518	897	4247	1145	5754	968	4313	1749	5925	2175	3048	3019	4505
Palo Alto	1684	2056	0	3332	1360	2655	2264	3043	2515	1731	4064	1523	3684	1005	4262	1417
Plymouth	2306	4574	0	7989	2016	5175	3274	6116	4645	3306	5942	3853	4611	2548	6284	3758
Pocahontas	1339	2022	0	4090	945	2616	1838	2745	2031	1929	3617	1274	2823	1063	3865	1546
Polk	69243	64674	106735	53478	87242	0	102974	39339	68868	29887	88305	53651	76431	37053	76506	61662
Pottawattamie	7844	14335	15355	14736	7070	14849	11301	19535	8418	11684	14272	18623	12053	10521	15973	15909
Poweshiek	2672	3743	3846	4265	3725	0	5476	2709	3552	2691	3178	5150	3326	3956	2999	5356
Ringgold	762	1576	1027	1717	660	1751	705	1730	921	1376	1524	1523	1675	1022	1890	1105
Sac	1610	2445	0	4706	977	2807	1577	3127	1386	2587	2576	2837	2283	2040	3864	2060
Scott	14213	30796	18902	49695	0	30556	23441	39982	11284	30903	20877	47578	18258	31558	18810	42407
Shelby	1581	3107	2898	2220	1096	3432	1745	3851	1607	2725	2731	3665	2662	2412	3473	2788
Sioux	1366	9376	0	12370	1300	9311	2332	10697	3655	6674	4510	9418	4143	5043	5998	7620
Story	11722	12707	17362	15460	14055	0	21098	9766	14310	8117	19643	16164	17637	9259	23858	11603
Tama	3369	3393	4603	3887	3826	0	5254	2550	3839	2588	3127	5550	2897	4482	3860	4716
Taylor	695	1695	1155	2199	741	2282	749	2495	867	1859	1291	2729	1703	1471	2175	1702
Union	1728	3348	2356	3303	1561	3010	1997	3732	2192	2569	3371	2930	3228	1887	3723	2038
Van Buren	978	1797	1537	1803	0	1914	1096	2210	1362	1629	908	2582	940	1925	1054	2437
Wapello	5309	6013	8819	7157	0	4670	7507	6695	5564	5033	8066	7822	7862	5405	9579	7033
Warren	5820	8165	8470	9045	5871	6697	7152	8165	5422	5886	9589	6557	8746	3685	4790	10074
Washington	2233	4062	3416	4322	0	3833	2026	4972	1371	3645	1793	5513	1680	3856	2180	4899
Wayne	985	1763	1535	1741	907	1863	1174	1975	1285	1777	2108	1686	2178	1187	2541	1325
Webster	6396	6913	0	10916	4965	7475	7639	8409	6113	6288	12951	6292	8800	5153	13726	5559
Winnebago	1385	3195	0	3829	1144	3742	1828	3663	2205	2726	3193	2427	2644	2222	3059	2980
Winneshiek	2938	4267	4529	5429	3517	0	4955	3404	2652	3123	2942	5613	2612	4454	2838	5778
Woodbury	12817	16788	0	32313	10148	19415	16091	22686	15314	16275	27239	13980	22250	8516	26548	15278
Worth	1436	1687	2241	1765	2700	0	2629	1181	1685	1475	1446	2533	1658	1998	2099	1971
Wright	1702	3127	0	4793	1334	3414	2111	3699	2016	2530	3631	2714	2711	2153	2979	3725
State of Iowa	407311	560117	492733	729496	400852	385003	580200	606647	428022	461428	595265	673343	528266	475338	630430	620806

Table 2. Votes for Selected Candidates for Governor in Iowa Counties, 1982-1994.

County	1994		1990		1986		1982	
	Democrat	Republican	Democrat	Republican	Democrat	Republican	Democrat	Republican
Adair	1339	2378	1256	2463	1476	2106	1706	2351
Adams	897	1240	632	1312	821	1417	1062	1343
Allamakee	1767	3205	1631	3567	2196	2945	1652	3528
Appanoose	1779	2793	1880	2753	2229	2402	2772	2702
Audubon	1087	1872	1150	2157	1348	1548	1536	2146
Benton	3262	5038	3053	5061	4403	2999	3757	5031
Black Hawk	19752	23714	17018	25640	23150	19975	25776	29915
Boone	4764	4801	4187	5270	4618	4395	5043	4454
Bremer	3112	5194	2690	5593	3756	4296	3026	6178
Buchanan	3151	4222	2575	3929	3671	3313	3187	4361
Buena Vista	2461	4149	2385	4835	3143	3968	3361	4026
Butler	1598	3467	1397	3712	2011	3072	1791	4182
Calhoun	1621	2651	1473	2775	1977	2533	2068	2740
Carroll	2968	4888	2651	4584	3563	3597	3524	4358
Cass	1876	3795	1648	4265	1747	3556	2271	3906
Cedar	2497	3826	2103	3917	2290	2633	2567	4083
Cerro Gordo	7576	9016	7224	10434	8131	9447	9090	9690
Cherokee	2113	2860	2076	3628	2918	3170	2727	3182
Chickasaw	2331	3426	1933	3227	2601	2761	2371	3556
Clarke	1422	1907	1465	1966	1560	1764	1754	1863
Clay	2575	3479	2249	3807	2978	3210	2969	3864
Clayton	2698	4445	2312	4815	3036	3562	2676	4832
Clinton	6904	10215	7100	10960	7750	9296	8503	10807
Crawford	2066	3591	2193	3250	2766	2892	2704	3561
Dallas	5517	7001	4281	5423	5151	4523	6251	4852
Davis	1326	1828	1509	1608	1578	1338	1736	1706
Decatur	1446	1562	1109	1783	1517	1692	1731	1787
Delaware	2177	4218	1840	4684	2194	2850	2231	4013
Des Moines	6313	7435	6699	8595	7082	6025	8256	6888
Dickinson	2337	3491	2011	3758	2942	3230	2343	3431
Dubuque	13431	15565	12972	18541	15280	12099	15887	16238
Emmet	1586	2192	1460	2446	1766	2030	1906	2517
Fayette	3275	5149	3762	5331	3819	4253	3653	5912
Floyd	2553	3230	2339	3670	2828	3268	3239	3992
Franklin	1575	2618	1359	2884	1759	2478	1836	2756
Fremont	992	1782	972	2215	1066	2072	1396	1743
Greene	1736	2422	1615	2797	2114	2317	2283	2413
Grundy	1400	3321	1205	3573	1653	2812	1554	4400
Guthrie	1742	2699	1631	2451	1840	2044	2071	2347
Hamilton	2701	3511	2474	3684	2719	3030	2903	3666
Hancock	1670	2986	1371	3199	1814	2800	1948	2778
Hardin	2916	4432	2819	4809	3562	4284	3608	4498
Harrison	1827	3607	1424	3075	1919	3123	2373	2988
Henry	2367	4045	2110	4243	2608	3266	2839	3487
Howard	1454	2249	1302	2547	1871	2385	1596	2814
Humboldt	1490	2671	1472	2912	1816	2470	2045	2812
Ida	1084	1810	1050	2095	1438	1856	1173	2192
Iowa	2006	3590	1778	4078	2258	2819	2316	3755
Jackson	2760	3893	2576	4669	3181	3394	2928	4408
Jasper	6175	8021	6078	7403	6189	6111	7238	6578

Table 2. Votes for Selected Candidates for Governor in Iowa Counties, 1982-1994 (continued).

County	1994		1990		1986		1982	
	Democrat	Republican	Democrat	Republican	Democrat	Republican	Democrat	Republican
Jefferson	1422	3096	1928	3728	1726	2547	2151	3109
Johnson	20180	13093	16196	15687	15503	10700	19304	13263
Jones	2652	3940	2505	4331	3150	3017	2935	4414
Keokuk	1585	2890	1590	2816	1964	1994	2147	2540
Kossuth	2383	4932	2249	5110	2807	4290	2663	5119
Lee	6118	5629	7011	6066	8884	5140	7002	5762
Linn	27976	34081	24278	35597	27869	24313	29140	31828
Louisa	1063	2043	1337	2367	1334	1877	1536	2062
Lucas	1460	2081	1453	2149	1630	1939	1824	2225
Lyon	869	2927	891	3130	1138	2683	897	2897
Madison	2050	3202	2085	3101	2453	2509	2698	2691
Mahaska	2158	4749	2280	5404	2751	4350	3756	4593
Marion	3740	6395	4187	6617	4460	4901	4755	5387
Marshall	6968	8010	6560	8154	7866	6412	7507	8420
Mills	1529	2584	1153	2760	1145	2383	1501	2233
Mitchell	1628	2640	1478	2969	1731	2706	1782	3002
Monona	1436	2112	1287	2086	1713	2186	1769	2220
Monroe	1021	1628	1401	1861	1546	1475	1762	1669
Montgomery	1369	2606	1009	2970	1230	2661	1518	2727
Muscatine	4153	6633	3919	7323	3475	4743	4412	6131
O'Brien	1514	3733	1421	4090	2232	3555	1843	3732
Osceola	596	1788	713	1835	984	1706	860	1920
Page	1357	3933	1115	4142	1302	3966	1787	3556
Palo Alto	1639	2346	1558	2560	2186	2117	2337	2556
Plymouth	2368	4964	2160	5087	3056	4866	2541	4780
Pocahontas	1258	2138	1195	2522	1881	2241	1861	2381
Polk	61161	67229	52004	61780	52227	46550	67310	48871
Pottawattamie	8513	14189	8254	14886	7687	12665	10605	12363
Poweshiek	2792	4071	2926	3980	3070	3530	3563	3905
Ringgold	1013	1351	858	1617	1042	1307	1238	1548
Sac	1568	2526	1356	2725	1819	2444	2003	2823
Scott	17728	29721	16905	29834	19333	24216	23718	26850
Shelby	1459	3563	1245	3543	1619	2788	1794	3354
Sioux	1477	9429	1381	9316	2352	7955	1962	7284
Story	13626	11833	10945	14167	12127	11247	14447	13639
Tama	2650	4100	2548	4095	3246	3290	3081	4406
Taylor	866	1504	1027	1915	1004	1738	1310	1952
Union	2125	3149	1950	2891	2355	2523	2370	2868
Van Buren	941	1859	1264	1688	1449	1559	1428	1511
Wapello	5733	5560	6668	5446	7371	4229	8541	5611
Warren	6465	7735	6018	7581	6143	5542	7045	5807
Washington	2478	4093	2023	4177	2292	3092	2506	3589
Wayne	1091	1719	1135	1821	1400	1743	1585	1834
Webster	6282	7972	6011	7845	6589	6613	7806	7807
Winnebago	1531	3167	1549	3497	1768	3263	1908	3632
Winneshiek	2755	4454	2334	4965	2452	3581	2379	4779
Woodbury	12824	16471	11274	18104	13957	17550	15249	15959
Worth	1334	1871	1454	1990	1540	1932	1616	2087
Wright	2077	3156	1785	3134	2026	2652	2306	2986
State of Iowa	414453	566395	379372	591852	436987	472712	483291	548312

## Publications from Census Services

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

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### County Data Books

Seven editions of a book filled with data on the 99 Iowa counties plus state totals have been released. The contents vary from one issue to the next. Some items are updated annually. In other instances, new data are released only every 2, 5, or 10 years; in such cases, the latest information is incorporated whenever it becomes available. The most recent volume is available for \$30.00 (\$31.50 if sales tax is applicable); call for information on whether previous editions remain in stock.

1995 Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data. 436 pages.  
 1994 Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data. 428 pages.  
 1993 Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data. 450 pages.  
 1992 Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data. 374 pages.  
 1991 Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data. 346 pages.  
 1990 Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data. 252 pages.  
 1989 Iowa's Counties: Selected Population Trends, Vital Statistics, and Socioeconomic Data. 110 pages.

### Other Reports or Series Publications

The first two in a series of reports on selected aspects of Iowa's population were released recently. Each is available for \$10.00 (\$10.50 if sales tax is applicable).

Minority/Majority Groups in Iowa. CS95-3. 117 pages.  
 Iowa's Older Residents: Past, Present, and Future. CS94-7. 105 pages.

Single copies of the following brief items also can be ordered at no charge from our office while our supplies last. Some of these titles are released each year or every few years; only the most recent version is listed.

Population (1850-1990) and Population Estimates (1994) for Incorporated Places in Iowa. CS95-4. 21 pages.  
 Population (1990) and Population Estimates (1991-1994) for Iowa Counties. CS95-2. 4 pages.  
 Population Counts for Iowa and Other States: 1890-1990 Censuses and 1991-1994 Estimates. CS95-1. 2 pages.  
 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.  
 Births in Iowa by Race, Age, and Marital Status of Mother: 1980-1990. CS92-3. 10 pages.

## 1990 Census Publications

Six brief reports highlighting data from the 1990 census have been published by Census Services. The first four are based on information on the PL94-171 (Public Law 94-171) computer tape, which was used for redistricting the state for legislative purposes; this tape was released in February of 1991. The fifth one (CS91-6) is from the tape (STF1A) with more detailed demographic and housing data that arrived in May of 1991. The sixth (CS92-4), which was based on a tape (STF3A) received in May of 1992, contains socioeconomic and additional housing variables. Single copies of these reports can be ordered at no charge from Census Services (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. Field specialists with ISU Extension to Communities located throughout the state have the data for their sets of counties and incorporated places. A complete set of the pages or specialized computer runs can be obtained from Census Services; charges apply, of course.

## "Vintage" Publications

Some older publications developed by Census Services are available through Publications Distribution, 112 Printing and Publications Building, Iowa State University, Ames, IA 50011. A list of all extension publications, including those from Census Services from 1990 or earlier, is available at extension offices located in each county in Iowa.

Census Services  
303 East Hall  
Iowa State University  
Ames, IA 50011  
Phone: 515-294-6482  
Fax: 515-294-2303  
E-mail: ramiller@iastate.edu



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**Iowa Agriculture and Home Economics Experiment Station**

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**Iowa State University Department of Sociology**

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**IOWA STATE UNIVERSITY**  
OF SCIENCE AND TECHNOLOGY

Census Services  
303 East Hall  
Ames, Iowa 50011-1070  
515-294-8337  
FAX 515-294-0592

Date: December 19, 1995

To: Iowa's Counties... databook Co-authors

From: Sandy Burke and Willis Goudy

Re: 1995 edition of Iowa's Counties... databook

This is your 1995 Iowa's Counties... databook. As always, **KEEP ALL PREVIOUS EDITIONS**. Many reports are **NOT** repeated. New reports in this edition include three from the Census of the Economy covering retail, wholesale, and services trade (pp. 279-332), two that give population counts and 1994 estimates for incorporated places (p. 15-28, and p. 43-63), and one that covers voting in Iowa's elections (p. 427-433). All other reports are updated with new data. Your copy of the 1995 edition, as well as all previous editions, is part of the efforts of Extension to Communities.