

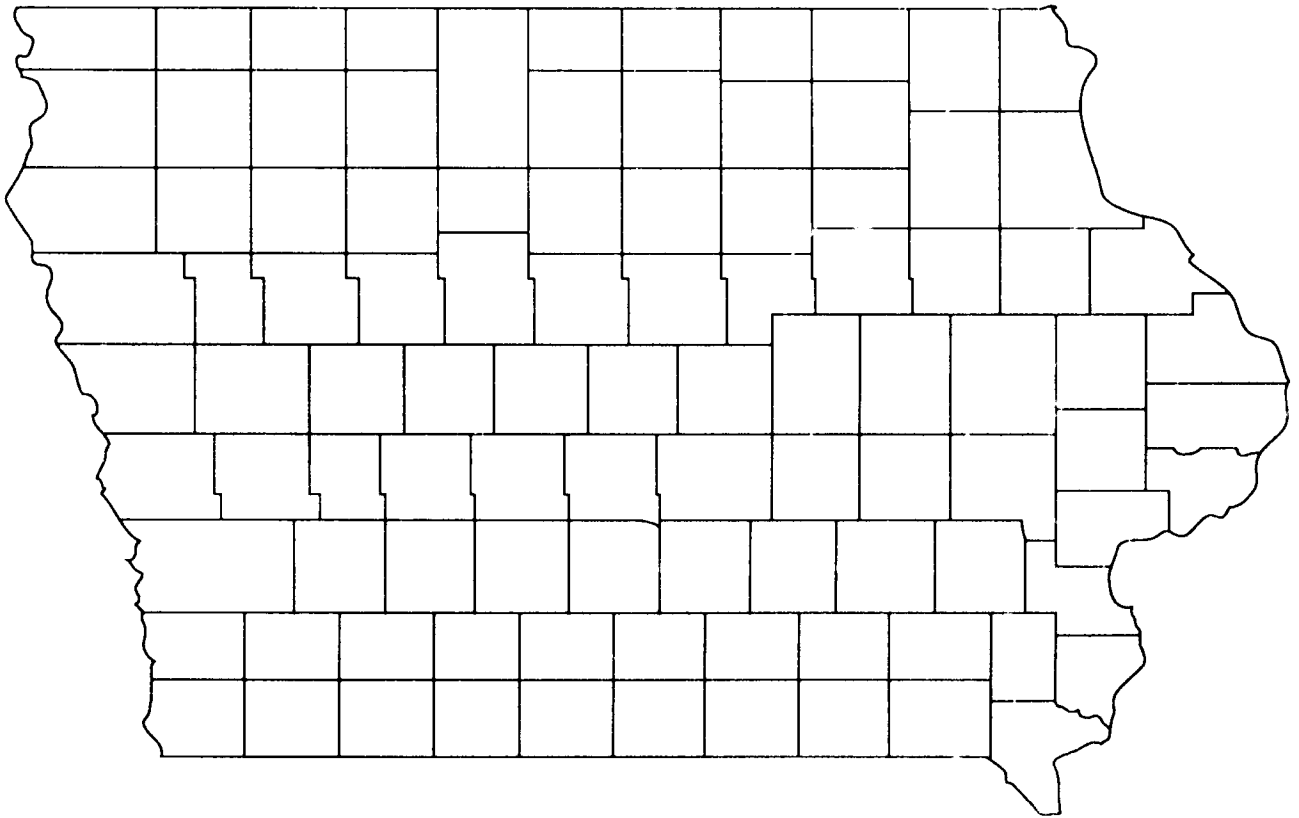
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Iowa's Counties:

Selected Population Trends, Vital Statistics, and Socioeconomic Data

1993 Edition



Willis Goudy and Sandra Charvat Burke
Census Services
Department of Sociology
Iowa State University
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STATE UNIVERSITY OF IOWA
East Hall, Room 201
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STATE DATA CENTER

October, 1993



Iowa's Counties:

Selected Population Trends, Vital Statistics, and Socioeconomic Data

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Selected Population Trends, Vital Statistics, and Socioeconomic Data

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Introduction

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

Welcome to the fifth edition of our county data book. Census Services at Iowa State University has disseminated data from a variety of sources since 1983. We began publishing reports based on the data from the 1980 and earlier censuses. Because of requests for information not included in the decennial censuses, we started to work with data from other state and federal agencies. In this volume, we have constructed tables from varied sources to serve as a reference for demographic and socioeconomic change in Iowa's counties. We've focused on the 1980s and the first years of the 1990s for the most part, although one section traces population back to 1850 while another projects it to 2010. We are particularly interested in providing data that readers can use to determine trends that are occurring in Iowa; that's why all of the sections have data for at least two years.

This year we've included several additional items from the 1990 and earlier censuses—median age, education, occupation, income, and poverty, all of which include data for females and males, as well as whether workers were employed in the county in which they lived. Additional information for 1990 is available through ISU Extension offices in every county. We provided each one with 21 pages that included all data reported for that county by the U.S. Bureau of the Census on the initial summary data tapes (1A, 3A) that the bureau provided. These offices have similar census profiles for incorporated places in their counties.

Other new items in this edition include data on church membership, voting on the equal rights amendment, and corn and soybean production. Two others—federal funds and voting for selected candidates in U.S. and Iowa elections—have reappeared this year because new information was available. We've added average dollars expended to three others—food stamps, aid to families with dependent children, and medical services provided under Title XIX of the Social Security Act.

Data on domestic abuse, serious crimes, and arrests of juveniles are not included this year. The agency responsible for reporting this information is changing the reporting format. We'll wait until we have new numbers for at least two years before we include these areas in another edition.

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

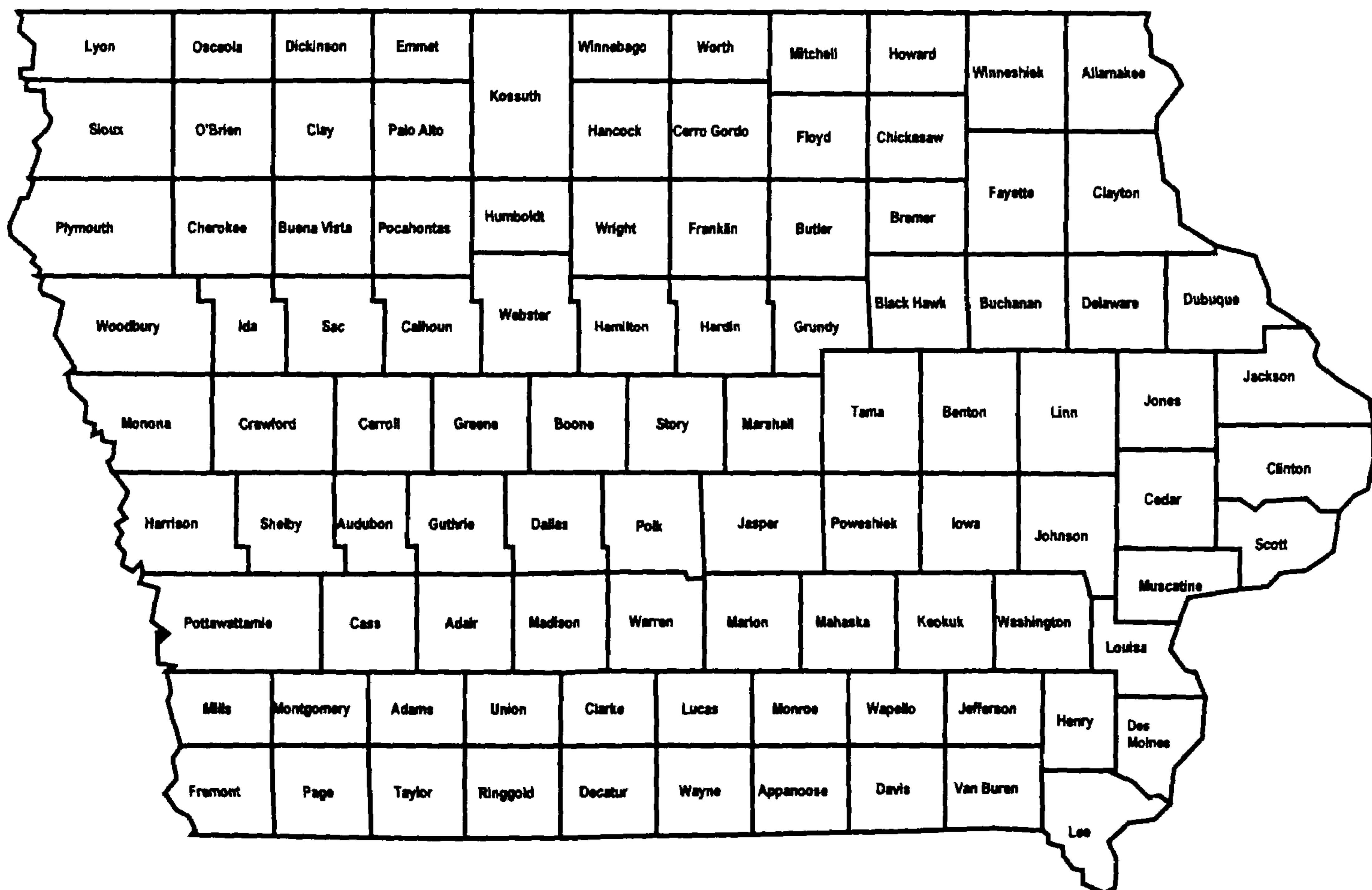
We continue to be confident that readers will find sources of data on Iowa's counties that they haven't seen previously—unless it was in previous editions of this publication. Because we add some items each year and delete others, readers interested in having as much information as possible will want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

We know that the statistics that we've included have never been published in one source; indeed, many have never been published previously for the general public. But we've undoubtedly missed other data sets for Iowa's counties that would be valuable to share in future editions. Thus, suggestions on data that would be useful would be appreciated. So would comments on this edition. There are more than 125,000 numbers in the tables. Although they have been checked and rechecked,

it is possible that some are incorrect. Please inform us of any discrepancies from published documents so that they can be corrected in the next edition of this volume.

Census Services is located at 320 East Hall, Department of Sociology, Iowa State University, Ames, IA 50011. We can be reached at 515-294-8337 or 515-294-9307.

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 and checking the accuracy of those numbers and to Liu Dong Wang and Martin Hansen for reviewing the contents of selected sections.



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

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

In most years between decennial censuses, the U.S. Bureau of the Census estimates the population of counties. Late in 1992, the 1991 estimates were released for Iowa and other states. Iowa's population was estimated to have increased by nearly 18,500, or seven-tenths of a percentage point, between 1 April 1990 (census date) and 1 July 1991 (Table 1).

1990-1991 Population Change

Fifty-seven counties were estimated to have gained residents between 1990 and 1991, with increases greater than 1,000 in Black Hawk, Johnson, Linn, Polk, and Scott. Another four (Dallas, Muscatine, Story, Woodbury) had gains of 500-999. Twenty-six of these 57 counties grew but by fewer than 100 inhabitants. Percentage increases ranged from less than 1% in 40 counties to 2% or more in two (Dickinson, +2.3%; Guthrie, +2.0%). Five others gained from 1.5% to 1.9% (Dallas, Muscatine, Polk, Scott, Washington).

Declines occurred in 42 counties, although in only one did the decrease exceed 200 (Kossuth, -291). Ten lost 100-199 residents, while the remaining 31 reported declines of fewer than 100. Ten counties had declines of at least 1%, although only Adams (-3.0%) and Decatur (-2.0%) were estimated to have dropped by at least 2%.

Revised 1981-1989 Population Estimates

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

Notes: The estimates for the state and counties are based on births, deaths, and residual change. For the period covered, the bureau reported 49,207 births, 33,519 deaths, and a residual of 2,775 for the state. Most of the residual is net migration, which indicates that more people moved into than out of Iowa during the period; this is a change from most years from 1900 to 1990. 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. The 1990 counts for two counties have been changed by the U.S. Bureau of the Census from those initially released. Nine residents were added to Mahaska and nine were subtracted from Wapello.

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

County	1 July 1991	1 April 1990	Estimated Change		County	1 July 1991	1 April 1990	Estimated Change	
			Number	Percent				Number	Percent
Adair	8430	8409	21	0.2	Jefferson	16330	16310	20	0.1
Adams	4720	4866	-146	-3.0	Johnson	97230	96119	1111	1.2
Allamakee	13900	13855	45	0.3	Jones	19570	19444	126	0.6
Appanoose	13790	13743	47	0.3	Keokuk	11630	11624	6	0.1
Audubon	7270	7334	-64	-0.9	Kossuth	18300	18591	-291	-1.6
Benton	22550	22429	121	0.5	Lee	39020	38687	333	0.9
Black Hawk	124840	123798	1042	0.8	Linn	170670	168767	1903	1.1
Boone	25380	25186	194	0.8	Louisa	11610	11592	18	0.2
Bremer	22890	22813	77	0.3	Lucas	9160	9070	90	1.0
Buchanan	20960	20844	116	0.6	Lyon	11920	11952	-32	-0.3
Buena Vista	20040	19965	75	0.4	Madison	12560	12483	77	0.6
Butler	15870	15731	139	0.9	Mahaska	21500	21522	-13	-0.1
Calhoun	11560	11508	52	0.5	Marion	30280	30001	279	0.9
Carroll	21450	21423	27	0.1	Marshall	38260	38276	-16	-0.0
Cass	15060	15128	-68	-0.4	Mills	13340	13202	138	1.0
Cedar	17450	17381	69	0.4	Mitchell	10910	10928	-18	-0.2
Cerro Gordo	47190	46733	457	1.0	Monona	10000	10034	-34	-0.3
Cherokee	14090	14098	-8	-0.1	Monroe	8170	8114	56	0.7
Chickasaw	13280	13295	-15	-0.1	Montgomery	11970	12076	-106	-0.9
Clarke	8280	8287	-7	-0.1	Muscatine	40580	39907	673	1.7
Clay	17600	17585	15	0.1	O'Brien	15480	15444	36	0.2
Clayton	18860	19054	-194	-1.0	Osceola	7240	7267	-27	-0.4
Clinton	50970	51040	-70	-0.1	Page	16790	16870	-80	-0.5
Crawford	16740	16775	-35	-0.2	Palo Alto	10590	10669	-79	-0.7
Dallas	30290	29755	535	1.8	Plymouth	23420	23388	32	0.1
Davis	8330	8312	18	0.2	Pocahontas	9430	9525	-95	-1.0
Decatur	8170	8338	-168	-2.0	Polk	333070	327140	5930	1.8
Delaware	18190	18035	155	0.9	Pottawattamie	82870	82628	242	0.3
Des Moines	42850	42614	236	0.6	Poweshiek	18960	19033	-73	-0.4
Dickinson	15250	14909	341	2.3	Ringgold	5390	5420	-30	-0.6
Dubuque	86900	86403	497	0.6	Sac	12170	12324	-154	-1.2
Emmet	11630	11569	61	0.5	Scott	153320	150979	2341	1.6
Fayette	21970	21843	127	0.6	Shelby	13300	13230	70	0.5
Floyd	16860	17058	-198	-1.2	Sioux	30240	29903	337	1.1
Franklin	11300	11364	-64	-0.6	Story	75030	74252	778	1.0
Fremont	8160	8226	-66	-0.8	Tama	17370	17419	-49	-0.3
Greene	10080	10045	35	0.3	Taylor	7090	7114	-24	-0.3
Grundy	11970	12029	-59	-0.5	Union	12640	12750	-110	-0.9
Guthrie	11150	10935	215	2.0	Van Buren	7750	7676	74	1.0
Hamilton	16100	16071	29	0.2	Wapello	35770	35687	74	0.2
Hancock	12500	12638	-138	-1.1	Warren	36520	36033	487	1.4
Hardin	19000	19094	-94	-0.5	Washington	19960	19612	348	1.8
Harrison	14710	14730	-20	-0.1	Wayne	7040	7067	-27	-0.4
Henry	19370	19226	144	0.7	Webster	40380	40342	38	0.1
Howard	9930	9809	121	1.2	Winnebago	11990	12122	-132	-1.1
Humboldt	10670	10756	-86	-0.8	Winneshiek	20860	20847	13	0.1
Ida	8290	8365	-75	-0.9	Woodbury	99260	98276	984	1.0
Iowa	14780	14630	150	1.0	Worth	7890	7991	-101	-1.3
Jackson	19920	19950	-30	-0.2	Wright	14170	14269	-99	-0.7
Jasper	34720	34795	-75	-0.2					
					State of Iowa	2795220*	2776755	18465	0.7

*The sum of the county estimates is 2,795,260. The difference between the bureau's estimate for the state and the county sum is due to rounding at the county level.

Table 2. Revised estimates (1 July 1981-1989) and census counts (1 April 1980, 1990) of population in Iowa's counties.

	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	8409	8430	8510	8550	8700	8940	9140	9210	9260	9400	9509
Adams	4866	4990	5100	5220	5200	5310	5420	5490	5560	5630	5731
Allamakee	13855	14070	14160	14160	14390	14640	14830	14890	14870	14990	15108
Appanoose	13743	13820	13960	14120	14150	14390	14650	14870	15160	15360	15511
Audubon	7334	7410	7510	7610	7850	8090	8320	8250	8360	8470	8559
Benton	22429	22440	22300	22210	22350	22520	22820	22910	23300	23610	23649
Black Hawk	123798	123260	122450	123820	126210	130080	133880	135580	136840	137900	137961
Boone	25186	25110	25180	25160	25320	25510	25710	25900	26060	26280	26184
Bremer	22813	22710	22520	22720	23230	23710	24200	24540	24660	24790	24820
Buchanan	20844	20890	20760	20790	21080	21810	22250	22740	22980	23030	22900
Buena Vista	19965	20050	20170	20100	20400	20570	20930	20750	20850	20890	20774
Butler	15731	15830	15970	15990	16330	16780	17100	17250	17430	17580	17668
Calhoun	11508	11600	11640	11760	11960	12340	12760	13010	13240	13390	13542
Carroll	21423	21500	21730	21780	22100	22430	22640	22640	22670	22970	22951
Cass	15128	15230	15330	15420	15840	16370	16880	16880	16920	17060	16932
Cedar	17381	17380	17330	17480	17820	18210	18430	18580	18520	18620	18635
Cerro Gordo	46733	46850	47220	47360	48160	48500	48060	48070	48220	48420	48458
Cherokee	14098	14140	14280	14510	14850	15270	15660	15850	15870	16130	16238
Chickasaw	13295	13420	13540	13720	14180	14490	14900	15150	15210	15320	15437
Clarke	8287	8330	8410	8350	8290	8390	8490	8570	8720	8650	8612
Clay	17585	17450	17200	17320	17770	18390	18950	19200	19220	19400	19576
Clayton	19054	19220	19370	19410	19700	20180	20510	20600	20810	20950	21098
Clinton	51040	51060	51370	51720	52450	53590	54520	55330	56360	56680	57122
Crawford	16775	17060	17480	17610	17740	18330	18740	18810	18840	18890	18935
Dallas	29755	29320	29180	28810	28880	29250	29180	29320	29180	29360	29513
Davis	8312	8300	8380	8560	8690	8790	8930	8990	9030	9110	9104
Decatur	8338	8490	8460	8560	8780	8910	9100	9280	9580	9750	9794
Delaware	18035	18050	17990	17930	18060	18520	18760	18730	18720	18850	18933
Des Moines	42614	42610	42810	42950	43220	43850	44360	44710	45420	46120	46203
Dickinson	14909	14850	14730	14660	14820	15050	15220	15250	15390	15570	15629
Dubuque	86403	86650	87360	87130	87770	89100	89620	90300	91990	93310	93745
Emmet	11569	11540	11680	11650	11900	12410	12760	12830	13140	13270	13336
Fayette	21843	21850	21880	22000	22600	23380	24150	24460	24840	25060	25488
Floyd	17058	17310	17400	17540	17890	18520	18780	19000	19100	19350	19597
Franklin	11364	11400	11540	11800	12100	12400	12510	12720	12790	12900	13036
Fremont	8226	8250	8440	8670	8670	8830	9030	9060	9170	9250	9401
Greene	10045	10170	10310	10520	10820	11200	11490	11710	11790	11980	12119
Grundy	12029	12120	12280	12430	12800	13250	13510	13780	13950	14190	14366
Guthrie	10935	10920	11070	11050	11280	11420	11600	11550	11690	11860	11983
Hamilton	16071	16300	16460	16570	16840	16990	17200	17430	17590	17840	17862
Hancock	12638	12830	12870	12900	13090	13380	13500	13410	13580	13660	13833
Hardin	19094	19220	19390	19640	20280	20880	21320	21320	21550	21660	21776
Harrison	14730	14830	15080	15180	15340	15450	15630	15810	16040	16160	16348
Henry	19226	19050	19120	19060	18970	18840	18560	18550	18690	18810	18890
Howard	9809	9910	10060	10140	10290	10570	10860	10780	10910	11000	11114
Humboldt	10756	10760	10870	10950	11270	11620	11830	11940	11970	12180	12246
Ida	8365	8390	8340	8380	8600	8750	8800	8800	8750	8890	8908
Iowa	14630	14660	14700	14700	14920	15080	15120	15100	15160	15410	15429
Jackson	19950	20190	20580	20810	21120	21570	21860	21990	22080	22300	22503
Jasper	34795	34760	34750	34570	34640	34720	35030	35240	35710	36050	36425

Table 2. Revised estimates (1 July 1981-1989) and census counts (1 April 1980, 1990) of population in Iowa's counties (continued).

	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	21513	21410	21560	21470	21640	21850	22140	22010	22280	22560	22867
Marion	30001	30040	29890	29590	29460	29520	29630	29680	29930	29830	29669
Marshall	38276	38280	38410	38760	39660	40280	40980	41530	41830	41830	41652
Mills	13202	13240	13320	13210	13230	13340	13310	13370	13380	13520	13406
Mitchell	10928	11010	11110	11140	11260	11430	11590	11840	11940	12110	12329
Monona	10034	10160	10300	10340	10530	10840	11210	11420	11400	11520	11692
Monroe	8114	8100	8150	8250	8360	8590	8700	8850	8950	9120	9209
Montgomery	12076	12110	12060	12090	12350	12840	13170	13130	13150	13360	13413
Muscatine	39907	39760	39740	39540	40020	40420	40850	41070	41400	41000	40436
O'Brien	15444	15520	15560	15610	15930	16320	16700	16920	16860	16970	16972
Osceola	7267	7260	7350	7360	7540	7760	8060	8130	8130	8260	8371
Page	16870	16840	16740	16970	17300	17790	18180	18360	18610	18920	19063
Palo Alto	10669	10760	10850	10980	11370	11890	12160	12450	12510	12670	12721
Plymouth	23388	23450	23690	23560	23600	23690	24080	24290	24430	24880	24743
Pocahontas	9525	9720	9870	10010	10370	10740	10840	10930	10970	11160	11369
Polk	327140	322470	317120	312850	309720	308350	307090	305720	304570	304870	303170
Pottawattamie	82628	82780	83330	83800	84180	84830	85620	85470	85940	86320	86561
Poweshiek	19033	19060	18920	18750	18700	18890	18820	19050	19100	19270	19306
Ringgold	5420	5440	5430	5430	5570	5790	5970	6000	6110	6080	6112
Sac	12324	12350	12380	12560	12750	13080	13280	13460	13740	14010	14118
Scott	150979	150040	150220	150910	152610	154570	156280	157400	159620	160180	160022
Shelby	13230	13280	13420	13470	13800	14200	14700	14630	14780	14830	15043
Sioux	29903	29880	29980	29600	29900	30440	30610	30700	30530	30650	30813
Story	74252	73720	73880	73320	74020	74050	73410	73320	72300	72870	72326
Tama	17419	17490	17680	17810	18220	18660	19000	19040	19210	19340	19533
Taylor	7114	7190	7240	7410	7590	7840	8090	8210	8310	8320	8353
Union	12750	12640	12750	12860	12930	13140	13490	13660	13750	13850	13858
Van Buren	7676	7670	7850	7870	7990	8120	8300	8420	8520	8630	8626
Wapello	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
Winneshek	20847	21040	21050	20960	21140	21430	21690	21760	21820	21930	21876
Woodbury	98276	97750	97570	96800	97530	98910	99740	99810	100550	101190	100884
Worth	7991	8100	8170	8190	8480	8700	8810	8870	8950	9020	9075
Wright	14269	14350	14320	14430	14830	15400	15800	15770	15850	16080	16319

State of Iowa 2776755 2770720* 2768550* 2767130* 2792050* 2829780* 2858690* 2870650* 2888250* 2908050* 2913808

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

Historical Trends of the Population in Iowa's Counties:

1850-1990

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

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

1850 to 1900

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

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

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

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

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

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

County	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Adair	8409	9509	9487	10893	12292	13196	13891	14259	14420	16192	14534	11667	3982	984	0
Adams	4866	5731	6322	7468	8753	10156	10437	10521	10998	13601	12292	11888	4614	1533	0
Allamakee	13855	15108	14968	15982	16351	17184	16328	17285	17328	18711	17907	19791	17868	12237	777
Appanoose	13743	15511	15007	16015	19683	24245	24835	30535	28701	25927	18961	16636	16456	11931	3131
Audubon	7334	8559	9595	10919	11579	11790	12264	12520	12671	13626	12412	7448	1212	454	0
Benton	22429	23649	22885	23422	22656	22879	22851	24080	23156	25177	24178	24888	22454	8496	672
Black Hawk	123798	137961	132916	122482	100448	79946	69146	56570	44865	32399	24219	23913	21706	8244	135
Boone	25186	26184	26470	28037	28139	29782	29271	29892	27626	28200	23772	20838	14584	4232	735
Bremer	22813	24820	22737	21108	18884	17932	17046	16728	15843	16305	14630	14081	12528	4915	0
Buchanan	20844	22900	21762	22293	21927	20991	19550	19890	19748	21427	18997	18546	17034	7906	517
Buena Vista	19965	20774	20693	21189	21113	19838	18667	18556	15981	16975	13548	7537	1585	57	0
Butler	15731	17668	16953	17467	17394	17986	17617	17845	17119	17955	15463	14293	9951	3724	0
Calhoun	11508	13542	14292	15923	16925	17584	17605	17783	17090	18569	13107	5595	1602	147	0
Carroll	21423	22951	22912	23431	23065	22770	22326	21549	20117	20319	18828	12351	2451	281	0
Cass	15128	16932	17007	17919	18532	18647	19422	19421	19047	21274	19645	16943	5464	1612	0
Cedar	17381	18635	17655	17791	16910	16884	16760	17560	17765	19371	18253	18936	19731	12949	3941
Cerro Gordo	46733	48458	49223	49894	46053	43845	38476	34675	25011	20672	14864	11461	4722	940	0
Cherokee	14098	16238	17269	18598	19052	19258	18737	17760	16741	16570	15659	8240	1967	58	0
Chickasaw	13295	15437	14969	15034	15228	15227	14637	15431	15375	17037	15019	14534	10180	4336	0
Clarke	8287	8612	7581	8222	9369	10233	10384	10506	10736	12440	11332	11513	8735	5427	79
Clay	17585	19576	18464	18504	18103	17762	16107	15660	12766	13401	9309	4248	1523	52	0
Clayton	19054	21098	20606	21962	22522	24334	24559	25032	25576	27750	26733	28829	27771	20728	3873
Clinton	51040	57122	56749	55060	49664	44722	44377	43371	45394	43832	41199	36763	35357	18938	2822
Crawford	16775	18935	19116	18569	19741	20538	21028	20614	20041	21685	18894	12413	2530	383	0
Dallas	29755	29513	26085	24123	23661	24649	25493	25120	23628	23058	20479	18746	12019	5244	854
Davis	8312	9104	8207	9199	9959	11136	11150	12574	13315	15620	15258	16468	15565	13764	7264
Decatur	8338	9794	9737	10539	12601	14012	14903	16566	16347	18115	15643	15336	12018	8677	965
Delaware	18035	18933	18770	18483	17734	18487	18122	18183	17888	19185	17349	17950	17432	11024	1759
Des Moines	42614	46203	46982	44605	42056	36804	38162	35520	36145	35989	35324	33099	27256	19611	12988
Dickinson	14909	15629	12565	12574	12756	12185	10982	10241	8137	7995	4328	1901	1389	180	0
Dubuque	86403	93745	90609	80048	71337	63768	61214	58262	57450	56403	49848	42996	38969	31164	10841
Emmet	11569	13336	14009	14871	14102	13406	12856	12627	9816	9936	4274	1550	1392	105	0
Fayette	21843	25488	26898	28581	28294	29151	29145	29251	27919	29845	23141	22258	16973	12073	825

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

County	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Floyd	17058	19597	19860	21102	21505	20169	19524	18860	17119	17754	15424	14677	10768	3744	0
Franklin	11364	13036	13255	15472	16268	16379	16382	15807	14780	14996	12871	10249	4738	1309	0
Fremont	8226	9401	9282	10282	12323	14645	15533	15447	15623	18546	16842	17652	11174	5074	1244
Greene	10045	12119	12716	14379	15544	16599	16528	16467	16023	17820	15797	12727	4627	1374	0
Grundy	12029	14366	14119	14132	13722	13518	14133	14420	13574	13757	13215	12639	6399	793	0
Guthrie	10935	11983	12243	13607	15197	17210	17324	17596	17374	18729	17380	14394	7061	3058	0
Hamilton	16071	17862	18383	20032	19660	19922	20978	19531	19242	19514	15319	11252	6055	1699	0
Hancock	12638	13833	13506	14604	15077	15402	14802	14723	12731	13752	7621	3453	999	179	0
Hardin	19094	21776	22248	22533	22218	22530	22947	23337	20921	22794	19003	17807	13684	5440	0
Harrison	14730	16348	16240	17600	19560	22767	24897	24488	23162	25597	21356	16649	8931	3621	0
Henry	19226	18890	18114	18187	18708	17994	17660	18298	18640	20022	18895	20986	21463	18701	8707
Howard	9809	11114	11442	12734	13105	13531	13082	13705	12920	14512	11182	10837	6282	3168	0
Humboldt	10756	12246	12519	13156	13117	13459	13202	12951	12182	12667	9836	5341	2596	332	0
Ida	8365	8908	9283	10269	10697	11047	11933	11689	11296	12327	10705	4382	226	43	0
Iowa	14630	15429	15419	16396	15835	17016	17332	18600	18409	19544	18270	19221	16644	8029	822
Jackson	19950	22503	20839	20754	18622	19181	18481	19931	21258	23615	22771	23771	22619	18493	7210
Jasper	34795	36425	35425	35282	32305	31496	32936	27855	27034	26976	24943	25963	22116	9883	1280
Jefferson	16310	16316	15774	15818	15696	15762	16241	16440	15951	17437	15184	17469	17839	15038	9904
Johnson	96119	81717	72127	53663	45756	33191	30276	26462	25914	24817	23082	25429	24898	17573	4472
Jones	19444	20401	19868	20693	19401	19950	19206	18607	19050	21954	20233	21052	19731	13306	3007
Keokuk	11624	12921	13943	15492	16797	18406	19148	20983	21160	24979	23862	21258	19434	13271	4822
Kossuth	18591	21891	22937	25314	26241	26630	25452	25082	21971	22720	13120	6178	3351	416	0
Lee	38687	43106	42996	44207	43102	41074	41268	39676	36702	39719	37715	34859	37210	29232	18861
Linn	168767	169775	163213	136899	104274	89142	82336	74004	60720	55392	45303	37237	31080	18947	5444
Louisa	11592	12055	10682	10290	11101	11384	11575	12179	12855	13516	11873	13142	12877	10370	4939
Lucas	9070	10313	10163	10923	12069	14571	15114	15686	13462	16126	14563	14530	10388	5766	471
Lyon	11952	12896	13340	14468	14697	15374	15293	15431	14624	13165	8680	1968	221	0	0
Madison	12483	12597	11558	12295	13131	14525	14331	15020	15621	17710	15977	17224	13884	7339	1179
Mahaska	21513	22867	22177	23602	24672	26485	25804	26270	29860	34273	28805	25202	22508	14816	5989
Marion	30001	29669	26352	25886	25930	27019	25727	24957	22995	24159	23058	25111	24436	16813	5482
Marshall	38276	41652	41076	37984	35611	35406	33727	32630	30279	29991	25842	23752	17576	6015	338
Mills	13202	13406	11832	13050	14064	15064	15866	15422	15811	16764	14548	14137	8718	4481	0
Mitchell	10928	12329	13108	14043	13945	14121	14065	13921	13435	14916	13299	14363	9582	3409	0

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

County	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1890	1880	1870	1860	1850
Monona	10034	11692	12069	13916	16303	18238	18213	17125	16633	17980	14515	9055	3654	832	0
Monroe	8114	9209	9357	10463	11814	14553	15010	23467	25429	17985	13666	13719	12724	8612	2884
Montgomery	12076	13413	12781	14467	15685	15697	16752	17048	16604	17803	15848	15895	5934	1256	0
Muscatine	39907	40436	37181	33840	32148	31296	29385	29042	29505	28242	24504	23170	21688	16444	5731
O'Brien	15444	16972	17522	18840	18970	19293	18409	19051	17262	16985	13060	4155	715	8	0
Osceola	7267	8371	8555	10064	10181	10607	10182	10223	8956	8725	5574	2219	0	0	0
Page	16870	19063	18537	21023	23921	24887	25904	24137	24002	24187	21341	19667	9975	4419	551
Palo Alto	10669	12721	13289	14736	15891	16170	15398	15486	13845	14354	9318	4131	1336	132	0
Plymouth	23388	24743	24322	23906	23252	23502	24159	23584	23129	22209	19568	8566	2199	148	0
Pocahontas	9525	11369	12793	14234	15496	16266	15687	15602	14808	15339	9553	3713	1446	103	0
Polk	327140	303170	286130	266315	226010	195835	172837	154029	110438	82624	65410	42395	27857	11625	4513
Pottawattamie	82628	86561	86991	83102	69682	66756	69888	61550	55832	54336	47430	39850	16893	4968	7828
Poweshiek	19033	19306	18803	19300	19344	18758	18727	19910	19589	19414	18394	18936	15581	5668	615
Ringgold	5420	6112	6373	7910	9528	11137	11966	12919	12904	15325	13556	12085	5691	2923	0
Sac	12324	14118	15573	17007	17518	17639	17641	17500	16555	17639	14522	8774	1411	246	0
Scott	150979	160022	142687	119067	100698	84748	77332	73952	60000	51558	43164	41266	38599	25959	5986
Shelby	13230	15043	15528	15825	15942	16720	17131	16065	16552	17932	17611	12696	2540	818	0
Sioux	29903	30813	27996	26375	26381	27209	26806	26458	25248	23337	18370	5426	576	10	0
Story	74252	72326	62783	49327	44294	33434	31141	26185	24083	23159	18127	16906	11651	4051	0
Tama	17419	19533	20147	21413	21688	22428	21987	21861	22156	24585	22052	21585	16131	5285	8
Taylor	7114	8353	8790	10288	12420	14258	14859	15514	16312	18784	16384	15635	6989	3590	204
Union	12750	13858	13557	13712	15651	16280	17435	17268	16616	19928	16900	14980	5986	2012	0
Van Buren	7676	8626	8643	9778	11007	12053	12603	14060	15020	17354	16253	17043	17672	17081	12270
Wapello	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	2776755	2913808	2825368	2757537	2621073	2538268	2470939	2404021	2224771	2231853	1912297	1624615	1194020	674913	192214

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

County	1980- 1990	1970- 1980	1960- 1970	1950- 1960	1940- 1950	1930- 1940	1920- 1930	1910- 1920	1900- 1910	1890- 1900	1880- 1890	1870- 1880	1860- 1870	1850- 1860
Adair	-1100	22	-1406	-1399	-904	-695	-368	-161	-1772	1658	2867	7685	2998	984
Adams	-865	-591	-1146	-1285	-1403	-281	-84	-477	-2603	1309	404	7274	3081	1533
Allamakee	-1253	140	-1014	-369	-833	856	-957	-43	-1383	804	-1884	1923	5631	11460
Appanoose	-1768	504	-1008	-3668	-4562	-590	-5700	1834	2774	6966	2325	180	4525	8800
Audubon	-1225	-1036	-1324	-660	-211	-474	-256	-151	-955	1214	4964	6236	758	454
Benton	-1220	764	-537	766	-223	28	-1229	924	-2021	999	-710	2434	13958	7824
Black Hawk	-14163	5045	10434	22034	20502	10800	12576	11705	12466	8180	306	2207	13462	8109
Boone	-998	-286	-1567	-102	-1643	511	-621	2266	-574	4428	2934	6254	10352	3497
Bremer	-2007	2083	1629	2224	952	886	318	885	-462	1675	549	1553	7613	4915
Buchanan	-2056	1138	-531	366	936	1441	-340	142	-1679	2430	451	1512	9128	7389
Buena Vista	-809	81	-496	76	1275	1171	111	2575	-994	3427	6011	5952	1528	57
Butler	-1937	715	-514	73	-592	369	-228	726	-836	2492	1170	4342	6227	3724
Calhoun	-2034	-750	-1631	-1002	-659	-21	-178	693	-1479	5462	7512	3993	1455	147
Carroll	-1528	39	-519	366	295	444	777	1432	-202	1491	6477	9900	2170	281
Cass	-1804	-75	-912	-613	-115	-775	1	374	-2227	1629	2702	11479	3852	1612
Cedar	-1254	980	-136	881	26	124	-800	-205	-1606	1118	-683	-795	6782	9008
Cerro Gordo	-1725	-765	-671	3841	2208	5369	3801	9664	4339	5808	3403	6739	3782	940
Cherokee	-2140	-1031	-1329	-454	-206	521	977	1019	171	911	7419	6273	1909	58
Chickasaw	-2142	468	-65	-194	1	590	-794	56	-1662	2018	485	4354	5844	4336
Clarke	-325	1031	-641	-1147	-864	-151	-122	-230	-1704	1108	-181	2778	3308	5348
Clay	-1991	1112	-40	401	341	1655	447	2894	-635	4092	5061	2725	1471	52
Clayton	-2044	492	-1356	-560	-1812	-225	-473	-544	-2174	1017	-2096	1058	7043	16855
Clinton	-6082	373	1689	5396	4942	345	1006	-2023	1562	2633	4436	1406	16419	16116
Crawford	-2160	-181	547	-1172	-797	-490	414	573	-1644	2791	6481	9883	2147	383
Dallas	242	3428	1962	462	-988	-844	373	1492	570	2579	1733	6727	6775	4390
Davis	-792	897	-992	-760	-1177	-14	-1424	-741	-2305	362	-1210	903	1801	6500
Decatur	-1456	57	-802	-2062	-1411	-891	-1663	219	-1768	2472	307	3318	3341	7712
Delaware	-898	163	287	749	-753	365	-61	295	-1297	1836	-601	518	6408	9265
Des Moines	-3589	-779	2377	2549	5252	-1358	2642	-625	156	665	2225	5843	7645	6623
Dickinson	-720	3064	-9	-182	571	1203	741	2104	142	3667	2427	512	1209	180
Dubuque	-7342	3136	10561	8711	7569	2554	2952	812	1047	6555	6852	4027	7805	20323
Emmet	-1767	-673	-862	769	696	550	229	2811	-120	5662	2724	158	1287	105
Fayette	-3645	-1410	-1683	287	-857	6	-106	1332	-1926	6704	883	5285	4900	11248

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

County	1980- 1990	1970- 1980	1960- 1970	1950- 1960	1940- 1950	1930- 1940	1920- 1930	1910- 1920	1900- 1910	1890- 1900	1880- 1890	1870- 1880	1860- 1870	1850- 1860
Floyd	-2539	-263	-1242	-403	1336	645	664	1741	-635	2330	747	3909	7024	3744
Franklin	-1672	-219	-2217	-796	-111	-3	575	1027	-216	2125	2622	5511	3429	1309
Fremont	-1175	119	-1000	-2041	-2322	-888	86	-176	-2923	1704	-810	6478	6100	3830
Greene	-2074	-597	-1663	-1165	-1055	71	61	444	-1797	2023	3070	8100	3253	1374
Grundy	-2337	247	-13	410	204	-615	-287	846	-183	542	576	6240	5606	793
Guthrie	-1048	-260	-1364	-1590	-2013	-114	-272	222	-1355	1349	2986	7333	4003	3058
Hamilton	-1791	-521	-1649	372	-262	-1056	1447	289	-272	4195	4067	5197	4356	1699
Hancock	-1195	327	-1098	-473	-325	600	79	1992	-1021	6131	4168	2454	820	179
Hardin	-2682	-472	-285	315	-312	-417	-390	2416	-1873	3791	1196	4123	8244	5440
Harrison	-1618	108	-1360	-1960	-3207	-2130	409	1326	-2435	4241	4707	7718	5310	3621
Henry	336	776	-73	-521	714	334	-638	-342	-1382	1127	-2091	-477	2762	9994
Howard	-1305	-328	-1292	-371	-426	449	-623	785	-1592	3330	345	4555	3114	3168
Humboldt	-1490	-273	-637	39	-342	257	251	769	-485	2831	4495	2745	2264	332
Ida	-543	-375	-986	-428	-350	-886	244	393	-1031	1622	6323	4156	183	43
Iowa	-799	10	-977	561	-1181	-316	-1268	191	-1135	1274	-951	2577	8615	7207
Jackson	-2553	1664	85	2132	-559	700	-1450	-1327	-2357	844	-1000	1152	4126	11283
Jasper	-1630	1000	143	2977	809	-1440	5081	821	58	2033	-1020	3847	12233	8603
Jefferson	-6	542	-44	122	-66	-479	-199	489	-1486	2253	-2285	-370	2801	5134
Johnson	14402	9590	18464	7907	12565	2915	3814	548	1097	1735	-2347	531	7325	13101
Jones	-957	533	-825	1292	-549	744	599	-443	-2904	1721	-819	1321	6425	10299
Keokuk	-1297	-1022	-1549	-1305	-1609	-742	-1835	-177	-3819	1117	2604	1824	6163	8449
Kossuth	-3300	-1046	-2377	-927	-389	1178	370	3111	-749	9600	6942	2827	2935	416
Lee	-4419	110	-1211	1105	2028	-194	1592	2974	-3017	2004	2856	-2351	7978	10371
Linn	-1008	6562	26314	32625	15132	6806	8332	13284	5328	10089	8066	6157	12133	13503
Louisa	-463	1373	392	-811	-283	-191	-604	-676	-661	1643	-1269	265	2507	5431
Lucas	-1243	150	-760	-1146	-2502	-543	-572	2224	-2664	1563	33	4142	4622	5295
Lyon	-944	-444	-1128	-229	-677	81	-138	807	1459	4485	6712	1747	221	0
Madison	-114	1039	-737	-836	-1394	194	-689	-601	-2089	1733	-1247	3340	6545	6160
Mahaska	-1354	690	-1425	-1070	-1813	681	-466	-3590	-4413	5468	3603	2694	7692	8827
Marion	332	3317	466	-44	-1089	1292	770	1962	-1164	1101	-2053	675	7623	11331
Marshall	-3376	576	3092	2373	205	1679	1097	2351	288	4149	2090	6176	11561	5677
Mills	-204	1574	-1218	-1014	-1000	-802	444	-389	-953	2216	411	5419	4237	4481
Mitchell	-1401	-779	-935	98	-176	56	144	486	-1481	1617	-1064	4781	6173	3409

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

County	1980- 1990	1970- 1980	1960- 1970	1950- 1960	1940- 1950	1930- 1940	1920- 1930	1910- 1920	1900- 1910	1890- 1900	1880- 1890	1870- 1880	1860- 1870	1850- 1860
Monona	-1658	-377	-1847	-2387	-1935	25	1088	492	-1347	3465	5460	5401	2822	832
Monroe	-1095	-148	-1106	-1351	-2739	-457	-8457	-1962	7444	4319	-53	995	4112	5728
Montgomery	-1337	632	-1686	-1218	-12	-1055	-296	444	-1199	1955	-47	9961	4678	1256
Muscatine	-529	3255	3341	1692	852	1911	343	-463	1263	3738	1334	1482	5244	10713
O'Brien	-1528	-550	-1318	-130	-323	884	-642	1789	277	3925	8905	3440	707	8
Osceola	-1104	-184	-1509	-117	-426	425	-41	1267	231	3151	3355	2219	0	0
Page	-2193	526	-2486	-2898	-966	-1017	1767	135	-185	2846	1674	9692	5556	3868
Palo Alto	-2052	-568	-1447	-1155	-279	772	-88	1641	-509	5036	5187	2795	1204	132
Plymouth	-1355	421	416	654	-250	-657	575	455	920	2641	11002	6367	2051	148
Pocahontas	-1844	-1424	-1441	-1262	-770	579	85	794	-531	5786	5840	2267	1343	103
Polk	23970	17040	19815	40305	30175	22998	18808	43591	27814	17214	23015	14538	16232	7112
Pottawattamie	-3933	-430	3889	13420	2926	-3132	8338	5718	1496	6906	7580	22957	11925	-2860
Poweshiek	-273	503	-497	-44	586	31	-1183	321	175	1020	-542	3355	9913	5053
Ringgold	-692	-261	-1537	-1618	-1609	-829	-953	15	-2421	1769	1471	6394	2768	2923
Sac	-1794	-1455	-1434	-511	-121	-2	141	945	-1084	3117	5748	7363	1165	246
Scott	-9043	17335	23620	18369	15950	7416	3380	13952	8442	8394	1898	2667	12640	19973
Shelby	-1813	-485	-297	-117	-778	-411	1066	-487	-1380	321	4915	10156	1722	818
Sioux	-910	2817	1621	-6	-828	403	348	1210	1911	4967	12944	4850	566	10
Story	1926	9543	13456	5033	10860	2293	4956	2102	924	5032	1221	5255	7600	4051
Tama	-2114	-614	-1266	-275	-740	441	126	-295	-2429	2533	467	5454	10846	5277
Taylor	-1239	-437	-1498	-2132	-1838	-601	-655	-798	-2472	2400	749	8646	3399	3386
Union	-1108	301	-155	-1939	-629	-1155	167	652	-3312	3028	1920	8994	3974	2012
Van Buren	-950	-17	-1135	-1229	-1046	-550	-1457	-960	-2334	1101	-790	-629	591	4811
Wapello	-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	-137053	88440	67831	136464	82805	67329	66918	179250	-7082	319556	287682	430595	519107	482699

Table 3. Population Change (1850-1900, 1900-1950, 1950-1990), Decades of Population Increase, and Year Census Count Highest in Iowa counties.

County	Population Change					Number of Decades of Population Increase			Year Census Count Highest	
	1850-1900		1900-1950		1950-1990		1850-1900	1900-1950		1950-1990
	Number	Percent	Number	Percent	Number	Percent				
Adair	16192	-24.1	-3900	-31.6	-3883	-31.6	5	0	1	1900
Adams	13601	-35.6	-4848	-44.4	-3887	-44.4	5	0	0	1900
Allamakee	17934	-12.6	-2360	-15.3	-2496	-15.3	4	1	1	1880
Appanoose	22796	-24.1	-6244	-30.2	-5940	-30.2	5	2	1	1920
Audubon	13626	-15.0	-2047	-36.7	-4245	-36.7	5	0	0	1900
Benton	24505	-10.0	-2521	-1.0	-227	-1.0	4	2	2	1900
Black Hawk	32264	210.0	68049	23.2	23350	23.2	5	5	3	1980
Boone	27465	-0.2	-61	-10.5	-2953	-10.5	5	2	0	1920
Bremer	16305	15.8	2579	20.8	3929	20.8	5	4	3	1980
Buchanan	20910	2.3	500	-4.9	-1083	-4.9	5	3	2	1980
Buena Vista	16975	24.4	4138	-5.4	-1148	-5.4	5	4	2	1960
Butler	17955	-3.1	-561	-9.6	-1663	-9.6	5	2	2	1940
Calhoun	18569	-8.8	-1644	-32.0	-5417	-32.0	5	1	0	1900
Carroll	20319	13.5	2746	-7.1	-1642	-7.1	5	4	2	1960
Cass	21274	-12.9	-2742	-18.4	-3404	-18.4	5	2	0	1900
Cedar	15430	-12.7	-2461	2.8	471	2.8	3	2	2	1870
Cerro Gordo	20672	122.8	25381	1.5	680	1.5	5	5	1	1960
Cherokee	16570	15.9	2482	-26.0	-4954	-26.0	5	4	0	1940
Chickasaw	17037	-10.6	-1809	-12.7	-1933	-12.7	5	3	1	1900
Clarke	12361	-24.7	-3071	-11.6	-1082	-11.6	4	0	1	1900
Clay	13401	35.1	4702	-2.9	-518	-2.9	5	4	2	1980
Clayton	23877	-18.8	-5228	-15.4	-3468	-15.4	4	0	1	1880
Clinton	41010	13.3	5832	2.8	1376	2.8	5	4	3	1980
Crawford	21685	-9.0	-1944	-15.0	-2966	-15.0	5	2	1	1900
Dallas	22204	2.6	603	25.8	6094	25.8	5	3	4	1990
Davis	8356	-36.2	-5661	-16.5	-1647	-16.5	4	0	1	1880
Decatur	17150	-30.4	-5514	-33.8	-4263	-33.8	5	1	1	1900
Delaware	17426	-7.6	-1451	1.7	301	1.7	4	2	3	1900
Des Moines	23001	16.9	6067	1.3	558	1.3	5	3	2	1970
Dickinson	7995	59.6	4761	16.9	2153	16.9	5	5	1	1980
Dubuque	45562	26.5	14934	21.1	15066	21.1	5	5	3	1980
Emmet	9936	41.9	4166	-18.0	-2533	-18.0	5	4	1	1960
Fayette	29020	-5.2	-1551	-22.8	-6451	-22.8	5	2	1	1900
Floyd	17754	21.1	3751	-20.7	-4447	-20.7	5	4	0	1950
Franklin	14996	8.5	1272	-30.2	-4904	-30.2	5	2	0	1930
Fremont	17302	-33.6	-6223	-33.2	-4097	-33.2	4	1	1	1900
Greene	17820	-12.8	-2276	-35.4	-5499	-35.4	5	3	0	1900
Grundy	13757	-0.2	-35	-12.3	-1693	-12.3	5	2	2	1920
Guthrie	18729	-18.9	-3532	-28.0	-4262	-28.0	5	1	0	1900
Hamilton	19514	0.8	146	-18.3	-3589	-18.3	5	2	1	1930
Hancock	13752	9.6	1325	-16.2	-2439	-16.2	5	3	1	1940
Hardin	22794	-2.5	-576	-14.1	-3124	-14.1	5	1	1	1920
Harrison	25597	-23.6	-6037	-24.7	-4830	-24.7	5	2	1	1900
Henry	11315	-6.6	-1314	2.8	518	2.8	3	2	2	1870
Howard	14512	-9.7	-1407	-25.2	-3296	-25.2	5	2	0	1900
Humboldt	12667	3.6	450	-18.0	-2361	-18.0	5	3	1	1940
Ida	12327	-13.2	-1630	-21.8	-2332	-21.8	5	2	0	1900
Iowa	18722	-19.0	-3709	-7.6	-1205	-7.6	4	1	2	1900
Jackson	16405	-21.1	-4993	7.1	1328	7.1	4	1	3	1880
Jasper	25696	19.8	5329	7.7	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	-3159	-12.8	5	1	1	1900
Marion	18677	1771	7.3	4071	15.7	4	3	3	1990
Marshall	29653	5620	18.7	2665	7.5	5	5	3	1980
Mills	16764	-2700	-16.1	-862	-6.1	5	1	1	1900
Mitchell	14916	-971	-6.5	-3017	-21.6	4	3	1	1900
Monona	17980	-1677	-9.3	-6269	-38.4	5	3	0	1940
Monroe	15101	-6171	-34.3	-3700	-31.3	4	1	0	1910
Montgomery	17803	-2118	-11.9	-3609	-23.0	4	1	1	1900
Muscatine	22511	3906	13.8	7759	24.1	5	4	3	1980
O'Brien	16985	1985	11.7	-3526	-18.6	5	3	0	1940
Osceola	8725	1456	16.7	-2914	-28.6	3	3	0	1940
Page	23636	-266	-1.1	-7051	-29.5	5	2	1	1930
Palo Alto	14354	1537	10.7	-5222	-32.9	5	2	0	1940
Plymouth	22209	1043	4.7	136	0.6	5	3	3	1980
Pocahontas	15339	157	1.0	-5971	-38.5	5	3	0	1940
Polk	78111	143386	173.5	101130	44.8	5	5	4	1990
Pottawattamie	46508	15346	28.2	12946	18.6	4	4	2	1970
Poweshiek	18799	-70	-0.4	-311	-1.6	4	4	1	1920
Ringgold	15325	-5797	-37.8	-4108	-43.1	5	1	0	1900
Sac	17639	-121	-0.7	-5194	-29.6	5	2	0	1930
Scott	45572	49140	95.3	50281	49.9	5	5	3	1980
Shelby	17932	-1990	-11.1	-2712	-17.0	5	1	0	1900
Sioux	23337	3044	13.0	3522	13.4	5	4	2	1980
Story	23159	21135	91.3	29958	67.6	5	5	4	1990
Tama	24577	-2897	-11.8	-4269	-19.7	5	2	0	1900
Taylor	18580	-6364	-33.9	-5306	-42.7	5	0	0	1900
Union	19928	-4277	-21.5	-2901	-18.5	5	2	1	1900
Van Buren	5084	-6347	-36.6	-3331	-30.3	3	0	0	1870
Wapello	26955	11971	33.8	-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	155682	5.9	5	4	3	1980

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

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

Overall, the last half of the 1800s saw Iowa go from a sparsely- to a fully-settled state with a gain of more than two million people (Table 3). It was a time of generalized population growth shared by all the counties across the state. Two-thirds (67) of the counties gained population during each of the five decades and only four (Cedar, Henry, Jefferson, Van Buren) lost during more than one decade.

1900 to 1950

The turn of the century marked a significant change for Iowa's population (Figures 1, 2). The generalized growth of the previous 50 years came to a halt. In the decade from 1900 to 1910, Iowa experienced a population loss of 7,082. Although small in number and proportion (-0.3%), it was the first decade loss for the state. The decline was widespread among Iowa's counties; 71 had fewer residents in 1910 than in 1900. Mahaska decreased by more than 4,000 people; Keokuk, Lee, and Union dropped by more than 3,000. In percentage terms, Adams lost more than 19% of its population, while Fremont, Keokuk, Lucas, Ringgold, and Union declined by more than 15%. Such widespread losses were unprecedented in the state's history. In contrast, 28 counties gained during the period. The greatest percentage growth generally occurred in counties with large cities (Black Hawk, +38%; Polk, +34%; Woodbury, +24%), although Monroe was highest (+41%). Polk increased by more than 27,000 during that decade and both Black Hawk and Woodbury each added at least 12,000 residents. Polk became the first Iowa county with more than 100,000 residents. The total population for the state in 1910 stood at 2,224,771.

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

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

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

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

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

Iowa's growth was considerably slower in the first half of the twentieth century than it had been in the last half of the 1800s. Fewer than 400,000 residents were added from 1900 to 1950, which was an increase of 17.4%. Fifty-five counties had fewer residents in 1950 than they counted in 1900 (Table 3). Drops of at least 5,000 occurred in 13, topped by declines greater than 8,000 in Keokuk and Mahaska. Most of the counties with relatively large decreases were located in the southern section of the state. Of the 44 counties gaining population in the first half of this century, 16 added at least 5,000. Polk's increase of more than 143,000 doubled the next greatest increase (Black Hawk, +68,000). Three others gained nearly 50,000 in 50 years (Linn, +48,900; Scott, +49,100; Woodbury, +49,300). Thirteen counties (Black Hawk, Cerro Gordo, Dickinson, Dubuque, Johnson, Linn, Marshall, Polk, Scott, Story, Wapello, Webster, Woodbury) increased their counts each decade from 1900 to 1950; these tended to be Iowa's most urban counties. In contrast, 11 counties (Adair, Adams, Audubon, Clarke, Clayton, Davis, Keokuk, Louisa, Taylor, Van Buren, Wayne) declined each decade from the beginning of this century to 1950.

1950 to 1990

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

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

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

Population trends turned quite negative in the 1980s, when the number of Iowans dropped by 137,000 (-4.7%). Seven counties (Dallas, Henry, Johnson, Marion, Polk, Story, Warren) gained population from 1980 to 1990 (Figures 3, 4). The increases of 24,000 in Polk and 14,400 in Johnson were the only ones topping 2,000; these two counties also had the only gains above 5% (Polk, +8%; Johnson, +18%). Declines were greater than 5,000 in five counties (Black Hawk, -14,200; Clinton,

-6,100; Dubuque, -7,300; Scott, -9,000; Webster, -5,600) and between 1,000 and 4,999 in 65. Forty-eight counties had decreases of at least 10% in the 1980s (Figure 5). Seven of these declines were 15% or greater (Adams, -15%; Calhoun, -15%; Greene, -17%; Grundy, -16%; Kossuth, -15%; Palo Alto, -16%; Pocahontas, -16%).

Growth in population for the state continued to slow in the second half of this century. About 156,000 more people lived in Iowa in 1990 than in 1950, which was an increase of 5.9% (Table 3). But much of the gain that occurred in the 1960s and 1970s was negated by decline in the 1980s. Fifteen counties lost at least 5,000 residents in the last 40 years, with the greatest loss in Wapello (-11,700); another 49 counties were down by 1,000-4,999. Yet the state's population grew because some counties had large increases. Eight gained 1,000-4,999 residents and 11 added at least 5,000 residents. Four (Johnson, Linn, Polk, Scott) jumped by at least 50,000, with Polk topping the list with 101,000 more residents in 1990 than in 1950.

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

Concluding Comments

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

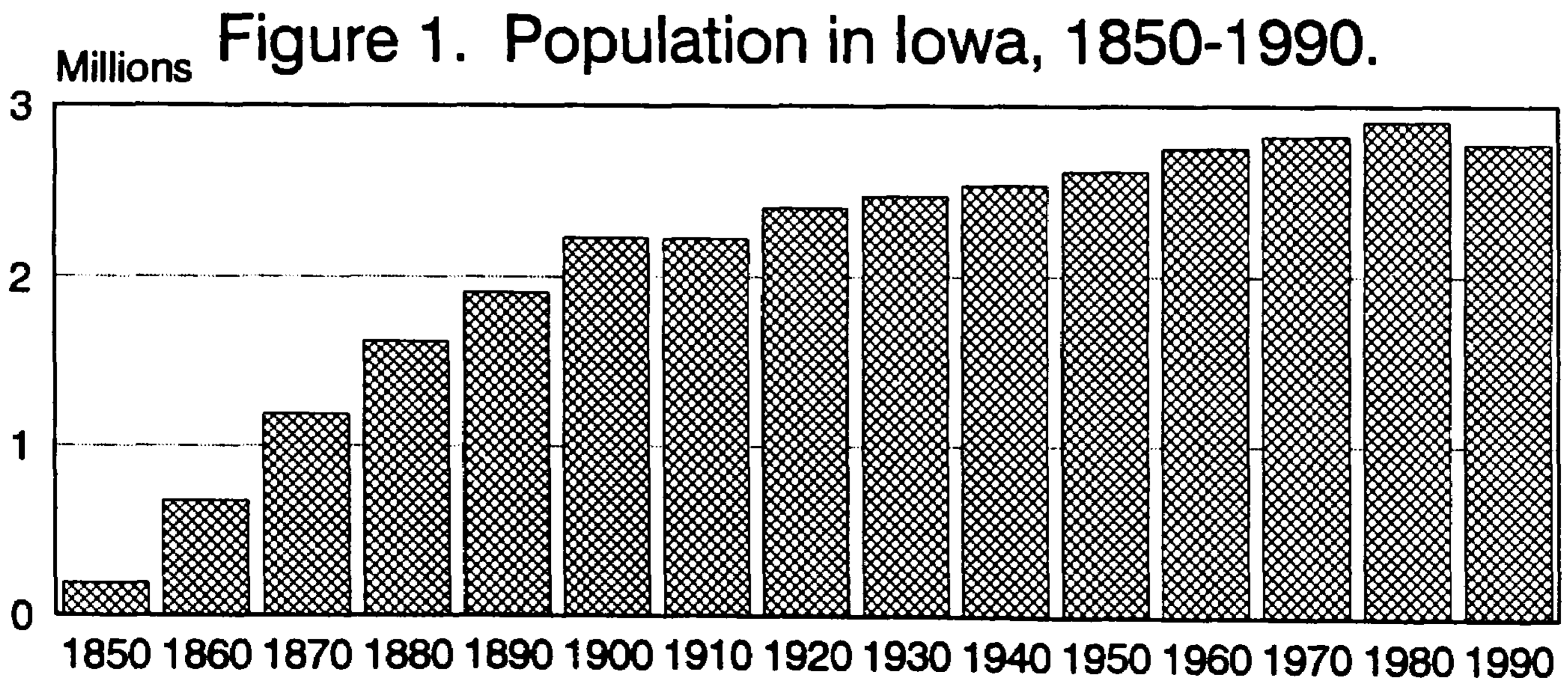


Figure 2. Historical population peaks, 1850-1990.

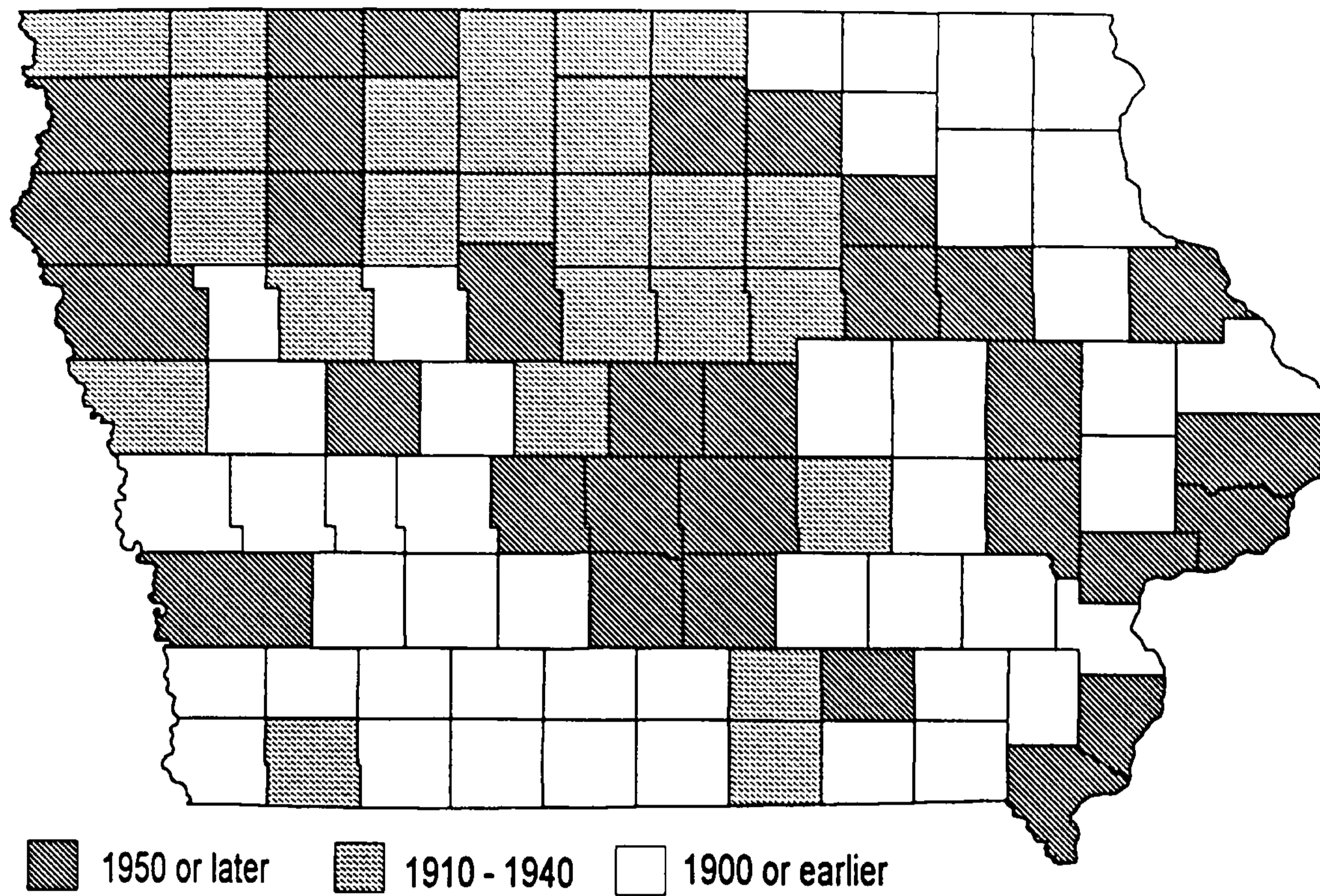


Figure 3. Population change, 1980-1990.

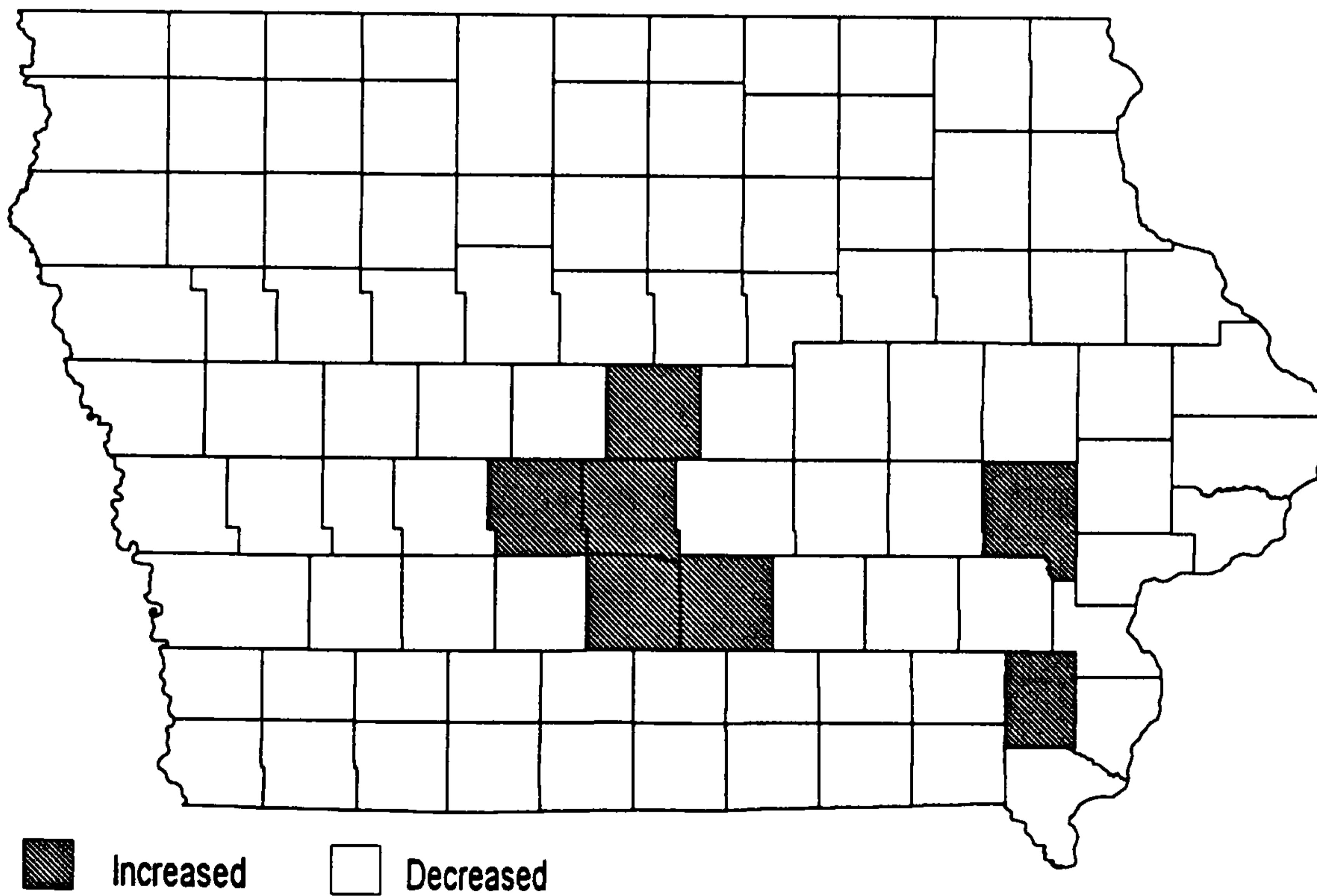


Figure 4. Percent increase, 1980-1990.

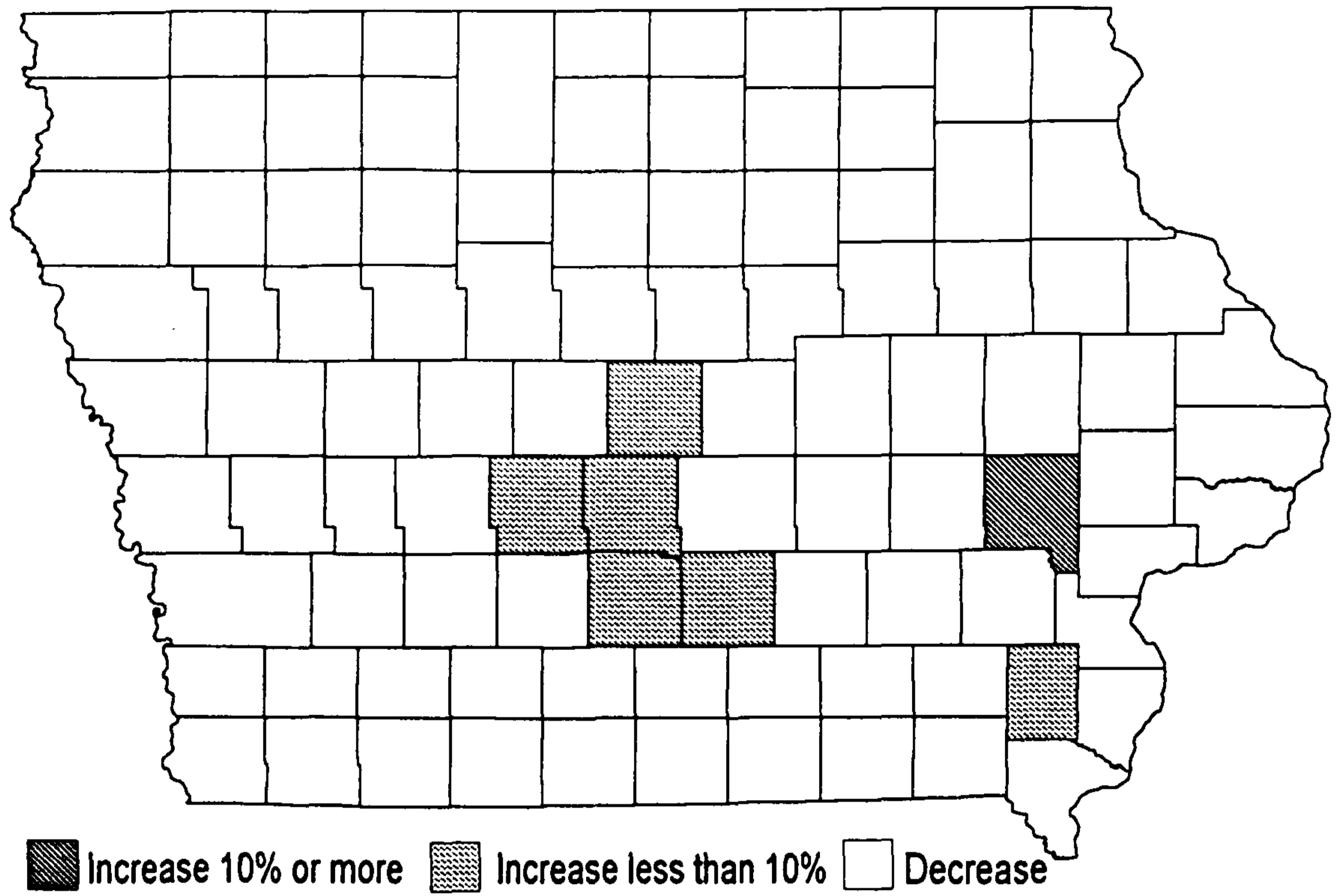
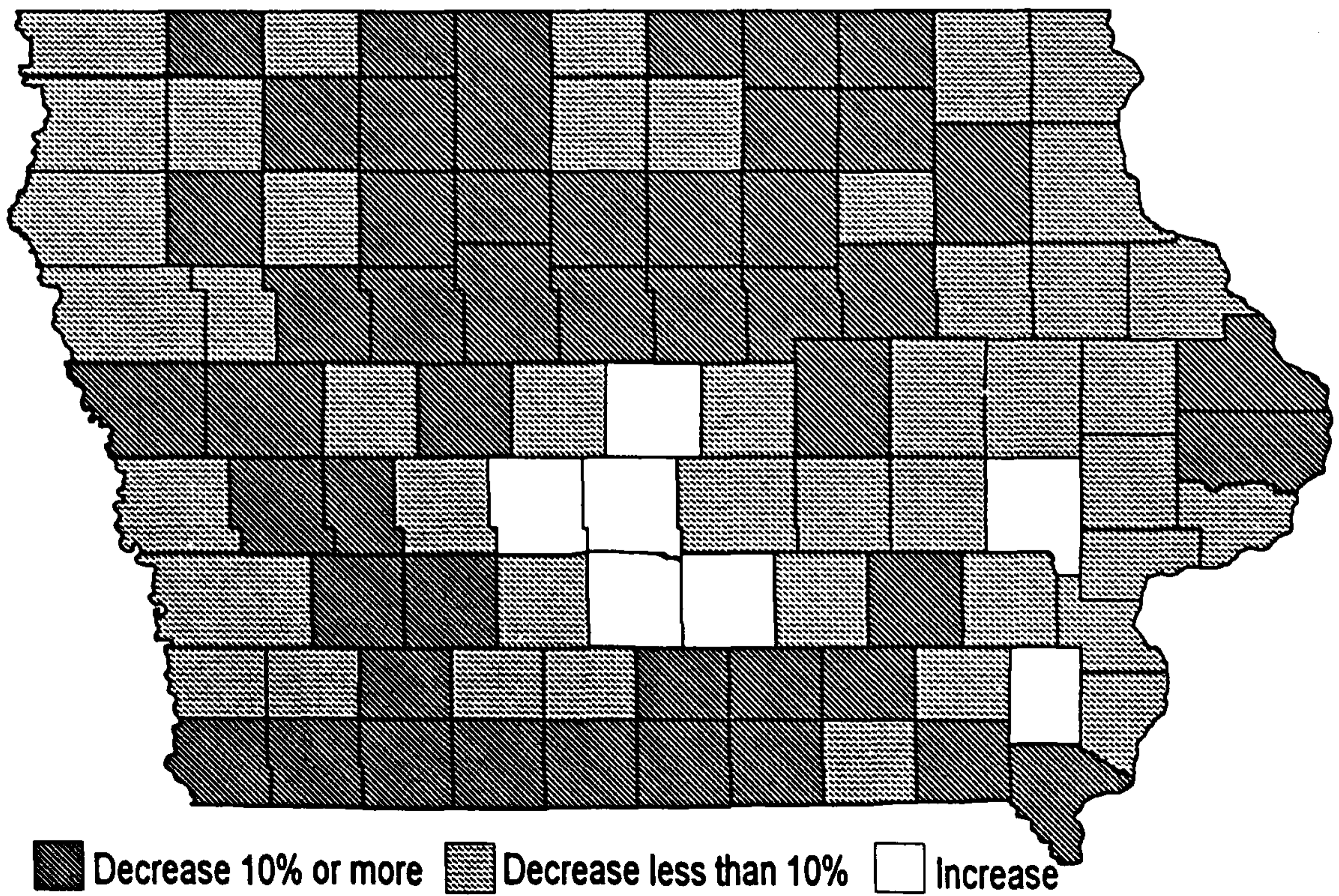


Figure 5. Percent decrease, 1980-1990.



Projected Population in Iowa's Counties: 2000-2010

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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 1992, Woods and Poole Economics, Inc. (1794 Columbia Road, NW; Washington, DC 20009), also provided projections to 2010. Economic models drive this third set of projections, with employment statistics acting as a key determinant of the figures. Woods and Poole update their projections annually; they had the advantage of using 1990 census data 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 2,858,000 to 2,965,000; the more recent the projection, the lower the figure. The two projections that are available for 2010 differ by only 6,000, with the Woods and Poole (2,936,000) projection higher than that from the Iowa Department of Transportation (2,930,000).

Using the new 1990 total populations as a base, more counties are projected to gain from 1990 to 2000 by the Office of the State Demographer (87 increase, 12 decrease) than by the Iowa Department of Transportation (68 increase, 31 decrease). But the most recent projections from Woods and Poole indicate that only 45 will gain while 54 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 54 (Woods and Poole) to 58 (Iowa Department of Transportation) counties projected to decline even though the state's total population is expected to increase.

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

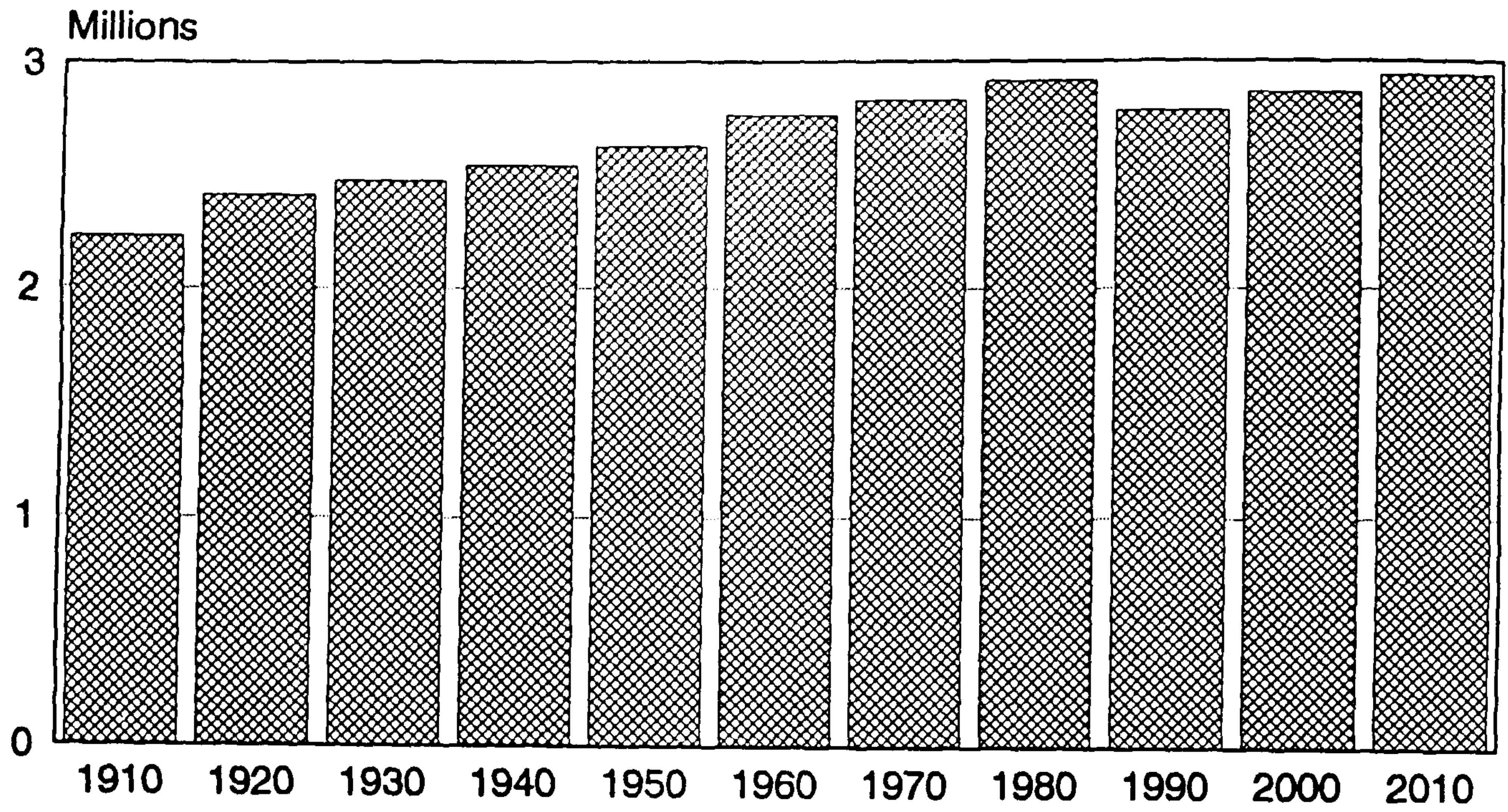
Table 1. Residents, 1990, and Projected Residents, 2000-2010, in Iowa Counties.

County	Census	State Demographer	Iowa Dept. of Transportation		Woods and Poole Economics	
	1990	2000	2000	2010	2000	2010
Adair	8409	8300	8240	7750	8520	8630
Adams	4866	5200	5030	4750	4730	4600
Allamakee	13855	15000	17760	19420	14010	14160
Appanoose	13743	14400	13290	12410	13530	13310
Audubon	7334	8100	7460	7020	7290	7260
Benton	22429	22400	23040	22940	23300	24100
Black Hawk	123798	139400	120620	113790	125410	126850
Boone	25186	25500	24730	24250	25280	25310
Bremer	22813	25600	27270	28830	22620	22440
Buchanan	20844	25000	26260	28360	20200	19550
Buena Vista	19965	21600	20370	20340	19860	19710
Butler	15731	17000	17990	18310	14840	14010
Calhoun	11508	12400	11180	10240	10900	10300
Carroll	21423	23900	24350	25300	20490	19550
Cass	15128	17500	16170	15940	15060	15010
Cedar	17381	18000	20380	21510	18150	18880
Cerro Gordo	46733	47400	47430	47340	45350	43940
Cherokee	14098	15300	14670	14070	13990	13910
Chickasaw	13295	15000	16640	17440	13040	12820
Clarke	8287	10000	9270	9710	8680	9060
Clay	17585	18000	16850	15770	17810	18000
Clayton	19054	21200	23520	25060	19150	19260
Clinton	51040	57400	50760	48270	50650	50200
Crawford	16775	21200	21570	23230	16720	16690
Dallas	29755	28900	33450	35930	31280	32700
Davis	8312	10400	10250	10970	8220	8130
Decatur	8338	8600	7550	6680	8370	8410
Delaware	18035	20400	24370	27900	18290	18550
Des Moines	42614	43300	41470	39640	42320	41930
Dickinson	14909	15800	15230	15170	17130	19160
Dubuque	86403	92300	93870	94770	86890	87250
Emmet	11569	13400	10640	9590	11120	10670
Fayette	21843	23900	23240	22390	20470	19180
Floyd	17058	18300	18670	18380	16120	15230
Franklin	11364	11500	12140	11820	10810	10290
Fremont	8226	9000	8160	7680	8080	7930
Greene	10045	11400	10160	9380	9260	8540
Grundy	12029	13000	11930	10970	11700	11410
Guthrie	10935	10600	10510	9930	10900	10850
Hamilton	16071	17200	15510	14580	15110	14160
Hancock	12638	13700	15000	15760	12250	11860
Hardin	19094	21000	20610	20230	18520	17980
Harrison	14730	16000	16300	16420	14410	14090
Henry	19226	17700	18760	18850	20100	20930
Howard	9809	10900	11850	12340	9550	9310
Humboldt	10756	11600	11670	11500	10260	9800
Ida	8365	8200	9180	9400	8420	8460
Iowa	14630	15000	14250	13820	14890	15110
Jackson	19950	22900	24090	25150	20250	20590
Jasper	34795	35100	35530	35410	35010	35130

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

County	Census	State Demographer	Iowa Dept. of Transportation		Woods and Poole Economics	
	1990	2000	2000	2010	2000	2010
Jefferson	16310	16200	16800	17200	16840	17330
Johnson	96119	93700	85240	87830	107160	117810
Jones	19444	20400	22360	23610	20230	20950
Keokuk	11624	11900	11700	11230	11160	10700
Kossuth	18591	21600	20280	19700	17510	16490
Lee	38687	42800	39780	38560	39160	39620
Linn	168767	167400	166690	166640	178470	187500
Louisa	11592	13300	13070	13740	12240	12900
Lucas	9070	10800	9810	9650	8820	8580
Lyon	11952	12700	14200	15030	11830	11690
Madison	12483	12800	13450	14030	12750	12980
Mahaska	21513	22200	22960	23210	21870	22170
Marion	30001	32500	33810	36410	34600	39110
Marshall	38276	44600	40030	39600	39080	39870
Mills	13202	15600	15120	16190	13460	13680
Mitchell	10928	11300	10700	10050	10360	9820
Monona	10034	10700	9470	8600	9940	9870
Monroe	8114	8900	7940	7440	7910	7700
Montgomery	12076	12200	12240	11790	11880	11680
Muscatine	39907	51000	49120	54620	42440	44940
O'Brien	15444	17100	16450	16340	15590	15740
Osceola	7267	7800	7590	7290	7320	7380
Page	16870	18500	16020	14810	16500	16160
Palo Alto	10669	12100	10760	9990	9790	8980
Plymouth	23388	24000	24590	24730	23920	24420
Pocahontas	9525	10500	10300	9890	9030	8570
Polk	327140	326900	322320	335310	364830	400940
Pottawattamie	82628	93700	94720	99970	82040	81310
Poweshiek	19033	17800	17950	17460	19420	19740
Ringgold	5420	5600	5490	5240	5210	4990
Sac	12324	12900	11500	10470	11660	11030
Scott	150979	176000	162060	164540	160950	170930
Shelby	13230	14300	15790	16320	13120	13020
Sioux	29903	32500	37990	42560	30630	31300
Story	74252	78500	71020	71000	84470	94530
Tama	17419	18800	19650	19880	17450	17500
Taylor	7114	8300	8020	7930	7050	7010
Union	12750	14400	12160	11480	13160	13570
Van Buren	7676	8500	8410	8380	7530	7370
Wapello	35696	36800	35960	34290	34450	33210
Warren	36033	37800	43250	48590	38430	40890
Washington	19612	20600	20650	21100	20570	21460
Wayne	7067	7800	6260	5520	6790	6530
Webster	40342	42900	36090	32260	37630	34990
Winnebago	12122	11300	13410	13730	11700	11280
Winneshiek	20847	22900	26690	29740	21220	21580
Woodbury	98276	105500	97900	97300	99470	100410
Worth	7991	8100	8680	8560	7640	7290
Wright	14269	15700	14090	13210	13710	13180
State of Iowa	2776755	2965100	2899780	2929730	2858300	2935900

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



Population and Housing Units in Townships and Incorporated Places of Iowa's Counties: 1970-1990

Willis Goudy, Iowa State University
Jessie Beebe, Iowa State University
Renea Miller, Iowa State University

County subdivisions in Iowa are minor civil divisions known as townships. In agreement with state government, cities that are coextensive with a township are treated as if they are independent of any township. Townships as of 1990 are listed for each county in Table 1. Cities coextensive with a township are indicated with separate lines at the same level of indentation as townships. One unorganized territory designated by the U. S. Bureau of the Census (Saylorville Reservoir Unorganized Territory in Polk County) completes coverage of the state. Incorporated places that are not coextensive with a township are listed as well. They are indented under the township in which part or all of their populations reside.

Four symbols are used in Table 1. A dash (-) represents zero. Three dots (...) mean not applicable. When information is not available, (NA) appears in the table. Finally, an asterisk (*) following the name of an area means that there has been a geographic change (annexation, detachment, new incorporation, disincorporation, merger, partial redistricting, abolished area) since the information published from the 1980 census for that area. Geographic change information for each county is reported in notes at the end of this section.

Because townships and cities may not cover exactly the same geographic area from one period to the next, caution must be exercised in examining changes between censuses. Those needing precise information on changes that may have occurred in a particular township should review the volumes from the 1970-1990 censuses. Some incorporated places cross county boundaries; summing the parts (pts. in the table) to obtain total population may require obtaining information from two (and in a few cases three) counties. Also, the numbers in Table 1 do not include corrections to county and incorporated place totals reported by the bureau after the 1990 census, because such changes are not listed by township. Generally, these changes are minor; corrected place totals are listed in notes at the end of this section.

More than half (817 or 51.0%) of the 1,603 townships had fewer than 500 residents in 1990. Another 399 (24.9%) had from 500 through 999 people. The remaining 387 (24.1%) had at least 1,000 residents, although only 23 townships had more than 10,000, six of which were in Polk County. Among the 52 independent cities, however, only four had fewer than 1,000 residents, while nearly a quarter (12 or 23.7%) had at least 10,000 inhabitants.

Notes: The data in this section were published in **POPULATION AND HOUSING UNIT COUNTS: IOWA** (Washington, D.C.: U.S. Bureau of the Census, 1990 Census of Population and Housing, 1990 CPH-2-17). Because 1990 geography serves as the base, the population and housing counts in townships and independent cities do not always add to the county totals reported for 1980 or 1970; explanations are included in the paragraphs that follow, although earlier census publications should be reviewed for more details. Geographic change information in counties from 1980 to 1990 (plus limited 1970-1980 changes in a few instances) includes the following:

Adair County: abolished minor civil division (MCD): Bridgewater township, area added to Jackson and Washington townships; the part of Bridgewater city formerly in Bridgewater township now in Jackson township; Bridgewater township had 246 people in 1980 and 200 in 1970; annexation: Orient city; MCDs abolished 1970-1980: Adair (693 residents in 1970) (added to Summit township) and Stuart (338 residents in 1970) townships, areas added to Lincoln township. **Allamakee County:** annexations: Postville city, Waukon city. **Audubon County:** annexation: Audubon city. **Benton County:** annexation: Vinton city from Taylor township; additional annexations: Norway city, Urbana city. **Black Hawk County:** partly redistricted: Union and Washington township boundaries changed, Cedar Falls city shown as partly in these townships in 1980; annexations: Waterloo city from East Waterloo township; additional annexations: Dunkerton city, Elk Run Heights city, Evansdale city, Hudson city, Raymond city; detachment: Waterloo city to East Waterloo township; additional detachment: Raymond city. **Boone County:** annexation: Boone city. **Bremer County:** annexation: Sumner city from Sumner No. 2 township; additional annexations: Denver city, Janesville city, Plainfield city; detachment: Frederika city. **Buchanan County:** annexation: Independence city. **Buena Vista County:** annexation: Storm Lake city from Hayes and Washington townships; additional annexations: Albert City city, Alta city, Newell city.

Calhoun County: detachment: Farnhamville city. **Carroll County:** annexation: Carroll city from Grant and Maple River townships; additional annexations: Coon Rapids city; detachment: Carroll city to Grant township. **Cass County:** annexation: Anita city; MCD abolished 1970-1980: Atlantic township (7,306 residents in 1970), area added to Grove township. **Cedar County:** annexations: Lowden city, Mechanicsville city, Stanwood city, West Branch city; detachment: Lowden city. **Cerro Gordo County:** annexations: Clear Lake city from Clear Lake and Lake townships, Mason City city from Mason township; additional annexation: Rock Falls city; detachment: Clear Lake city to Lake township. **Cherokee County:** annexation: Marcus city; detachment: Marcus city. **Chickasaw County:** annexation: New Hampton city. **Clarke County:** annexation: Osceola city from Osceola and Ward townships. **Clay County:** annexation: Spencer city from Riverton, Sioux, and Summit townships; detachment: Fostoria city. **Clayton County:** annexations: Edgewood city, Elkader city, McGregor city, Monona city, Strawberry Point city. **Clinton County:** annexation: Clinton city from Hampshire township; additional annexations: Camanche city, Grand Mound city, Welton city; MCDs abolished 1970-1980: Lincoln (85 residents in 1970) and Spring Valley (174 residents in 1970) townships, areas added to Hampshire township. **Crawford County:** annexations: Charter Oak city, Schleswig city.

Dallas County: annexed into Dallas County: West Des Moines city; additional annexations: Adel city, Dallas Center city, Granger city, Perry city, Van Meter city, Waukee city. **Decatur County:** annexations: Lamoni city from Fayette and New Buda townships, Leon city from Center township; additional annexation: Decatur City city. **Delaware County:** annexations: Edgewood city, Hopkinton city, Manchester city. **Des Moines County:** annexations: Burlington city, Mediapolis city; MCD abolished 1970-1980: Augusta (230 residents in 1970) township, area added to Danville and Union townships. **Dickinson County:** annexations: Milford city, Okoboji city, Orleans city, Spirit Lake city. **Dubuque County:** annexation: Dubuque city from Dubuque and Table Mound townships; additional annexations: Asbury city, Bernard city, Cascade city, Epworth city, Holy Cross city, New Vienna city, Peosta city, Rickardsville city, Sherrill city. **Emmet County:** annexation: Estherville city.

Fayette County: partly redistricted: Union township gained area from Westfield township; annexed into Fayette County: Stanley city; additional annexations: Fayette city from Westfield township, West Union city from Union township; additional annexation: Oelwein city; detachment: Westgate city. **Floyd County:** annexation: Charles City city from Charles township. **Fremont County:** annexation: Hamburg city from Washington township. **Greene County:** annexation: Jefferson city from Grant and Hardin townships; detachments: Churdan city. **Grundy County:** annexations: Dike city, Grundy Center city. **Guthrie County:** annexations: Panora city, Yale city. **Hamilton County:** annexation: Webster City city from Cass, Freedom, and Independence townships; additional annexations: Ellsworth city, Kamrar city. **Hancock County:** annexations: Forest City city, Gamer city. **Hardin County:** annexations: Alden city, Iowa Falls city. **Harrison County:** annexations: Dunlap city, Logan city, Woodbine city. **Henry County:** incorporated: Westwood city; annexation: Mount Pleasant city from center township; additional annexation: Wayland city; detachment: Mount Pleasant city to Center township. **Ida County:** annexation: Holstein city. **Iowa County:** annexations: North English city, Williamsburg city.

Jackson County: disincorporated: Hurstville; annexation: Maquoketa city. **Jasper County:** annexations: Colfax city, Newton city, Prairie City city. **Jefferson County:** annexation: Fairfield city from Buchanan and Center townships. **Johnson County:** annexation: Iowa City city from East Lucas, Scott, and West Lucas townships; additional annexations: Coralville city, Hills city, North Liberty city, Oxford city, Solon city, Tiffin city. **Jones County:** annexations: Monticello city, Onslow city; independent city abolished 1970-1980 (but retained as a city): Monticello city (1970 population 3,509) added under Lovell township. **Kossuth County:** annexation: Algona city from Cresco, Irvington, and Union townships; additional annexations: Bancroft city, Burt city, Titonka city, West Bend city. **Lee County:** annexation: Keokuk city from Jackson township; additional annexations: Fort Madison city, Montrose city. **Linn County:** annexation: Cedar Rapids city from Bertram, Clinton, College, Fairfax, Marion, and Monroe townships; additional annexations: Center Point city, Central City city, Fairfax city, Hiawatha city, Lisbon city, Marion city, Palo city, Walford city; detachments: Marion city, Walker city. **Louisa County:** annexations: Columbus Junction city, Grandview city. **Lucas County:** annexation: Chariton city from Lincoln township.

Madison County: annexation: Winterset city from Lincoln and Union townships; additional annexations: Patterson city, St. Charles city. **Mahaska County:** annexation: Oskaloosa city from Lincoln and Spring Creek townships; additional annexation: Eddyville city. **Marion County:** merged: Melcher city and Dallas city to form Melcher-Dallas city; annexations: Knoxville city, Melcher-Dallas city, Pella city, Pleasantville city. **Marshall County:** annexation: Marshalltown city. **Mills County:** annexation: Glenwood city. **Mitchell County:** annexations: Osage city, St. Ansgar city; detachment: Riceville city. **Monroe County:** annexations: Albia city, Lovilia city. **Montgomery County:** MCD abolished 1970-1980: Jackson township (1,402 residents in 1970), area added to East township. **Muscatine County:** annexations: Muscatine city, West Liberty city, Wilton city; detachment: Muscatine city. **O'Brien County:** annexations: Paullina city, Sanborn city, Sheldon city, Sutherland city. **Osceola County:** annexations: Ashton city, Melvin city.

Page County: annexation: Shenandoah city; detachment: Northboro city. **Palo Alto County:** annexations: Graettinger city, West Bend city. **Plymouth County:** annexation: Le Mars city. **Pocahontas County:** annexations: Laurens city, Pocahontas city. **Polk County:** annexations: Altoona city, Ankeny city, Bondurant city, Clive city, Des Moines city, Grimes city, Johnston city, Pleasant Hill city, Polk City city, Urbandale city, West Des Moines city; detachment: Bondurant city. **Pottawattamie County:** annexations: Avoca city, Carson city, Council Bluffs city, Treynor city, Walnut city; detachment: Underwood city. **Poweshiek County:** annexation: Grinnell city from Grant township. **Ringgold County:** annexation: Mount Ayr city from Poe and Rice townships. **Sac County:** annexations: Early city, Wall Lake city. **Scott County:** partly redistricted: Le Claire, Lincoln, and Pleasant Valley townships changed boundaries; disincorporated: Plain View; annexation: Davenport city shown as coextensive with Davenport City township from Blue Grass and Buffalo townships; additional annexations: Buffalo city, Le Claire city. **Sioux County:** annexations: Hospers city, Hull city, Orange City city, Rock Valley city, Sheldon city, Sioux Center city. **Story County:** annexations: Ames city, Story City city.

Tama County: annexations: Toledo city, Traer city; detachments: Toledo city, Vining city. **Taylor County:** annexation: Lenox city. **Union County:** annexation: Afton city. **Wapello County:** annexation: Eldon city. **Warren County:** annexation: Indianola city from Lincoln township; additional annexations: Carlisle city, Norwalk city. **Washington County:** annexations: Riverside city, Washington city, Wellman city. **Webster County:** annexation: Fort Dodge city from Cooper township; additional annexations: Gowrie city, Vincent city. **Winnebago County:** annexation: Forest City city. **Winneshiek County:** annexation: Decorah city. **Woodbury County:** annexation: Sioux City city from Concord and Woodbury townships; additional annexation: Sloan city; detachments: Sergeant Bluff city. **Worth County:** annexation: Grafton city. **Wright County:** annexations: Belmond city, Goldfield city.

The U.S. Bureau of the Census issued revised population counts for incorporated places as they became available. Unfortunately, revisions are not reported for townships; thus, changes have not been included in Table 1. Changes for the following incorporated places have been released by the bureau as of 13 August 1993 although they are not included in Table 1:

Incorporated Place	Initial 1990 Population	Revised 1990 Population	Incorporated Place	Initial 1990 Population	Revised 1990 Population
Alburnett	456	459	Marion	20403	20374
Altoona	7191	7242	Mechanicsville	1012	1075
Archer	131	145	Millville	20	32
Balltown	64	74	Minden	498	539
Bettendorf	28132	28139	Morrison	113	125
Buck Grove	20	55	Neola	894	909
Buffalo	1260	1250	Newton	14789	14799
Cantril	262	271	Oskaloosa	10632	10600
Cedar Rapids	108751	108780	Peosta	128	135
Clare	161	183	Prairie City	1360	1366
Crescent	113	469	Princeton	806	804
Cushing	220	241	Pulaski	221	262
Des Moines	193187	193189	Rickardsville	171	193
Dixon	202	228	Ricketts	105	122
Dyersville	3703	3696	Riverdale	433	419
Eddyville	1010	1036	Rock Falls	130	155
Edgewood	776	842	Rodney	65	71
Epworth	1297	1303	Sac City	2492	2516
Farley	1354	1348	Sheldon	4937	4904
Glenwood	4571	4960	Sioux Rapids	761	792
Graf	78	66	Smithland	235	252
Greeley	263	284	Spirit Lake	3871	3872
Hillsboro	151	169	Springbrook	116	165
Holy Cross	304	293	St. Olaf	111	125
Iowa City	59738	59735	Tabor	957	994
Iowa Falls	5424	5435	University Park	604	598
Lovilia	551	566	Wallingford	196	235
Maquoketa	6111	6129	Welton	177	184

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990.

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Adair County	8409	9509	9487	3714	3963	3645	Allamakee County (cont.)						
Eureka township	158	195	230	61	86	91	Lafayette township	417	419	436	240	241	136
Grand River township	198	250	250	79	87	94	Lansing township	1495	1692	1625	832	820	614
Greenfield township	2129	2310	2273	1029	1030	941	Lansing city	1007	1181	1227	535	545	469
Greenfield city (pt.)	2074	2240	2212	1006	1007	917	Linton township	264	287	342	101	97	106
Grove township	213	290	348	98	115	118	Ludlow township	571	623	659	196	203	186
Harrison township	200	233	262	89	91	89	Makee township	4323	4623	4351	1816	1810	1476
Jackson township*	427	293	295	197	102	100	Waukon city (pt.)*	3805	3775	3684	1665	1561	1300
Bridgewater city*	209	233	188	110	123	98	Paint Creek township	478	505	518	176	176	193
Jefferson township	233	273	320	94	115	119	Waterville city	140	157	158	57	63	63
Lee township	237	285	308	92	102	92	Post township	1908	2015	2075	830	834	753
Greenfield city (pt.)	-	3	...	-	2	...	Postville city (pt.)*	1465	1475	1546	669	651	610
Lincoln township	814	805	370	323	349	131	Taylor township	510	509	481	857	908	349
Stuart city (pt.)	529	523	338	217	232	146	Harpers Ferry city	284	258	227	527	559	202
Orient township	618	664	589	270	267	250	Union City township	245	277	341	94	100	104
Orient city*	376	416	324	173	172	145	Union Prairie township	685	798	731	259	262	230
Prussia township	247	288	361	96	111	120	Waukon city (pt.)*	212	208	199	92	93	69
Richland township	251	293	354	101	114	121	Waterloo township	310	455	406	140	136	128
Summerset township	1036	1198	1182	457	474	421	Appanoose County	13743	15511	15007	6402	6706	6120
Fontanelle city	712	805	752	326	337	290	Bellaire township	618	697	710	262	276	315
Summit township	1045	1105	283	466	497	95	Mystic city (pt.)	-	22	-	-	7	-
Adair city (pt.)	830	817	693	383	388	302	Numa city (pt.)	112	170	160	48	69	77
Union township	219	279	269	87	91	99	Caldwell township	432	537	484	194	219	202
Walnut township	198	275	331	92	117	129	Exline city	187	217	224	87	98	100
Casey city (pt.)	15	14	31	9	6	11	Centerville city	5936	6558	6531	2821	2945	2668
Washington township*	186	227	231	83	88	83	Chariton township	114	154	92	105	98	43
Adams County	4866	5731	6322	2234	2478	2381	Douglas township	176	220	206	70	81	66
Carl township	213	257	272	96	113	105	Franklin township	171	210	195	74	91	92
Colony township	215	242	278	88	103	98	Independence township	197	239	165	177	169	76
Douglas township	247	354	400	113	154	150	Johns township	349	449	430	164	174	166
Carbon city	60	110	135	36	57	59	Plano city	75	111	109	42	47	40
Grant township	218	262	312	87	100	106	Lincoln township	248	337	245	113	131	129
Lenox city (pt.)*	-	2	...	-	1	...	Numa city (pt.)	39	35	5	15	11	2
Jasper township	459	528	556	179	205	178	Pleasant township	793	1052	938	346	392	376
Corning city (pt.)	58	54	25	27	24	13	Cincinnati city	363	593	570	189	237	238
Lincoln township	129	197	266	60	82	94	Sharon township	209	244	208	91	92	85
Mercer township	178	233	268	84	96	100	Taylor township	906	993	943	422	422	367
Nodaway township	295	422	455	139	172	158	Moravia city	679	706	699	328	318	288
Nodaway city	153	185	176	71	81	69	Udell township	403	411	453	172	176	174
Prescott township	478	571	564	216	232	220	Udell city	76	75	71	29	31	30
Prescott city	287	349	305	132	138	133	Unionville city	133	150	161	66	74	70
Quincy township	2023	2177	2355	1006	1017	960	Union township	195	178	180	80	77	59
Corning city (pt.)	1748	1885	2070	888	905	855	Vermillion township*	930	795	669	355	293	239
Union township	205	237	287	82	94	99	Walnut township	993	1154	1211	457	521	555
Washington township	206	251	309	84	110	113	Mystic city (pt.)	545	643	696	243	288	329
Allamakee County	13855	15108	14968	6603	6578	5233	Rathbun city	89	93	113	46	69	61
Center township	309	339	383	114	121	116	Washington township	795	923	998	377	407	373
Fairview township	141	134	156	110	47	95	Moulton city (pt.)	542	657	678	276	301	265
Franklin township	471	510	471	159	164	141	Wells township	278	360	349	122	142	135
French Creek township	222	191	212	75	63	59	Moulton city (pt.)	71	105	85	33	46	36
Hanover township	202	240	262	69	68	73	Audubon County	7334	8559	9595	3247	3524	3394
Iowa township	749	839	873	334	322	286	Audubon township	271	342	465	131	136	148
New Albin city	534	609	644	246	250	222	Cameron township	204	272	335	79	100	114
Jefferson township	555	652	646	201	206	188	Douglas township	300	401	446	108	130	133
Waukon city (pt.)*	2	...	...	1	...	...	Exira township	1319	1420	1504	618	660	636

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Audubon County (cont.)							Black Hawk County (cont.)						
Exira township (cont.)							Big Creek township	2452	2699	2595	1047	1058	850
Brayton city (pt.)	70	100	93	45	49	46	La Porte City city	2128	2324	2256	925	943	759
Exira city	955	978	966	441	473	443	Black Hawk township	2546	3523	1965	967	1189	607
Greeley township	197	248	315	84	104	106	Cedar Falls city (pt.)	149	(NA)	...	73	(NA)	...
Hamlin township	336	401	490	149	169	165	Hudson city*	2037	2267	1535	756	727	475
Leroy township	2920	3347	3482	1339	1398	1258	Cedar township	1765	2209	2261	658	683	576
Audubon city*	2524	2841	2907	1185	1230	1091	Cedar Falls township	34168	33970	31413	12011	11327	8894
Lincoln township	344	467	584	149	176	174	Cedar Falls city (pt.)	33854	33608	29597	11891	11208	8286
Gray city	83	108	145	45	48	50	Eagle township	510	599	605	168	173	149
Melville township	171	226	288	64	80	93	East Waterloo township	6232	6467	6838	2329	2207	1925
Oakfield township	416	449	525	165	187	172	Elk Run Heights city (pt.)*	1088	1186	1175	381	361	291
Brayton city (pt.)	78	70	58	36	32	25	Evansdale city*	4638	4798	5038	1755	1669	1462
Sharon township	614	707	782	279	296	294	Fox township	553	646	744	175	175	165
Kimballton city	289	362	343	158	162	158	Lester township	1359	1602	1208	501	525	352
Viola township	242	279	379	82	88	101	Dunkerton city*	746	718	563	292	261	188
Benton County							Lincoln township	430	470	504	165	166	161
Belle Plaine city	2834	2903	2810	1289	1303	1153	Mount Vernon township	1436	1421	1367	455	424	333
Benton township	632	634	466	333	209	198	Cedar Falls city (pt.)	295	142	...	102	56	...
Big Grove township	238	317	387	96	109	122	Orange township	381	450	384	140	152	104
Bruce township	321	390	406	126	128	120	Poyner township	2535	2920	2802	914	961	753
Canton township	698	755	399	245	252	129	Elk Run Heights city (pt.)*	-	-	...	-	-	...
Cedar township	463	607	638	215	221	235	Gilbertville city	748	740	655	279	245	163
Mount Auburn city	134	188	200	63	75	70	Raymond city*	619	655	582	212	202	147
Eden township	300	368	418	120	123	127	Spring Creek township	357	422	415	154	169	147
Eldorado township	1216	1308	1150	468	462	370	Union township	777	826	691	291	265	202
Newhall city	854	899	701	341	340	247	Washington township	730	2519	2235	285	867	628
Florence township	1317	1349	1266	492	474	400	Janesville city (pt.)*	133	112	45	61	39	12
Norway city*	583	633	554	229	226	187	Waterloo city*	66467	75985	75533	29023	29545	25301
Walford city (pt.)*	290	266	285	111	107	92	Boone County						
Fremont township	1347	1346	1130	493	475	340	Amaqua township	287	369	433	120	142	140
Atkins city	637	678	581	253	258	188	Beaver city	46	85	113	28	32	35
Harrison township	332	385	376	124	131	117	Beaver township	214	251	286	84	92	95
Homer township	252	321	362	107	116	116	Berkley city (pt.)	3	6	10	1	1	1
Iowa township	401	441	505	161	161	166	Cass township	681	845	1132	102	84	75
Luzerne city (pt.)	29	37	42	12	13	12	Colfax township	630	634	672	259	272	223
Jackson township	610	786	834	270	301	272	Luther city (pt.)	5	9	11	2	2	2
Garrison city	320	411	383	152	173	135	Des Moines township	13310	13663	13707	5713	5717	5044
Kane township	858	942	986	357	388	364	Boone city (pt.)*	12383	12594	12468	5327	5313	4590
Keystone city	568	618	549	252	268	236	Dodge township	614	740	850	238	254	243
Leroy township	1109	1153	1140	453	448	414	Fraser city (pt.)	111	129	136	62	56	48
Blairstown city	672	695	612	290	288	238	Douglas township	2254	2224	2202	875	875	766
Luzerne city (pt.)	81	77	92	29	28	34	Madrid city (pt.)	1803	1786	1883	702	723	652
Monroe township	262	279	316	100	108	119	Garden township	1059	1081	1116	427	428	355
Polk township	1213	1298	1332	469	442	404	Madrid city (pt.)	592	495	565	245	194	176
Urbana city*	595	574	552	230	214	193	Sheldahl city (pt.)	22	25	21	10	9	10
St. Clair township	485	506	641	169	168	163	Grant township	437	543	581	216	229	240
Shellsburg city	765	771	740	298	297	245	Boxholm city	214	267	242	113	116	113
Taylor township	696	723	736	251	231	226	Harrison township	393	409	426	151	155	149
Union township	977	1027	1002	400	386	355	Jackson township	456	484	598	175	179	175
Van Horne city	695	682	613	297	275	240	Marcy township	984	1000	731	403	384	265
Vinton city*	5103	5040	4845	2089	2157	1770	Ogden city (pt.)	233	241	147	108	93	55
Black Hawk County							Peoples township	373	392	408	139	151	149
Barclay township	614	653	717	209	204	185	Pilot Mound township	380	406	419	178	185	181
Bennington township	486	580	639	196	200	181	Fraser city (pt.)	9	4	7	5	2	6
							Pilot Mound city	199	223	214	97	105	94

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Boone County (cont.)							Buchanan County (cont.)						
Union township	454	446	461	173	178	172	Perry township	3023	3394	2523	1275	1283	918
Berkley city (pt.)	36	43	46	15	17	15	Jesup city	2121	2343	1662	827	876	544
Worth township	529	509	482	208	197	163	Sumner township	3237	2232	479	1190	702	139
Boone city (pt.)*	9	8	(NA)	5	3	(NA)	Independence city (pt.)*	2492	1299	...	1004	504	...
Luther city (pt.)	149	146	178	60	61	55	Washington township	4532	6145	7039	2019	2387	2565
Yell township	2131	2188	1966	910	905	751	Independence city (pt.)*	3480	5093	5910	1476	1959	2074
Fraser city (pt.)	-	6	-	-	5	-	Westburg township	482	574	1026	165	181	177
Ogden city (pt.)	1676	1712	1514	731	716	616	Buena Vista County						
Bremer County							19965	20774	20693	8140	8198	7242	
Dayton township	438	521	569	159	170	158	Barnes township	775	852	891	330	349	322
Douglas township	454	570	621	173	189	181	Linn Grove city	194	205	240	95	103	101
Franklin township	474	551	569	173	163	155	Rembrandt city	229	291	250	105	119	104
Frederika township	376	436	422	201	184	159	Brooke township	188	245	285	78	90	94
Frederika city*	188	223	190	113	110	88	Coon township	221	306	369	94	111	115
Fremont township	1617	1868	1931	723	733	632	Elk township	284	280	361	107	119	115
Tripoli city	1188	1280	1345	546	536	478	Fairfield township	1057	1162	1108	442	484	428
Jackson township	1321	1426	1175	524	481	382	Albert City city*	779	818	683	324	344	283
Janesville city (pt.)*	689	728	696	282	268	232	Grant township	352	410	444	133	148	139
Jefferson township	2543	2863	2104	968	991	653	Hayes township	1207	1225	857	478	470	324
Denver city*	1600	1647	1169	622	590	382	Lakeside city	522	589	353	216	227	140
Lafayette township	580	614	657	212	200	190	Lee township	296	330	349	121	140	131
Le Roy township	257	285	316	87	92	84	Lincoln township	236	297	378	90	103	108
Maxfield township	1384	1588	1372	525	524	413	Maple Valley township	293	343	402	107	127	131
Readlyn city	773	858	616	317	309	209	Newell township	1447	1280	1304	538	560	475
Polk township	1030	1194	1208	420	439	393	Newell city*	1089	913	877	398	414	338
Plainfield city*	455	469	446	193	203	169	Nokomis township	2180	2155	2193	899	860	782
Sumner city*	2078	2335	2174	900	945	842	Alta city*	1820	1720	1717	761	713	633
Sumner No. 2 township	416	485	518	144	151	140	Poland township	564	748	856	296	339	326
Warren township	666	754	828	234	238	221	Marathon city	320	442	447	183	208	190
Washington township	640	886	1068	244	326	350	Providence township	363	426	477	137	149	142
Waverly city	8539	8444	7205	3160	2985	2267	Scott township	283	300	385	106	121	124
Buchanan County							Sioux Rapids city	761	897	813	377	419	372
Buffalo township	570	729	724	232	253	243	Storm Lake city*	8769	8814	8591	3557	3363	2933
Aurora city (pt.)	164	215	192	69	81	73	Washington township	689	704	630	250	246	181
Stanley city (pt.)*	116	154	151	52	56	51	Truesdale city	132	128	132	48	45	44
Byron township	1092	1194	1221	445	462	410	Butler County						
Winthrop city	742	767	750	314	312	279	15731	17668	16953	6483	6779	5850	
Cono township	431	450	586	156	169	150	Albion township	2015	2258	1836	861	853	654
Fairbank township	1770	1663	1610	576	516	447	Parkersburg city (pt.)	1590	1716	1379	709	693	517
Fairbank city (pt.)	851	837	761	351	321	261	Beaver township	1362	1550	1296	522	543	406
Fremont township	295	400	485	113	126	126	New Hartford city	683	764	690	265	274	217
Hazleton township	1480	1641	1350	566	552	416	Bennezette township	317	361	473	136	156	156
Hazleton city	733	877	626	329	332	216	Aredale city	88	88	126	44	50	51
Homer township	634	693	684	241	253	231	Butler township	1624	1729	1646	646	661	598
Rowley city	272	275	241	108	101	93	Clarksville city (pt.)	1095	1151	1114	458	478	437
Jefferson township	717	845	963	276	302	287	Coldwater township	1540	1784	1883	710	757	702
Brandon city	320	337	432	137	143	129	Greene city	1142	1332	1363	558	591	552
Liberty township	1097	1099	1059	436	397	346	Dayton township	357	387	465	127	139	140
Quasqueton city	579	599	464	249	228	175	Fremont township	417	464	495	144	155	151
Madison township	779	969	992	338	386	350	Jackson township	737	828	820	292	296	247
Aurora city (pt.)	32	33	37	14	17	17	Allison city (pt.)	40	50	28	20	16	9
Lamont city	471	554	498	220	240	203	Clarksville city (pt.)	287	273	246	113	113	78
Middlefield township	327	384	493	115	117	113	Jefferson township	321	385	429	118	135	120
Newton township	378	488	528	129	136	137	Madison township	348	409	465	152	157	167
							Monroe township	1696	1748	1687	692	705	605
							Aplington city	1034	1027	936	439	445	367

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Butler County (cont.)							Carroll County (cont.)						
Monroe township (cont.)							Grant township (cont.)						
Parkersburg city (pt.)	214	252	252	99	105	96	Lidderdale city (pt.)	33	34	31	17	17	8
Pittsford township	1009	1223	1185	456	500	439	Jasper township	396	470	531	181	198	210
Bristow city (pt.)	28	52	36	10	13	15	Lanesboro city	182	196	203	87	95	96
Dumont city	705	815	724	330	355	280	Kniest township	444	518	651	162	173	163
Ripley township	301	363	373	114	118	107	Breda city (pt.)	11	6	14	4	3	4
Shell Rock township	1834	1986	1629	704	726	551	Manning city	1484	1609	1656	713	740	665
Shell Rock city	1385	1478	1159	542	558	408	Maple River township	575	710	702	180	197	168
Washington township	363	494	564	156	171	172	Newton township	562	699	717	198	218	209
West Point township	1490	1699	1707	653	707	635	Dedham city	264	321	325	112	123	113
Allison city (pt.)	960	1082	1043	428	455	394	Pleasant Valley township	469	500	567	134	147	135
Bristow city (pt.)	169	200	194	88	105	90	Willey city	78	94	72	24	34	30
Calhoun County	11508	13542	14292	5362	5782	5582	Richland township	227	266	322	83	95	97
Butler township	1083	1258	1226	483	538	508	Roselle township	720	839	977	236	241	233
Jolley city	68	91	112	33	51	53	Halbur city	215	229	235	86	82	74
Pomeroy city (pt.)	747	849	734	352	363	334	Sheridan township	492	575	578	178	183	179
Calhoun township	192	224	321	70	86	98	Lidderdale city (pt.)	169	163	142	76	70	64
Cedar township	425	592	597	184	212	240	Union township	1575	1816	1859	686	728	706
Rinard city	71	97	88	34	35	40	Coon Rapids city*	1266	1448	1381	549	590	558
Somers city	161	220	197	70	80	75	Washington township	351	417	490	109	117	121
Center township	1053	1179	1196	474	405	363	Wheatland township	773	837	960	307	326	295
Rockwell City city (pt.)	645	747	734	374	281	233	Breda city (pt.)	456	496	504	200	203	175
Elm Grove township	222	299	331	98	115	143	Cass County	15128	16932	17007	6788	7025	6440
Yetter city	49	52	52	21	22	30	Bear Grove township	272	327	349	111	126	131
Garfield township	235	327	345	96	134	127	Benton township	198	264	283	89	100	98
Lytton city (pt.)	42	43	54	24	22	23	Brighton township	388	444	475	163	173	169
Greenfield township	295	495	531	136	189	181	Marne city	149	162	187	75	74	72
Knierim city	71	125	131	42	47	48	Cass township	708	794	866	309	322	311
Jackson township	284	354	371	98	107	113	Lewis city	433	497	526	200	215	191
Lake City city	1841	2006	1910	852	890	786	Edna township	167	223	216	71	80	76
Lake Creek township	171	246	324	76	102	112	Franklin township	404	492	498	190	201	187
Lincoln township	2131	2284	2441	940	918	845	Wiota city	160	181	171	75	78	65
Manson city	1844	1924	1993	834	802	717	Grant township	1331	1486	1455	604	605	553
Logan township	175	245	322	69	88	112	Anita city*	1068	1153	1101	495	490	437
Reading township	631	711	743	295	307	288	Grove township	7773	8217	641	3500	3516	211
Farnhamville city (pt.)*	414	461	393	214	208	169	Atlantic city (pt.)	7426	7789	(NA)	3353	3353	(NA)
Sherman township	410	501	445	379	444	407	Lincoln township	192	217	286	84	92	102
Pomeroy city (pt.)	15	46	31	13	16	17	Massena township	588	809	760	303	349	311
Twin Lakes township	1553	1760	1974	733	797	808	Massena city	372	518	433	206	236	186
Rockwell City city (pt.)	1336	1529	1662	628	694	685	Noble township	376	499	523	162	182	187
Union township	615	770	886	302	348	346	Pleasant township	1302	1469	1532	610	640	622
Lohrville city	453	521	553	241	257	247	Griswold city	1049	1176	1181	502	527	501
Williams township	192	291	329	77	102	105	Pymosa township	363	447	467	149	161	154
Carroll County	21423	22951	22912	8356	8379	7213	Union township	528	629	727	254	284	305
Arcadia township	832	835	862	293	289	288	Cumberland city	295	351	385	162	169	184
Arcadia city	485	454	414	183	169	161	Victoria township	206	256	283	88	88	103
Carroll city*	9579	9705	8716	3779	3545	2683	Washington township	332	359	340	101	106	110
Eden township	681	725	823	256	254	253	Atlantic city (pt.)	6	-	(NA)	3	-	(NA)
Templeton city	321	319	312	141	133	125	Cedar County	17381	18635	17655	7146	7312	6064
Ewoldt township	323	395	509	110	123	131	Cass township	313	329	351	164	163	161
Glidden township	1518	1497	1449	609	638	550	Center township	3779	3988	3846	1588	1632	1328
Glidden city	1099	1076	964	463	478	386	Tipton city	2998	3055	2877	1313	1317	1067
Ralston city (pt.)	111	102	128	40	46	53	Dayton township	1219	1347	1339	547	573	487
Grant township	422	538	543	142	167	127	Clarence city	936	1001	915	429	443	363

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Cedar County (cont.)							Cherokee County (cont.)						
Fairfield township	306	348	422	111	122	130	Amherst township (cont.)						
Farmington township	2080	2185	2113	810	782	695	Marcus city (pt.)*	110	...	...	58	...	...
Durant city (pt.)	1540	1579	1463	625	594	509	Cedar township	453	491	511	188	210	182
Wilton city (pt.)*	-	...	...	-	...	...	Larrabee city	175	169	167	81	83	69
Fremont township	970	1295	1066	405	500	369	Cherokee township	6705	7678	7820	2913	3093	2758
Mechanicsville city (pt.)*	4	209	...	1	73	...	Cherokee city (pt.)	5976	6885	7174	2634	2801	2552
Stanwood city*	646	705	642	280	296	240	Diamond township	269	277	368	88	103	112
Gower township	439	486	518	189	197	169	Grand Meadow township	244	307	414	101	127	129
Inland township	824	954	902	323	339	311	Liberty township	238	316	390	114	126	129
Bennett city	395	458	385	166	172	152	Marcus township	1275	1478	1638	552	604	581
Iowa township	413	408	425	176	199	166	Marcus city (pt.)*	1061	1206	1272	473	519	483
Linn township	190	216	212	76	81	73	Pilot township	332	469	473	140	187	142
Massillon township	374	422	455	152	163	155	Cherokee city (pt.)	50	119	98	29	62	35
Pioneer township	1516	1460	1361	618	552	489	Pitcher township	1274	1419	1459	540	568	503
Mechanicsville city (pt.)*	1008	957	989	432	380	372	Aurelia city	1034	1143	1065	450	460	394
Red Oak township	224	263	330	83	101	94	Rock township	273	317	396	101	113	110
Rochester township	560	550	458	266	306	178	Sheridan township	790	903	928	331	342	292
Springdale township	2681	2825	2256	1016	1001	706	Cleghorn city	275	275	274	116	117	91
West Branch city*	1908	1867	1322	731	670	434	Meriden city	193	233	167	86	88	61
Springfield township	1114	1148	1219	484	467	442	Silver township	292	350	373	103	125	117
Lowden city*	726	717	667	340	320	289	Spring township	198	226	250	85	91	92
Sugar Creek township	379	411	382	138	134	111	Tilden township	223	301	380	85	106	115
Wilton city (pt.)*	4	9	...	2	3	...	Willow township	837	993	1017	352	417	382
Cerro Gordo County							Quimby city						
Bath township	46733	48458	49223	20954	20931	17882	Washta city	334	424	395	149	176	157
Bath township	382	465	529	150	167	151	Chickasaw County						
Clear Lake township	1594	1688	1421	1155	1199	1037	Bradford township	13295	15437	14969	5486	5701	4792
Ventura city	590	614	543	283	303	230	Nashua city	2007	2422	2366	942	994	890
Clear Lake city*	8183	7458	6430	3964	3731	2650	Chickasaw township	1476	1846	1712	727	787	695
Dougherty township	308	376	464	134	149	155	Bassett city	869	1104	991	375	393	303
Dougherty city	107	128	133	55	57	60	Ionia city	74	128	152	36	40	37
Falls township	1119	1261	1261	443	460	388	Dayton township	304	350	270	134	134	93
Plymouth city	453	463	461	176	179	143	New Hampton city (pt.)*	1725	1909	1767	747	736	519
Rock Falls city*	130	148	150	56	57	53	Deerfield township	1211	1287	1163	573	559	382
Geneseo township	1256	1337	1249	492	495	407	Dresden township	446	545	679	173	178	191
Rockwell city	1008	1039	923	400	390	303	Fredericksburg city (pt.)	859	985	938	351	364	317
Grant township	394	420	442	144	151	132	Fredericksburg township	444	482	413	177	184	152
Grimes township	922	1034	1094	432	439	423	Fredericksburg city (pt.)	971	1077	1006	383	398	323
Meservey city	292	324	354	141	142	139	Jacksonville township	567	593	499	238	237	180
Thornton city (pt.)	387	412	386	192	191	169	New Hampton township	510	681	712	203	218	213
Lake township	381	636	646	120	206	163	New Hampton city (pt.)*	3167	3457	3151	1238	1294	1035
Lime Creek township	613	728	749	246	265	236	Richland township	2449	2653	2458	977	1029	834
Lincoln township	320	334	369	121	128	109	Stapleton township	381	466	480	152	169	147
Mason township	512	606	1988	215	228	661	Lawler city	902	1020	1037	357	363	315
Mason City city*	29040	30144	30379	12669	12617	10672	Utica township	517	534	513	222	220	183
Mount Vernon township	371	395	401	140	140	118	Washington township	548	634	712	194	203	197
Owen township	325	385	408	118	126	130	Alta Vista city	910	1137	1130	371	391	342
Pleasant Valley township	498	527	591	197	196	199	North Washington city	246	314	283	124	128	107
Swaledale city	190	186	222	85	79	71	Clarke County						
Thornton city (pt.)	44	30	24	16	15	13	Doyle township	8287	8612	7581	3599	3715	2988
Portland township	318	412	497	129	139	153	Franklin township	188	290	255	84	116	90
Union township	197	252	305	85	95	98	Fremont township	198	307	253	84	109	87
Cherokee County							Fremont township	398	441	389	160	157	122
Afton township	14098	16238	17269	5973	6475	5889	Green Bay township	249	282	300	97	106	92
Amherst township	316	377	437	127	139	128	Jackson township	479	496	486	193	208	178
	379	336	415	153	124	117							

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Clarke County (cont.)							Clayton County (cont.)						
Jackson township (cont.)							Garnavillo township (cont.)						
Woodburn city	240	207	186	105	100	80	Garnavillo city	727	723	634	325	312	250
Knox township	188	250	234	86	103	92	Giard township	462	450	572	173	171	184
Liberty township	327	356	315	134	147	125	Grand Meadow township	476	530	557	175	178	158
Madison township	219	209	227	86	83	79	Postville city (pt.)*	7	-	...	1	1	...
Osceola city*	4164	3750	3124	1945	1806	1376	Highland township	270	315	300	96	105	107
Osceola township	455	561	568	149	193	168	Jefferson township	2939	3207	2989	1514	1486	1224
Troy township	950	975	890	394	433	378	Guttenberg city	2257	2428	2177	999	985	811
Murray city	731	703	620	308	331	280	Osterdock city (pt.)	15	-	15	6	-	4
Ward township	230	373	266	88	140	104	Lodomillo township	753	804	818	302	316	265
Washington township	242	322	274	99	114	97	Edgewood city (pt.)*	316	372	305	156	170	125
							Mallory township	424	525	528	149	172	148
Clay County	17585	19576	18464	7659	8043	6663	Osterdock city (pt.)	34	35	44	13	16	13
Clay township	711	854	882	314	335	304	Marion township	409	439	465	153	159	150
Royal city	466	522	469	212	221	162	Mendon township	1665	1956	1959	877	966	865
Douglas township	231	287	306	90	106	113	McGregor city*	797	945	990	477	529	449
Freeman township	531	608	569	268	290	220	Marquette city	479	528	509	233	240	208
Dickens city	214	289	240	84	104	92	Millville township	495	572	508	166	171	146
Garfield township	343	453	552	165	211	203	Millville city	20	50	27	7	16	19
Webb city	167	222	234	88	109	92	Monona township	2217	2359	2255	942	945	833
Gillett Grove township	440	535	538	183	208	182	Luana city	190	246	225	103	106	87
Gillett Grove city (pt.)	67	80	...	31	33	...	Monona city*	1520	1530	1395	672	652	575
Greenville city	84	122	117	37	48	43	Read township	334	353	372	115	124	117
Herdland township	249	259	316	101	103	108	Sperry township	562	651	645	236	253	237
Lake township	201	285	333	121	209	198	Volga city	306	310	305	136	145	136
Lincoln township	324	392	466	138	151	154	Volga township	669	729	635	253	263	235
Rossie city	68	72	91	31	31	32	Elkport city	82	98	87	32	33	35
Logan township	190	250	308	82	99	98	Garber city	118	140	148	55	63	55
Gillett Grove city (pt.)	-	13	...	-	3	...	Littleport city (pt.)	44	42	33	18	14	13
Lone Tree township	931	1078	1084	387	439	365	Wagner township	466	556	713	190	209	243
Everly city	706	796	699	300	333	258	Farmersburg city (pt.)	2	9	104	2	4	45
Meadow township	373	457	435	137	158	156	St. Olaf city	111	138	140	50	61	57
Peterson township	640	787	822	310	327	326							
Peterson city	390	470	469	206	221	212	Clinton County	51040	57122	56749	21296	21370	18747
Riverton township	326	379	391	132	132	123	Bloomfield township	927	1130	1167	355	366	323
Sioux township	336	398	327	124	159	108	Delmar city	517	633	599	203	206	166
Spencer city*	11066	11726	10278	4824	4803	3689	Brookfield township	413	566	565	168	188	185
Summit township	471	580	548	195	216	203	Camanche township	4641	5027	3862	1869	1757	1205
Fostoria city*	205	261	219	86	99	86	Camanche city*	4436	4725	3470	1769	1654	1077
Waterford township	222	248	309	88	97	113	Center township	714	718	733	237	225	193
							Clinton city*	29201	32828	34719	12584	12895	11868
Clayton County	19054	21098	20606	8344	8557	7450	Deep Creek township	725	828	782	267	259	221
Boardman township	1893	2167	2091	841	875	762	Goose Lake city	221	274	218	85	85	65
Elkader city*	1510	1688	1592	707	721	630	De Witt township	5598	5650	4653	2283	2157	1607
Buena Vista township	404	430	329	171	213	102	De Witt city	4514	4512	3647	1902	1789	1290
North Buena Vista city	145	155	118	100	140	52	Eden township	896	1128	981	363	396	300
Cass township	1825	1956	1818	715	737	640	Low Moor city	280	346	347	120	128	116
Strawberry Point city*	1357	1463	1281	556	572	489	Elk River township	856	854	1015	357	311	319
Clayton township	352	410	459	303	221	199	Andover city	99	107	90	39	36	32
Clayton city	41	68	113	69	78	59	Grant township	289	366	417	116	124	128
Cox Creek township	390	493	494	160	181	161	Hampshire township	877	860	571	320	265	151
Littleport city (pt.)	44	64	64	20	33	29	Liberty township	371	533	517	184	178	181
Elk township	400	426	464	129	138	136	Toronto city	132	172	145	57	63	59
Farmersburg township	638	695	609	250	251	190	Olive township	790	959	903	363	360	317
Farmersburg city (pt.)	289	267	128	126	116	60	Calamus city	379	452	396	170	167	149
Garnavillo township	1011	1075	1026	434	423	348	Orange township	1149	1284	1052	439	435	337

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Clinton County (cont.)							Dallas County						
Orange township (cont.)							Beaver township	552	535	554	208	208	212
Grand Mound city*	619	674	627	243	242	230	Bouton city	149	139	160	62	62	63
Sharon township	768	956	988	354	375	338	Boone township	1851	1477	800	640	517	247
Lost Nation city	467	524	547	223	233	199	West Des Moines city (pt.)*	7	...	...	2	...	...
Spring Rock township	1092	1305	1281	450	454	418	Colfax township	396	425	448	147	161	156
Wheatland city	723	840	832	309	310	294	Dallas township	434	513	583	175	206	204
Washington township	438	554	608	114	119	106	Dawson city	174	229	232	73	90	89
Waterford township	756	936	1017	278	307	278	Des Moines township	1749	1823	1628	714	741	563
Charlotte city	359	442	444	152	162	149	Woodward city	1197	1212	1010	511	530	373
Welton township	539	640	659	195	199	185	Grant township	1324	1379	1353	518	480	413
Welton city*	177	119	104	59	45	33	Granger city*	624	619	661	250	211	207
Crawford County							Lincoln township	271	329	423	121	136	139
Boyer township	210	290	329	82	97	93	Linn township	585	635	707	240	259	253
Charter Oak township	797	945	1137	388	414	410	Linden city	201	264	278	83	105	101
Charter Oak city*	497	615	715	267	297	279	Spring Valley township	7166	7637	7474	3066	3187	2845
Denison township	7052	7219	6731	2895	2734	2311	Perry city*	6652	7053	6906	2860	2980	2650
Denison city (pt.)	6601	6668	6213	2724	2567	2165	Sugar Grove township	880	906	921	361	366	304
East Boyer township	392	557	543	161	202	166	Dallas Center city (pt.)*	96	65	41	48	47	13
Denison city (pt.)	3	7	5	1	1	2	Minburn city	346	390	378	153	161	139
Goodrich township	335	412	374	130	139	118	Union township	2060	2221	2141	869	868	821
Hanover township	293	355	371	110	122	125	Dexter city	628	678	652	260	273	278
Hayes township	300	348	447	95	111	111	Redfield city	883	959	921	385	385	355
Iowa township	367	454	489	145	154	155	Van Meter township	2695	2654	1598	1007	959	516
Aspinwall city	52	65	81	27	30	32	De Soto city (pt.)	875	910	363	316	325	114
Jackson township	232	266	336	79	94	102	Van Meter city*	751	747	464	286	264	169
Milford township	618	688	711	258	237	221	Walnut township	3182	2973	2349	1262	1107	688
Deloit city	296	345	279	126	127	100	Waukee city*	2512	2227	1577	1008	836	447
Morgan township	256	346	387	95	112	123	Washington township	320	388	442	136	150	145
Schleswig city (pt.)*	16	...	...	7	...	...	Davis County						
Nishnabotny township	1185	1388	1366	489	533	495	Bloomfield city	2580	2849	2718	1174	1305	1108
Manilla city	898	1020	943	389	412	382	Cleveland township	565	554	505	176	183	148
Otter Creek township	1395	1545	1551	643	655	598	Drakesville township	413	414	291	157	147	118
Kiron city	301	317	275	138	144	121	Drakesville city	172	212	163	85	93	76
Schleswig city (pt.)*	835	868	875	399	386	360	Fabius township	180	211	254	81	87	96
Paradise township	320	411	428	115	137	125	Fox River township	333	325	254	108	107	84
Arion city (pt.)	56	83	66	25	34	22	Grove township	273	313	319	109	113	115
Soldier township	346	418	499	146	166	178	Lick Creek township	806	786	700	321	298	228
Ricketts city	105	143	141	54	69	64	Floris city	172	187	145	75	73	61
Stockholm township	293	361	422	109	126	129	Marion township	231	306	250	88	117	94
Union township	887	1087	1038	383	405	353	Perry township	290	309	267	117	111	96
Arion city (pt.)	92	124	133	37	42	37	Prairie township	442	519	401	189	194	165
Dow City city	439	616	571	216	251	221	Pulaski city	221	267	255	98	129	113
Washington township	332	416	405	112	130	113	Roscoe township	203	265	183	68	80	70
Buck Grove city	20	84	41	10	27	19	Salt Creek township	281	429	384	140	149	141
West Side township	972	1155	1212	415	432	412	Soap Creek township	599	558	451	225	205	149
Vail city	388	490	486	176	194	172	Union township	342	385	414	137	154	156
Westside city	348	387	389	156	150	149	West Grove township	419	402	385	140	147	147
Willow township	193	274	340	70	94	98	Wyacondah township	355	479	431	135	182	151
Dallas County							Decatur County						
Adams township	942	875	545	342	321	176	Bloomington township	156	194	206	65	68	75
De Soto city (pt.)	158	125	6	50	54	3	Burrell township	341	438	403	168	181	171
Adel township	5348	4743	4119	2006	1889	1464	Davis City city (pt.)	183	227	201	98	110	98
Adel city*	3304	2846	2419	1285	1208	882	Center township	237	430	365	97	136	118
Dallas Center city (pt.)*	1358	1295	1087	514	475	393	Decatur township	394	431	416	193	190	158

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Decatur County (cont.)							Delaware County (cont.)						
Decatur township (cont.)							Union township	335	334	393	122	104	112
Decatur City city*	177	199	198	94	97	77	Des Moines County						
Eden township	272	286	288	117	108	102	Benton township	42614	46203	46982	18248	18567	16893
Fayette township	161	198	203	73	75	75	Burlington township	708	752	650	278	258	199
Franklin township	388	444	471	155	168	180	Burlington city (pt.)*	26416	28817	31639	11457	11809	11703
Weldon city	151	187	155	67	73	78	Concordia township	26416	28817	31639	11457	11809	11703
Garden Grove township	426	550	587	210	255	237	Burlington city (pt.)*	827	976	797	330	339	276
Garden Grove city	229	297	285	120	143	130	Burlington city (pt.)*	-	-	-	-	-	-
Le Roy city	34	31	43	16	22	23	Danville township	2134	2412	2260	834	860	715
Grand River township	125	163	159	54	65	64	Danville city	926	994	948	344	347	290
Hamilton township	197	242	219	92	113	106	Middletown city (pt.)	375	470	424	158	177	141
Pleasanton city	58	75	62	35	40	41	Flint River township	5820	6152	5287	2422	2440	1737
High Point township	150	189	243	67	85	85	Burlington city (pt.)*	585	608	574	235	240	215
Lamoni city*	2319	2705	2540	866	850	708	Middletown city (pt.)	11	17	19	4	7	6
Leon city*	2047	2094	2142	983	1027	915	West Burlington city (pt.)	2913	3188	3134	1343	1370	1042
Long Creek township	431	464	483	179	199	196	Franklin township	700	699	756	261	260	231
Van Wert city	249	245	244	105	119	108	Huron township	428	418	453	179	184	176
Morgan township	57	110	76	28	39	39	Jackson township	151	181	203	79	69	70
New Buda township	226	291	262	118	133	113	Pleasant Grove township	424	442	436	164	159	153
Davis City city (pt.)	74	100	100	39	43	49	Tama township	1373	1437	994	679	665	462
Richland township	329	401	483	177	205	214	Burlington city (pt.)*	91	34	44	31	14	15
Grand River city	171	188	211	104	120	117	Union township	1148	1250	774	551	510	268
Woodland township	82	164	191	50	77	68	Burlington city (pt.)*	116	70	109	54	27	46
Delaware County							West Burlington city (pt.)	170	183	5	100	96	3
Adams township	783	864	839	297	283	252	Washington township	339	416	532	151	165	174
Ryan city (pt.)	370	380	335	149	137	119	Yellow Springs township	2146	2251	1971	863	849	664
Bremen township	747	931	998	243	248	224	Mediapolis city*	1637	1685	1242	658	629	443
Dyersville city (pt.)	37	45	73	20	20	20	Dickinson County						
Coffins Grove township	557	682	724	213	222	199	Center Grove township	14909	15629	12565	9723	10187	8366
Masonville city	129	150	147	56	57	51	Arnolds Park city	6211	6363	4733	4080	4369	3152
Colony township	972	1123	1060	353	340	309	Okoboji city (pt.)*	953	1051	970	769	1033	997
Colesburg city	439	463	379	192	180	150	Spirit Lake city (pt.)*	671	493	320	702	603	477
Delaware township	6109	6074	5549	2451	2427	1969	West Okoboji city (pt.)	3448	3474	2560	1513	1479	992
Manchester city (pt.)*	5137	4942	4641	2102	2045	1704	Diamond Lake township	80	142	108	126	160	140
Delhi township	949	1078	1120	541	359	404	Excelsior township	272	290	322	118	124	116
Delaware city (pt.)	-	-	...	-	-	...	Lakeville township	179	262	264	71	88	99
Delhi city	485	511	527	216	189	169	Okoboji city (pt.)*	1614	1495	801	1832	1852	1744
Elk township	679	758	837	244	249	247	Mahpeton city	104	66	41	131	128	133
Greeley city	263	313	323	105	122	118	West Okoboji city (pt.)	484	372	149	701	675	633
Hazel Green township	418	481	588	136	153	158	Lloyd township	183	293	102	190	204	166
Ryan city (pt.)	12	10	8	4	4	6	Terril city	639	758	700	273	299	254
Honey Creek township	1047	1057	1097	363	349	336	Milford township	383	420	397	184	189	150
Edgewood city (pt.)*	460	528	481	203	201	179	Milford city (pt.)*	867	853	751	367	377	305
Milo township	1109	863	676	897	295	659	Okoboji township	558	503	372	250	245	174
Manchester city (pt.)*	-	-	...	-	-	...	Milford city (pt.)*	1935	1929	1625	791	780	618
North Fork township	581	639	638	164	158	136	Richland township	1612	1573	1296	675	654	508
Oneida township	1569	1653	1578	562	569	480	Superior city (pt.)	237	306	356	96	116	108
Delaware city (pt.)	176	170	153	69	76	68	Silver Lake township	7	22	23	5	9	9
Earlville city	822	844	751	312	313	257	Lake Park city	1141	1306	1215	542	567	499
Oneida city	49	61	55	20	21	18	Spirit Lake township	996	1123	918	480	498	389
Prairie township	350	448	521	126	125	126	Orleans city*	1336	1437	1166	1354	1387	1234
Richland township	618	621	661	227	211	207	Spirit Lake city (pt.)*	560	546	396	469	515	484
Dundee city	174	164	166	81	69	65	Superior township	423	502	454	217	238	204
South Fork township	1212	1327	1491	469	450	443	Superior city (pt.)	316	417	361	130	148	138
Hopkinton city*	695	774	800	290	298	275	Westport township	121	166	116	57	63	56
								162	213	271	69	80	99

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Dubuque County	86403	93745	90609	32053	31506	25280	Emmet County (cont.)						
Cascade township	1166	1265	1182	411	402	330	High Lake township	497	589	546	196	221	206
Cascade city (pt.)*	709	777	704	292	281	230	Wallingford city (pt.)	166	227	204	68	84	78
Center township	1485	1603	1172	480	457	286	Iowa Lake township	165	205	234	62	73	83
Centralia city (pt.)	116	95	100	38	29	26	Jack Creek township	170	218	277	71	79	90
Graf city	78	98	70	20	24	13	Lincoln township	260	319	317	155	156	144
Concord township	903	939	981	282	257	222	Dolliver city	103	125	95	48	52	47
Holy Cross city*	304	310	290	115	108	77	Swan Lake township	212	257	330	75	94	107
Dodge township	1319	1498	1315	403	420	317	Twelve Mile Lake township	205	297	344	84	101	106
Dyersville city (pt.)	47	74	...	13	25	...	Wallingford city (pt.)	30	29	41	12	12	13
Farley city (pt.)	97	81	37	26	17	9	Fayette County	21843	25488	26898	9262	9721	8967
Worthington city	439	432	365	153	155	117	Auburn township	638	786	805	240	242	228
Dubuque city*	57546	62374	62309	22377	22181	18030	St. Lucas city	174	194	194	81	77	60
Dubuque township	4590	4954	4384	1445	1424	1173	Banks township	406	496	516	156	164	148
Asbury city*	2013	2017	410	601	562	87	Bethel township	372	438	503	141	151	147
Sageville city (pt.)	135	123	176	54	56	42	Center township	393	481	541	163	189	185
Iowa township	565	673	731	167	158	140	Donnan city	7	10	18	4	7	9
Bankston city	35	40	28	12	10	7	Randalia city	88	101	81	37	44	42
Jefferson township	1306	1614	1493	476	485	354	Clermont township	817	993	1035	367	395	359
Balltown city	64	106	79	20	26	20	Clermont city	523	602	582	251	278	244
Rickardsville city*	171	215	193	56	65	49	Dover township	519	645	685	195	209	192
Sherrill city (pt.)*	135	191	190	50	61	39	Eden township	727	825	939	305	310	302
Liberty township	702	841	813	210	219	194	Waucoma city	277	308	357	145	150	142
Luxemburg city	257	271	185	90	87	63	Fairfield township	764	857	906	334	375	357
Mosalem township	1268	1372	1142	446	449	303	Arlington city	465	498	481	222	244	230
New Wine township	4620	4862	4538	1747	1603	1262	Fayette city*	1317	1515	1947	476	530	529
Dyersville city (pt.)	3619	3706	3364	1424	1289	989	Fremont township	636	748	757	259	273	246
New Vienna city*	376	430	392	152	153	117	Westgate city*	207	263	204	98	108	86
Peru township	1490	1538	1325	511	480	358	Harlan township	899	1002	1049	379	388	355
Durango city	34	41	55	13	16	14	Maynard city	513	561	503	237	242	206
Sageville city (pt.)	153	168	162	61	72	45	Illyria township	551	618	653	222	244	241
Sherrill city (pt.)*	13	17	...	8	3	...	Wadena city	236	230	237	103	105	92
Prairie Creek township	672	807	833	220	213	184	Jefferson township	7246	8498	8692	3217	3387	3112
Bernard city*	123	130	148	50	49	43	Delwein city*	6493	7564	7735	2918	3069	2817
Table Mound township	2886	3128	2843	991	983	796	Oran township	635	752	766	245	249	220
Taylor township	3174	3326	2950	1009	953	701	Fairbank city (pt.)	167	143	49	57	41	20
Epworth city*	1297	1380	1132	416	385	256	Pleasant Valley township	963	1034	989	448	441	386
Farley city (pt.)	1257	1206	1059	423	392	294	Elgin city	637	702	613	323	313	258
Vernon township	1014	1079	781	300	274	160	Putnam township	360	478	527	141	151	147
Centralia city (pt.)	7	11	5	2	3	2	Scott township	242	376	416	108	120	123
Peosta city*	128	120	57	39	32	11	Stanley city (pt.)*	-	...	...	-	...	...
Washington township	547	651	698	182	177	169	Smithfield township	303	373	483	108	124	132
Zwingle city (pt.)	84	89	82	30	32	32	Union township	344	457	485	128	150	138
Whitewater township	1150	1221	1119	396	371	301	Westfield township	388	320	551	137	116	130
Cascade city (pt.)*	721	735	640	273	251	203	West Union city*	2490	2783	2624	1119	1118	953
Emmet County	11569	13336	14009	4914	5268	4676	Windsor township	833	1013	1029	374	395	337
Armstrong Grove township	1299	1497	1439	560	572	494	Hawkeye city	460	512	529	229	237	200
Armstrong city	1025	1153	1061	443	456	376	Floyd County	17058	19597	19860	7233	7587	6882
Center township	365	470	499	145	171	153	Cedar township	264	369	376	100	120	118
Gruver city	102	145	135	46	57	47	Charles City city*	7878	8778	9268	3505	3576	3437
Denmark township	690	810	833	312	345	318	Floyd township	1009	1162	1100	400	449	350
Ringsted city	481	557	509	234	239	204	Floyd city	359	408	380	155	173	139
Ellsworth township	217	313	327	91	107	92	Niles township	560	614	620	201	218	193
Emmet township	198	262	250	83	93	80	Colwell city	94	91	100	36	41	37
Estherville township	7291	8099	8613	3080	3256	2803	Pleasant Grove township	273	359	399	105	129	127
Estherville city*	6720	7518	8108	2907	3075	2644							

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Floyd County (cont.)							Fremont County (cont.)						
Riverton township	544	645	718	227	213	203	Riverside township	419	441	452	174	196	166
Rockford township	1258	1447	1359	555	556	479	Randolph city	243	223	214	102	105	84
Rockford city	863	1012	902	409	408	346	Riverton township	447	489	462	220	247	195
Rock Grove township	1849	2004	1779	723	728	595	Riverton city	333	342	331	156	174	143
Nora Springs city	1505	1572	1337	588	585	468	Scott township	521	539	548	222	240	218
Rudd township	688	760	792	290	331	288	Thurman city	239	221	230	100	104	92
Rudd city	429	460	429	184	191	166	Sidney township	1801	1996	1727	773	815	648
St. Charles township	1306	1812	1579	537	631	488	Sidney city	1253	1308	1061	535	550	425
Scott township	247	307	415	94	106	121	Tabor (pt.)	901	967	848	372	386	312
Ulster township	393	475	471	151	182	150	Walnut township	193	211	232	78	85	76
Union township	789	865	984	345	348	333	Washington township	342	332	451	137	134	143
Marble Rock city	361	419	461	154	181	168	Greene County						
Franklin County							10045	12119	12716	4707	5020	4798	
Geneva township	382	463	495	165	182	184	Bristol township	258	355	397	109	127	140
Geneva city	169	218	201	81	86	83	Cedar township	181	292	329	79	93	106
Grant township	406	517	541	168	194	172	Dawson township	193	267	317	93	110	113
Hamilton township	225	271	310	89	101	109	Franklin township	185	235	324	99	108	126
Coulter city (pt.)	4	5	2	1	1	1	Grant township	288	358	288	124	150	105
Hampton city	4133	4630	4376	1916	2016	1764	Greenbrier township	210	174	305	76	75	107
Ingham township	362	433	458	153	170	167	Hardin township	178	256	304	82	93	101
Hansell city	83	138	124	41	58	52	Highland township	616	757	825	306	316	306
Lee township	244	287	358	97	114	121	Churdan city*	423	540	598	225	238	225
Marion township	966	1008	1059	468	478	419	Jackson township	287	394	348	107	139	117
Coulter city (pt.)	248	257	259	119	119	95	Jefferson city*	4292	4854	4735	2029	2024	1824
Latimer city	430	441	393	225	225	186	Junction township	1186	1458	1567	561	617	611
Morgan township	372	469	526	175	202	204	Dana city	71	110	118	35	39	49
Coulter city (pt.)	-	2	1	1	1	1	Grand Junction city	808	970	967	391	424	389
Dows city (pt.)	100	136	110	48	62	54	Kendrick township	231	278	356	97	111	123
Mott township	565	619	556	228	232	193	Ralston city (pt.)	8	6	1	2	3	1
Oakland township	298	383	464	139	178	182	Paton township	428	529	630	223	243	245
Popejoy city	92	112	147	53	59	58	Paton city	255	291	329	139	151	145
Osceola township	369	488	466	138	157	167	Scranton township	780	1060	1044	375	446	390
Ackley city (pt.)	54	69	49	21	24	21	Scranton city	583	748	751	292	324	294
Reeve township	390	417	445	153	163	132	Washington township	563	643	671	260	284	284
Richland township	255	325	430	108	129	141	Rippey city	275	304	270	136	143	130
Ross township	374	474	485	149	172	170	Willow township	169	209	276	87	84	100
Scott township	450	501	583	197	214	216	Grundy County						
Alexander city	170	190	249	90	103	102	12029	14366	14119	5158	5480	4868	
Coulter city (pt.)	-	-	-	-	-	-	Beaver township	616	702	729	225	242	229
Sheffield city	1174	1224	1070	505	515	435	Stout city	192	190	196	72	74	67
West Fork township	185	260	320	82	105	115	Black Hawk township	1869	2145	2107	832	860	751
Wisner township	214	267	313	88	99	108	Reinbeck city	1605	1808	1711	727	751	640
Fremont County							1452	1689	1552	634	658	553	
Benton township	327	347	406	135	157	138	Clay township	1452	1689	1552	634	658	553
Fisher township	862	1006	904	383	424	350	Beaman city	183	219	222	87	86	88
Farragut city	498	603	521	229	260	210	Conrad city	964	1133	932	438	452	342
Shenandoah city (pt.)*	-	-	-	-	-	-	Colfax township	603	748	736	245	266	239
Green township	293	295	303	112	132	114	Holland city	215	278	258	102	110	98
Hamburg city*	1248	1597	1649	631	724	669	Fairfield township	540	639	630	203	221	187
Locust Grove township	219	255	317	93	99	110	Felix township	289	361	456	121	134	146
Madison township	188	255	300	91	124	109	German township	292	454	491	137	147	146
Monroe township	318	456	469	124	160	135	Grant township	1320	1671	1271	521	595	425
Imogene city	88	188	192	38	65	55	Dike city*	875	987	794	355	358	278
Prairie township	147	215	214	62	93	71	Lincoln township	309	348	412	112	120	121
							Melrose township	278	354	439	128	135	145
							Palermo township	2731	3244	3138	1244	1323	1170
							Grundy Center city*	2491	2880	2712	1138	1185	1033

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Grundy County (cont.)							Hamilton County (cont.)						
Pleasant Valley township	332	404	529	125	134	139	Lyon township (cont.)						
Shiloh township	1061	1200	1197	502	506	483	Jewell Junction city	1106	1145	1152	462	486	438
Wellsburg city	682	761	754	366	368	346	Marion township	925	1127	1044	413	446	396
Washington township	337	407	432	129	139	134	Stratford city (pt.)	679	775	671	304	315	263
Morrison city	113	146	136	44	52	46	Rose Grove township	217	280	321	81	110	109
Guthrie County	10935	11983	12243	5179	5287	4766	Scott township	336	371	441	116	139	147
Baker township	249	294	346	97	114	128	Webster township	290	307	287	115	117	112
Guthrie Center city (pt.)	2	2	...	1	1	...	Webster City city*	7894	8572	8468	3435	3433	3073
Bear Grove township	215	306	326	88	107	130	Williams township	538	668	765	270	300	288
Beaver township	650	736	794	273	289	267	Williams city	368	410	456	184	198	182
Menlo city	356	410	391	150	159	136	Hancock County	12638	13833	13506	5236	5410	4802
Cass township	2104	2117	1767	1057	940	722	Amsterdam township	971	1027	1116	458	446	424
Panora city*	1100	1211	982	485	510	425	Kanawha city	763	756	822	375	351	325
Yale city (pt.)*	140	211	196	83	110	84	Avery township	442	513	589	190	211	209
Dodge township	568	666	717	257	276	286	Goodell city (pt.)	197	216	211	86	95	83
Bagley city	303	370	365	156	167	158	Bingham township	511	620	652	221	241	224
Grant township	303	376	422	111	120	131	Woden city	259	287	265	123	130	107
Adair city (pt.)	64	66	57	8	8	7	Boone township	251	303	426	110	131	149
Highland township	763	918	955	355	382	352	Corwith city (pt.)	55	52	77	25	34	36
Bayard city	511	637	628	250	274	239	Britt township	2392	2490	2412	1017	1071	933
Jackson township	289	299	312	121	127	121	Britt city	2133	2185	2069	926	944	793
Orange township	208	302	338	80	92	100	Concord township	3270	3289	2673	1316	1185	960
Penn township	372	340	256	231	227	141	Garner city (pt.)*	2916	2908	2257	1202	1063	837
Richland township	580	662	741	258	288	285	Crystal township	543	631	643	243	271	238
Jamaica city	232	275	271	104	121	105	Crystal Lake city	266	314	276	139	151	117
Yale city (pt.)*	80	88	105	36	36	35	Ell township	884	963	925	388	405	371
Seely township	258	280	339	105	108	121	Garner city (pt.)*	-	...	...	-	...	...
Stuart township	1091	1237	1133	499	552	448	Klemme city	587	620	554	271	279	245
Stuart city (pt.)	993	1127	1016	459	511	410	Ellington township	533	595	561	198	220	189
Thompson township	677	737	897	317	346	345	Forest City city (pt.)*	-	...	...	-	...	...
Casey city (pt.)	426	459	530	212	235	227	Erin township	281	354	413	102	116	119
Union township	129	178	248	62	76	84	Garfield township	440	552	589	146	170	167
Valley township	1893	2031	2286	907	956	945	Liberty township	285	362	441	106	123	122
Guthrie Center city (pt.)	1610	1711	1834	806	833	817	Madison township	831	844	652	324	328	212
Victory township	586	504	366	361	287	160	Forest City city (pt.)*	355	350	115	147	145	38
Guthrie Center city (pt.)	2	-	...	1	-	...	Magor township	486	656	657	227	266	250
Hamilton County	16071	17862	18383	6879	7144	6605	Corwith city (pt.)	299	428	361	156	185	151
Blairsburg township	458	562	592	174	199	192	Orthel township	298	368	413	102	124	132
Blairsburg city	269	288	287	95	99	90	Twin Lake township	220	266	344	88	102	103
Cass township	407	497	512	153	180	158	Goodell city (pt.)	4	4	7	2	2	2
Clear Lake township	763	838	895	330	350	320	Hardin County	19094	21776	22248	8419	8799	8056
Stanhope city	447	492	482	205	217	178	Alden township	1374	1494	1461	575	600	549
Ellsworth township	508	576	603	227	232	225	Alden city*	855	953	876	363	414	355
Randall city	161	171	179	73	76	71	Buckeye township	316	429	466	148	170	175
Freedom township	308	299	346	146	113	110	Buckeye city	105	154	143	56	62	65
Fremont township	269	332	359	97	113	109	Clay township	650	774	820	285	319	294
Hamilton township	238	257	342	103	109	116	Steamboat Rock city	335	387	394	161	178	158
Independence township	498	571	650	218	218	228	Concord township	422	434	471	168	179	174
Kamrar city*	203	225	243	91	95	91	Eldora city	3038	3063	3223	1293	1340	1151
Liberty township	281	314	365	112	130	143	Eldora township	317	381	389	160	175	164
Lincoln township	715	766	871	295	317	322	Ellis township	283	380	413	119	129	133
Ellsworth city (pt.)*	396	408	443	182	189	191	Etna township	1947	2248	2179	918	943	859
Lyon township	1426	1525	1502	594	638	557	Ackley city (pt.)	1642	1831	1745	788	797	717
Ellsworth city (pt.)*	55	72	...	28	31	...	Grant township	269	318	365	107	110	122

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Hardin County (cont.)							Henry County (cont.)						
Hardin township	6589	7595	7701	2860	2942	2661	Marion township	352	380	458	137	140	139
Iowa Falls city*	5424	6174	6454	2400	2444	2259	Mount Pleasant city*	8027	7322	7007	3031	2823	2396
Jackson township	282	375	419	125	142	141	New London township	2539	2597	2396	1016	979	898
Owasa city	37	65	69	20	24	25	New London city	1922	2043	1900	792	785	735
Pleasant township	334	635	446	129	138	133	Salem township	999	1054	1109	429	426	403
Providence township	445	503	577	205	237	223	Hillsboro city	151	208	252	80	92	97
New Providence city	240	249	208	114	122	95	Salem city	453	463	458	191	193	173
Sherman township	804	859	896	367	394	358	Scott township	1349	1387	1319	554	579	540
Radcliffe city	574	593	548	270	285	245	Winfield city	1051	1042	897	430	453	400
Tipton township	1087	1207	1205	524	524	471	Tippecanoe township	789	805	736	327	325	275
Hubbard city	814	852	846	412	395	353	Rome city	124	113	135	56	47	54
Union township	937	1081	1217	436	457	448	Westwood city*	104	...	...	38	...	...
Union city	448	515	484	223	237	212	Trenton township	459	566	506	190	200	183
Whitten city	137	168	194	61	63	62	Wayne township	711	759	785	297	284	273
							Olds City	205	225	206	98	87	75
Harrison County							Howard County						
Allen township	14730	16348	16240	6175	6357	5793	Afton township	9809	11114	11442	4155	4271	3925
Boyer township	154	235	273	73	85	86	Elma city (pt.)	833	979	940	325	349	341
Woodbine city*	1831	1904	1747	763	748	679	Albion township	463	502	423	188	195	174
Calhoun township	1500	1463	1349	643	608	552	Chester township	292	372	335	115	133	113
Cass township	258	297	250	97	98	71	Chester city	350	394	423	159	166	151
Cincinnati township	252	343	382	98	116	124	Forest City township	158	175	185	79	84	79
Clay township	211	236	244	87	97	89	Lime Springs city	672	767	795	323	325	313
Douglas township	93	148	186	48	53	56	Howard township	438	476	497	223	225	213
Harrison township	274	310	411	96	104	105	Elma city (pt.)	581	795	872	232	262	263
Dunlap city*	1623	1743	1680	650	664	599	Howard Center township	190	212	178	82	89	88
Jackson township	1251	1374	1292	515	551	486	Jamestown township	290	356	411	114	123	114
Pisgah city	519	612	570	242	252	227	Riceville city (pt.)*	679	732	784	277	290	274
Jefferson township	268	307	286	141	150	129	New Oregon township	334	356	366	160	167	158
Logan city*	1916	2115	2018	801	816	764	Protivin city	831	992	1063	361	359	349
La Grange township	1401	1540	1526	611	627	603	Oak Dale township	305	368	333	168	157	139
Lincoln township	292	346	303	104	124	104	Paris township	221	274	294	79	92	90
Little Sioux township	213	292	288	77	90	97	Saratoga township	384	504	615	151	173	176
Little Sioux city	402	515	560	308	236	241	Vernon Springs township	304	373	367	129	131	129
Magnolia township	205	251	239	116	116	106	Cresco city	4372	4576	4543	1890	1868	1612
Magnolia city	631	661	766	239	253	248		3669	3860	3927	1651	1646	1440
Morgan township	204	207	206	79	83	84	Humboldt County						
Mondamin city	497	531	556	222	231	215	Avery township	10756	12246	12519	4670	5017	4325
Raglan township	403	423	420	176	188	171	Bradgate city	359	449	512	148	174	168
St. Johns township	203	248	218	80	94	79	Gilmore City city (pt.)	124	151	130	53	58	55
Missouri Valley city	3861	4074	4128	1592	1646	1422	Beaver township	-	21	20	-	9	9
Taylor township	2888	3107	3519	1232	1321	1233	Corinth township	329	406	410	143	151	144
Modale city	505	567	516	217	219	194	Dakota City city	430	449	381	157	158	132
Union township	289	373	297	136	148	124	Delana township	1024	1072	746	385	384	246
Washington township	304	335	391	115	125	125	Bode city	555	699	760	265	311	275
Persia city	691	836	753	266	306	268	Grove township	335	406	372	168	205	160
	312	355	316	133	150	129	Humboldt city	272	344	362	105	125	111
Henry County							Humboldt township						
Baltimore township	19226	18890	18114	7507	7241	6430	Livermore city	4438	4794	4665	1993	2024	1611
Canaan township	664	620	520	247	217	180	Lu Verne city (pt.)	645	733	798	282	317	289
Mount Union city	446	475	547	174	197	193	Lake township	436	490	510	203	225	198
Center township	140	145	173	56	71	66	Hardy city	2	8	4	2	4	2
Jackson township	1057	1156	939	408	416	345	Norway township	262	365	426	130	168	166
Jefferson township	429	491	488	159	166	153	Thor city	47	72	73	26	39	42
Coppock city (pt.)	1405	1278	1304	538	489	452	Rutland township	463	506	621	196	214	206
Wayland city*	33	32	38	12	13	16		205	200	212	89	91	85
	838	720	702	338	290	263		529	615	664	208	232	204

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Humboldt County (cont.)							Iowa County (cont.)						
Rutland township (cont.)							York township	368	404	506	139	128	132
Rutland city	149	163	215	67	73	68	Jackson County	19950	22503	20839	8426	8564	6868
Vernon township	545	730	827	275	315	321	Bellevue township	2884	3063	2947	1145	1150	1010
Lu Verne city (pt.)	52	60	63	30	35	35	Bellevue city	2239	2450	2336	918	952	824
Renwick city	287	410	429	161	176	178	Brandon township	319	341	333	105	111	107
Wacousta township	301	381	443	124	146	158	Butler township	315	444	490	180	200	121
Ottosen city	72	92	93	38	47	48	Fairfield township	410	525	520	143	150	143
Weaver township	604	703	904	259	298	294	Spragueville city (pt.)	36	36	33	12	11	9
Gilmore City city (pt.)	319	345	457	159	169	160	Farmers Creek township	468	518	556	185	175	160
Pioneer city	46	40	56	16	18	24	Iowa township	739	824	847	303	296	270
Ida County	8365	8908	9283	3473	3634	3339	Miles city (pt.)	370	344	358	163	143	133
Battle township	269	326	337	103	118	123	Jackson township	497	637	697	175	183	161
Blaine township	577	646	667	237	255	223	Springbrook city	116	209	196	43	70	50
Arthur city	272	288	273	123	124	103	Maquoketa township	3011	3274	2872	1316	1303	1064
Corwin township	2676	2608	2538	1171	1152	979	Maquoketa city (pt.)*	2290	2421	2209	1052	1032	854
Ida Grove city	2357	2285	2261	1057	1046	874	Monmouth township	666	840	870	279	314	301
Douglas township	277	314	392	98	109	119	Baldwin city	137	198	172	61	83	76
Galva township	626	691	735	266	293	289	Monmouth city	169	210	257	82	74	81
Galva city	398	420	412	186	203	189	Otter Creek township	562	604	488	401	397	164
Garfield township	195	248	304	78	85	86	Zwingle city (pt.)	10	30	14	4	10	8
Grant township	247	294	337	79	93	95	Perry township	741	853	818	273	285	244
Griggs township	1700	1775	1830	748	780	693	Andrew city	319	349	335	135	136	110
Holstein city*	1449	1477	1445	647	665	576	Prairie Springs township	554	678	643	175	188	163
Hayes township	270	272	329	86	91	110	La Motte city (pt.)	128	203	175	44	57	52
Logan township	261	280	310	102	106	97	Richland township	475	596	622	172	174	156
Maple township	1088	1230	1152	432	466	424	La Motte city (pt.)	91	119	151	36	43	38
Battle Creek city	818	919	837	343	365	334	South Fork township	4576	4846	4335	1963	1942	1496
Silver Creek township	179	224	352	73	86	101	Maquoketa city (pt.)*	3821	3892	3468	1672	1623	1236
Iowa County	14630	15429	15419	6003	5872	5231	Tete Des Morts township	757	904	631	404	410	247
Dayton township	264	355	419	100	113	106	St. Donatus city	145	197	164	57	56	43
English township	1510	1588	1632	655	651	594	Union township	903	1091	1022	419	451	386
Millersburg city	188	184	187	89	75	72	Sabula city	710	824	845	332	349	321
North English city (pt.)*	932	972	945	412	430	368	Van Buren township	1636	1942	1596	633	680	523
Fillmore township	499	569	587	209	212	202	Miles city (pt.)	39	54	51	16	21	16
Parnell city	209	234	175	96	100	69	Preston city	1025	1120	950	420	427	332
Greene township	504	559	629	177	177	175	Spragueville city (pt.)	82	113	79	32	34	25
Hartford township	1396	1483	1517	609	596	547	Washington township	437	523	552	155	155	152
Ladora city (pt.)	273	252	293	122	110	102	Green Island city	54	103	112	33	42	42
Victor city (pt.)	842	897	843	367	368	323	Jasper County	34795	36425	35425	14338	14447	12255
Hilton township	755	710	631	272	243	206	Buena Vista township	776	830	863	237	245	227
Williamsburg city (pt.)*	7	...	...	3	...	...	Clear Creek township	333	413	416	140	162	133
Money Creek township	355	396	375	142	148	129	Des Moines township	1941	1896	1757	742	764	657
Iowa township	602	620	597	233	219	188	Prairie City city (pt.)*	1355	1195	1091	523	516	444
Lenox township	1442	1503	1493	607	576	528	Elk Creek township	495	565	564	179	189	188
Lincoln township	255	315	374	90	98	109	Fairview township	2373	2613	2237	964	996	820
Marengo township	2394	2413	2413	1045	999	877	Monroe city	1739	1875	1389	730	756	561
Marengo city (pt.)	1949	1919	1936	845	811	728	Hickory Grove township	331	389	441	158	162	153
Pilot township	351	487	422	122	135	126	Independence township	1381	1464	1274	554	575	433
Sumner township	439	432	506	152	145	152	Baxter city	938	951	788	385	384	274
Ladora city (pt.)	35	37	28	13	12	11	Kellogg township	1130	1198	1136	453	480	425
Troy township	2562	2504	2367	1033	998	822	Kellogg city	626	654	607	257	274	234
Williamsburg city (pt.)*	2167	2033	1544	904	850	602	Lynn Grove township	1726	1793	1706	665	652	579
Washington township	934	1091	951	418	434	338	Lynnville city	393	406	381	155	161	142
Marengo city (pt.)	321	389	299	145	148	122	Sully city	841	828	685	333	316	258

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Jasper County (cont.)							Johnson County (cont.)						
Malaka township	303	367	426	122	130	130	Jefferson township	2571	2423	1593	905	791	490
Mariposa township	278	318	371	111	120	116	Shueyville city	223	287	154	82	96	49
Mound Prairie township	533	630	584	190	204	162	Swisher city	645	654	417	241	228	142
Colfax city (pt.)*	21	30	...	9	10	...	Liberty township	1032	925	948	406	343	278
Prairie City city (pt.)*	5	83	50	3	10	3	Hills city (pt.)*	658	547	507	261	203	155
Newton township	16527	17061	17047	7203	7121	6081	Lincoln township	260	297	317	102	109	106
Lambs Grove city	212	228	239	85	79	71	Madison township	402	347	310	140	133	103
Newton city (pt.)*	14553	15080	15535	6405	6391	5602	North Liberty city (pt.)*	29	10	...	9	7	...
Palo Alto township	1333	1363	1143	431	430	324	Monroe township	530	538	484	197	185	157
Newton city (pt.)*	236	212	84	72	80	23	Newport township	1245	956	651	436	322	188
Reasnor city	191	277	284	79	89	93	Oxford township	1521	1453	1229	591	542	375
Poweshiek township	941	1004	977	367	359	286	Oxford city*	663	676	666	268	268	212
Mingo city	252	303	260	109	118	93	Penn township	8215	5024	2491	3287	2070	794
Valeria city	69	80	96	28	28	23	Coralville city (pt.)*	3056	1458	509	1228	605	140
Richland township	358	419	463	126	130	123	North Liberty city (pt.)*	2837	1994	1055	1137	890	358
Rock Creek township	733	783	653	389	416	278	Pleasant Valley township	284	339	375	109	120	111
Oakland Acres city	152	139	...	54	44	...	Scott township	1449	1404	1045	603	500	314
Sherman township	377	422	447	150	152	140	Sharon township	1179	1217	1067	349	339	273
Washington township	2926	2897	2920	1157	1160	1000	Union township	566	567	632	214	189	175
Colfax city (pt.)*	2441	2204	2293	968	899	807	Washington township	1121	1124	1120	344	337	292
Jefferson County							West Lucas township						
Black Hawk township	16310	16316	15774	6739	6034	5738	7395	7285	6614	3708	3489	2444	
Buchanan township	345	371	409	122	135	134	Coralville city (pt.)*	5460	5324	4960	2835	2618	1878
Cedar township	629	562	641	268	218	220	Hills city (pt.)*	4	...	...	1	...	...
Center township	433	440	365	173	152	121	University Heights city	1042	1069	1265	480	463	434
Des Moines township	1026	1118	962	421	399	343	Jones County						
Fairfield city*	349	327	386	128	132	141	Cass township	19444	20401	19868	7366	7349	6249
Liberty township	9768	9428	8715	4087	3455	3237	Anamosa city (pt.)	606	709	574	205	197	152
Libertyville city	658	675	672	255	246	255	Castle Grove township	-	34	...	-	7	...
Lockridge township	264	281	329	117	113	124	Clay township	453	480	465	150	155	126
Lockridge city	693	723	717	276	273	251	Fairview township	249	271	300	86	96	92
Locust Grove township	270	271	232	110	109	90	Anamosa city (pt.)	6281	6053	5456	2073	2016	1610
Batavia city	815	815	922	348	331	342	Greenfield township	5100	4924	4389	1610	1647	1319
Penn township	520	525	525	223	211	207	Martelle city	647	716	779	241	257	241
Pleasant Plain city	522	568	618	196	207	202	Morley city (pt.)	290	316	341	115	115	110
Polk township	128	144	121	47	50	49	Hale township	-	-	4	-	-	1
Packwood city	517	576	570	223	229	223	Jackson township	363	412	444	168	150	143
Round Prairie township	208	210	157	98	84	75	Lovell township	377	472	461	152	156	142
Walnut township	291	372	412	129	141	147	Monticello city*	4430	4590	1030	1855	1802	297
Coppock city (pt.)	264	341	385	113	116	122	Madison township	3522	3641	3509	1529	1492	1169
Johnson County							Madison township						
Big Grove township	96119	81717	72127	37210	31583	23654	Center Junction city	647	747	753	276	282	264
Solon city*	2397	2213	1795	905	805	611	Onslow city (pt.)*	166	182	172	70	68	69
Cedar township	1050	969	837	402	383	289	Oxford township	128	124	139	63	57	49
Clear Creek township	497	465	425	200	173	153	Oxford Junction city	904	1033	1118	423	462	421
Coralville city (pt.)*	2624	1643	1273	1027	745	388	Richland township	581	600	666	281	296	271
North Liberty city (pt.)*	1831	905	661	694	449	181	Cascade city (pt.)*	799	810	836	257	250	205
Tiffin city*	60	42	...	16	14	...	Rome township	378	395	394	129	127	97
East Lucas township	460	413	299	206	178	104	Morley city (pt.)	1133	1271	1261	476	497	447
Fremont township	610	459	348	266	232	128	Olin city	85	94	119	43	48	49
Lone Tree city	1494	1542	1422	609	593	492	Scotch Grove township	663	735	710	294	301	258
Graham township	979	1014	834	414	401	311	Washington township	447	451	437	169	162	145
Hardin township	490	452	552	186	166	148	Cascade city (pt.)*	354	388	392	103	104	99
Iowa city*	499	536	586	162	165	153	Wayne township	4	5	6	2	1	1
	59738	50508	46850	22464	19235	15481	Wyoming township	666	795	793	244	269	237
							Onslow city (pt.)*	1088	1203	1260	488	494	459
							Wyoming city	88	94	114	39	42	44
								659	702	746	303	303	281

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Keokuk County	11624	12921	13943	5024	5398	5242	Kossuth County (cont.)						
Adams township	520	544	603	210	223	232	Irvington township	347	419	508	120	140	138
Keswick city	284	300	257	124	125	121	Ledyard township	665	849	1010	339	380	377
Benton township	1073	1170	1117	466	487	458	Lakota city	281	330	385	154	177	162
Hedrick city	810	847	790	350	357	317	Ledyard city	164	215	240	93	97	97
Clear Creek township	317	317	362	97	96	96	Lincoln township	208	255	373	86	91	108
East Lancaster township	124	151	195	49	61	65	Lotts Creek township	295	373	461	103	122	125
English River township	633	705	802	272	306	307	Lu Verne township	468	580	615	209	251	250
North English city (pt.)*	12	18	20	4	6	8	Lu Verne city (pt.)	274	350	313	139	164	149
South English city	224	211	218	97	112	102	Plum Creek township	293	338	297	114	115	90
Webster city	103	124	130	49	54	51	Portland township	254	311	370	90	99	101
Jackson township	476	558	676	230	264	275	Prairie township	276	372	518	105	130	143
Ollie city	207	232	268	115	124	113	Wesley city (pt.)	8	10	...	3	4	...
Lafayette township	1446	1526	1706	614	647	591	Ramsey township	254	309	376	85	88	92
Harper city	147	138	173	62	63	67	Riverdale township	288	400	471	108	114	123
Keota city	1000	1034	1112	445	458	406	Seneca township	250	295	359	98	109	117
Liberty township	374	394	522	147	167	179	Sherman township	246	340	397	88	101	106
Kinross city	89	79	98	38	40	39	Springfield township	139	194	268	65	76	84
Plank township	366	435	628	143	158	155	Swea township	243	275	346	85	95	98
Prairie township	458	521	573	200	225	225	Union township	258	349	447	97	123	125
Gibson city	63	75	80	41	40	33	Wesley township	647	880	898	294	329	280
Thornburg city	91	103	98	40	48	47	Wesley city (pt.)	436	588	548	205	222	171
Richland township	816	908	982	375	396	380	Whittemore township	905	1064	1150	370	382	331
Richland city	522	600	595	260	269	239	Whittemore city	535	647	658	257	268	222
Sigourney township	2335	2583	2559	1043	1063	982	Lee County	38687	43106	42996	16443	16684	14890
Sigourney city	2111	2330	2319	959	980	906	Cedar township	448	489	515	165	174	153
Steady Run township	387	451	412	157	175	190	Houghton city (pt.)	116	115	101	42	43	30
Martinsburg city	157	174	140	65	66	76	Charleston township	762	785	755	309	271	217
Van Buren township	317	409	453	127	149	144	Donnellson city (pt.)	102	105	129	61	43	(NA)
Warren township	614	731	760	288	320	313	Denmark township	869	909	701	347	334	248
Delta city	409	482	475	198	214	207	Des Moines township	746	684	633	277	229	211
Washington township	1108	1214	1273	498	537	522	Franklin township	1445	1501	1326	586	567	478
What Cheer city	762	803	868	361	379	363	Donnellson city (pt.)	838	867	669	355	341	(NA)
West Lancaster township	260	304	320	108	124	128	Franklin city	152	142	111	58	53	44
Hayesville city	62	93	93	27	42	39	Green Bay township	557	624	584	230	235	197
Kossuth County	18591	21891	22937	7765	8243	7386	Harrison township	378	388	360	126	139	130
Algona city*	6015	6289	6032	2572	2512	2090	Jackson township	1544	1865	1977	545	639	612
Buffalo township	895	1000	1016	396	414	385	Jefferson township	1377	1559	1051	565	567	359
Titonka city*	612	607	599	286	291	253	Fort Madison city (pt.)*	64	22	6	32	9	20
Burt township	895	1072	998	375	417	345	Keokuk city*	12451	13536	14631	5582	5667	5309
Burt city*	575	689	608	235	285	221	Madison township	11372	13426	14000	5128	5300	4980
Lone Rock city (pt.)	80	55	23	35	28	14	Fort Madison city (pt.)*	11352	13413	13980	5122	5294	4975
Cresco township	975	1241	762	309	380	192	Marion township	623	705	763	227	225	203
Eagle township	168	171	209	58	65	72	Houghton city (pt.)	11	9	18	5	5	6
Fenton township	714	795	940	335	360	346	St. Paul city	120	141	129	49	52	35
Fenton city	346	394	403	179	191	170	Montrose township	1861	2139	1645	778	805	607
Lone Rock city (pt.)	105	114	143	53	54	54	Montrose city*	957	1038	735	362	380	265
Garfield township	347	425	501	107	122	132	Pleasant Ridge township	401	493	518	143	154	127
West Bend city (pt.)*	6	17	12	2	12	9	Van Buren township	391	400	345	134	141	111
German township	264	356	461	113	118	122	Washington township	1719	1824	1485	648	627	460
Grant township	163	202	265	71	72	74	Fort Madison city (pt.)*	202	85	10	55	25	3
Greenwood township	1092	1416	1474	471	490	419	West Point township	1743	1779	1707	653	610	488
Bancroft city*	857	1082	1103	381	386	322	West Point city	1079	1132	1045	422	407	313
Harrison township	866	1125	1149	432	473	428							
Swea City city	634	813	774	343	366	323							
Hebron township	161	196	266	70	75	93							

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Linn County	168767	169775	163213	68357	64778	54137	Louisa County (cont.)						
Bertram township	2224	2327	2141	846	795	656	Morning Sun township (cont.)						
Bertram city	201	216	177	80	68	46	Morning Sun city	841	959	906	348	365	315
Boulder township	622	733	774	229	206	210	Oakland township	259	259	219	129	107	72
Prairieburg city	213	197	182	85	64	66	Port Louisa township	1275	1339	679	622	558	395
Brown township	2149	2325	2151	813	794	663	Union township	253	277	329	109	105	99
Springville city	1068	1165	970	414	420	308	Wapello township	2656	2774	2499	1139	1095	907
Buffalo township	577	582	683	240	194	234	Wapello city	2013	2011	1873	857	825	702
Cedar Rapids city*	108751	110243	110642	45473	43541	37979	Lucas County	9070	10313	10163	4179	4503	4014
Clinton township	1809	1867	1581	649	696	499	Benton township	277	322	348	120	131	117
College township	797	854	844	289	288	237	Cedar township	253	287	320	115	120	117
Fairfax township	2028	2072	1732	736	677	505	Chariton city*	4616	5116	5009	2199	2345	2089
Fairfax city*	780	683	635	290	252	190	English township	505	617	643	222	266	239
Walford city (pt.)*	13	19	1	7	7	1	Williamson city	166	210	216	77	101	90
Fayette township	783	792	736	314	301	276	Jackson township	429	526	477	203	221	210
Palo city*	514	529	430	195	191	153	Lucas city	224	292	247	107	121	121
Franklin township	5758	5385	5022	1862	1821	1380	Liberty township	277	312	311	105	120	104
Lisbon city*	1452	1458	1329	568	543	459	Lincoln township	554	581	467	208	203	152
Mount Vernon city	3657	3325	3018	1033	1006	716	Otter Creek township	188	250	299	94	103	116
Grant township	1164	1286	1148	434	448	394	Pleasant township	252	330	323	112	138	111
Walker city*	673	733	622	261	270	232	Union township	339	416	438	160	182	187
Jackson township	1402	1456	1381	567	537	491	Derby city	135	171	161	68	77	78
Central City city (pt.)*	60	32	9	21	9	3	Warren township	203	254	285	88	110	105
Coggon city	645	639	656	262	256	220	Washington township	724	816	836	357	367	337
Linn township	641	681	708	242	234	214	Russell city	531	593	591	261	272	247
Maine township	1610	1744	1867	691	686	622	Whitebreast township	453	486	407	196	197	130
Central City city (pt.)*	1003	1035	1107	450	438	388	Lyon County	11952	12896	13340	4561	4776	4363
Marion township	23380	22599	20835	8954	8081	6238	Allison township	242	281	323	84	84	80
Marion city*	20403	19474	18028	7998	7194	5522	Lester city (pt.)	34	20	11	15	9	4
Robins city (pt.)	193	133	116	62	40	30	Centennial township	224	236	257	85	82	77
Monroe township	9468	9160	5986	3751	3439	1769	Cleveland township	362	427	445	105	113	115
Hiawatha city*	4986	4825	2416	2189	1989	709	Dale township	290	348	411	96	114	122
Robins city (pt.)	682	593	547	236	190	148	Doon township	1096	1177	1121	385	407	377
Otter Creek township	1210	1247	1155	439	430	365	Alvord city	204	246	204	78	90	89
Alburnett city	456	411	418	175	164	146	Doon city	476	537	437	173	207	166
Putnam township	1119	1139	918	445	392	284	Elgin township	688	745	868	303	324	317
Ely city	517	425	275	203	146	91	Little Rock city	493	490	531	230	236	230
Spring Grove township	858	844	848	446	311	444	Garfield township	355	389	421	104	110	110
Washington township	2417	2439	2061	937	907	677	Grant township	327	417	509	123	137	148
Center Point city*	1693	1591	1456	650	614	484	Larchwood township	1224	1240	1134	435	446	352
Louisa County	11592	12055	10682	5044	4828	3970	Larchwood city	739	701	611	278	267	202
Columbus City township	2541	2466	2228	1017	962	835	Lester city (pt.)	223	254	227	81	96	78
Columbus City city	328	367	312	132	134	112	Liberal township	490	572	534	170	178	155
Columbus Junction city*	1616	1429	1205	638	566	479	George city (pt.)	172	190	120	60	60	34
Cotter city	53	60	55	22	21	20	Logan township	364	380	493	103	106	108
Concord township	650	655	562	313	292	192	Lyon township	268	305	310	85	90	88
Fredonia city	201	224	168	86	93	66	Midland township	204	231	311	68	71	80
Eliot township	709	758	690	332	323	263	Richland township	1166	1138	1115	430	451	379
Oakville city	442	470	369	187	180	128	Inwood city	824	755	644	331	327	253
Elm Grove township	242	260	304	103	111	112	Riverside township	408	391	413	151	155	132
Grandview township	1394	1462	1330	533	514	415	Rock Rapids city (pt.)	145	130	162	65	71	53
Grandview city*	514	473	357	199	184	134	Rock township	2740	2853	2812	1180	1208	1072
Letts city	390	473	434	149	155	135	Rock Rapids city (pt.)	2456	2563	2470	1092	1111	965
Jefferson township	239	275	320	175	182	137	Sioux township	285	331	371	97	96	95
Marshall township	209	250	236	85	82	86	Wheeler township	1219	1435	1492	557	604	556
Morning Sun township	1165	1280	1286	487	497	457							

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Lyon County (cont.)							Mahaska County (cont.)						
Wheeler township							Union township	370	351	344	121	145	139
George city (pt.)	894	1051	1074	452	496	441	West Des Moines township	120	219	206	51	84	80
Madison County	12483	12597	11558	4995	4967	4245	White Oak township	505	569	600	197	236	234
Crawford township	531	586	489	224	232	171	Rose Hill city	171	214	192	75	89	81
Bevington city (pt.)	44	55	47	18	22	16	Marion County	30001	29669	26352	11420	11021	8594
Patterson city*	128	138	120	61	69	49	Clay township	939	1014	934	378	374	334
Douglas township	396	415	445	134	133	146	Harvey city	235	275	217	107	104	87
Grand River township	310	375	381	133	156	160	Dallas township	1688	1853	1790	664	734	627
Macksburg city	110	132	142	65	71	73	Melcher-Dallas city*	1302	...	...	532	...	...
Jackson township	219	303	297	93	113	112	Franklin township	355	391	489	127	135	135
Jefferson township	382	346	333	143	135	118	Indiana township	740	813	862	298	308	304
Lee township	379	363	303	145	133	105	Knoxville township	10173	10305	9445	4158	3878	3019
Lincoln township	535	496	407	190	171	139	Knoxville city*	8232	8143	7755	3420	3141	2506
Madison township	1063	1140	1102	424	438	386	Lake Prairie township	10771	9705	7949	3677	3495	2514
Earlham city (pt.)	758	798	763	307	313	272	Pella city*	9270	8349	6668	3179	3070	2132
Monroe township	286	292	314	104	109	109	Liberty township	1021	1210	1127	432	435	405
Ohio township	767	757	694	294	317	274	Bussey city	494	579	498	219	218	193
Truro city	391	407	359	168	178	158	Hamilton city	115	163	186	56	66	65
Penn township	728	691	608	269	248	183	Marysville city	65	84	91	23	28	28
Earlham city (pt.)	399	342	211	149	115	59	Pleasant Grove township	2387	2492	2058	963	973	694
Scott township	544	559	433	198	203	155	Pleasantville city*	1536	1531	1297	643	628	461
South township	1169	1160	965	454	448	327	Swan city	76	102	56	33	33	22
St. Charles city*	537	507	443	218	213	169	Red Rock township	423	417	394	161	160	126
Union township	316	367	325	118	126	109	Summit township	676	677	585	246	239	182
Walnut township	442	441	504	176	171	171	Union township	292	279	217	112	96	74
East Peru city	132	124	184	56	56	71	Washington township	536	513	502	204	194	180
Webster township	220	285	304	90	102	102	Marshall County	38276	41652	41076	15862	16338	13986
Winterset city*	4196	4021	3654	1806	1732	1478	Bangor township	173	215	293	74	88	102
Mahaska County	21522	22867	22177	8977	9323	8247	Eden township	564	677	764	241	259	249
Adams township	312	324	378	116	118	134	Rhodes city	272	367	347	123	141	125
Black Oak township	594	726	759	208	228	213	Greencastle township	1221	1357	1274	488	518	445
Leighton city	142	137	140	58	61	51	Ferguson city	166	173	203	59	66	71
Cedar township	1075	1172	1030	460	484	393	Gilman city	586	642	513	248	256	185
Fremont city	701	730	480	316	315	216	Iowa township	773	942	993	294	324	301
East Des Moines township	268	216	209	109	109	112	Albion city	585	739	772	221	248	230
Eddyville city (pt.)*	-	2	...	-	1	...	Jefferson township	876	919	951	345	362	305
Garfield township	1237	1284	969	475	464	312	Haverhill city	144	173	160	61	67	52
Beacon city	509	530	338	192	193	109	Laurel city	271	278	245	116	127	94
Harrison township	570	606	600	209	231	214	Le Grand township	1531	1657	1269	599	631	454
Eddyville city (pt.)*	173	189	157	69	78	58	Le Grand city	854	921	565	328	336	188
Jefferson township	369	413	439	166	157	172	Marshalltown city (pt.)*	6	6	10	2	2	3
Lincoln township	410	439	348	148	166	121	Liberty township	328	405	477	144	159	162
Madison township	434	466	463	154	154	151	St. Anthony city (pt.)	110	132	154	48	54	49
Monroe township	290	316	385	111	125	130	Liscomb township	512	602	715	229	238	238
Oskaloosa city*	10632	10989	11224	4638	4777	4292	Liscomb city	258	296	328	122	120	111
Pleasant Grove township	355	469	506	172	188	196	Logan township	970	1080	1140	428	466	387
Barnes City city (pt.)	198	244	218	102	107	98	Melbourne city	669	732	661	299	328	244
Prairie township	1534	1694	1395	685	710	610	Marietta township	2680	2617	2402	719	728	577
New Sharon city	1136	1225	944	544	550	441	Marshalltown city (pt.)*	2091	1957	1681	478	481	344
Richland township	522	557	641	177	180	178	Marion township	980	1030	1023	366	377	326
Scott township	482	514	504	227	227	169	Marshalltown city (pt.)*	11	11	17	7	6	7
Spring Creek township	1443	1543	1177	553	540	397	Marshall township	15755	17148	20124	7315	7514	7457
Keomah Village city*	99	99	...	48	51	...	Marshalltown city (pt.)*	15755	17148	20124	7315	7514	7457
University Park city	604	645	534	203	203	150	Minerva township	557	567	658	210	218	222

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Marshall County (cont.)							Mitchell County (cont.)						
Minerva township (cont.)							Wayne township (cont.)						
Clemons city	173	175	178	71	74	73	McIntire city	147	197	234	71	86	88
St. Anthony city (pt.)	2	8	2	2	3	1	West Lincoln township	305	335	333	114	128	112
State Center township	1618	1722	1732	679	702	611	Orchard city	93	95	115	38	41	37
State Center city	1248	1292	1232	547	552	467	Monona County	10034	11692	12069	4555	4877	4511
Taylor township	516	581	576	205	204	183	Ashton township	578	661	648	266	281	250
Timber Creek township	8345	9113	5514	3227	3215	1630	Whiting city (pt.)	422	460	440	196	207	177
Marshalltown city (pt.)*	7315	7816	4387	2828	2768	1316	Belvidere township	272	302	350	117	128	116
Vienna township	357	417	477	137	160	159	Turin city	95	103	115	39	47	43
Washington township	520	603	694	162	175	178	Center township	184	214	248	80	87	95
Mills County	13202	13406	11832	5004	4832	3950	Castana city (pt.)	1	34	5	1	9	2
Anderson township	564	632	670	233	231	239	Cooper township	804	880	895	326	310	285
Henderson city	206	236	211	89	90	73	Mapleton city (pt.)	510	542	545	215	196	169
Center township	564	449	360	149	164	116	Fairview township	146	178	177	59	67	65
Deer Creek township	215	282	291	92	106	107	Franklin township	290	337	319	155	158	108
Glenwood township	5828	6050	4930	2105	2015	1448	Grant township	310	320	344	132	138	135
Glenwood city*	4571	5280	4421	1792	1759	1291	Rodney city	65	82	66	35	37	39
Indian Creek township	978	1038	1134	426	447	419	Jordan township	200	241	284	82	98	103
Emerson city	476	502	484	218	228	209	Kennebec township	342	430	450	170	179	165
Hastings city	187	215	229	78	83	73	Castana city (pt.)	158	194	206	82	90	81
Ingraham township	483	545	573	210	212	220	Lake township	189	251	281	81	99	86
Silver City city	252	291	272	112	121	117	Whiting city (pt.)	12	2	3	2	2	2
Lyons township	242	185	204	131	78	77	Lincoln township	355	394	282	132	108	121
Malvern city	1210	1244	1158	466	493	448	Whiting city (pt.)	145	120	12	15	13	3
Oak township	1276	1086	740	497	383	255	Maple township	1051	1256	1456	506	576	576
Plattville township	824	768	775	307	282	259	Mapleton city (pt.)	784	953	1102	390	463	465
Pacific Junction city	548	511	505	201	182	167	Onawa city	2936	3283	3154	1354	1396	1211
Rawles township	376	352	458	133	131	150	St. Clair township	567	744	745	289	321	285
St. Marys township	162	189	119	72	75	39	Ute city	395	479	512	213	226	214
Silver Creek township	199	217	169	78	80	64	Sherman township	373	424	457	176	192	183
Tabor city (pt.)	56	121	109	23	47	40	Blencoe city	250	247	255	114	118	110
White Cloud township	225	248	251	82	88	109	Sioux township	115	119	169	41	51	58
Mitchell County	10928	12329	13108	4514	4735	4335	Soldier township	465	524	584	209	230	217
Burr Oak township	280	321	418	96	106	108	Soldier city	205	257	242	112	125	105
Cedar township	589	627	670	223	213	195	Spring Valley township	481	534	604	209	233	246
Douglas township	362	481	591	133	159	156	Moorhead city	259	264	271	115	125	129
East Lincoln township	137	213	188	54	72	63	West Fork township	268	346	385	117	134	130
Jenkins township	867	968	950	354	382	335	Whiting city (pt.)	104	152	135	59	69	59
Riceville city (pt.)*	493	563	511	227	249	197	Willow township	108	254	237	54	91	76
Liberty township	248	365	424	106	121	122	Monroe County	8114	9209	9357	3740	3822	3481
Mitchell township	447	472	545	172	178	182	Bluff Creek township	284	330	401	127	133	135
Mitchell city	170	193	233	77	79	81	Cedar township	151	185	229	59	78	82
Newburg township	383	436	452	158	164	168	Franklin township	169	230	246	74	81	84
Carpenter city	102	109	122	54	58	53	Guilford township	320	374	407	132	141	134
Osage township	3772	4089	4174	1713	1728	1492	Jackson township	345	454	402	341	200	167
Osage city*	3439	3718	3815	1594	1610	1386	Melrose city	150	218	192	82	105	90
Otranto township	356	412	434	142	142	155	Mantua township	472	587	544	197	222	185
Rock township	340	381	441	115	131	126	Monroe township	330	366	388	128	133	114
St. Ansgar township	1325	1409	1460	554	575	511	Pleasant township	298	422	360	126	146	130
St. Ansgar city*	1063	1100	994	447	466	410	Eddyville city (pt.)*	-	5	7	-	1	1
Stacyville township	818	968	1037	324	331	299	Troy township	4453	4711	4784	2010	2096	1884
Stacyville city	481	538	598	212	211	189	Albia city*	3870	4184	4151	1772	1900	1678
Union township	317	359	417	110	121	126	Union township	902	1029	1076	383	400	386
Wayne township	382	493	574	146	184	185	Lovilia city*	551	637	640	251	264	246

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Monroe County (cont.)							O'Brien County	15444	16972	17522	6476	6659	6099
Urbana township	240	303	294	103	103	91	Baker township	285	330	419	104	114	114
Wayne township	150	218	226	60	89	89	Caledonia township	356	444	561	135	151	159
Montgomery County	12076	13413	12781	5363	5800	4996	Carroll township	539	555	586	198	211	202
Douglas township	315	373	439	166	182	180	Archer city (pt.)*	131	129	134	59	70	66
Grant city	123	143	152	72	77	74	Sheldon city (pt.)*	44	36	54	18	13	15
East township	1576	1706	335	746	810	123	Center township	423	523	589	170	190	186
Villisca city	1332	1434	1402	638	680	631	Primghar city (pt.)	185	222	188	85	85	69
Frankfort township	353	376	327	118	136	108	Dale township	507	558	634	210	222	221
Stanton city (pt.)	34	41	26	13	14	9	Primghar city (pt.)	225	243	247	108	110	109
Garfield township	225	284	291	93	108	94	Floyd township	5206	5345	4946	2095	2061	1707
Grant township	358	415	385	140	153	126	Sheldon city (pt.)*	4822	4952	4481	1962	1937	1582
Coburg city	58	52	36	22	20	20	Franklin township	1632	1781	1854	653	661	586
Lincoln township	257	267	292	94	103	103	Sanborn city*	1345	1398	1465	560	558	478
Pilot Grove township	241	328	309	98	112	117	Grant township	201	292	323	85	101	114
Red Oak township	6692	7291	6745	3070	3211	2687	Hartley township	1916	2019	2070	873	892	813
Red Oak city	6264	6810	6210	2911	3021	2537	Hartley city	1632	1700	1694	764	785	704
Scott township	962	1067	935	369	414	355	Highland township	333	392	448	130	134	143
Stanton city (pt.)	658	706	548	250	266	228	Primghar city (pt.)	24	14	2	12	8	1
Sherman township	638	768	723	281	324	269	Liberty township	431	575	620	193	209	218
Elliot city	399	493	423	187	216	168	Calumet city	160	212	219	78	86	90
Washington township	218	261	291	93	125	96	Sutherland city (pt.)*	35	43	43	16	16	14
West township	241	277	307	95	122	107	Lincoln township	248	294	390	93	102	114
Muscatine County	39907	40436	37181	16044	15245	12728	Omega township	290	351	423	112	125	138
Bloomington township	1667	1142	724	569	437	187	Moneta city	29	43	41	17	17	17
Muscatine city (pt.)*	600	353	...	205	164	...	Summit township	778	874	917	339	369	345
Cedar township	256	290	282	109	110	91	Archer city (pt.)	-	5	...	-	1	...
Fruitland township	2064	2120	1442	704	664	406	Primghar city (pt.)	516	571	558	247	272	233
Fruitland city	511	461	...	165	138	...	Union township	1404	1556	1640	665	666	620
Muscatine city (pt.)*	598	805	...	219	215	...	Paullina city*	1134	1224	1257	550	552	507
Fulton township	777	947	921	276	280	241	Waterman township	895	1083	1102	421	451	419
Stockton city	187	240	222	72	75	63	Sutherland city (pt.)*	679	854	832	325	368	327
Walcott city (pt.)	-	-	-	-	-	-	Osceola County	7267	8371	8555	2998	3266	2958
Goshen township	721	719	655	321	243	249	Allison township	195	251	325	73	86	94
Atalissa city	357	360	244	110	112	86	Baker township	491	575	675	232	263	238
Lake township	507	531	490	182	179	161	Melvin city*	250	277	325	131	151	126
Montpelier township	849	996	858	359	359	285	Fairview township	333	411	441	143	168	161
Moscow township	752	772	636	416	433	351	Harris city	170	228	195	84	103	88
Wilton city (pt.)*	-	1	...	-	1	...	Gilman township	797	818	863	331	331	305
Muscatine township	21660	22309	22405	8865	8596	7742	Ashton city*	462	441	483	216	213	193
Muscatine city (pt.)*	21660	22309	22405	8865	8596	7742	Goewey township	293	341	395	102	112	115
Orono township	497	459	453	208	154	145	Harrison township	277	386	442	131	154	148
Conesville city	334	301	295	125	99	94	Holman township	3494	3921	3710	1438	1520	1304
Pike township	797	891	954	366	362	363	Sibley city	2815	3051	2749	1184	1234	1031
Nichols city	366	375	396	135	145	128	Horton township	246	292	287	77	89	89
Seventy-six township	347	426	438	149	146	138	Ocheyedan township	782	918	880	338	381	347
Muscatine city (pt.)*	-	-	...	-	-	...	Ocheyedan city	539	599	545	259	272	252
Sweetland township	2429	2419	1484	973	907	518	Viola township	167	227	258	59	78	74
Muscatine city (pt.)*	23	...	...	8	...	...	Wilson township	192	231	279	74	84	83
Wapsinonoc township	3552	3394	2971	1315	1250	1010	Page County	16870	19063	18537	7339	8073	7136
West Liberty city*	2935	2723	2296	1103	1042	812	Amity township	537	650	637	211	251	241
Wilton township	3032	3021	2468	1232	1125	841	Bradyville city (pt.)	58	44	47	19	15	15
Durant city (pt.)	7	-	4	2	-	2	College Springs city	230	307	295	94	112	118
Wilton city (pt.)*	2573	2492	1873	1072	959	670	Buchanan township	351	387	422	150	159	160
							Bradyville city (pt.)	161	155	160	69	64	66

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Page County (cont.)							Plymouth County	23388	24743	24322	8806	8860	7567
Colfax township	284	376	393	132	171	173	America township	8964	8853	8686	3437	3263	2743
Blanchard city	67	101	139	38	51	55	Le Mars city*	8454	8276	8159	3280	3095	2603
Coin city (pt.)	17	17	15	6	7	5	Elgin township	452	520	584	166	170	162
Douglas township	221	270	270	95	108	96	Struble city	67	70	59	30	31	22
East River township	285	301	327	104	118	117	Elkhorn township	282	345	276	101	114	102
Clarinda city (pt.)	-	7	59	-	2	27	Kingsley city (pt.)	-	-	...	-	-	...
Fremont township	276	349	365	117	133	140	Fredonia township	332	378	440	105	108	108
Grant township	6004	6854	6452	2765	3024	2596	Garfield township	1318	1450	1477	572	591	511
Shenandoah city (pt.)*	5572	6274	5968	2591	2834	2444	Kingsley city (pt.)	1129	1209	1097	497	498	393
Harlan township	456	498	520	184	214	194	Grant township	528	516	532	183	182	178
Clarinda city (pt.)	-	-	-	-	-	-	Craig city	116	105	98	47	48	45
Shambaugh city	190	197	178	84	94	80	Hancock township	301	365	209	105	112	61
Lincoln township	387	497	492	189	231	231	Henry township	257	346	390	82	103	109
Coin city (pt.)	261	299	279	129	147	143	Hungerford township	1309	1353	1095	463	455	328
Morton township	222	272	247	84	103	93	Hinton city	697	659	488	255	239	159
Nebraska township	170	202	157	63	68	52	Johnson township	291	325	403	103	115	115
Nodaway township	5701	6146	6159	2399	2534	2190	Liberty township	338	382	462	116	127	129
Clarinda city (pt.)	5104	5451	5361	2164	2283	1935	Lincoln township	322	422	467	114	138	136
Yorktown city (pt.)	86	114	92	33	44	42	Marion township	610	687	741	203	206	178
Pierce township	1157	1258	1066	482	530	420	Oyens city	113	146	145	46	53	49
Essex city	916	1001	770	392	416	313	Remsen city (pt.)	114	103	41	39	33	10
Tarkio township	271	349	355	117	147	150	Meadow township	335	427	518	111	119	111
Yorktown city (pt.)	14	9	13	6	5	6	Perry township	818	795	562	291	264	175
Valley township	261	318	303	119	132	131	Plymouth township	1027	1098	1130	386	388	364
Hepburn city	41	42	38	21	23	20	Merrill city	729	737	790	277	274	255
Washington township	287	336	372	128	150	152	Portland township	1741	1859	1601	759	806	603
Northboro city*	78	115	115	43	48	49	Akron city	1450	1517	1324	660	693	521
Palo Alto County	10669	12721	13289	4826	5244	4764	Preston township	327	387	403	117	129	118
Booth township	154	233	363	68	91	112	Remsen township	1805	1928	1857	681	690	598
Ellington township	215	263	345	84	99	109	Remsen city (pt.)	1399	1489	1326	556	567	481
Emmetsburg township	2912	3381	3006	1232	1278	1004	Sioux township	348	380	384	131	132	115
Emmetsburg city (pt.)	2615	3006	2540	1129	1162	847	Stanton township	441	424	493	126	139	131
Fairfield township	335	414	484	148	161	159	Union township	281	362	419	98	109	116
Cylinder city	112	119	133	53	44	51	Washington township	513	581	562	178	189	177
Fern Valley township	286	340	473	106	120	140	Brunsville city	137	140	125	57	55	43
Rodman city	56	86	104	27	37	41	Westfield township	448	560	631	178	211	199
Freedom township	1542	1877	1910	705	750	698	Westfield city	160	199	148	80	91	61
Emmetsburg city (pt.)	1325	1615	1610	611	643	598	Pocahontas County	9525	11369	12793	4193	4661	4491
Great Oak township	191	256	329	78	92	105	Bellville township	485	654	680	212	238	227
Highland township	1059	1126	1132	549	620	519	Palmer city	230	288	264	110	119	107
Ruthven city	707	769	708	339	369	315	Cedar township	912	1111	1331	427	471	459
Independence township	201	285	378	90	105	121	Fonda city	731	863	980	354	381	354
Lost Island township	224	310	328	161	181	188	Center township	2130	2460	2443	985	1012	862
Nevada township	149	188	284	57	68	78	Pocahontas city*	2085	2352	2338	969	976	834
Rush Lake township	630	740	817	294	327	321	Colfax township	270	345	433	100	121	138
Curlew city	56	85	95	41	46	44	Cummins township	472	586	603	199	239	235
Mallard city	360	407	384	163	183	167	Havelock city	217	279	248	103	128	115
Silver Lake township	413	563	595	198	232	223	Des Moines township	193	234	312	78	107	122
Ayrshire city	195	243	243	106	112	101	Dover township	256	359	455	113	138	165
Vernon township	166	215	318	74	82	91	Varina city	102	122	140	44	46	54
Walnut township	1093	1294	1292	510	538	446	Garfield township	336	375	444	139	163	173
Graettinger city*	813	923	907	407	410	321	Gilmore City city (pt.)	100	103	92	49	54	45
West Bend township	1099	1236	1235	472	500	450	Grant township	227	279	313	91	104	113
West Bend city (pt.)*	856	924	853	384	389	344	Laketownship	380	470	570	149	182	186
							Gilmore City city (pt.)	141	157	197	64	73	75

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Pocahontas County (cont.)							Polk County (cont.)						
Lincoln township	222	270	329	80	98	106	Madison township (cont.)						
Lizard township	254	411	398	95	132	115	Polk City city (pt.)*	1902	1653	715	617	550	223
Marshall township	228	265	363	92	106	117	Saylor township	5025	5479	6300	2031	2088	1908
Powhatan township	275	389	429	121	184	170	Des Moines city (pt.)*	159	154	199	74	88	86
Plover city	101	135	129	49	70	55	Saylorville CDP (pt.)	1432	...	...	542	...	...
Rolfe city	721	796	767	341	358	318	Saylorville Reservoir unorg.	81	12	...	29	7	...
Roosevelt township	155	207	314	57	73	93	Johnston city (pt.)*	21	-	...	6	-	...
Sherman township	182	229	368	82	101	110	Polk City city (pt.)*	6	5	...	3	2	...
Swan Lake township	1827	1929	2241	832	834	782	Union township	276	263	284	101	97	94
Laurens city*	1550	1606	1792	716	699	641	Sheldahl city (pt.)	19	29	22	8	9	10
Polk County							Walnut township*						
Allen township	764	843	775	292	303	241	49437	37789	12389	21315	15547	4075	
Carlisle city (pt.)*	5	-	...	1	-	...	Clive city*	7462	6064	3005	2927	2342	936
Des Moines city (pt.)*	87	-	...	32	-	...	Des Moines city (pt.)*	756	684	703	352	290	235
Beaver township	2248	2120	1807	794	788	573	Urbandale city (pt.)*	4149	3480	2238	1996	1710	828
Mitchellville city	1670	1530	1341	589	584	432	West Des Moines city (pt.)*	31695	21894	16441	13666	8927	5061
Bloomfield township	26553	26549	21970	10836	10295	6689	Windsor Heights city	5190	5474	6303	2302	2217	2040
Des Moines city (pt.)*	25871	23469	19919	10643	9111	6059	Washington township	409	435	446	154	161	158
West Des Moines city (pt.)*	-	...	...	-	...	...	Webster township	30844	22743	19031	12051	8483	5420
Camp township	1209	1298	1186	457	465	374	Des Moines city (pt.)*	5278	4239	3226	2240	1658	867
Runnells city	306	377	354	131	142	119	Grimes city (pt.)*	804	758	479	344	314	175
Clay township	8049	6693	3675	2872	2290	1089	Johnston city (pt.)*	4206	2211	...	1711	902	...
Altoona city (pt.)*	7189	5764	2883	2581	1964	849	Urbandale city (pt.)*	19351	14389	12196	7300	5194	3448
Bondurant city (pt.)*	30	55	...	12	18	...	Pottawattamie County						
Pleasant Hill city (pt.)*	34	1	...	10	1	...	82628	86561	86991	32831	32419	28121	
Crocker township	20511	17461	10980	7620	6275	3154	Belknap township	1690	1733	1815	723	711	659
Ankeny city (pt.)*	18274	15398	9128	6829	5596	2635	Oakland city	1496	1552	1603	646	635	578
Polk City city (pt.)*	-	...	...	-	...	...	Boomer township	532	555	515	188	183	150
Saylorville CDP (pt.)	1260	...	...	471	...	...	Carson township	897	923	978	390	368	343
Delaware township	4888	5277	5228	1971	1987	1590	Carson city*	705	716	756	312	282	269
Altoona city (pt.)*	2	-	...	1	-	...	Center township	241	323	297	92	104	94
Des Moines city (pt.)*	274	234	...	188	141	...	Crescent township	953	1083	811	345	358	249
Pleasant Hill city (pt.)*	24	2	...	8	4	...	Crescent city	113	547	284	54	180	103
Saylorville CDP (pt.)	13	...	...	7	...	...	Garner township	4025	3590	2261	1376	1241	617
Des Moines township	101032	103566	116970	45708	45467	45126	Council Bluffs city (pt.)*	1650	928	567	566	433	162
Des Moines city (pt.)*	101032	103566	116970	45708	45467	45126	Grove township	257	286	276	103	101	97
Douglas township	1416	1129	636	574	382	212	Hardin township	634	739	655	227	230	197
Ankeny city (pt.)*	208	31	23	154	15	6	McClelland city	139	177	146	49	51	49
Bondurant city (pt.)*	234	219	39	73	70	14	Hazel Dell township	1014	986	709	375	316	214
Saylorville CDP (pt.)	4	...	...	1	...	...	James township	241	298	329	94	115	110
Elkhart township	965	865	862	359	308	274	Kane township	50669	53263	57967	20902	20748	19059
Elkhart city	388	256	269	149	97	91	Carter Lake city	3200	3438	3268	1149	1127	885
Four Mile township	5340	5119	2733	1872	1702	756	Council Bluffs city (pt.)*	47397	49807	54699	19728	19616	18174
Pleasant Hill city (pt.)*	3613	3490	1535	1304	1177	401	Keg Creek township	761	836	688	268	276	210
Franklin township	2022	1696	930	706	555	307	Treynor city (pt.)*	316	360	209	107	119	65
Bondurant city (pt.)*	1320	1009	423	464	327	160	Knox township	1750	1954	1853	774	808	736
Jefferson township	3416	2496	1110	1207	857	353	Avoca city*	1497	1650	1535	678	691	623
Grimes city (pt.)*	1849	1215	355	661	451	131	Lake township	1110	1070	981	383	339	284
Johnston city (pt.)*	475	315	222	164	86	54	Council Bluffs city (pt.)*	96	-	...	32	-	...
Lee township	59730	58657	60387	24052	23158	20266	Layton township	1100	1148	186	434	462	443
Des Moines city (pt.)*	59730	58657	60387	24052	23158	20266	Walnut city*	857	897	870	344	367	346
Lincoln township	913	880	830	316	319	252	Lewis township	9603	10027	8140	3432	3203	2208
Alleman city	340	307	...	106	99	...	Council Bluffs city (pt.)*	5172	5714	5082	1918	1900	1414
Sheldahl city (pt.)	103	103	144	45	43	38	Lincoln township	193	243	304	84	96	101
Madison township	2012	1800	1160	662	602	364	Macedonia township	475	483	587	213	205	193
							Macedonia city	262	279	330	122	122	113
							Minden township	917	904	839	329	340	277

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Pottawattamie County (cont.)							Ringgold County (cont.)						
Minden township (cont.)							Jefferson township	181	219	252	85	102	95
Minden city	498	483	433	191	201	166	Diagonal city (pt.)	31	38	31	15	15	12
Neola city (pt.)	2	11	10	1	4	4	Shannon City city (pt.)	5	14	10	3	6	5
Neola township	1234	1276	1480	457	453	429	Liberty township	190	193	263	113	129	132
Neola city (pt.)	892	828	958	339	313	286	Lincoln township	172	234	294	73	96	102
Norwalk township	1000	933	871	395	341	273	Lotts Creek township	77	108	137	41	65	59
Underwood city*	515	448	424	217	170	137	Middle Fork township	127	170	181	57	78	78
Pleasant township	282	369	343	103	111	116	Monroe township	165	243	291	84	113	121
Shelby city (pt.)	67	58	6	5	4	2	Beaconsfield city (pt.)	27	39	48	14	25	32
Rockford township	656	843	574	222	349	212	Mount Ayr city*	1796	1938	1762	855	909	769
Silver Creek township	858	946	620	321	328	208	Poe township	258	277	216	89	98	98
Treynor city (pt.)*	581	621	263	220	220	98	Rice township	184	222	202	77	88	86
Valley township	427	520	507	189	206	204	Delphos city	23	45	35	15	18	16
Hancock city	201	254	228	98	100	98	Riley township	103	112	139	39	55	54
Washington township	343	392	414	124	132	126	Tingley township	347	409	498	181	214	208
Waveland township	244	272	333	99	105	111	Tingley city	179	210	244	106	116	117
Wright township	213	239	288	85	88	96	Union township	316	289	267	322	194	122
York township	309	327	370	104	102	105	Beaconsfield city (pt.)	-	-	-	-	-	-
Poweshiek County							Ellston city	44	60	76	23	32	42
Bear Creek township	1770	1883	1826	735	748	659	Washington township	429	508	521	206	242	232
Brooklyn city	1439	1509	1410	614	620	539	Diagonal city (pt.)	267	324	296	140	156	150
Chester township	285	345	430	113	119	115	Waubonsie township	101	115	122	40	52	65
Deep River township	596	650	666	243	247	251	Benton city	39	33	46	15	19	29
Deep River city	345	323	323	143	142	139	Sac County						
Grant township	566	572	632	216	208	194	Boyer Valley township	12324	14118	15573	5648	6073	5758
Grinnell city*	8902	8868	8402	3407	3279	2792	Early city*	943	1037	1136	411	432	404
Jackson township	2088	1958	1856	825	827	724	Cedar township	649	670	727	298	314	287
Barnes City city (pt.)	23	22	20	10	11	11	Lytton city (pt.)	550	683	773	259	292	272
Montezuma city	1651	1485	1353	668	663	555	Clinton township	278	334	324	143	154	126
Jefferson township	376	381	490	148	158	167	Cook township	259	309	389	92	114	124
Hartwick city	115	92	101	43	45	43	Coon Valley township	252	293	368	87	107	115
Lincoln township	334	375	430	134	141	153	Delaware township	286	321	425	109	123	122
Guernsey city	70	83	94	36	35	37	Nemaha city	356	432	489	144	169	191
Madison township	562	551	522	563	534	438	Douglas township	112	120	117	47	54	59
Malcom township	770	785	788	270	285	233	Eden township	180	269	342	81	111	119
Malcom city	447	418	388	156	164	116	Eureka township	280	304	371	95	108	110
Pleasant township	295	327	351	111	120	123	Schaller city	1031	1128	1219	442	453	420
Scott township	249	350	354	99	112	105	Jackson township	768	832	835	346	349	306
Sheridan township	263	320	372	106	116	125	Sac City city	2801	3378	3732	1330	1416	1341
Sugar Creek township	464	498	483	200	198	181	Levey township	2492	3000	3268	1198	1284	1205
Searsboro city	164	134	140	78	67	64	Wall Lake city (pt.)*	853	950	1022	331	366	322
Union township	732	589	306	724	661	144	Richland township	634	646	642	251	265	215
Warren township	426	468	493	162	181	165	Odebolt city	1408	1596	1659	618	678	631
Victor city (pt.)	124	149	106	56	58	42	Sac township	1158	1299	1323	530	567	518
Washington township	355	386	402	143	141	125	Auburn city	596	700	773	258	283	283
Ringgold County							Viola township	283	320	329	141	151	144
Athens township	5420	6112	6373	2713	2975	2781	Wall Lake city (pt.)*	628	703	847	312	366	332
Kellerton city	498	488	545	239	261	262	Wall Lake township	241	246	294	103	109	104
Benton township	314	278	299	156	163	156	Lake View city	1661	1702	1666	990	937	850
Maloy city	101	139	193	47	56	88	Wheeler township	1303	1291	1249	793	768	687
Clinton township	36	38	45	16	16	25	Scott County	240	313	362	89	118	122
Redding city	200	247	273	93	135	124	Allens Grove township	150979	160022	142687	61379	59764	46397
Grant township	119	91	111	49	56	56	Dixon city (pt.)	992	1093	872	371	385	265
Clearfield city (pt.)	175	201	217	72	88	86	Donahue city	117	148	140	52	53	51
	10	15	13	4	7	5		316	289	216	103	94	60

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Scott County (cont.)							Shelby County (cont.)						
Blue Grass township	3860	4387	3361	1456	1529	968	Union township	854	1114	1155	330	352	318
Blue Grass city (pt.)	771	926	696	261	264	177	Defiance city	312	383	392	129	136	126
Walcott city (pt.)	1354	1412	989	539	533	302	Earling city (pt.)	201	302	245	86	86	59
Buffalo township	4053	4424	3023	1435	1406	880	Washington township	511	652	732	203	208	185
Blue Grass city (pt.)	443	451	336	160	143	113	Panama city	201	229	221	95	93	83
Buffalo city*	1260	1569	1513	459	531	428	Westphalia township	812	925	1082	288	294	264
Butler township	3350	3244	1361	1190	1059	444	Earling city (pt.)	265	218	328	89	86	83
McCausland city	308	381	226	121	128	81	Westphalia city	144	169	121	63	67	53
Park View CDP	2192	2140	...	740	686	...							
Cleona township	465	509	554	156	156	144	Sioux County	29903	30813	27996	10333	10414	8412
Durant city (pt.)	2	4	5	1	1	1	Buncombe township	1938	2190	2096	828	824	717
Walcott city (pt.)	-	-	...	-	-	...	Hawarden city (pt.)	1851	2037	1979	794	787	686
Davenport City township	95333	103153	98322	40343	40254	33422	Capel township	529	562	539	149	167	143
Davenport city*	95333	103264	98469	40343	40294	33466	Center township	399	452	513	120	126	118
Hickory Grove township	707	835	816	257	264	230	Eagle township	333	368	425	102	113	112
Maysville city	170	151	170	61	50	51	East Orange township	592	690	789	235	246	232
Walcott city (pt.)	2	13	...	1	4	...	Granville city	298	336	383	147	157	135
Le Claire township	4282	4495	3691	1635	1564	1136	Floyd township	1099	1248	1223	420	433	379
Le Claire city*	2734	2899	2520	1076	1035	765	Hospers city*	643	655	646	264	273	234
Liberty township	773	771	844	284	264	242	Garfield township	280	289	386	96	102	99
Dixon city (pt.)	85	164	136	37	52	40	Grant township	549	572	555	198	212	195
New Liberty city	139	136	141	49	47	49	Matlock city	92	109	89	36	46	41
Lincoln township	581	693	695	207	240	193	Sheldon city (pt.)*	71	15	(NA)	28	5	(NA)
Pleasant Valley township	29679	29003	24292	11645	10223	7093	Holland township	5234	4889	3835	1744	1667	1296
Bettendorf city	28132	27381	22126	11063	9668	6445	Orange City city (pt.)*	4627	4239	3148	1573	1485	1138
Panorama Park city	127	145	219	57	50	59	Lincoln township	2283	2324	2164	790	805	676
Riverdale city	433	462	684	173	181	219	Hull city*	1724	1714	1523	634	635	519
Princeton township	1434	1615	1243	546	564	371	Logan township	826	962	1092	398	439	406
Princeton city	806	965	633	320	347	215	Chatsworth city	103	110	90	45	48	41
Sheridan township	4045	4001	2600	1404	1284	736	Hawarden city (pt.)	588	685	810	304	333	311
Eldridge city	3378	3279	1535	1170	1034	435	Lynn township	392	503	479	121	147	119
Winfield township	1425	1799	1013	450	572	273	Nassau township	1734	1748	1921	561	566	485
Long Grove city	605	596	269	190	175	83	Alton city	1063	986	1018	425	403	353
							Orange City city (pt.)*	313	349	424	17	44	16
Shelby County	13230	15043	15528	5430	5611	4953	Plato township	567	664	658	164	176	162
Cass township	476	622	742	201	212	197	Reading township	902	954	970	330	360	317
Portsmouth city	209	240	239	98	99	87	Ireton city	597	588	582	229	235	208
Center township	419	455	476	156	159	131	Rock township	3362	3533	2780	1243	1216	863
Clay township	990	1146	1123	389	412	374	Rock Valley city*	2540	2706	2205	1022	994	725
Elk Horn city	672	746	667	265	274	230	Settlers township	125	152	132	37	42	34
Douglas township	395	435	468	141	155	148	Sheridan township	1098	1213	1187	414	448	381
Kirkman city	98	95	72	38	42	34	Boyd city	651	708	670	270	289	229
Fairview township	306	355	413	120	128	140	Sherman township	625	692	706	205	226	198
Greeley township	266	349	407	102	115	120	Maurice city	243	288	266	91	101	83
Irwin city (pt.)	27	39	43	13	14	11	Sioux township	333	383	410	96	107	106
Grove township	197	318	343	75	104	88	Washington township	252	335	365	89	108	104
Marlan city	5148	5357	5049	2253	2212	1778	Welcome township	1221	1289	906	369	380	213
Jackson township	363	450	506	150	160	166	Sioux Center city (pt.)*	485	504	273	174	170	62
Jefferson township	641	751	816	286	301	298	West Branch township	5230	4801	3865	1624	1504	1057
Irwin city (pt.)	367	388	403	175	181	167	Sioux Center city (pt.)*	4589	4084	3177	1446	1300	895
Lincoln township	389	453	457	122	134	122							
Monroe township	309	370	438	120	146	142	Story County	74252	72326	62783	26847	25154	19062
Polk township	213	273	331	85	100	111	Collins township	764	779	816	336	353	322
Shelby township	941	1018	990	409	419	371	Collins city	455	451	404	207	221	183
Shelby city (pt.)	570	607	531	266	266	232	Franklin township	16249	16156	13213	6497	6116	4213
Tennant city	78	77	93	34	33	31	Ames city (pt.)*	13669	13687	11653	5567	5267	3734

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Story County (cont.)							Tama County (cont.)						
Franklin township (cont.)							Perry township (cont.)						
Gilbert city	796	805	521	285	281	155	Traer city*	1552	1703	1682	716	731	673
Grant township	998	976	540	369	355	165	Richland township	244	285	335	92	107	103
Ames city (pt.)*	5	171	26	2	71	8	Salt Creek township	622	670	717	266	302	297
Nevada city (pt.)	335	272	15	119	97	4	Chelsea city	336	376	381	156	182	175
Howard township	1615	1500	1280	609	605	454	Spring Creek township	1268	1444	1455	642	664	589
Roland city	1035	1005	803	394	412	296	Gladbrook city	881	970	961	436	454	382
Story City city (pt.)*	71	64	7	31	23	3	Tama township	2908	3264	3322	1227	1285	1166
Indian Creek township	1268	1297	1270	531	544	452	Tama city	2697	2968	3000	1159	1194	1083
Maxwell city	788	783	758	334	351	289	Toledo township	2948	3085	2998	1182	1163	1006
Lafayette township	3338	3161	2689	1373	1281	968	Toledo city*	2380	2445	2361	985	974	838
Story City city (pt.)*	2888	2698	2097	1209	1114	801	York township	581	633	633	237	260	231
Lincoln township	888	949	862	346	352	325	Elberon city	203	194	203	87	91	86
Zearing city	614	630	535	247	243	208	Vining city*	78	96	71	34	39	33
Milford township	492	518	589	183	176	173							
Ames city (pt.)*	-	-	-	-	-	-	Taylor County	7114	8353	8790	3307	3682	3551
Nevada township	6242	6086	5349	2642	2464	1908	Bedford township	1591	1784	1834	806	851	777
Nevada city (pt.)	5674	5640	4937	2439	2305	1788	Bedford city	1528	1692	1733	778	814	743
New Albany township	1164	1188	1033	438	453	374	Benton township	188	206	227	79	85	85
Colo city	771	808	606	305	314	235	Clayton township	135	184	219	64	74	79
Palestine township	4278	4214	2859	1664	1582	941	Dallas township	702	859	827	347	367	350
Huxley city	2047	1884	937	807	734	310	New Market city	454	554	501	240	247	217
Kelley city (pt.)	91	96	125	37	41	38	Gay township	113	152	177	49	67	81
Sheldahl city (pt.)	171	158	98	61	56	34	Grant township	593	618	674	255	275	273
Slater city	1268	1312	1094	503	492	370	Clearfield city (pt.)	407	418	417	190	194	190
Richland township	470	470	556	164	161	167	Grove township	195	271	279	78	96	100
Sherman township	273	299	372	101	103	115	Holt township	180	239	307	82	102	115
Union township	1103	1172	1062	441	446	375	Jackson township	92	143	165	46	66	56
Cambridge city	714	732	661	288	280	238	Jefferson township	363	465	507	199	228	244
Warren township	533	573	656	226	236	231	Athelstan city	31	45	65	19	25	31
McCallsburg city	292	304	307	129	131	118	Blockton city	213	280	273	118	140	146
Washington township	34577	32988	29637	10927	9927	7879	Marshall township	316	403	467	142	167	180
Ames city (pt.)*	33524	31917	27826	10489	9471	7296	Conway city	57	93	91	28	40	43
Kelley city (pt.)	155	141	110	58	61	39	Sharpsburg city	116	114	106	51	50	50
Tama County	17419	19533	20147	7417	7716	7115	Mason township	197	246	242	78	86	94
Buckingham township	355	384	425	133	143	137	Nodaway township	164	247	253	71	90	106
Carlton township	869	1024	1003	381	413	364	Platte township	1560	1596	1498	675	713	592
Garwin city	533	626	563	246	263	217	Lenox city (pt.)*	1303	1336	1215	582	612	489
Carroll township	305	357	446	115	124	121	Polk township	146	194	241	67	92	86
Clark township	1513	1711	1669	667	694	590	Ross township	142	223	258	64	90	81
Dysart city	1230	1355	1251	551	572	469	Washington township	437	523	615	205	233	252
Columbia township	334	439	436	132	148	140	Gravity city	218	245	286	103	113	119
Crystal township	265	344	383	105	119	123	Union County	12750	13858	13557	5622	5748	5184
Geneseo township	339	383	341	145	132	116	Creston city	7911	8429	8234	3618	3642	3229
Grant township	324	373	443	134	141	147	Dodge township	210	232	258	78	85	92
Highland township	243	321	385	99	117	114	Douglas township	589	702	578	235	253	189
Howard township	305	383	437	120	133	139	Cromwell city	120	157	168	51	57	54
Indian Village township	894	894	902	329	309	332	Grant township	355	375	375	144	162	154
Montour city	312	387	334	131	144	128	Shannon City city (pt.)	92	79	90	37	42	52
Lincoln township	433	505	593	202	211	204	Highland township	277	300	341	100	100	107
Lincoln city	173	202	184	89	91	72	Jones township	333	350	399	145	141	147
Oneida township	497	591	680	246	259	261	Thayer city	79	87	100	35	41	43
Clutier city	219	249	275	126	130	128	Lincoln township	318	351	293	114	114	97
Otter Creek township	373	363	451	130	135	136	New Hope township	619	671	625	267	281	282
Perry township	1799	2080	2093	833	857	799	Lorimer city	377	405	346	171	182	176

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Union County (cont.)							Wapello County (cont.)						
Platte township	309	377	398	124	138	125	Richland township (cont.)						
Kent city	65	70	86	31	37	34	Kirkville city	177	220	222	72	80	69
Pleasant township	120	185	187	68	82	76	Ottumwa city (pt.)	8	-	...	3	-	...
Sand Creek township	231	293	348	107	127	122	Washington township	1603	1909	1859	730	790	726
Arispe city	92	89	93	44	45	41	Eldon city*	1070	1255	1319	488	536	539
Spaulding township	238	295	353	101	111	116	Warren County	36033	34878	27432	13157	12177	8425
Union township	1240	1298	1168	521	512	448	Allen township	3575	3472	2559	1356	1221	792
Afton city*	953	985	823	401	399	343	Carlisle city (pt.)*	3236	3073	2246	1229	1092	698
Van Buren County	7676	8626	8643	3529	3484	3426	Belmont township	1027	1005	887	381	372	309
Bonaparte township	677	699	697	322	303	260	Milo city (pt.)	672	600	426	247	231	170
Bonaparte city	465	489	517	225	220	205	Greenfield township	4672	3896	3510	1654	1207	907
Cedar township	373	437	487	168	186	204	Norwalk city (pt.)*	1229	27	18	460	8	5
Stockport city (pt.)	130	138	185	74	76	74	Spring Hill city	86	95	131	31	35	35
Chequest township	242	302	285	104	122	114	Indianola city*	11340	10843	8852	4304	4104	2833
Des Moines township	214	263	289	89	95	104	Jackson township	632	671	648	240	236	185
Cantril city (pt.)	-	4	3	1	1	4	St. Marys city	113	111	105	45	44	33
Farmington township	961	1105	1082	478	449	436	Jefferson township	1488	1548	1046	527	520	331
Farmington city	655	869	800	330	370	343	Bevington city (pt.)	23	5	7	9	1	1
Harrisburg township	226	254	280	94	105	106	Martensdale city	491	438	306	172	158	103
Henry township	170	191	180	68	66	63	Liberty township	468	571	521	182	216	177
Jackson township	1127	1302	1250	495	515	548	Lincoln township	1849	1741	1455	656	602	431
Cantril city (pt.)	262	295	255	124	125	133	Ackworth city	66	83	111	27	30	28
Milton city	506	567	567	245	252	269	Linn township	5493	5386	3149	1808	1672	919
Lick Creek township	491	531	529	211	211	206	Cumming city	132	151	189	49	47	46
Birmingham city (pt.)	99	90	102	43	41	39	Norwalk city (pt.)*	4497	2649	1727	1461	853	494
Union township	662	785	837	309	329	339	Otter township	678	647	519	240	237	164
Birmingham city (pt.)	287	320	350	149	143	139	Milo city (pt.)	192	178	135	75	75	52
Stockport city (pt.)	130	134	149	57	69	73	Palmyra township	396	552	445	158	189	138
Van Buren township	1458	1508	1399	690	614	524	Richland township	1201	1137	965	429	403	298
Keosauqua city	1020	1003	1018	483	448	386	Hartford city	768	761	582	263	267	182
Vernon township	249	338	374	101	122	128	Squaw township	506	561	410	187	196	135
Mount Sterling city	53	96	87	23	38	38	Union township	491	482	446	178	172	152
Village township	659	729	760	316	299	311	Sandyville city	59	86	89	27	34	29
Washington township	167	182	194	84	68	83	Virginia township	868	992	851	343	346	287
Wapello County	35687	40241	42149	15640	16350	15478	New Virginia city	433	512	452	186	188	162
Adams township	762	897	850	329	335	309	White Breast township	700	773	780	281	276	248
Blakesburg city	333	404	403	171	169	158	Lacona city	357	376	424	153	148	143
Agency township	1233	1310	1195	542	532	449	White Oak township	649	601	389	233	208	119
Agency city	616	657	610	276	268	228	Washington County	19612	20141	18967	7866	7693	6634
Cass township	249	325	321	132	118	118	Brighton township	900	1024	861	373	412	341
Chillicothe city	119	131	126	48	51	45	Brighton city	684	804	632	291	322	268
Center township	26329	29496	32193	11742	12241	12023	Cedar township	312	341	381	113	119	130
Ottumwa city (pt.)	24381	27283	29604	10874	11426	11157	Clay township	266	322	323	112	134	128
Columbia township	1133	1236	1111	459	487	374	Crawford township	603	659	716	252	261	255
Eddyville city (pt.)*	837	920	781	353	375	271	Crawfordsville city	265	290	288	120	124	120
Competine township	313	359	417	122	149	173	Dutch Creek township	311	372	373	108	119	120
Dahlonega township	585	588	615	212	191	143	English River township	3058	3047	2543	1126	1042	803
Ottumwa city (pt.)	99	98	6	35	33	1	Kalona city	1942	1862	1488	773	724	519
Green township	686	805	638	276	276	214	Franklin township	508	550	602	196	214	201
Highland township	344	371	423	126	145	169	West Chester city	178	191	199	72	81	70
Keokuk township	897	1168	685	375	444	229	Highland township	363	371	375	143	132	113
Pleasant township	308	354	397	126	138	136	Iowa township	1514	1464	1393	598	553	424
Polk township	575	634	533	222	229	172	Riverside city*	824	826	758	344	340	257
Richland township	670	789	912	247	275	243	Jackson township	401	462	497	144	155	141

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Washington County (cont.)							Webster County (cont.)						
Lime Creek township	1904	1987	1866	753	756	661	Gowrie township (cont.)						
Wellman city*	1085	1125	977	460	472	413	Gowrie city (pt.)*	987	1031	1199	434	448	442
Marion township	538	599	596	198	209	168	Hardin township	141	173	190	59	67	67
Coppock city (pt.)	12	8	13	2	5	5	Stratford city (pt.)	36	31	39	13	12	11
Oregon township	902	1019	916	367	361	326	Jackson township	391	520	598	165	181	174
Ainsworth city	506	547	455	209	198	163	Clare city	161	229	249	71	84	66
Seventy-Six township	286	343	376	112	122	135	Johnson township	481	628	545	181	210	174
Washington township	7746	7581	7149	3271	3104	2688	Barnum city	174	198	147	69	81	61
Washington city*	7074	6584	6317	3014	2772	2441	Lost Grove township	677	759	795	315	329	290
Wayne County							Gowrie city (pt.)*						
Benton township	267	338	296	108	131	118	Harcourt city	306	347	305	146	143	125
Corydon city (pt.)	28	52	30	15	21	12	Newark township	396	476	626	171	192	195
Clay township	155	190	229	66	79	89	Vincent city*	185	207	204	77	79	70
Clinton township	100	122	152	39	55	54	Otho township	1023	1158	1059	416	412	321
Corydon township	1846	1991	1947	897	943	789	Otho city	529	692	581	226	248	172
Corydon city (pt.)	1647	1766	1715	811	838	709	Pleasant Valley township	744	924	746	302	335	231
Grand River township	486	557	648	253	298	302	Roland township	692	772	807	283	310	296
Clio city (pt.)	88	95	108	42	48	53	Callender city	384	446	421	162	183	160
Lineville city	289	319	385	165	190	186	Sumner township	431	487	511	213	198	205
Howard township	97	123	134	46	58	51	Lehigh city (pt.)	410	467	494	204	191	196
Jackson township	248	270	332	103	136	134	Washington township	817	975	962	327	383	313
Jefferson township	125	181	208	57	72	81	Duncombe city (pt.)	484	496	412	201	199	146
Clio city (pt.)	15	11	5	5	4	4	Webster township	287	347	421	130	143	148
Monroe township	75	121	144	36	47	49	Lehigh city (pt.)	122	158	194	61	67	70
Richman township	714	887	928	374	425	389	Yell township	110	167	203	47	59	67
Humeston city	553	671	673	305	336	302	Lehigh city (pt.)	4	29	51	3	13	17
South Fork township	370	400	386	161	172	156	Winnebago County						
Promise City city	132	149	148	67	71	70	Buffalo township	12122	13010	12990	5030	5251	4526
Union township	258	280	292	111	141	129	Buffalo Center city	1324	1550	1537	614	656	572
Millerton city	44	72	82	20	39	35	Center township	1081	1233	1118	507	539	450
Walnut township	1020	1267	1181	480	578	545	Lake Mills city	2550	2686	2553	1104	1141	933
Seymour city	869	1036	931	409	483	449	Eden township	2143	2281	2124	941	973	804
Warren township	805	910	905	359	431	394	Forest township	145	224	298	68	85	97
Allerton city	599	670	643	276	327	293	Forest City city (pt.)*	4907	4820	4498	1893	1894	1514
Washington township	256	305	334	102	125	120	Leland city	4075	3920	3726	1580	1549	1251
Wright township	245	257	289	142	161	99	Grant township	311	274	223	121	123	89
Webster County							King township						
Badger township	1270	1429	1156	457	477	334	Thompson city	732	964	939	365	399	365
Badger city	569	653	465	214	223	148	Lincoln township	498	668	600	258	291	255
Burnside township	355	399	454	147	157	156	Rake city	435	522	618	211	221	220
Clay township	317	328	428	127	124	130	Linden township	238	283	324	135	136	124
Colfax township	323	403	506	122	153	159	Logan township	199	264	362	84	106	111
Duncombe city (pt.)	4	8	6	2	2	3	Scarville city (pt.)	282	304	341	114	120	131
Cooper township	723	718	970	323	268	326	Mount Valley township	53	51	44	26	22	22
Dayton township	1218	1381	1406	511	549	525	Newton township	616	618	559	222	235	187
Dayton city	818	941	909	361	389	347	Norway township	301	341	407	112	128	131
Deer Creek township	430	476	482	144	154	145	Scarville city (pt.)	389	441	449	146	157	142
Douglas township	1015	1002	887	372	350	275	Winneshiek County						
Elkhorn township	887	1053	1170	314	336	312	Bloomfield township	20847	21876	21758	7726	7420	6434
Fort Dodge city*	25894	29423	31263	11212	11636	10693	Castalia city	589	652	709	235	235	225
Fulton township	541	678	739	220	234	236	Bluffton township	177	188	210	83	78	80
Moorland city	209	257	269	82	87	86	Burr Oak township	414	445	451	169	152	131
Gowrie township	1179	1277	1467	505	542	542	Calmar township	481	532	538	181	182	172
Farnhamville city (pt.)*	-	-	...	-	-	...	Calmar city (pt.)	1866	1927	1925	778	772	660
								1019	1053	1008	437	441	351

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Winneshiek County (cont.)							Woodbury County (cont.)						
Calmar township (cont.)							Rutland township (cont.)						
Spillville city	387	415	361	179	185	154	Pierson city	341	408	421	160	171	173
Canoe township	501	479	523	209	170	157	Sioux City city*	80505	82003	85925	32177	32007	29197
Decorah township	9458	9454	8690	3314	3096	2458	Sloan township	1120	1165	1086	459	472	360
Decorah city*	8063	7991	7237	2836	2653	2059	Sloan city*	938	978	799	386	400	286
Frankville township	514	588	629	180	193	186	Union township	803	882	886	335	347	316
Fremont township	249	319	304	103	112	106	Correctionville city (pt.)	578	589	559	231	232	201
Glenwood township	558	523	465	186	173	144	West Fork township	394	431	427	155	154	150
Hesper township	494	609	612	209	214	199	Willow township	500	553	600	223	245	226
Highland township	310	350	372	135	133	129	Hornick city	222	239	250	107	112	91
Jackson township	369	441	569	135	143	135	Wolf Creek township	281	319	353	102	115	105
Jackson Junction city	87	94	106	32	39	33	Woodbury township	4077	3772	2056	1328	1251	811
Lincoln township	636	708	699	256	250	234	Sergeant Bluff city (pt.)*	2763	2403	1150	917	851	363
Ridgeway city	295	308	218	127	126	98	Worth County						
Madison township	412	462	537	154	158	148	Barton township	7991	9075	8984	3443	3724	3340
Military township	1327	1415	1457	494	489	445	Bristol township	213	285	334	90	115	126
Ossian city	810	829	847	333	333	297	Joice city	522	526	559	216	227	225
Orleans township	304	379	443	114	121	118	Brookfield township	245	223	201	106	100	90
Pleasant township	422	421	462	159	141	140	Danville township	266	347	379	120	139	135
Springfield township	474	506	605	165	153	158	Hanlontown city (pt.)	363	411	488	142	158	165
Sumner township	352	447	496	138	138	142	Deer Creek township	81	102	106	40	44	40
Washington township	1117	1199	1272	412	395	347	Fertile township	183	262	272	77	105	104
Calmar city (pt.)	7	-	-	1	-	-	Fertile city	878	891	897	353	371	319
Fort Atkinson city	367	374	339	166	160	122	Hanlontown city (pt.)	382	372	394	161	162	139
Woodbury County							Wright County						
Arlington township	98276	100884	103052	39071	39022	35127	Belmont township	14269	16319	17294	6636	6945	6410
Moville city	1690	1667	1639	722	697	591	Belmond city (pt.)*	509	531	519	206	200	183
Banner township	1306	1273	1198	569	563	456	Blaine township	274	224	166	100	78	58
Lawton city	822	838	818	321	322	273	Dows city (pt.)	880	1011	1072	401	426	445
Concord township	482	447	406	190	182	143	Galt city	560	635	667	283	289	282
Floyd township	980	1056	828	347	317	216	Boone township	43	60	50	17	20	30
Bronson city	796	927	722	287	286	216	Dayton township	164	235	338	80	95	110
Grange township	209	289	193	88	95	62	Clarion city (pt.)	470	591	705	202	239	248
Grant township	242	297	302	90	96	85	Eagle Grove township	240	315	329	112	132	129
Kedron township	246	279	372	95	112	116	Eagle Grove city	3986	4632	4862	1777	1858	1722
Anthon city (pt.)	823	898	1180	373	405	429	Goldfield city (pt.)*	3671	4324	4489	1641	1736	1599
Correctionville city (pt.)	490	558	711	247	271	285	Grant township	62	58	30	29	22	9
Lakeport township	68	67	73	34	33	35	Clarion city (pt.)	1604	1726	1724	846	903	771
Liberty township	183	205	210	61	76	70	Iowa township	1233	1383	1364	572	594	541
Salix city	967	1093	1022	386	400	354	Rowan city	405	531	564	206	227	235
Sergeant Bluff city (pt.)*	367	429	387	153	168	135	Lake township	189	259	231	112	121	112
Liston township	9	13	14	5	5	3	Clarion city (pt.)	339	465	501	159	203	196
Danbury city	650	792	895	278	293	282	Liberty township	158	224	211	78	97	74
Little Sioux township	430	492	527	195	201	180	Goldfield city (pt.)*	840	978	1031	376	416	372
Smithland city	495	589	661	225	252	252		648	731	692	299	314	258
Miller township	235	282	293	110	134	130							
Anthon city (pt.)	355	368	251	133	126	95							
Morgan township	148	129	-	60	52	1							
Moville township	256	278	330	92	90	89							
Oto township	374	379	336	126	125	107							
Oto city	340	481	541	155	187	189							
Rock township*	118	172	203	69	83	83							
Correctionville city (pt.)	735	860	754	324	353	287							
Cushing city	251	279	238	110	131	105							
Rutland township	220	270	204	107	107	84							
	642	752	858	277	294	311							

Table 1. Township and incorporated place (city) populations and housing units in Iowa Counties, 1970-1990 (continued).

Location	Population			Housing Units			Location	Population			Housing Units		
	1990	1980	1970	1990	1980	1970		1990	1980	1970	1990	1980	1970
Wright County (cont.)							State of Iowa	2776755	2913808	2825368	1143669	1131299	964293
Lincoln township	1267	1377	1429	586	633	552							
Clarion city (pt.)	1072	1138	1068	502	522	420							
Norway township	189	241	327	81	94	120							
Pleasant township	2608	2720	2655	1216	1138	930							
Belmond city (pt.)*	2226	2281	2192	1071	982	785							
Troy township	267	344	382	110	127	123							
Vernon township	178	219	322	88	98	113							
Wall Lake township	169	225	301	106	90	99							
Woolstock township	394	493	562	196	198	191							
Woolstock city	212	235	222	107	104	81							

- = zero. ... = not applicable. NA = not available. * = geographic change from 1980 to 1990.

Township Trivia Questions

Here are several questions that can be answered with township names. The answers are listed below.

- 1) Which U.S. President is listed most frequently among Iowa township names?
- 2) What other U.S. Presidents are listed?
- 3) In what counties could you recreate a debate between former presidential candidates using only the names of townships?
- 4) What presidential campaign slogan is partially represented while the President is not?
- 5) What President's last name is not listed although his first name is included?
- 6) Special Bonus Question: What township name other than that of a U.S. President is most common? (Hint: It also is related to politics.)

Township Trivia Answers

- 1) Washington (49 townships)
- 2) Adams (5 townships), Buchanan (2), Cleveland (1), Clinton (4) Fillmore (1), Garfield (11), Grant (33), Harrison (8), Hayes (3), Jackson (32), Jefferson (23), Johnson (2), Lincoln (42), Madison (13), Monroe (11), Pierce (1), Polk (6), Roosevelt (1), Taylor (6), Van Buren (4), and Wilson (1). Of course, not all of these townships actually were named for a President.
- 3) How about a Lincoln-Douglas debate in Adams, Appanoose, Audubon, Clay, Harrison, Madison, Mitchell (if you count East Lincoln and West Lincoln together as they were before 1910), Montgomery, Page, Polk, Shelby, or Union counties?
- 4) Tippecanoe is listed but Tyler isn't. Thus, there's only partial support for "Tippecanoe and Tyler too."
- 5) Chester is listed twice, but Arthur isn't the name of any township.
- 6) Union (43 townships)

Median Age of Females and Males in Iowa's Counties: 1960-1990

Willis Goudy, Iowa State University

Data on age are reported in each decennial census. Median age refers to that point at which half the residents are older and half are younger. In 1990, the median age of Iowa's residents was 34.0 years, an increase of four years from 30.0 in 1980 (Table 1). The 1970 median of 28.8 years was slightly lower than the 1980 figure, but in 1960 the median age was 30.3. The decline in the median age from 1960 to 1970 was caused by the large numbers of youth born in the 1950s and 1960s. The median age of women has been greater than that of men in each census from 1960 through 1990. In 1990, the difference was 2.8 years, which was an increase from the gap of 1.6 years noted in 1960.

Far more counties were above (83) the state's median age in 1990 than below (16) it (Figure 1). Counties with medians below 34.0 tended to be in or near urban areas. Two counties (Johnson, Story) had medians at least five years below the state figure, primarily because of the large university populations. Twelve others (Adair, Adams, Audubon, Calhoun, Dickinson, Greene, Guthrie, Monona, Pocahontas, Ringgold, Taylor, Wayne) reported medians at least five years above that for Iowa. Median age in Ringgold and Wayne exceeded 42 years. Wayne was the only county with a median age of at least 40 from 1960 through 1990; Johnson and Story were the only ones with medians below 30 years of age at each of these censuses.

From 1980 to 1990, median age increased in all counties. The increase was within one year of the state's increase of 4.0 years in 69 counties (Figure 2). Fifteen counties reported gains greater than 5.0 years; only Dickinson (+6.2) increased by more than 6.0 years, however. The remaining 15 counties gained less than 3.0 years in median age from 1980 to 1990; Ida (+1.4), Johnson (+1.6), Story (+1.8), and Wayne (+1.5) gained fewer than 2.0 years.

Among females, median age increased from less than three years in 27 counties to at least five years in 13 others between 1980 and 1990. For males, more counties had gains of at least five years (23) than of less than three years (8).

In 1980 and 1990, the median age for females was higher than that for males in every county. In 1970, the median for females was 0.4 years lower than that for males in Marion County; in 1960, the median was higher for males than females in two counties (Marion, Worth) and the same in another (Monona).

In 1990, the median age of females was at least five years greater than that of males in seven counties (Calhoun, Hardin, Monona, Palo Alto, Pocahontas, Ringgold, Sac). The difference was less than two years in Cedar, Delaware, Johnson, Marshall, Scott, and Winneshiek counties.

Note: Additional information on age of Iowa's residents was published in the 1991 edition of this volume; see "Age in Iowa's Counties: 1980-1990" and "Younger (17 and Under) and Older (65 and Over) Residents of Iowa's Counties: 1940-1990."

Table 1. Median age of total residents, females, and males in Iowa counties, 1960-1990.

County	Total				Females				Males			
	1990	1980	1970	1960	1990	1980	1970	1960	1990	1980	1970	1960
Adair	39.3	36.3	37.7	35.7	42.0	39.7	39.8	36.6	37.1	32.7	35.6	34.7
Adams	40.1	37.2	37.8	35.0	42.4	39.5	40.2	35.3	37.6	34.1	35.6	34.6
Allamakee	36.5	31.8	31.4	30.4	38.1	33.8	33.0	30.6	35.0	30.0	29.8	30.1
Appanoose	37.8	33.9	37.4	39.8	40.1	36.4	40.5	41.0	35.6	31.9	33.7	38.3
Audubon	40.3	36.1	34.3	32.0	43.0	39.3	35.5	32.3	38.1	32.5	33.0	31.7
Benton	34.7	31.3	30.6	30.8	36.0	33.0	31.5	31.4	33.6	29.6	29.6	30.2
Black Hawk	32.9	27.5	25.1	26.8	33.9	28.3	25.6	27.3	31.7	26.8	24.7	26.4
Boone	36.6	32.6	33.2	33.4	37.9	34.8	35.5	34.9	35.3	30.7	30.8	31.8
Bremer	35.2	29.4	27.4	28.3	36.8	30.9	28.6	29.3	33.8	27.9	26.1	27.4
Buchanan	33.4	28.0	27.1	29.1	34.7	29.5	28.2	30.0	32.1	26.8	25.9	28.2
Buena Vista	33.8	31.8	32.7	31.8	35.6	34.2	34.7	32.3	32.2	29.8	30.4	31.3
Butler	37.9	32.6	33.0	31.9	39.8	34.6	34.5	32.4	36.1	30.8	31.3	31.4
Calhoun	39.8	36.5	36.2	33.1	43.3	39.4	37.0	33.8	37.2	33.0	35.4	32.5
Carroll	34.2	29.4	28.4	28.1	36.0	31.8	30.6	29.1	32.5	27.6	26.0	27.0
Cass	38.3	34.6	35.7	34.5	40.6	37.8	37.4	35.9	35.9	32.2	33.9	33.0
Cedar	36.1	31.8	31.8	31.9	36.9	33.2	33.1	32.3	35.3	30.6	30.5	31.5
Cerro Gordo	35.3	31.9	30.8	30.6	37.0	33.4	32.6	31.1	33.6	30.5	28.9	30.1
Cherokee	37.2	32.7	30.9	32.5	38.6	35.1	32.9	33.4	35.9	30.9	28.8	31.6
Chickasaw	35.7	29.8	29.1	30.4	37.3	31.6	30.1	31.1	34.2	28.4	28.1	29.8
Clarke	36.6	33.6	38.3	36.9	38.1	35.8	40.6	38.1	35.0	31.9	35.8	35.7
Clay	35.1	30.4	31.0	30.7	36.3	31.4	32.1	31.1	34.0	29.5	29.8	30.2
Clayton	35.9	31.7	32.7	32.3	37.1	33.8	33.8	33.0	34.7	30.0	31.4	31.6
Clinton	35.1	30.5	28.7	31.2	36.4	32.0	29.6	31.3	33.8	29.0	27.7	31.2
Crawford	35.3	30.5	29.1	31.9	37.1	31.9	30.1	32.9	34.1	29.2	28.2	30.8
Dallas	34.6	31.2	30.5	33.4	35.7	32.3	31.6	34.6	33.4	30.1	29.3	32.1
Davis	36.1	33.1	36.6	34.6	38.2	35.7	38.4	35.2	34.3	30.7	34.6	34.1
Decatur	35.5	31.3	32.6	34.9	37.4	33.4	35.1	36.4	33.7	29.4	30.1	33.0
Delaware	32.7	27.8	26.1	27.8	33.6	29.1	27.1	28.5	31.9	26.9	25.1	27.0
Des Moines	35.9	31.6	30.1	32.2	37.4	33.2	31.5	33.0	34.2	29.9	28.9	31.2
Dickinson	39.7	33.5	35.5	34.0	41.4	35.4	37.3	34.6	38.0	32.1	33.5	33.4
Dubuque	33.1	27.2	23.9	26.1	34.6	28.4	25.2	27.3	31.4	26.0	22.5	24.9
Emmet	36.2	30.5	29.5	29.1	38.5	32.8	31.5	30.0	33.8	28.7	27.3	28.2
Fayette	36.3	31.4	30.2	30.7	38.3	33.9	32.5	31.4	34.6	29.3	27.9	29.9
Floyd	37.9	32.6	31.9	31.8	39.5	34.6	33.4	33.0	36.2	31.0	30.4	30.7
Franklin	38.0	34.5	36.2	32.8	40.5	37.2	37.5	33.9	36.1	32.3	34.7	31.7
Fremont	38.7	35.3	37.4	35.7	40.3	37.7	39.1	36.4	37.3	33.0	35.5	35.0
Greene	39.4	34.9	35.6	33.7	41.9	38.6	37.8	35.1	37.3	31.9	33.3	32.4
Grundy	38.8	33.2	32.6	32.5	40.6	35.9	34.5	33.2	36.9	30.9	30.7	31.7
Guthrie	39.9	37.1	38.0	35.3	41.8	39.8	40.3	36.4	37.9	34.4	35.5	34.0
Hamilton	37.2	33.3	32.3	31.5	39.0	35.6	34.0	32.2	35.3	31.3	30.6	30.9
Hancock	35.4	31.2	33.2	30.5	36.7	33.0	34.9	30.8	34.3	29.7	31.4	30.3
Hardin	37.8	33.2	32.8	33.8	40.8	36.8	36.0	35.5	35.1	30.0	29.4	31.9
Harrison	36.5	32.9	34.1	33.3	38.8	35.4	36.2	34.2	34.6	30.7	31.7	32.4
Henry	34.6	31.4	30.5	35.8	36.6	32.7	33.0	37.0	33.0	30.2	28.6	34.4
Howard	37.6	34.4	35.6	32.7	40.1	37.0	36.9	32.9	35.6	32.2	34.0	32.6
Humboldt	38.6	34.6	32.4	30.9	40.8	36.9	34.0	31.0	36.8	32.4	30.6	30.9
Ida	36.8	35.4	35.5	34.0	39.3	39.0	36.8	34.6	34.8	31.8	33.8	33.3
Iowa	36.5	33.1	31.9	31.2	38.1	36.0	33.4	31.9	35.0	31.1	30.1	30.4
Jackson	35.0	29.4	28.4	28.6	36.7	30.9	29.3	28.7	33.3	28.1	27.4	28.5
Jasper	36.1	32.5	31.0	30.3	37.8	34.1	32.4	30.9	34.5	30.8	29.4	29.7

Table 1. Median age of total residents, females, and males in Iowa counties, 1960-1990 (continued).

County	Total				Females				Males			
	1990	1980	1970	1960	1990	1980	1970	1960	1990	1980	1970	1960
Jefferson	37.0	31.1	29.4	31.8	38.0	32.9	32.7	33.4	35.9	29.5	26.8	30.1
Johnson	27.1	25.5	23.5	24.4	27.6	25.7	23.6	24.6	26.6	25.4	23.3	24.3
Jones	34.6	29.9	28.5	28.6	36.9	32.7	30.8	30.1	32.8	27.9	26.5	27.4
Keokuk	37.2	35.2	36.5	34.9	39.7	38.0	38.7	36.3	35.2	32.5	33.8	33.3
Kossuth	36.6	31.1	30.2	28.1	38.6	33.3	31.9	28.2	34.8	29.1	28.2	27.9
Lee	35.8	31.2	30.9	32.6	37.6	33.1	33.2	33.3	34.2	29.7	28.9	31.9
Linn	33.1	29.0	26.3	28.5	34.1	29.7	26.8	29.0	32.1	28.1	25.8	28.0
Louisa	34.3	30.3	30.9	32.4	35.9	31.4	31.4	33.0	32.7	29.4	30.4	31.7
Lucas	38.9	36.0	37.6	37.6	40.6	37.7	39.1	38.6	37.2	33.9	35.9	36.6
Lyon	34.8	30.8	30.0	28.2	36.5	32.9	31.3	28.6	32.7	29.0	28.5	27.8
Madison	36.1	33.7	35.8	35.2	37.6	36.1	37.5	35.9	34.8	31.7	33.7	34.4
Mahaska	34.8	31.6	34.0	33.9	36.5	33.8	36.9	35.5	33.2	29.7	30.9	32.3
Marion	34.2	30.6	31.5	33.8	35.1	31.2	31.3	32.6	33.1	30.0	31.7	34.9
Marshall	36.7	31.3	29.6	31.9	37.6	32.3	30.5	32.3	35.7	30.4	28.7	31.5
Mills	35.1	30.6	30.6	31.5	36.2	31.7	32.3	32.6	33.9	29.4	29.1	30.3
Mitchell	38.2	33.9	32.4	30.4	40.8	37.3	34.3	31.4	36.1	31.1	30.3	29.3
Monona	40.5	37.2	36.9	33.5	43.7	39.8	38.3	33.5	38.3	34.1	35.4	33.5
Monroe	37.8	34.3	37.1	35.7	39.8	37.4	38.9	36.2	35.7	31.7	35.3	35.1
Montgomery	38.6	35.1	38.6	35.9	40.7	38.4	41.0	36.7	36.6	32.6	36.0	35.1
Muscatine	33.0	29.2	28.7	31.5	34.2	30.5	29.7	32.4	32.0	28.0	27.6	30.5
O'Brien	36.9	33.0	33.5	31.2	39.4	36.8	35.2	31.5	34.5	30.2	31.6	30.9
Osceola	35.8	33.4	33.2	29.6	38.1	36.4	35.1	30.2	34.4	30.6	31.1	29.0
Page	38.2	35.3	38.7	37.5	40.7	38.4	41.4	38.5	36.1	32.2	35.3	36.4
Palo Alto	37.3	32.1	31.9	28.8	40.7	36.0	34.0	29.3	34.4	28.9	29.4	28.3
Plymouth	34.1	29.8	27.1	28.7	35.7	31.5	28.4	29.1	32.4	28.4	25.8	28.2
Pocahontas	39.1	35.7	32.8	31.5	41.7	38.9	34.7	31.6	36.4	32.6	30.8	31.3
Polk	32.3	29.4	27.7	29.4	33.3	30.4	28.9	30.2	31.2	28.3	26.5	28.5
Pottawattamie	33.5	29.5	27.2	28.1	34.7	30.7	28.2	28.5	32.2	28.4	26.2	27.8
Poweshiek	34.4	30.5	29.3	29.8	36.0	32.7	31.2	31.2	33.0	28.4	27.2	28.2
Ringgold	42.1	38.9	40.4	36.1	44.7	41.1	41.5	37.0	39.6	36.4	39.3	35.0
Sac	38.2	35.4	34.7	32.4	41.0	38.9	36.6	33.5	35.8	32.6	32.7	31.3
Scott	32.4	27.9	26.4	29.0	33.2	28.6	27.1	29.7	31.5	27.3	25.6	28.2
Shelby	37.2	32.2	29.6	28.9	39.1	34.5	31.3	29.6	35.4	30.1	28.0	28.0
Sioux	31.0	26.6	25.5	26.7	32.1	27.6	26.6	27.7	29.7	25.6	24.5	25.6
Story	25.7	23.9	23.3	24.6	28.0	24.8	24.1	26.4	24.4	23.3	22.7	23.7
Tama	37.2	33.5	33.3	32.8	39.1	35.6	34.7	33.3	35.6	31.6	31.9	32.2
Taylor	40.0	37.9	42.0	38.6	42.5	41.1	43.7	39.1	37.8	34.5	40.3	38.1
Union	36.4	32.9	34.9	36.8	38.2	35.1	36.7	38.3	34.7	31.2	33.0	35.1
Van Buren	37.8	34.2	37.8	37.3	39.9	36.8	39.3	38.4	35.7	32.1	36.4	36.1
Wapello	37.0	33.4	33.9	32.5	39.0	35.8	35.8	33.2	35.1	31.3	31.6	31.7
Warren	32.8	28.7	25.6	27.2	33.8	29.2	26.0	27.7	31.7	27.9	25.3	26.5
Washington	35.6	32.0	31.9	32.2	37.5	34.3	34.4	33.7	33.9	29.7	29.5	30.6
Wayne	42.3	40.8	43.2	40.1	44.2	43.9	45.0	41.4	40.0	37.2	41.3	38.7
Webster	35.5	31.2	29.0	29.7	37.2	33.0	30.4	30.5	33.8	29.6	27.6	28.9
Winnebago	35.9	32.7	32.2	31.6	37.7	35.0	34.1	32.4	34.3	30.7	30.2	30.7
Winneshiek	31.8	27.6	25.6	28.0	32.4	28.9	27.0	28.4	31.2	26.5	24.6	27.7
Woodbury	32.9	29.9	28.8	30.2	34.4	31.1	30.1	30.8	31.3	28.7	27.5	29.5
Worth	38.2	35.0	36.1	32.9	40.3	37.7	36.9	32.6	36.4	32.0	35.3	33.2
Wright	38.9	35.2	34.4	31.3	41.0	37.6	36.6	32.1	37.1	33.0	32.2	30.5
State of Iowa	34.0	30.0	28.8	30.3	35.4	31.4	30.2	31.1	32.6	28.7	27.5	29.5

Figure 1. Median age, 1990.

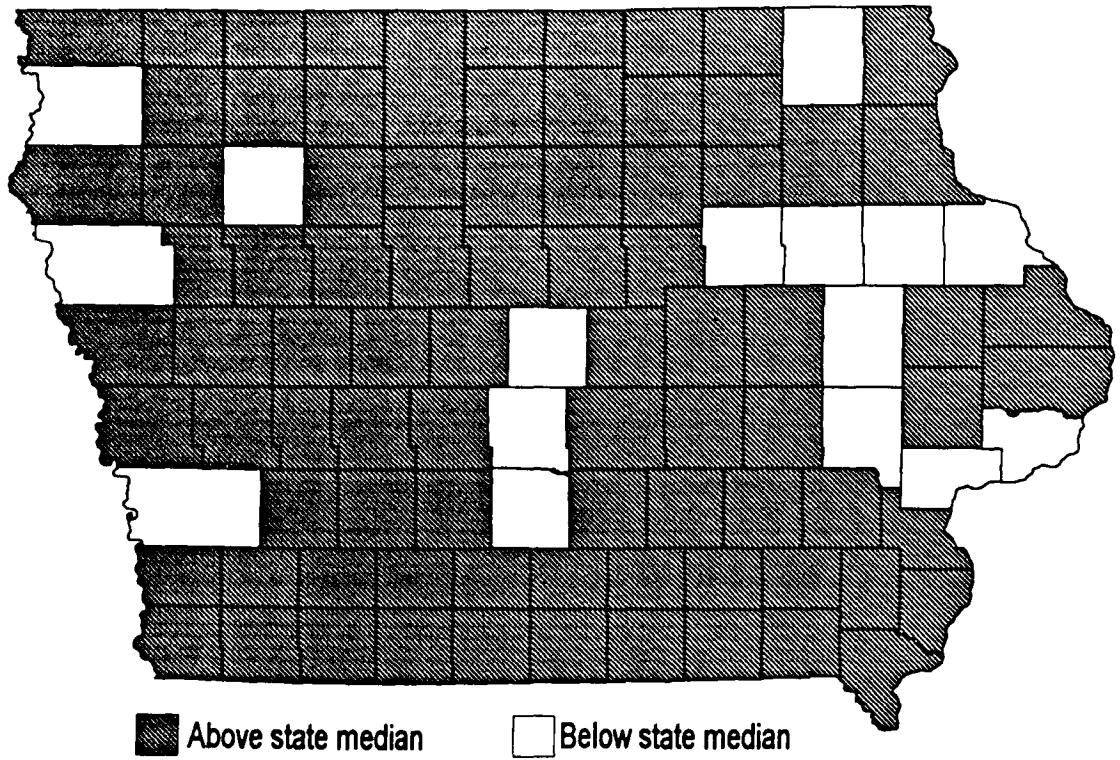
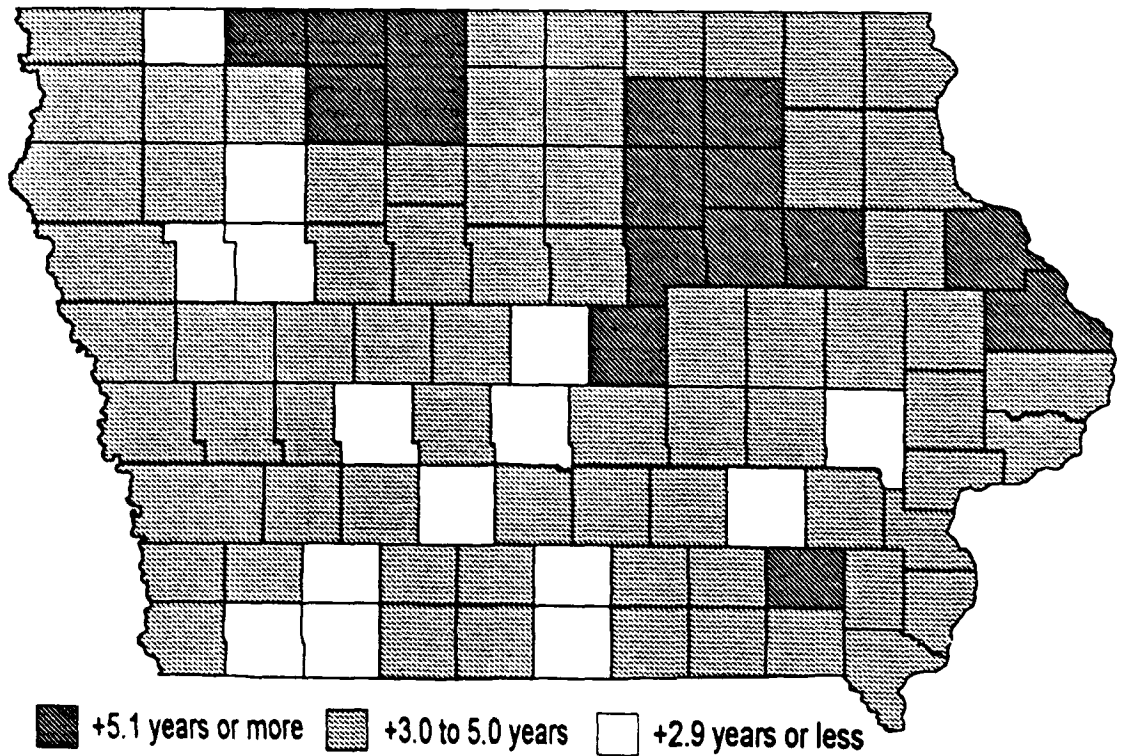


Figure 2. Change in median age, 1980-1990.



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

1980-1992

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The Iowa Department of Public Health annually records vital statistics for Iowa and its counties. Data for 1992 recently were released for births and deaths. Births are counted by the county of residence of the mother, which may not necessarily be the county in which the birth occurs. Similarly, deaths are reported by the county of residence of the deceased individual, although the death may have happened elsewhere.

Births

Iowa had 466 fewer births in 1992 than in 1991 (Table 1). That decline continued the pattern from 1990 to 1991, which followed three annual increases (Figure 1). Nearly 6,300 fewer births occurred in 1992 than 10 years earlier in 1982. 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 33 counties had more births in 1992 than in 1991, 63 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 11 counties to at least 20 in 12 others, with the greatest increases occurring in Polk and Scott. Declines ranged from less than 10 in 22 counties to at least 50 in three others (Black Hawk, Dubuque, Wapello).

Only five counties (Guthrie, Johnson, Linn, Polk, Warren) had more births in 1992 than in 1982, indicating that most areas of Iowa reflected the state's trend. In three counties (Black Hawk, Dubuque, Scott), there were at least 200 fewer births in 1992 than in 1982, led by a drop of 594 in Black Hawk. In 17 other counties, there were from 100 to 199 fewer births in 1992 than in 1982, while 32 counties had from 50 to 99 fewer births at the end than at the beginning of the period.

Deaths

The number of deaths in Iowa has fluctuated much less than the number of births (Figure 2). Deaths in 1982 outnumbered those in 1992 by 272 (Table 2). The change between adjacent years never varied by more than 838 (1984-1985) and decreased about as frequently as it increased from one year to the next. Most recently, deaths decreased by 726 between 1991 and 1992.

Sixty-two counties had fewer deaths in 1992 than the previous year. The decline was less than 10 in 17 counties. Forty-five counties had at least 10 fewer deaths in 1992 than in 1991, although only four (Des Moines, Marshall, Polk, Wapello) had at least 50 fewer deaths during the more recent year. Thirty-five counties had more deaths in 1992 than in 1991; 10 had less than 10 more deaths in the more recent year, and only Scott and Woodbury increased by at least 50 deaths between 1991 and 1992.

The different trends for births and deaths are highlighted when 1992 data are compared with those for 1982. Births were lower in 1992 in all but five counties, and the drop was at least 100 in 20. For deaths, the differences are much smaller. In only Scott did deaths increase or decrease by at least 100 when the two years are compared; indeed, the difference in either direction was less than 10 in 30 counties. At least 10 more deaths were reported in 1992 than in 1982 in 27 counties, but deaths decreased by 10 or more in 42 others.

Table 1. Births in Iowa Counties, 1980-1992.

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

Table 1. Births in Iowa Counties, 1980-1992 (continued).

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

Table 2. Deaths in Iowa Counties, 1980-1992.

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

Table 2. Deaths in Iowa Counties, 1980-1992 (continued).

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

Table 3. Natural Change in Iowa Counties, 1980-1992.

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

Table 3. Natural Change in Iowa Counties, 1980-1992 (continued).

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

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 1980-1992 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 since then. In 1992, there were 11,879 more births than deaths.

Two of every three (66) Iowa counties reported natural increases (more births than deaths) in 1992. These increases ranged from less than 50 in 33 counties to more than 100 in 17 others. Three counties (Linn, Polk, Scott) had at least 1,000 more births than deaths in 1992. Four others (Black Hawk, Johnson, Pottawattamie, Woodbury) had natural increases of at least 500 that year.

Thirty-two counties had natural decreases (more deaths than births) in 1992 (Figure 3). Deaths never outnumbered births by more than 75; seven counties had at least 40 fewer births than deaths (Audubon, Butler, Calhoun, Decatur, Hardin, Humboldt, Page). In six others (Adair, Cherokee, Madison, Van Buren, Worth, Wright), there were fewer than 10 more deaths than births in 1992. In 1980, only two counties (Pocahontas, Wayne) reported more deaths than births. The total of 32 counties experiencing natural decrease in 1992 was the same as that reported in 1991 but still below the high of 39 with more deaths than births noted in 1987 (Figure 4).

Forty-four counties had more births than deaths every year from 1980 through 1992. Only Wayne had more deaths than births every year, although 20 others had natural decreases occurring in at least seven of the 13 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, 1980-1992.

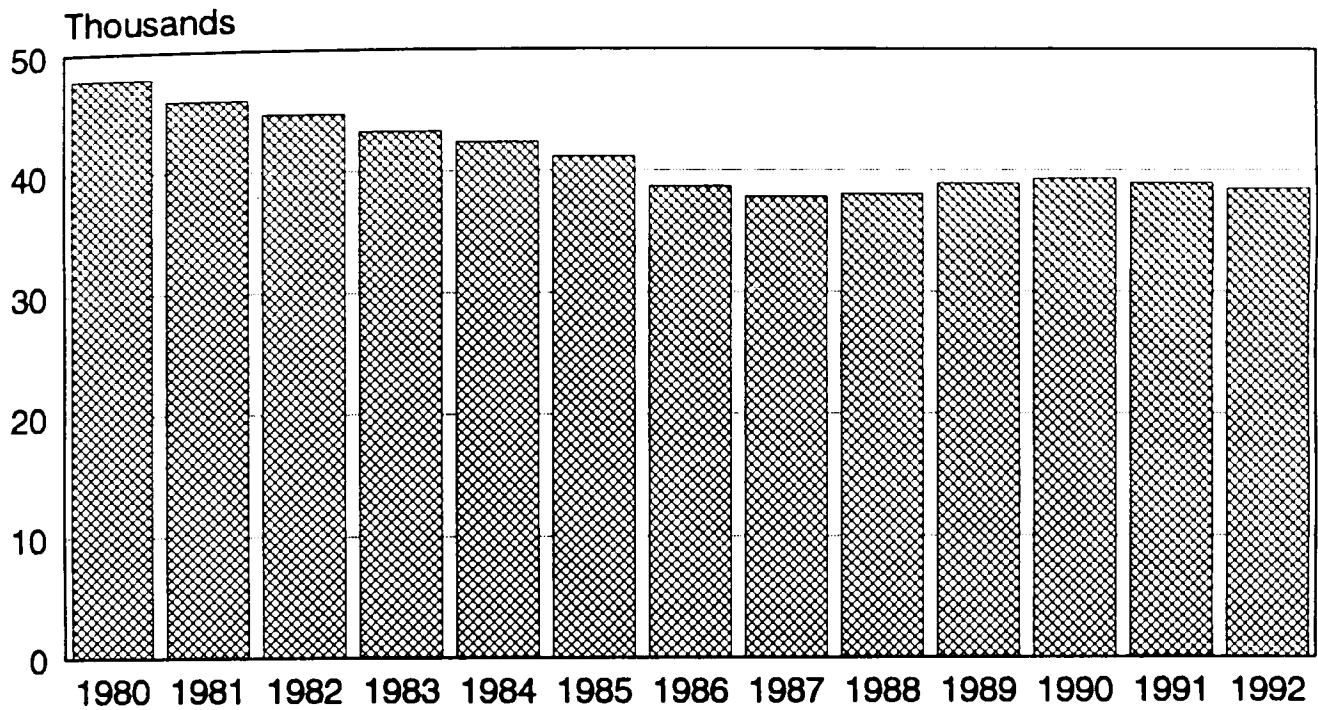


Figure 2. Deaths in Iowa, 1980-1992.

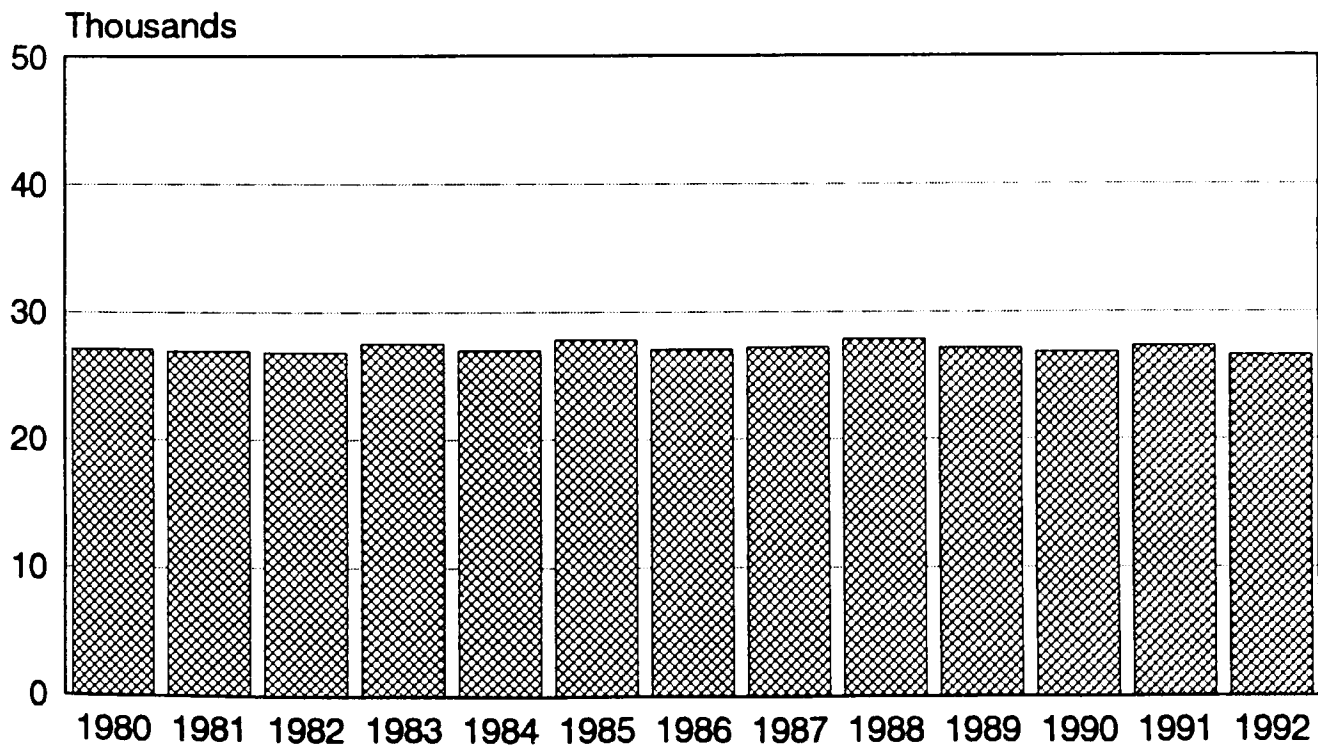


Figure 3. Natural change, 1992.

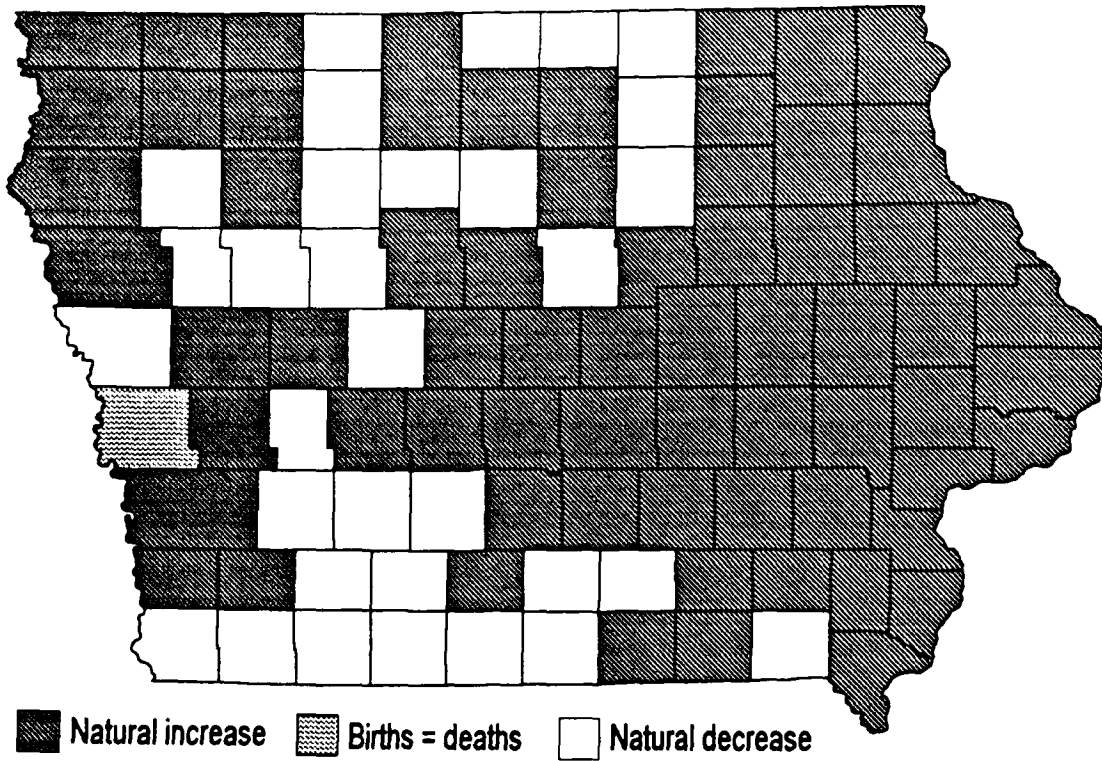
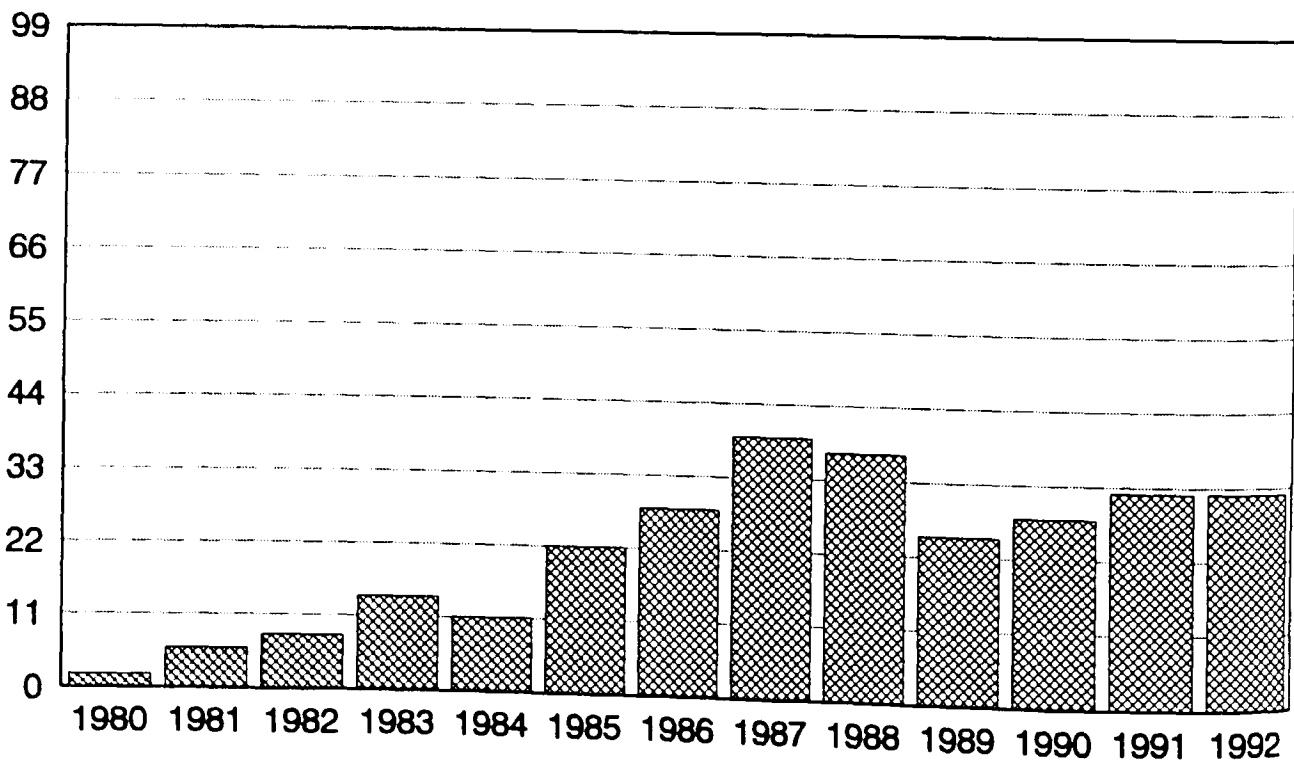


Figure 4. Number of counties with natural decrease in Iowa, 1980-1992.



Estimated Birth and Death Rates in Iowa's Counties:

1980-1992

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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 1991-1992 rates; they are based on population estimates provided by the U.S. Bureau of the Census. The 1991 population estimates were used to calculate the 1992 rates because the 1992 population estimates were not released before this volume was printed.

Iowa and National Birth and Death Rates

The birth rate for Iowa has dropped substantially since 1980 (Figure 1). There were at least two more births per 1,000 residents in 1980 (16.4) than in 1986-1992, although the rate was up half a point from 1987 to 1990. The death rate in Iowa has not changed as much; it increased from 9.3 in 1980 to 10.1 in 1988 and declined to 9.5 from that point. Although Iowa's death rate is somewhat higher than that for the nation (1980, 8.7; 1992, 8.5), the pattern of change has been similar. But the direction of change for birth rates in Iowa and the United States was in marked contrast during most of the period. Iowa's birth rate declined during much of the 1980s, while it increased in the nation; more recently, however, the country's birth rate began to decline so that the 1980 (15.8) and 1992 (16.0) figures are nearly identical. In 1980, Iowa's birth rate was more than a half point above that of the nation; by 1992, however, Iowa's figure of 13.8 was more than two points below that of the United States.

County Data on Birth and Death Rates

In 1992, 16 counties had birth rates above the state figure of 13.8 (Table 1). Four counties (Muscatine, Polk, Scott, Woodbury) had rates at least two points above that for Iowa, while another four (Buchanan, Linn, Lyon, Pottawattamie) had rates at least a point above the state average. Of the 81 counties with birth rates below that of the state, 39 fell at least two points under the state level and another 24 were at least one but less than two points below 13.8. Adams, Audubon, Grundy, Humboldt, and Page had fewer than 10 births for every 1,000 residents in 1992.

Death rates in 1992 varied from under 7.0 (Johnson, Story, Warren) to 16.0 or more (Audubon, Calhoun, Monona) in Iowa's counties (Table 2). Although only seven counties (Grundy, Johnson, Linn, Polk, Sioux, Story, Warren) had death rates two points or more below the state average of 9.5, 44 counties reported rates two or more points greater than that for the state. Thirteen 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 1982 and 1992 generally mirror the decline reported for the state. Only seven counties (Appanoose, Benton, Guthrie, Hamilton, Harrison, Monona, Polk) had higher birth rates in 1992 than in 1982. Eleven had birth rates in 1992 that were less than a point lower than their rates for 1982. But the differences were at least five points in eight counties. Humboldt and Ringgold had birth rates in 1992 that were at least six points lower than 10 years earlier.

For the most part, death rates changed far less than did birth rates. Fifty-nine counties had higher death rates in 1992 than in 1982, as did the state. But in only Hardin and Wayne was the rate

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1992.

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	12.5	10.3	12.1	12.9	10.1	11.0	12.8	13.6	12.5	12.5	15.4	13.3	17.5
Adams	8.7	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	14.3	12.5	12.8	15.2	14.2	14.3	14.6	15.0	14.8	14.8	15.9	16.6	16.7
Appanoose	12.6	12.3	12.1	12.0	12.0	11.5	12.7	13.1	13.4	13.0	12.1	14.9	15.5
Audubon	9.6	10.5	12.4	11.2	10.9	12.5	11.3	13.7	16.2	14.5	14.2	13.2	17.6
Benton	13.5	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	13.2	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	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	11.3	10.4	10.6	11.3	10.3	10.7	11.5	12.5	12.6	13.0	14.9	16.1	16.8
Buchanan	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	13.7	13.2	14.4	12.6	15.0	13.1	14.4	15.3	13.9	14.6	15.0	16.5	15.5
Butler	10.0	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	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	12.6	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	11.2	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	11.3	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	12.7	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	11.2	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	12.5	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	12.7	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	13.4	14.7	13.6	14.9	12.9	13.7	13.7	14.7	13.7	15.9	18.6	16.2	17.7
Clayton	12.1	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	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	11.7	12.2	13.6	12.0	14.6	15.7	13.9	14.3	13.7	17.2	15.6	15.9	17.0
Dallas	13.9	14.1	13.7	15.2	13.2	14.7	13.5	13.7	15.6	15.7	14.7	14.7	15.8
Davis	12.8	15.2	15.4	14.0	13.7	12.9	14.3	15.2	14.3	16.5	15.2	16.4	16.4
Decatur	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	14.4	14.9	15.8	14.6	16.1	15.8	15.6	17.3	16.6	18.2	19.3	17.6	21.2
Des Moines	13.3	13.5	13.3	13.7	13.1	12.6	12.0	15.3	14.7	14.7	14.8	16.1	16.6
Dickinson	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	13.4	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	11.6	13.3	11.6	10.5	11.9	12.4	11.7	12.8	12.5	15.3	15.2	16.1	17.0
Fayette	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	12.1	13.1	12.8	12.7	11.3	11.9	11.9	12.7	12.8	15.0	13.1	14.3	13.2
Franklin	11.2	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	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	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	9.4	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	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	12.8	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	11.4	12.6	13.0	13.0	12.4	12.8	14.4	14.2	15.7	14.2	17.2	15.9	18.2
Hardin	10.1	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	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	13.2	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	12.7	11.5	13.8	12.7	11.0	14.4	13.7	13.0	14.8	15.1	15.5	14.4	16.6
Humboldt	9.4	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	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	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	13.0	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	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

*1992 rates were calculated with 1991 population estimates.

Table 1. Estimated Birth Rates Per 1,000 Population in Iowa Counties, 1980-1992 (continued).

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	11.3	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	14.0	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	12.4	13.0	12.9	12.2	12.5	11.4	11.4	14.8	13.2	13.8	14.0	13.5	15.8
Keokuk	12.6	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	10.9	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	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	15.5	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	12.3	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	10.9	12.1	12.8	10.1	11.9	10.8	11.8	11.3	13.1	11.4	16.0	13.1	16.5
Lyon	15.1	13.1	14.9	14.0	15.3	14.8	13.2	14.8	15.4	16.2	16.9	18.6	18.3
Madison	12.3	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	12.3	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	13.6	12.0	12.5	13.2	12.1	13.7	12.5	14.9	13.6	14.6	15.5	14.7	15.1
Marshall	12.3	12.0	13.1	12.7	12.7	11.7	13.1	13.8	14.3	15.0	14.8	15.6	16.2
Mills	11.3	12.7	10.3	12.7	11.6	13.1	12.9	12.5	14.4	12.9	13.0	15.7	16.8
Mitchell	11.5	13.6	12.0	11.5	12.3	11.9	13.1	12.9	12.9	14.6	12.9	14.1	15.9
Monona	14.5	13.3	11.4	11.1	10.2	10.6	12.3	9.7	12.5	15.4	13.8	14.0	15.3
Monroe	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	13.8	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	16.2	16.7	16.7	17.2	15.5	14.2	15.9	15.6	15.5	17.3	18.2	17.9	17.7
O'Brien	12.9	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	11.9	14.8	12.9	13.8	14.1	11.8	11.7	13.8	13.0	16.1	15.3	15.4	16.4
Page	9.9	10.7	11.9	13.1	12.5	11.1	10.6	13.2	11.2	12.3	12.7	14.1	14.2
Palo Alto	10.6	10.5	8.9	13.0	12.3	11.1	11.8	15.2	13.3	17.3	14.7	16.9	16.4
Plymouth	13.5	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	10.5	11.0	13.0	11.3	13.7	10.9	11.7	15.5	13.8	14.6	13.7	13.4	14.1
Polk	16.7	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	15.2	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	11.3	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	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	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	16.2	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	11.6	11.7	13.8	12.3	12.7	12.8	11.6	12.0	16.1	14.4	16.2	12.7	16.8
Sioux	14.3	14.5	14.5	14.5	15.7	15.4	16.5	16.8	17.0	18.7	18.3	19.1	20.6
Story	11.7	12.0	12.5	11.9	12.8	12.7	12.8	14.0	14.2	14.7	14.0	14.5	14.6
Tama	13.0	12.3	12.3	12.5	11.7	13.1	12.5	13.4	13.7	14.1	14.8	13.4	14.8
Taylor	10.6	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	11.8	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	11.7	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	11.8	13.4	13.7	13.6	11.8	12.3	12.6	12.3	13.8	12.3	14.3	13.7	14.8
Warren	14.1	15.1	13.3	14.0	13.7	13.9	13.4	14.5	14.1	14.0	14.3	14.7	15.8
Washington	13.5	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	10.5	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	14.0	13.9	14.8	14.9	14.5	14.5	13.8	14.8	14.5	15.2	16.3	14.8	16.5
Winnebago	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	12.2	12.1	12.4	12.8	12.9	12.8	13.6	13.4	14.8	14.8	14.2	13.7	14.9
Woodbury	16.8	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	11.5	12.5	12.4	13.2	12.2	12.0	12.1	13.4	13.1	12.4	14.5	14.3	14.0
Wright	12.1	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	13.8	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, 1980-1992.

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	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	11.9	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	12.9	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	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	16.2	13.5	12.0	11.3	15.3	12.4	10.7	13.8	8.9	12.1	14.0	12.0	8.8
Benton	9.2	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	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	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	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	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	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	12.7	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	16.0	14.8	12.9	17.4	14.9	14.4	13.1	17.1	13.6	12.9	13.1	12.2	13.7
Carroll	10.9	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	12.2	14.1	13.6	14.8	15.0	12.8	14.0	14.8	12.9	12.6	12.5	11.1	12.4
Cedar	8.9	8.5	10.1	9.6	9.8	9.7	9.8	9.4	9.5	9.5	9.0	9.5	9.5
Cerro Gordo	10.4	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	11.6	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	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	12.4	13.7	11.2	13.1	11.8	11.1	10.5	13.2	12.0	11.2	9.5	11.7	12.3
Clay	9.8	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	11.7	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	10.2	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	10.2	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	9.0	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	10.4	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	15.7	16.4	12.7	12.4	11.6	12.3	13.4	13.6	10.0	15.2	14.2	10.2	12.2
Delaware	10.0	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	9.3	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	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	9.3	9.7	9.7	9.8	9.1	9.0	9.3	9.0	9.2	8.9	8.7	9.1	8.6
Emmet	12.6	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	11.0	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	12.8	12.7	11.9	12.7	12.6	10.1	11.6	13.3	9.7	11.2	11.8	10.2	11.8
Franklin	10.4	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	15.6	12.9	12.6	14.8	15.3	16.5	14.5	12.5	14.5	13.5	13.6	13.2	12.7
Greene	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	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	12.2	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	11.4	11.6	11.0	11.9	12.1	10.2	10.3	9.8	9.9	11.2	11.4	9.2	9.1
Hancock	10.6	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	14.1	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	13.6	13.7	13.4	11.9	14.7	14.0	11.3	13.3	12.0	12.0	12.7	12.2	12.5
Henry	10.3	11.1	8.8	11.0	10.1	11.5	9.8	11.1	10.6	9.7	10.5	9.5	11.0
Howard	12.3	11.9	12.6	10.8	12.8	15.1	12.6	13.6	13.4	12.7	12.2	12.6	10.1
Humboldt	13.1	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	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	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	10.1	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	10.3	10.8	8.6	9.5	10.4	9.9	9.9	9.5	9.6	10.7	8.7	9.5	9.4

*1992 rates were calculated with 1991 population estimates.

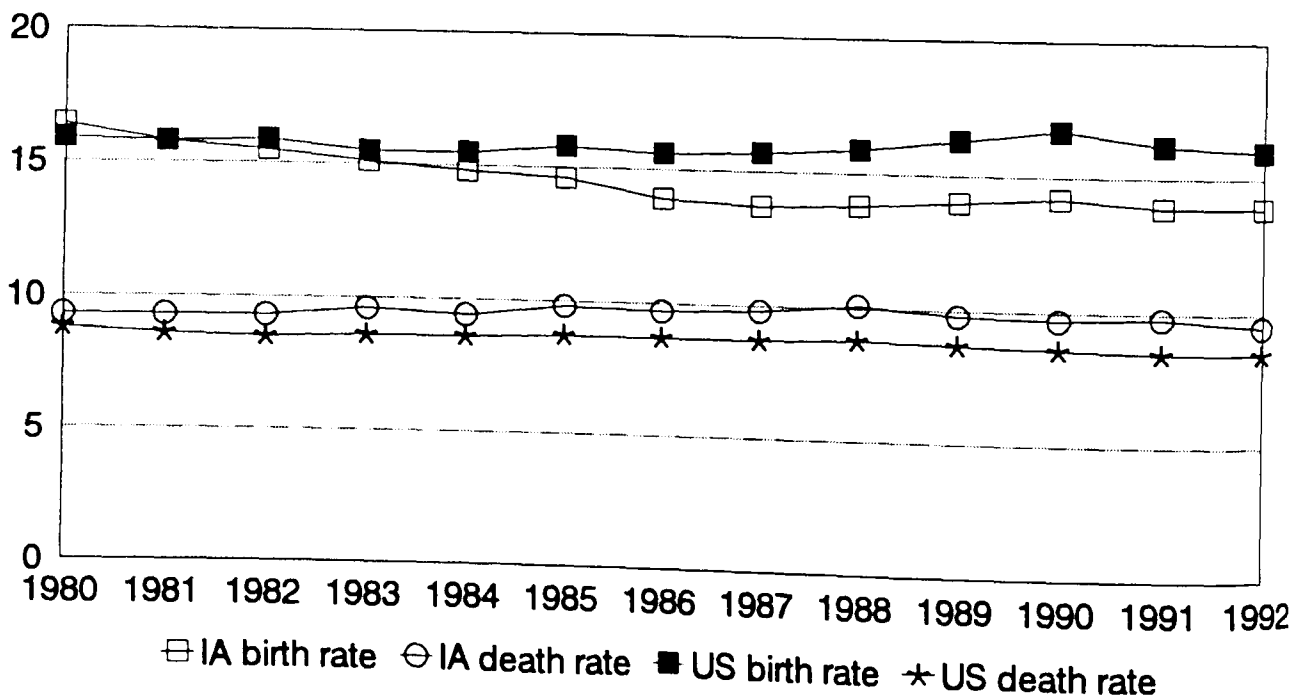
Table 2. Estimated Death Rates per 1,000 Population in Iowa Counties, 1980-1992 (continued).

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	9.8	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	4.5	4.6	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	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	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	11.3	10.6	10.0	10.7	10.2	10.5	10.0	9.5	10.5	10.8	9.7	9.9
Lee	11.4	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	7.2	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	9.7	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	13.3	13.3	14.2	15.1	13.5	11.4	11.9	15.6	11.9	12.4	12.7	12.7	11.2
Lyon	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	13.1	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	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	10.8	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	11.9	13.2	12.7	13.1	11.0	11.8	9.9	10.8	10.2	10.6	10.1	9.8	10.3
Mills	8.2	9.7	9.8	11.1	9.2	11.2	10.6	10.3	9.6	8.3	10.8	9.1	9.9
Mitchell	14.0	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	16.2	14.7	15.5	14.1	14.9	13.9	14.2	16.3	15.3	14.6	13.9	12.1	12.2
Monroe	14.4	13.3	12.9	16.9	12.8	13.6	15.2	13.2	12.5	14.1	13.1	15.2	12.6
Montgomery	13.0	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	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	12.4	13.2	12.3	11.7	12.9	13.4	10.0	11.9	11.9	11.5	12.8	9.8	11.7
Osceola	10.6	12.2	9.1	10.7	11.0	13.7	12.9	12.4	10.9	12.2	10.0	11.6	12.5
Page	13.3	14.1	13.6	12.7	14.0	14.1	13.8	14.4	12.9	13.8	13.1	14.9	11.7
Palo Alto	11.7	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	10.4	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	13.5	14.0	12.7	13.6	16.2	12.8	11.0	14.0	13.4	12.0	16.0	11.8	14.9
Polk	7.4	7.8	7.8	8.0	8.2	7.9	8.1	8.2	7.9	8.0	7.8	7.8	8.1
Pottawattamie	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	10.8	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	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	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	8.0	7.6	7.3	8.1	8.1	8.1	8.1	7.6	7.8	7.8	6.8	7.5	7.3
Shelby	11.0	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	7.2	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	5.5	6.0	5.6	5.5	5.6	5.6	5.6	5.7	4.9	5.4	5.6	5.0	5.6
Tama	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	13.3	16.2	14.8	18.5	13.5	16.1	16.1	12.5	13.1	15.3	15.3	15.3	13.6
Union	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	12.5	13.9	11.3	15.4	17.1	13.6	14.5	14.4	10.0	14.6	12.8	11.5	13.8
Wapello	11.7	13.6	13.3	12.9	13.4	12.2	13.6	11.6	13.2	12.5	11.2	11.9	12.4
Warren	6.4	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	10.3	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	15.9	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	11.9	12.1	11.2	11.3	12.2	11.9	10.7	11.1	10.8	11.0	10.9	10.7	10.3
Winnebago	13.2	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	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	9.8	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	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	12.2	12.4	12.5	11.5	13.1	12.5	12.5	12.9	12.0	11.2	12.4	13.0	12.7
State of Iowa	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

three or more points higher at the end of the period than at the beginning. Among the 37 counties where the death rates were lower in 1992 than 1982, only Grundy dropped by at least three points.

Note: Comparisons of any one year with another must be done with caution, because unusual circumstances could have affected the rates in any single year. Because the population figures used to generate the rates for 1981-1989 and for 1991-1992 are estimates, the birth and death rates reported must be treated as estimates as well. Additional information on births and deaths is reported annually in VITAL STATISTICS FOR IOWA (Iowa Department of Public Health, Lucas State Office Building, Des Moines, IA 50319). Data on birth and death rates for the states and the nation also are available annually; the most recent publication is "Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1992," MONTHLY VITAL STATISTICS REPORT, which is published by the National Center for Health Statistics (U.S. Department of Health and Human Services, 3700 East-West Highway, Hyattsville, MD 20782).

Figure 1. Iowa and U.S. birth and death rates, 1980-1992.



Births, Out-of-Wedlock Births, and Births to Teens in Iowa's Counties: 1980-1991

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

Births to Iowa residents are attributed to the county of residence of the mother. This information is collected annually by the Iowa Department of Public Health. In 1991, there were 38,925 births to Iowans (Table 1), a decrease of 15.2% from the 45,918 births in 1981 (Table 2).

Births in Iowa's counties in 1991 varied from as few as 53 in Ringgold to a high of 5,494 in Polk. Polk had the highest number of births each year in the period, while either Adams or Ringgold had the lowest.

The state had annual declines in births from 1980 to 1987; these numbers increased from 1987 to 1990, although they declined by 405 between 1990 and 1991. All counties had at least one year of increase during the time period. When 1981 and 1991 were compared, however, all counties except Adams, Johnson, Linn, Madison, Polk, and Warren showed a decline (Table 5); Polk's increase of 401 was the only one above 70. Black Hawk, with 600 fewer births in 1991 than in 1981, had the largest decrease, although 21 other counties declined by at least 100.

Out-of-Wedlock Births

Even though births declined in Iowa between 1981 and 1991, the number of births out of wedlock increased. The 8,644 out-of-wedlock births in 1991 (Table 1) was an increase of 75.1% from the 4,938 in 1981 (Table 2). 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 405 total births from 1990 to 1991 stands in contrast to the gain of 375 out-of-wedlock births during that same period.

In each year from 1980 through 1991, Polk county had the highest number of out-of-wedlock births; Scott was second highest. The nine out-of-wedlock births in Lyon and Ringgold were the lowest in 1991.

Out-of-wedlock births occurred disproportionately in large, urban counties. In 1981, the six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) with the highest number of out-of-wedlock births together accounted for 52.3% of such births but only for 35.0% of the total births. In 1991, the same six counties recorded 50.5% of the out-of-wedlock births and 39.0% of all births.

Between 1981 and 1991, the number of out-of-wedlock births increased each year for Iowa, although every county had at least one year when these numbers declined. Ninety-six counties had more out-of-wedlock births in 1991 than in 1981 (Table 5). The increases ranged from 1 to 652. For 67 of the 96 counties that gained, the increase was less than 25. Black Hawk, Linn, Polk, Pottawattamie, Scott, and Woodbury increased by more than 100. Two counties (Adair, Lyon) had the same number of out-of-wedlock births in 1981 and 1991. Allamakee was the only county with fewer out-of-wedlock births in 1991 than in 1981.

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

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1986-1991.

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

Table 1. Births and Out-of-Wedlock Births in Iowa Counties, 1986-1991 (continued).

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

Table 2. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1985.

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

Table 2. Births and Out-of-Wedlock Births in Iowa Counties, 1980-1985 (continued).

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

Table 3. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1986-1990.

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

Table 3. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1986-1990 (continued).

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

Table 4. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1985.

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

Table 4. Teen Births and Teen Out-of-Wedlock Births in Iowa Counties, 1980-1985 (continued).

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

Table 5. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa Counties, 1981 and 1991.

County	1991 Births Minus 1981 Births		% of Births Out of Wedlock		1991 Teen Births Minus 1981 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	1991	1981	Total	Out of Wedlock	1991	1981	1991	1981	1991	1981
Adair	-38	0	13.8	9.6	-10	-2	50.0	28.6	4.6	11.2	16.7	33.3
Adams	0	8	20.3	7.8	0	2	100.0	33.3	4.7	4.7	23.1	20.0
Allamakee	-75	-6	9.2	8.8	-22	-7	66.7	41.9	5.2	12.4	37.5	59.1
Appanoose	-59	13	25.9	13.5	-12	2	60.7	37.5	16.5	17.5	38.6	48.4
Audubon	-36	3	14.5	7.1	-10	-3	80.0	46.7	6.6	13.4	36.4	87.5
Benton	-13	44	20.2	6.9	-1	7	69.2	40.7	7.7	7.7	26.5	45.8
Black Hawk	-600	190	32.4	15.9	-29	51	85.2	58.7	14.8	12.3	39.0	45.3
Boone	-72	19	16.3	8.3	-10	9	68.8	31.0	10.3	10.9	43.1	40.6
Bremer	-161	9	14.3	6.3	-22	2	78.9	31.7	8.0	10.3	44.1	52.0
Buchanan	-146	21	14.9	5.4	-38	-3	71.4	30.5	7.0	13.2	33.3	75.0
Buena Vista	-79	42	20.4	3.5	1	14	66.7	15.4	10.2	7.6	33.3	33.3
Butler	-74	10	12.3	4.2	-9	1	53.8	27.3	8.0	9.3	35.0	60.0
Calhoun	-59	2	16.2	9.4	-12	0	80.0	23.5	4.5	10.0	22.2	25.0
Carroll	-138	16	16.9	7.5	-14	0	76.9	50.0	9.4	9.6	42.6	64.5
Cass	-81	10	14.1	6.6	1	3	50.0	38.1	10.7	7.3	37.9	42.1
Cedar	-68	3	12.9	8.8	-19	-2	81.8	36.7	5.1	10.5	32.1	44.0
Cerro Gordo	-99	92	26.1	9.7	-3	25	74.6	37.8	11.4	10.3	32.7	40.0
Cherokee	-92	16	21.6	6.9	-9	4	73.3	29.2	9.8	9.8	33.3	41.2
Chickasaw	-94	8	14.5	6.2	-13	-3	50.0	36.0	7.2	9.6	25.0	56.3
Clarke	-17	21	23.8	3.3	-8	7	80.0	5.6	9.5	14.8	32.0	25.0
Clay	-56	10	16.3	10.2	-22	-6	71.4	44.4	5.4	11.5	23.8	50.0
Clayton	-110	15	13.0	4.9	-26	3	66.7	20.5	7.1	12.1	36.4	50.0
Clinton	-197	78	26.4	11.7	-32	12	74.7	42.3	11.5	12.6	32.6	45.6
Crawford	-95	19	17.6	5.7	-12	3	57.1	27.3	10.2	11.0	33.3	52.9
Dallas	-6	33	17.1	9.3	-15	10	72.2	31.4	8.5	11.8	35.6	40.0
Davis	-22	5	11.0	6.0	-13	1	83.3	21.1	4.7	12.8	35.7	44.4
Decatur	-31	15	22.3	4.8	1	5	58.3	18.2	12.8	8.8	33.3	33.3
Delaware	-60	20	14.8	6.0	-13	2	75.0	39.4	7.4	10.0	37.5	65.0
Des Moines	-162	83	30.2	12.4	-31	17	75.9	41.5	15.0	15.9	37.7	53.3
Dickinson	-36	7	12.3	6.5	-9	-2	50.0	38.1	7.4	10.6	30.0	61.5
Dubuque	-311	98	19.3	9.1	-58	10	80.0	44.3	8.1	10.2	33.6	50.0
Emmet	-59	6	14.8	7.9	-10	-4	36.8	37.9	12.3	13.6	30.4	64.7
Fayette	-85	25	18.0	7.4	-16	7	67.9	27.3	9.5	11.6	35.8	42.9
Floyd	-55	15	20.4	10.9	-7	3	72.0	46.9	11.3	11.6	40.0	50.0
Franklin	-61	14	20.0	6.3	-1	5	73.3	37.5	11.5	8.4	42.3	50.0
Fremont	-25	16	24.3	7.6	0	10	75.0	12.5	15.0	12.1	46.2	20.0
Greene	-72	13	21.0	6.6	-8	1	52.9	32.0	13.7	12.8	34.6	61.5
Grundy	-46	1	11.0	7.7	-4	2	77.8	38.5	6.6	7.1	46.7	35.7
Guthrie	-22	17	21.7	8.1	0	4	71.4	42.9	10.1	8.8	33.3	46.2
Hamilton	-39	22	19.1	7.7	-10	5	71.4	39.5	12.7	14.7	47.6	75.0
Hancock	-60	12	16.6	6.5	0	5	66.7	33.3	9.6	6.9	38.5	35.7
Hardin	-109	7	12.4	6.0	-10	3	57.1	29.0	10.0	9.7	46.2	47.4
Harrison	-20	21	16.9	5.9	-5	2	47.6	30.8	10.4	11.8	29.4	61.5
Henry	-41	27	19.8	7.2	0	11	80.0	36.0	10.5	9.0	42.6	45.0
Howard	-44	11	12.3	1.9	-10	6	87.5	5.6	7.0	11.4	50.0	33.3
Humboldt	-87	10	19.2	5.2	-5	1	53.8	33.3	12.5	9.4	35.0	60.0
Ida	-59	5	11.0	3.8	-9	1	80.0	21.4	5.0	8.8	36.4	50.0
Iowa	-22	14	16.3	8.7	-6	2	62.5	36.4	7.7	9.6	29.4	40.0
Jackson	-85	17	18.2	9.4	-23	0	84.2	38.1	6.6	11.3	30.8	45.7
Jasper	-35	45	18.9	8.7	-10	14	67.4	30.4	9.8	11.1	34.8	38.6

Table 5. Comparisons of Births, Out-of-Wedlock Births, and Births to Teens in Iowa Counties, 1981 and 1991 (continued).

County	1991 Births Minus 1981 Births		% of Births Out of Wedlock		1991 Teen Births Minus 1981 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	1991	1981	Total	Out of Wedlock	1991	1981	1991	1981	1991	1981
Jefferson	-24	21	16.1	4.3	-4	6	64.3	16.7	7.5	8.6	30.0	33.3
Johnson	8	76	11.5	5.9	-8	19	82.4	39.0	3.8	4.4	26.9	28.8
Jones	-17	2	10.6	9.2	-11	1	50.0	21.7	4.7	8.5	22.2	20.0
Keokuk	-23	18	14.8	4.0	-1	7	55.0	19.0	11.4	10.6	42.3	50.0
Kossuth	-106	18	14.6	4.5	-17	-2	66.7	34.5	5.3	8.7	24.2	66.7
Lee	-169	43	28.5	14.8	-31	-4	66.1	48.4	12.6	14.0	29.1	45.9
Linn	65	232	21.3	12.8	2	69	81.4	56.2	10.2	10.4	39.0	45.6
Louisa	-53	17	24.3	9.5	-7	5	80.0	40.7	13.5	13.4	44.4	57.9
Lucas	-24	14	20.7	6.7	-7	2	58.3	26.3	10.8	14.1	30.4	55.6
Lyon	-82	0	5.8	3.8	-13	-5	0.0	27.8	3.2	7.6	0.0	55.6
Madison	3	15	15.8	6.5	-1	2	41.7	23.1	7.6	8.4	20.0	30.0
Mahaska	-31	38	22.7	9.1	-4	4	57.1	41.0	11.7	11.8	29.4	53.3
Marion	-75	9	14.0	9.6	-34	-4	53.1	31.8	8.8	15.0	33.3	50.0
Marshall	-196	60	25.1	8.4	-10	19	82.4	37.7	11.1	9.3	36.5	41.8
Mills	-42	11	20.6	11.3	-13	0	66.7	38.7	10.6	14.6	34.3	50.0
Mitchell	-23	7	12.2	6.4	-8	0	53.8	33.3	8.8	12.3	38.9	63.6
Monona	-28	15	21.8	8.7	-1	7	58.3	28.0	18.0	15.5	48.3	50.0
Monroe	-24	13	20.7	7.4	0	6	73.3	33.3	13.5	11.1	47.8	50.0
Montgomery	-49	18	20.3	5.3	0	8	55.0	15.0	14.5	10.7	39.3	30.0
Muscatine	-56	60	22.5	12.6	-47	11	64.7	33.3	12.6	18.0	36.2	47.8
O'Brien	-111	1	9.1	5.2	-27	0	63.6	18.4	6.3	13.2	43.8	46.7
Osceola	-20	8	12.1	3.9	-5	5	100.0	16.7	6.5	9.4	53.8	40.0
Page	-87	19	21.8	7.5	-7	6	59.3	29.4	15.1	12.8	41.0	50.0
Palo Alto	-103	6	17.1	6.1	-10	5	81.3	30.8	14.4	12.1	68.4	61.5
Plymouth	-159	35	20.3	5.5	-17	6	65.5	28.3	9.8	10.1	31.7	52.0
Pocahontas	-45	3	9.6	4.7	-8	-2	50.0	35.7	5.8	9.4	30.0	71.4
Polk	401	652	27.0	16.3	-50	149	82.6	53.6	11.1	12.9	33.9	42.6
Pottawattamie	-170	131	30.2	17.8	-82	5	76.1	50.8	14.2	18.1	35.7	51.7
Poweshiek	-24	27	19.0	6.9	-1	11	70.8	24.0	10.1	9.6	37.8	33.3
Ringgold	-27	6	17.0	3.8	-6	1	50.0	10.0	7.5	12.5	22.2	33.3
Sac	-110	4	16.0	6.8	-14	0	90.0	37.5	8.0	10.2	45.0	56.3
Scott	-415	334	34.0	17.1	-2	86	84.8	60.8	15.1	12.9	37.7	45.9
Shelby	-33	7	10.9	5.3	-17	-3	50.0	26.1	3.8	12.2	17.6	60.0
Sioux	-145	28	8.2	1.4	-15	14	66.7	9.5	6.2	7.2	50.0	50.0
Story	-154	51	11.2	4.7	-21	7	59.5	28.6	4.7	6.0	24.8	36.0
Tama	-46	31	26.3	9.7	-2	12	89.3	43.3	13.1	11.6	44.6	52.0
Taylor	-56	5	15.9	4.2	-9	0	44.4	22.2	14.3	15.1	40.0	80.0
Union	-83	6	22.4	11.5	-11	3	57.1	28.1	14.7	14.2	37.5	34.6
Van Buren	-38	14	20.4	4.4	-5	2	44.4	14.3	9.2	10.3	20.0	33.3
Wapello	-66	52	24.1	11.7	-25	0	45.8	32.1	12.3	15.4	23.3	42.2
Warren	36	33	13.6	8.2	-20	9	64.0	32.9	9.1	13.6	42.7	54.8
Washington	-16	5	9.7	7.5	-11	4	60.0	25.8	7.2	10.6	44.4	36.4
Wayne	-31	1	14.9	9.5	-6	-2	36.4	35.3	14.9	16.2	36.4	60.0
Webster	-112	63	29.3	15.1	-25	5	78.8	51.6	11.7	13.5	31.5	46.1
Winnebago	-24	9	15.9	8.0	-10	-4	42.9	41.2	5.1	10.5	13.6	53.8
Winneshiek	-48	16	13.1	5.7	-13	3	61.5	19.2	5.2	8.7	24.2	29.4
Woodbury	-186	242	34.0	17.1	-11	55	79.5	53.5	14.4	13.5	33.7	42.3
Worth	-30	9	16.2	5.4	-4	6	87.5	8.3	8.1	9.3	43.8	14.3
Wright	-32	19	21.3	9.5	-6	2	63.2	40.0	10.1	11.4	30.0	47.6
State of Iowa	-6993	3706	22.2	10.8	-1258	776	74.4	42.3	10.5	11.6	35.1	45.8

10.8% in 1981 to 22.2% in 1991 (Table 5, Figure 1). In 1991, the percentage of out-of-wedlock births in the counties ranged from 5.8% in Lyon to 34.0% in Scott and Woodbury. Six counties (Allamakee, Lyon, O'Brien, Pocahontas, Sioux, Washington) were under 10%, and 29 counties ranged from 10.0% through 14.9%. Thirteen counties had more than one of every four (25%) of their 1991 births occurring out of wedlock (Figure 2).

For Iowa, the percentage of births out of wedlock increased each year from 1981 to 1991. The counties were more variable; all had at least one year in which the percentage of out-of-wedlock births declined. Every county had a higher percentage of out-of-wedlock births in 1991 than in 1981, however; 52 had percentages 10 or more points higher in 1991 than in 1981.

Births to Teens

Births to Iowa teens, which includes mothers 19 and younger, numbered 4,081 in 1991 (Table 3). The 1991 figure was 68 higher than in 1990; increases occurred from 1987 through 1989 following continuous decreases from 1980 to 1987. Still, teen births in 1991 were 23.6% lower than the 5,339 teen births recorded in 1981 (Table 4). For the counties, births to teens in 1991 ranged from 3 in Adams to 608 in Polk. Fifty-one counties had fewer than 20 births to teens. In each of the 11 years, Polk had the highest number of teen births, with Scott the second highest. From 1981 through 1991, the county with the lowest number of births to teens recorded six or fewer. In 1980, the lowest number was 11 (Osceola, Ringgold).

All but 11 counties had fewer teen births in 1991 than in 1981 (Table 5); of these 11, seven had the same numbers both years, while Buena Vista, Cass, and Decatur increased by one and Linn by two births to teens. Counties with a decrease in teen births of at least 50 were Dubuque, Polk, and Pottawattamie. Pottawattamie's decline of 82 was the largest. Sixty-nine counties showed decreases of 20 or fewer.

Out-of-Wedlock Births to Teens

Teen births out of wedlock numbered 3,036 in the state in 1991, which was the highest figure of the years reported. Teen out-of-wedlock births declined each year from 1980 to 1984 and then increased annually from 1984 to 1990 (Tables 3, 4).

As with out-of-wedlock births overall, teen out-of-wedlock births occurred disproportionately in the larger, urban counties. Six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury) had the highest numbers of teen out-of-wedlock births in both 1981 and 1991. In 1981, these six recorded 39.1% of all teen births, but 51.3% of the out-of-wedlock teen births. Similarly, in 1991 they had 46.9% of the teen births and 51.8% of the out-of-wedlock teen births.

Between 1981 and 1991 all the counties experienced years when the number of teen out-of-wedlock births increased and other years when the number decreased. Differences between 1981 and 1991 ranged from a decline of 7 to a gain of 149 (Table 5). Seventeen counties had fewer teen out-of-wedlock births in 1991 than in 1981, nine counties were the same in both years, and 73 counties showed an increase. For 79 of the counties, the change was less than 10 teen out-of-wedlock births.

The combination of fewer births to teens along with an increase in the number of teen out-of-wedlock births resulted in an increase from 1981 to 1991 in the proportion of teen births in Iowa that were out of wedlock (Table 5, Figure 1). In 1981, 2,260 of 5,339 teen births (42.3%) were out of wedlock. By 1991, 3,036 of 4,081 teen births—nearly three of every four (74.4%)—were out of wedlock.

For the counties in 1991, the percentage of teen births that were out of wedlock ranged from less than 50% in nine counties to 75% or more in 32 others (Figure 3). In 1981, the highest percentage for any county was 60.8% (Scott) and in only seven others were at least half of the births to teens out of wedlock. In 1991, 90 counties had half or more of their teen births out of wedlock. Only two counties (Emmet, Lyon) had lower percentages of teen births out of wedlock in 1991 than in 1981.

Births to Teens Compared with Total Births

For every year between 1980 and 1987 in Iowa, both total births and births to teens declined, although both increased from 1987 to 1988 and 1988 to 1989; most recently, total births declined but births to teens gained between 1990 and 1991. Because teen births for the period declined somewhat more than total births, the proportion of the total births that were to teens (11.6% in 1981) declined slightly to 10.5% in 1991 (Table 5).

In 1991, the percentages of the total births that were to teens ranged from 3.2% (Lyon) to 18% (Monona). Although there were year-to-year variations for all the counties, teen births, as a percentage of all births, were lower in 1991 than in 1981 for 70 counties. Twenty-six counties had a higher percentage of births to teens in 1991 than in 1981, while Adams, Benton, and Cherokee had the same percentages in both years.

Teens tended to have a much higher percentage of their births out of wedlock than the population overall. In most counties for both 1981 and 1991, 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 5).

For the state, the number of teen out-of-wedlock births remained relatively stable between 1980 and 1987 although they increased from 1987 to 1991. From 1981 to 1991, teen out-of-wedlock births increased 34.3%. In comparison, the total number of out-of-wedlock births increased much faster (75.1%) in the same years. Consequently, teen out-of-wedlock births, which were 45.8% of all out-of-wedlock births in 1981, were down to 35.1% of all out-of-wedlock births in 1991 (Table 5).

For the counties in 1991, teen out-of-wedlock births, as a proportion of all out-of-wedlock births, ranged from less than 25% in 15 counties to 50% or more in four others. Eighty-one counties had a lower proportion of all out-of-wedlock births to teens in 1991 than in 1981 while 15 counties increased.

Figure 1. Percent of births out of wedlock in Iowa, 1980-1991.

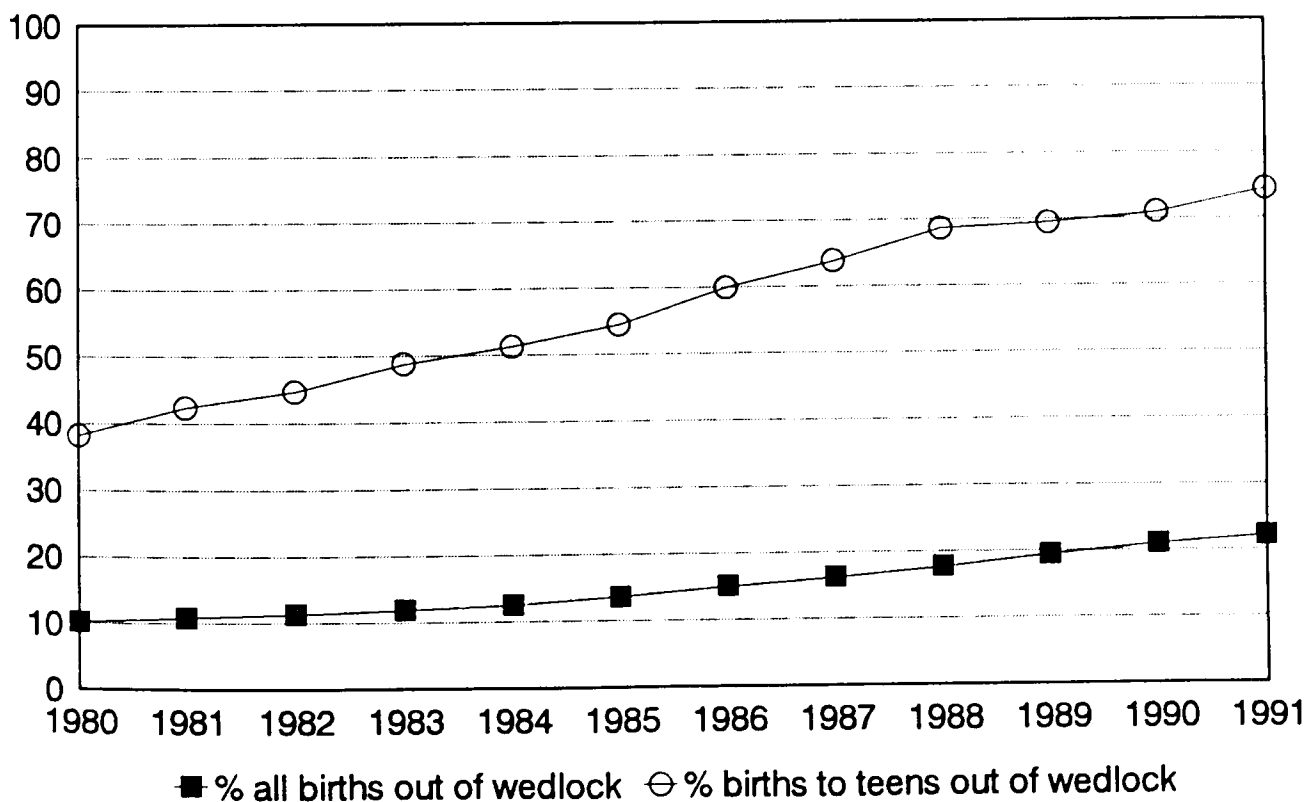


Figure 2. Percent of births out of wedlock, 1991.

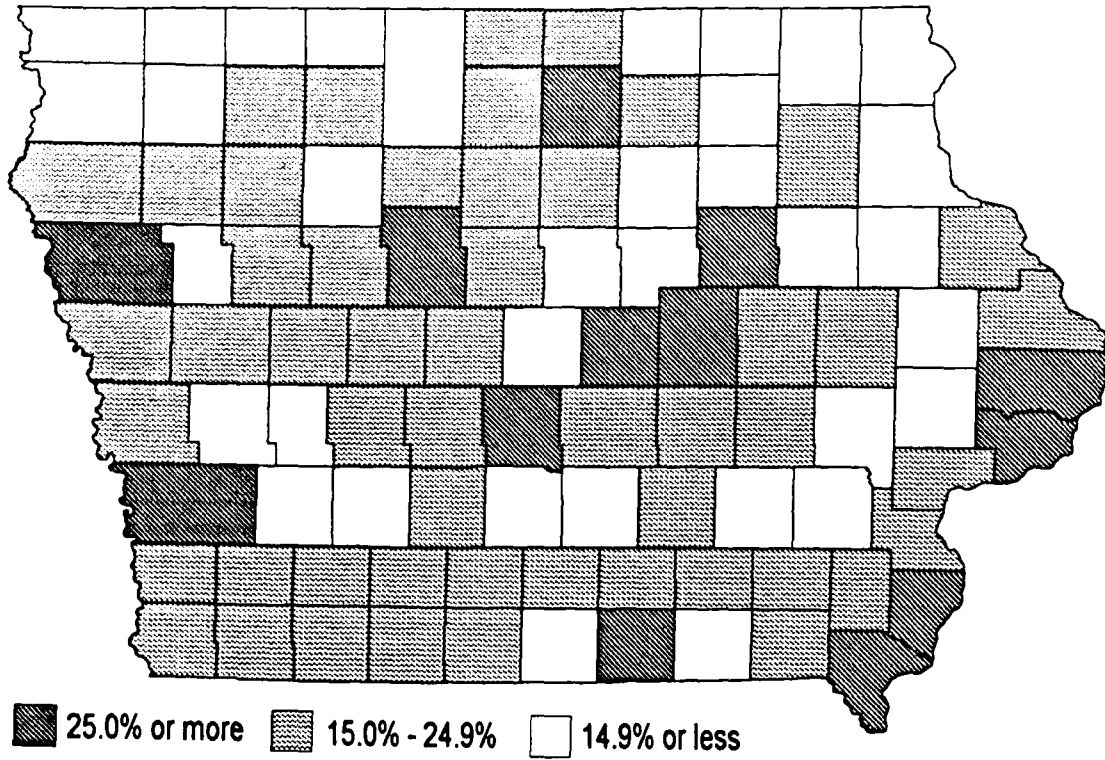
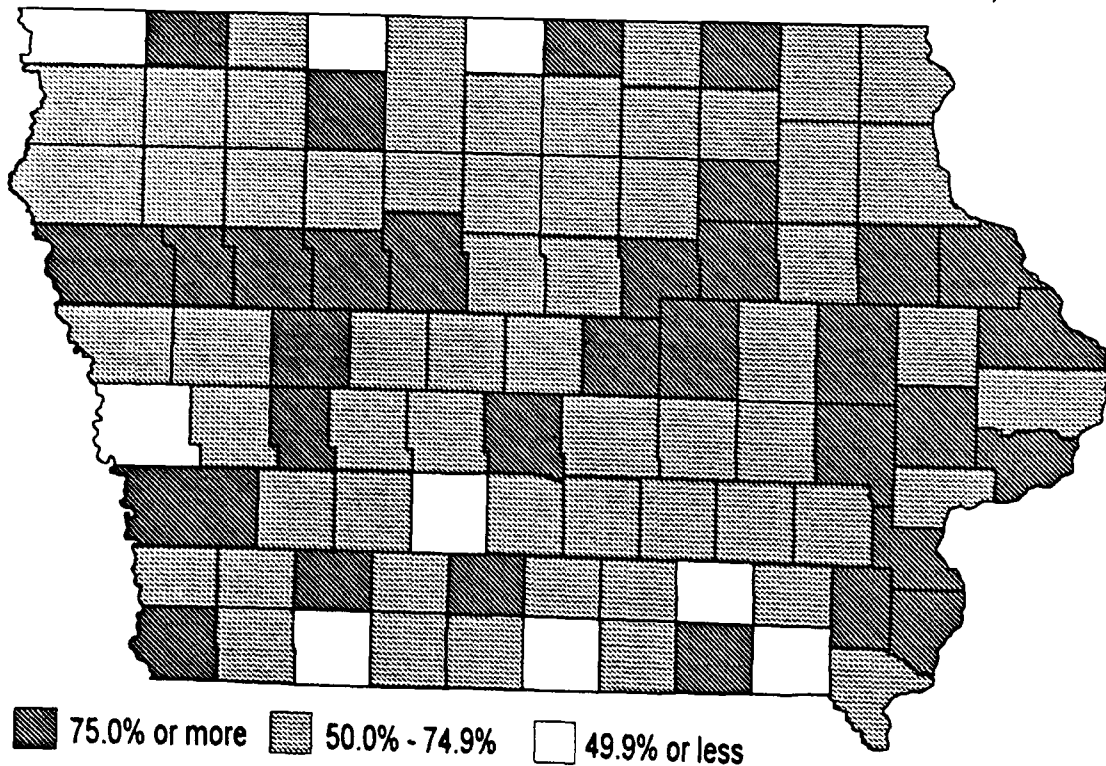


Figure 3. Percent of births to teenage women out of wedlock, 1991.



Deaths Caused by Accident, Suicide, or Homicide in Iowa's Counties: 1980-1992

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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 1992, the 19,589 deaths due to these four causes accounted for 5.5% of all deaths (353,101) 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 1992, 467 Iowans died in motor vehicle accidents (Table 1). From 1980 through 1991, only one year (1986) had lower totals; deaths from motor vehicle accidents were substantially higher in 1980 and 1981, exceeding 650 both years (Figure 1).

Polk county had more residents (39) die in motor vehicle accidents in 1992 than did any other county. The next highest county was Black Hawk with 24. Eight counties had from 10 to 20 such deaths. Twenty-three counties had from five to nine motor vehicle deaths while a majority (59) had one to four. Seven counties (Clay, Fremont, Grundy, Hancock, Montgomery, Van Buren, Worth) had no residents die in motor vehicle accidents in 1992.

A total of 6,900 Iowa residents died in motor vehicle accidents from 1980 through 1992. Of these, 606 were residents of Polk county. Twelve other counties had at least 100 residents die in this manner between 1980 and 1992. Of the 86 counties with fewer than 100 motor vehicle deaths, 36 counties had from 50 to 99, 41 recorded 25 to 49 such deaths, and nine counties had 24 or fewer. Adams county had 13 residents die in motor vehicle accidents during the 13 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 551 Iowans were due to these kinds of incidents in 1992 (Table 2). In 1980, 652 accidental deaths not involving motor vehicles occurred to Iowa residents, the highest during the period reviewed (Figure 1).

In 1992, Polk county had the highest number (71) of deaths from accidents other than those involving motor vehicles, followed by Linn (24) and Scott (21). Five or fewer such deaths occurred in 68 counties in 1992; among these, no deaths from these kinds of accidents were reported for residents of nine counties in 1992.

During the 1980-1992 period, accidents other than those involving motor vehicles claimed the lives of 7,566 Iowans. Polk's total was 914, nearly triple that of second place Linn (318). Seventeen other counties recorded more than 100 such accidental deaths during the 13 years. For 31 counties, between 50 and 99 residents died in these accidents, while 49 counties had fewer than 50 such deaths. Ringgold (19) had the fewest of these accidental deaths during the period.

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Adair	2	2	3	1	1	0	2	0	2	1	0	2	3	19
Adams	1	2	0	1	4	1	0	1	0	1	1	1	0	13
Allamakee	7	3	4	6	1	9	3	1	6	7	7	5	9	68
Appanoose	2	0	5	4	6	4	4	1	5	0	0	5	3	39
Audubon	1	4	2	1	0	0	0	1	2	4	0	2	4	21
Benton	1	8	3	7	8	5	3	3	4	9	5	3	7	66
Black Hawk	24	16	19	16	17	13	13	18	13	16	19	24	29	237
Boone	6	1	3	3	2	6	1	5	2	2	6	7	3	47
Bremer	1	6	5	5	9	2	3	4	2	4	3	5	8	57
Buchanan	3	2	3	4	8	1	1	2	4	6	7	5	5	51
Buena Vista	6	4	3	4	8	2	3	2	5	3	6	5	6	57
Butler	4	3	2	3	6	6	5	1	3	2	2	2	5	44
Calhoun	3	3	2	10	4	3	2	5	3	3	2	2	7	49
Carroll	4	7	2	1	6	5	3	3	3	3	5	3	8	53
Cass	4	2	2	0	4	1	7	4	1	6	4	4	10	49
Cedar	2	7	2	3	9	4	2	7	4	0	5	8	5	58
Cerro Gordo	8	6	3	6	3	8	5	8	3	5	8	10	16	89
Cherokee	1	5	1	5	5	3	0	4	4	1	4	7	4	44
Chickasaw	3	6	1	1	5	2	3	1	5	1	2	2	6	38
Clarke	2	3	2	2	1	2	4	3	0	0	3	4	1	27
Clay	0	6	4	1	1	2	4	4	1	3	6	2	8	42
Clayton	4	6	2	13	3	1	8	3	5	5	6	10	11	77
Clinton	4	11	9	8	20	10	10	8	6	11	14	16	11	138
Crawford	2	5	2	2	4	7	4	10	2	9	2	6	6	61
Dallas	10	9	10	5	11	6	5	7	5	6	8	7	5	94
Davis	2	2	3	3	0	2	3	3	5	1	1	0	0	25
Decatur	1	3	1	1	1	0	1	2	3	2	8	4	2	29
Delaware	2	4	2	1	1	4	2	4	3	2	4	4	4	37
Des Moines	3	10	7	5	12	8	8	4	11	9	5	8	9	99
Dickinson	6	4	1	2	2	3	0	2	1	0	1	1	5	28
Dubuque	18	9	11	18	15	14	14	14	15	18	12	21	18	197
Emmet	2	5	0	3	3	4	1	8	3	2	0	5	4	40
Fayette	5	7	13	3	12	8	3	6	3	4	4	5	2	75
Floyd	3	3	2	5	4	4	1	3	2	5	8	6	7	53
Franklin	4	1	0	4	4	2	1	1	3	3	2	3	3	31
Fremont	0	1	2	2	2	5	4	4	3	2	2	4	3	34
Greene	2	0	4	2	9	1	0	0	1	2	1	5	8	35
Grundy	0	3	1	0	1	2	1	2	1	2	4	2	3	22
Guthrie	2	1	1	1	5	1	1	3	2	2	3	1	2	25
Hamilton	4	1	4	4	7	7	2	0	3	6	3	8	4	53
Hancock	0	2	5	2	2	2	4	1	3	3	1	1	2	28
Hardin	2	3	2	3	8	5	3	3	8	2	2	7	7	55
Harrison	12	7	6	6	5	2	4	2	5	4	6	1	8	68
Henry	2	11	2	7	1	2	7	0	3	1	5	6	4	51
Howard	4	1	2	4	2	3	3	1	5	1	1	5	2	34
Humboldt	3	1	1	4	1	3	3	2	2	4	0	5	2	31
Ide	5	0	2	1	2	7	1	5	2	3	0	1	0	29
Iowa	6	2	2	1	3	3	2	8	1	0	5	5	5	43
Jackson	4	8	7	3	8	11	8	7	4	7	10	8	7	92
Jasper	4	1	8	10	6	8	7	3	10	9	5	6	5	82

Table 1. Deaths to Residents Caused by Motor Vehicle Accidents in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Jefferson	2	6	5	2	3	5	2	2	4	5	1	4	5	46
Johnson	8	11	10	14	6	5	8	22	8	7	14	9	11	133
Jones	7	2	5	4	6	4	2	4	1	7	3	6	6	57
Keokuk	2	2	5	0	5	6	3	3	8	9	6	8	3	60
Kossuth	2	1	1	9	3	4	2	10	3	1	7	7	5	55
Lee	7	16	16	9	9	8	5	8	6	10	9	13	14	130
Linn	12	22	21	26	19	19	16	20	19	15	20	32	29	270
Louisa	3	1	4	5	3	0	3	0	2	3	3	2	2	31
Lucas	5	2	6	2	0	3	2	3	3	3	2	4	1	36
Lyon	2	2	2	2	0	2	5	3	4	1	2	5	4	34
Madison	2	4	2	3	1	2	1	4	3	3	1	3	1	30
Mahaska	6	6	5	3	6	7	3	4	4	5	3	0	6	58
Marion	9	4	7	8	6	2	4	5	2	5	1	8	4	65
Marshall	12	17	6	11	2	9	10	9	6	9	13	10	11	125
Mills	2	3	7	2	2	3	5	3	2	1	3	3	4	40
Mitchell	6	0	1	2	3	3	1	1	1	4	1	2	3	28
Monona	3	2	3	5	4	4	5	0	3	3	3	6	7	48
Monroe	3	1	3	5	1	1	1	3	3	6	1	3	6	37
Montgomery	0	3	4	2	3	2	3	2	1	2	2	6	2	32
Muscatine	5	9	11	19	14	8	4	18	10	15	8	12	9	142
O'Brien	5	3	1	4	3	3	0	1	7	3	3	8	3	44
Osceola	1	0	1	0	3	0	6	2	2	4	1	2	0	22
Page	5	3	7	2	5	1	2	2	8	4	3	5	6	53
Palo Alto	3	5	4	3	3	0	2	7	1	1	1	2	2	34
Plymouth	2	2	4	3	6	8	4	9	1	5	7	8	10	69
Pocahontas	3	3	4	6	5	3	7	1	2	3	3	5	4	49
Polk	39	45	35	48	60	41	43	45	44	43	28	58	77	606
Pottawattamie	20	8	14	14	15	25	17	14	11	21	21	22	5	207
Poweshiek	2	3	2	5	4	6	5	3	8	2	6	5	6	57
Ringgold	1	1	1	0	2	3	0	2	2	3	1	1	3	20
Sac	4	1	2	4	4	7	1	7	1	3	4	3	5	46
Scott	18	10	18	21	19	22	21	15	18	33	18	29	28	270
Shelby	6	2	3	4	4	2	0	2	2	5	5	2	7	44
Sioux	1	6	8	7	4	6	9	5	4	4	4	4	6	68
Story	7	13	9	4	5	9	6	6	9	5	6	9	9	97
Tama	6	6	6	3	2	5	5	5	4	8	3	7	4	64
Taylor	1	0	2	2	1	5	4	2	0	5	3	2	3	30
Union	5	5	1	2	4	1	5	3	3	0	5	3	5	42
Van Buren	0	4	2	2	2	0	0	1	2	1	3	3	1	21
Wapello	8	10	9	11	7	2	9	8	5	5	7	11	5	97
Warren	3	1	4	8	11	3	7	7	5	6	6	6	11	78
Washington	3	3	3	4	3	4	5	10	4	4	3	10	8	64
Wayne	1	2	0	0	1	3	0	3	1	3	2	3	3	22
Webster	4	11	8	11	10	8	11	12	14	11	9	11	17	137
Winnebago	3	2	5	4	3	3	1	1	5	7	3	3	4	44
Winneshiek	1	3	8	5	3	2	3	2	5	7	4	4	3	50
Woodbury	15	12	16	17	16	14	13	19	13	20	22	15	12	204
Worth	0	1	1	3	3	1	1	2	2	1	3	0	0	18
Wright	1	6	6	4	4	3	4	7	5	3	4	2	3	52
State of Iowa	467	502	491	541	570	501	455	521	473	536	509	655	679	6900

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Adair	3	6	2	3	1	4	2	1	4	0	4	2	4	36
Adams	3	2	0	3	3	1	1	2	2	1	1	2	3	24
Allamakee	3	3	4	7	5	5	8	2	4	4	5	3	3	56
Appanoose	2	2	3	3	4	4	9	6	4	2	6	1	3	49
Audubon	4	2	0	2	2	0	2	2	2	4	3	1	2	26
Benton	3	4	5	6	4	4	1	5	4	7	2	4	6	55
Black Hawk	16	23	24	14	15	22	24	14	16	33	21	25	27	274
Boone	5	8	3	8	11	11	8	8	3	9	3	9	5	91
Bremer	4	5	4	3	5	1	5	2	4	4	4	8	2	51
Buchanan	10	3	4	1	5	7	3	5	4	3	6	8	4	63
Buena Vista	4	0	2	7	6	3	0	4	2	8	3	4	6	49
Butler	0	1	2	2	3	4	7	2	1	2	2	4	5	35
Calhoun	2	6	2	1	4	4	4	2	3	4	0	1	2	35
Carroll	6	3	2	7	6	8	2	5	8	3	11	3	5	69
Cass	6	6	6	8	7	5	1	8	3	1	4	3	5	63
Cedar	2	0	5	1	2	0	1	6	5	2	2	4	0	30
Cerro Gordo	5	12	2	8	4	8	11	10	9	7	8	13	9	106
Cherokee	2	4	5	9	7	2	1	3	2	4	3	1	2	45
Chickasaw	2	4	1	1	1	1	4	1	3	0	2	3	3	26
Clarke	3	3	4	2	1	2	0	3	2	3	1	3	7	34
Clay	4	1	2	0	2	4	1	0	4	3	6	4	5	36
Clayton	4	7	3	5	8	4	2	6	9	6	8	6	7	75
Clinton	13	6	6	14	11	13	9	13	6	8	20	5	14	138
Crawford	3	2	4	5	1	3	5	5	5	3	5	5	4	50
Dallas	10	4	3	6	11	10	4	8	8	7	6	4	4	85
Davis	0	3	2	2	1	2	0	2	2	4	5	1	1	25
Decatur	8	6	5	4	4	2	3	3	1	2	2	1	5	46
Delaware	8	5	3	6	6	2	5	6	9	2	7	1	4	64
Des Moines	9	12	11	13	11	4	11	14	2	5	7	9	7	115
Dickinson	0	0	6	3	0	3	3	4	3	3	8	4	3	40
Dubuque	6	17	20	13	10	7	22	20	16	13	13	15	19	191
Emmet	2	2	1	3	6	1	1	4	5	3	0	4	2	34
Fayette	5	4	5	7	3	8	3	6	8	3	6	10	8	76
Floyd	6	4	1	1	5	5	2	2	5	4	6	3	10	54
Franklin	4	4	3	3	3	1	6	5	1	3	1	5	2	41
Fremont	0	4	3	2	3	2	1	0	2	7	3	8	3	38
Greene	3	6	1	0	1	3	3	5	1	7	2	0	4	36
Grundy	1	4	2	2	1	2	2	2	0	1	4	4	6	31
Guthrie	0	3	2	4	1	5	3	4	3	1	6	3	8	43
Hamilton	5	1	3	1	2	1	5	2	3	6	1	1	5	36
Hancock	2	1	3	2	3	3	5	0	3	3	5	3	1	34
Hardin	2	6	5	1	1	3	4	3	2	4	5	4	9	49
Harrison	4	5	4	3	6	4	2	8	3	9	3	4	3	58
Henry	7	0	1	3	7	2	3	7	1	8	2	3	3	47
Howard	1	3	3	3	5	2	1	2	0	3	3	1	0	27
Humboldt	7	2	3	0	2	2	1	0	4	1	5	5	1	33
Ia	1	1	2	3	7	3	2	0	4	3	3	4	2	35
Iowa	2	3	2	3	2	3	2	2	3	1	1	3	3	30
Jackson	6	2	5	2	2	3	2	2	5	4	9	11	4	57
Jasper	5	13	4	8	5	6	12	7	8	9	8	12	11	108

Table 2. Deaths to Residents Caused by Accidents Other Than Those Involving Motor Vehicles in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Jefferson	4	2	2	4	1	7	3	4	2	4	2	4	0	39
Johnson	13	11	16	8	11	11	13	6	6	13	11	12	6	137
Jones	4	1	5	6	4	3	5	5	3	7	1	3	6	53
Keokuk	4	2	4	0	6	5	4	6	6	3	4	4	2	50
Kossuth	2	5	6	8	7	3	11	3	4	4	4	3	4	64
Lee	7	5	6	7	17	10	4	8	6	15	11	8	12	116
Linn	24	28	19	25	29	17	26	23	23	22	21	29	32	318
Louisa	1	1	4	1	0	5	2	5	1	1	5	2	0	28
Lucas	1	5	1	7	4	0	1	3	0	2	5	1	1	31
Lyon	0	2	5	2	3	5	3	1	7	1	3	5	3	40
Madison	5	4	3	3	8	2	5	5	3	3	3	4	6	54
Mahaska	7	12	7	4	5	7	4	4	3	5	4	4	4	70
Marion	11	9	11	6	5	6	14	7	8	8	8	11	6	110
Marshall	13	10	10	7	10	8	6	9	12	9	5	9	11	119
Mills	0	3	7	3	1	2	2	2	2	1	1	4	2	30
Mitchell	2	1	4	8	1	4	2	3	6	2	4	6	7	50
Monona	6	2	3	5	3	1	5	2	3	4	3	0	3	40
Monroe	4	3	1	4	1	3	1	6	3	1	2	0	7	36
Montgomery	5	7	6	6	1	5	2	3	3	1	3	6	1	49
Muscatine	4	13	5	5	12	8	8	12	6	8	10	9	5	105
O'Brien	7	7	3	0	4	8	9	6	2	3	6	6	2	63
Osceola	1	0	1	3	0	2	1	5	0	3	1	1	3	21
Page	7	4	5	2	5	3	5	7	2	4	6	3	4	57
Palo Alto	0	2	1	4	1	1	1	2	5	0	2	4	5	28
Plymouth	3	2	3	5	0	4	2	2	3	4	6	5	2	41
Pocahontas	1	1	6	1	2	0	2	0	1	0	8	1	4	27
Polk	71	82	68	72	88	60	78	61	74	51	58	71	80	914
Pottawattamie	15	21	13	21	22	14	16	17	11	15	19	16	14	214
Poweshiek	4	6	3	6	7	7	3	5	3	5	6	2	6	63
Ringgold	2	1	1	1	0	3	2	2	5	1	0	0	1	19
Sac	5	3	5	3	2	1	2	4	1	4	4	8	4	46
Scott	21	14	14	27	13	34	27	19	21	24	25	24	22	285
Shelby	2	3	6	2	4	0	3	4	9	6	3	3	6	51
Sioux	5	4	3	7	3	2	6	5	7	5	8	7	10	72
Story	7	17	16	9	7	11	8	13	5	14	14	14	13	148
Tama	2	4	8	6	1	2	12	5	4	1	6	4	4	59
Taylor	1	2	2	3	4	0	1	1	1	1	5	1	2	24
Union	1	3	3	5	6	6	0	3	4	4	5	6	3	49
Van Buren	1	1	3	5	2	2	6	2	2	1	1	1	2	29
Wapello	10	8	9	10	6	9	7	4	8	15	7	14	12	119
Warren	8	4	8	7	9	3	7	7	9	9	8	9	4	92
Washington	5	5	7	4	9	8	3	6	9	4	3	5	7	75
Wayne	2	2	1	0	0	3	2	4	2	3	2	8	4	33
Webster	13	13	10	13	12	8	6	11	7	10	9	14	12	138
Winnebago	5	5	1	1	4	1	3	2	2	4	3	4	3	38
Winneshiek	0	4	6	2	6	7	2	11	2	2	5	5	5	57
Woodbury	14	18	14	29	18	14	21	15	15	27	12	18	29	244
Worth	5	1	3	0	0	0	2	1	2	1	2	2	2	21
Wright	3	7	3	2	4	1	5	6	2	0	6	4	8	51
State of Iowa	551	598	549	587	594	535	582	580	536	572	601	629	652	7566

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Adair	1	3	1	2	1	2	3	0	1	2	0	2	1	19
Adams	1	0	0	1	1	0	0	0	2	1	0	0	0	6
Allamakee	0	1	1	1	2	5	4	3	2	1	2	0	3	25
Appanoose	1	2	3	4	2	2	2	0	4	0	4	1	3	28
Audubon	3	2	1	1	1	0	1	1	1	0	1	2	0	14
Benton	1	3	4	1	4	3	3	5	1	2	2	1	1	31
Black Hawk	14	12	12	13	16	16	14	16	17	15	12	15	13	185
Boone	1	3	3	1	3	3	3	4	3	2	3	0	4	33
Bremer	2	1	3	3	0	3	0	2	3	2	0	1	4	24
Buchanan	4	3	4	1	2	2	1	2	7	1	2	3	3	35
Buena Vista	1	2	0	1	2	1	2	3	5	2	0	1	0	20
Butler	1	1	2	2	2	3	3	2	1	2	0	1	0	20
Calhoun	2	2	1	2	1	3	0	0	2	1	4	1	1	20
Carroll	2	3	3	6	2	2	2	1	2	3	2	2	3	33
Cass	0	2	1	2	1	2	5	1	1	5	1	1	2	24
Cedar	2	4	1	2	1	2	4	2	4	2	1	3	0	28
Cerro Gordo	3	5	5	6	3	9	4	9	2	5	8	4	4	67
Cherokee	4	4	1	0	0	3	2	2	1	1	1	1	1	21
Chickasaw	2	1	1	0	2	3	1	2	1	1	0	0	2	16
Clarke	1	2	1	2	2	2	0	0	1	0	3	0	2	16
Clay	0	0	1	1	0	0	1	1	2	2	0	3	3	14
Clayton	5	5	2	0	2	3	4	4	3	2	0	4	3	37
Clinton	4	2	6	3	5	9	11	6	11	6	6	9	7	85
Crawford	2	2	3	3	0	0	1	2	1	2	2	0	2	20
Dallas	7	10	2	5	3	4	4	4	2	3	7	4	3	58
Davis	4	0	0	0	0	0	1	0	0	1	0	4	2	12
Decatur	2	2	0	0	1	1	1	3	0	0	0	0	0	10
Delaware	0	5	1	1	1	3	2	2	3	5	0	1	0	24
Des Moines	3	8	6	6	5	12	7	2	3	5	7	6	4	74
Dickinson	1	1	2	1	3	1	7	3	1	5	1	1	0	27
Dubuque	12	11	6	9	11	12	5	9	7	12	8	6	10	118
Emmet	1	1	2	1	1	1	0	1	4	0	0	1	8	21
Fayette	1	4	2	3	2	7	2	3	1	3	4	6	3	41
Floyd	2	3	1	2	1	4	0	3	0	1	2	3	0	22
Franklin	0	0	3	0	0	2	1	1	1	0	0	2	1	11
Fremont	1	1	1	3	2	1	1	1	2	0	0	0	0	13
Greene	2	0	1	3	1	4	1	2	1	3	1	0	4	23
Grundy	0	1	1	2	3	0	2	3	2	1	1	0	2	18
Guthrie	3	0	2	2	1	0	3	3	2	2	3	1	3	25
Hamilton	2	5	1	4	4	3	3	3	3	0	1	1	0	30
Hancock	2	2	0	1	3	2	1	1	3	1	0	1	2	19
Hardin	1	0	1	0	1	2	1	2	1	0	6	0	1	16
Harrison	0	3	0	2	2	1	2	1	3	1	3	4	1	23
Henry	4	2	2	4	3	1	0	1	7	3	1	6	1	35
Howard	0	1	1	0	0	0	0	1	1	2	1	0	0	7
Humboldt	1	0	0	1	0	2	0	1	3	0	3	0	3	14
Ida	2	1	1	1	1	0	0	0	3	1	1	0	1	12
Iowa	1	4	1	1	1	2	3	1	1	0	1	0	2	18
Jackson	3	3	3	2	1	3	2	2	4	2	3	4	1	33
Jasper	2	7	4	4	3	3	6	4	3	3	2	1	5	47

Table 3. Deaths to Residents Caused by Suicide in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Jefferson	0	1	6	0	2	2	2	1	2	2	0	0	2	20
Johnson	7	10	9	3	11	12	10	14	7	4	6	11	8	112
Jones	2	1	8	4	2	3	1	4	1	2	1	2	4	35
Keokuk	4	1	2	1	0	2	1	2	0	1	2	3	1	20
Kossuth	0	0	2	2	0	4	1	1	1	3	3	2	2	21
Lee	2	6	3	2	2	6	5	7	4	4	4	4	4	53
Linn	17	25	24	20	30	28	27	16	19	13	20	22	20	281
Louisa	2	1	4	1	3	3	1	3	6	1	0	3	0	28
Lucas	3	1	1	2	3	4	1	0	2	0	2	1	4	24
Lyon	1	1	1	1	0	1	2	0	4	3	0	0	5	19
Madison	1	0	0	2	1	0	2	1	4	1	3	1	1	17
Mahaska	3	0	4	2	2	1	5	2	2	7	1	2	2	33
Marion	2	2	3	5	2	7	6	3	6	6	2	3	5	52
Marshall	6	4	6	1	6	6	12	5	5	6	7	5	3	72
Mills	0	1	2	0	2	1	0	1	0	2	1	3	1	14
Mitchell	2	2	2	4	0	0	0	1	0	4	1	2	2	20
Monona	1	0	2	0	2	0	4	1	1	0	0	0	1	12
Monroe	0	0	3	2	0	1	0	0	1	0	2	0	1	10
Montgomery	2	0	1	4	1	2	3	2	2	3	5	0	3	28
Muscatine	5	4	8	2	4	7	5	4	3	6	7	2	1	58
O'Brien	2	3	4	0	0	0	2	3	1	2	3	0	0	20
Osceola	0	1	1	1	1	1	3	2	0	0	0	2	1	13
Page	3	3	1	2	1	0	3	0	2	1	0	2	1	19
Palo Alto	0	0	0	0	2	0	2	0	0	1	2	3	0	10
Plymouth	2	3	3	2	2	6	2	3	1	3	2	0	0	29
Pocahontas	0	3	2	1	2	1	0	2	2	0	2	3	1	19
Polk	25	46	49	46	51	42	42	50	31	47	46	40	40	555
Pottawattamie	16	10	13	11	11	16	8	12	12	11	10	9	13	152
Poweshiek	1	1	1	3	3	2	0	0	2	4	3	2	2	24
Ringgold	0	2	3	0	0	0	1	1	1	0	0	0	0	8
Sac	1	0	2	2	1	1	3	0	0	0	1	2	1	14
Scott	21	17	13	19	16	31	27	20	22	28	13	25	36	288
Shelby	1	2	4	1	2	1	1	2	2	2	0	2	2	22
Sioux	0	1	1	0	2	1	2	3	3	2	0	0	0	15
Story	3	5	6	6	5	8	5	6	6	3	9	4	3	69
Tama	0	1	0	1	2	2	3	3	3	5	3	3	1	27
Taylor	0	1	3	3	2	3	1	2	2	2	1	0	1	21
Union	2	2	3	1	0	3	0	1	3	1	1	1	2	20
Van Buren	0	1	0	1	2	0	4	3	1	4	0	0	1	17
Wapello	2	2	4	4	3	5	7	5	5	7	7	4	4	59
Warren	5	3	3	6	3	5	3	5	5	1	3	2	5	49
Washington	7	1	2	3	1	3	1	3	1	3	0	2	1	28
Wayne	3	1	1	0	1	1	2	1	1	0	0	0	0	11
Webster	6	6	7	7	5	6	11	3	5	3	10	7	4	80
Winnebago	1	0	1	0	2	2	1	2	1	1	1	2	0	14
Winneshiek	2	5	3	2	2	3	3	3	3	2	0	4	2	34
Woodbury	7	12	9	12	12	14	12	7	17	10	11	11	9	143
Worth	0	1	0	3	0	0	1	0	2	1	2	0	0	10
Wright	3	1	2	3	1	2	2	0	3	0	1	0	2	20
State of Iowa	287	334	336	314	317	398	366	335	346	326	308	303	321	4291

Table 4. Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Adair	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adams	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Allamakee	0	0	0	0	0	1	0	0	0	0	0	0	1	2
Appanoose	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
Benton	0	0	0	1	0	3	1	0	0	0	0	1	1	7
Black Hawk	0	5	6	3	3	0	1	3	2	6	4	10	4	47
Boone	1	0	0	0	0	1	0	0	2	1	0	1	2	8
Bremer	1	0	0	0	1	0	1	0	0	0	0	1	0	4
Buchanan	0	0	0	1	0	0	0	0	0	0	1	1	0	3
Buena Vista	0	0	0	0	0	0	1	0	0	2	0	0	0	3
Butler	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
Carroll	0	0	0	0	1	0	0	0	0	0	0	0	1	2
Cass	0	1	0	0	1	0	0	0	1	0	0	0	0	3
Cedar	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Cerro Gordo	0	1	0	0	2	0	1	0	2	0	3	1	0	10
Cherokee	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
Clarke	1	0	0	0	0	0	0	0	0	0	0	1	0	2
Clay	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Clayton	0	0	0	0	1	0	2	0	0	0	0	0	0	3
Clinton	2	0	1	1	2	0	4	3	0	0	1	9	1	24
Crawford	0	0	0	0	0	1	2	0	0	0	0	0	0	3
Dallas	0	3	0	2	1	1	0	0	1	0	1	1	0	10
Davis	0	0	0	0	0	1	1	0	1	0	0	0	0	3
Decatur	0	0	1	0	0	0	0	0	0	0	0	0	1	2
Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Des Moines	1	2	2	2	0	0	1	0	1	3	3	0	4	19
Dickinson	0	0	1	1	0	0	0	0	0	0	0	1	0	3
Dubuque	2	3	0	0	0	1	0	1	0	1	0	1	1	10
Emmet	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
Floyd	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Franklin	0	1	0	0	0	0	0	0	0	0	0	0	2	3
Fremont	0	0	0	0	0	1	0	0	1	1	1	0	0	4
Greene	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Grundy	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Guthrie	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hamilton	0	0	0	1	0	0	0	1	0	0	0	0	0	2
Hancock	0	0	0	0	0	0	0	2	0	0	1	1	0	4
Hardin	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Harrison	0	0	0	0	0	0	0	0	1	1	0	0	0	2
Henry	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	1	1	0	2
Humboldt	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
Iowa	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Jackson	0	0	1	0	0	1	0	1	1	1	0	1	1	7
Jasper	0	0	0	2	3	0	3	1	1	2	2	0	0	14

Table 4. Deaths to Residents Caused by Homicide in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1980-1992
Jefferson	0	1	0	0	0	0	0	0	0	0	0	0	1	2
Johnson	0	7	1	0	2	0	0	4	1	0	0	2	0	17
Jones	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Keokuk	1	0	0	0	0	1	0	0	0	0	0	1	0	3
Kossuth	0	0	0	0	0	2	0	1	0	0	0	0	0	3
Lee	0	5	0	1	0	0	0	2	1	1	3	2	2	17
Linn	4	5	2	5	1	3	2	2	7	6	4	3	3	47
Louisa	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Lucas	0	1	0	0	0	0	0	0	1	0	1	0	0	3
Lyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madison	0	0	0	0	1	0	1	1	1	0	0	0	0	4
Mahaska	0	1	1	0	1	1	0	1	0	1	1	0	0	7
Marion	1	0	2	0	0	0	1	1	0	0	1	0	1	7
Marshall	0	0	1	1	0	2	0	0	1	0	2	1	1	9
Mills	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
Monona	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Monroe	0	0	0	0	0	0	0	2	1	1	0	0	0	4
Montgomery	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Muscatine	3	0	0	0	1	1	2	4	0	0	3	1	1	16
O'Brien	0	1	1	0	0	0	0	1	0	0	0	1	0	4
Osceola	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Page	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
Plymouth	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pocahontas	0	1	0	1	0	0	0	0	0	0	2	1	0	5
Polk	11	12	18	15	15	19	21	13	18	13	17	13	19	204
Pottawattamie	2	4	2	1	4	2	4	0	4	4	1	1	5	34
Poweshiek	0	0	0	0	0	0	0	1	0	0	0	0	1	2
Ringgold	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Sac	2	0	0	0	0	0	0	0	0	0	1	0	1	4
Scott	3	2	3	5	3	5	2	6	9	6	5	8	9	66
Shelby	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Sioux	1	2	0	0	0	0	1	1	0	0	0	0	0	5
Story	2	1	0	0	0	2	2	1	1	0	0	0	0	9
Tama	0	0	2	0	1	0	1	0	0	0	0	0	3	7
Taylor	0	0	0	0	0	0	0	1	1	0	0	0	1	3
Union	0	0	1	0	0	0	0	0	0	1	0	0	0	2
Van Buren	0	0	1	0	0	0	0	0	1	0	0	0	0	2
Wapello	1	1	0	0	1	3	0	0	1	1	1	2	0	11
Warren	2	1	0	1	0	1	0	1	1	0	1	0	0	8
Washington	0	1	0	0	1	1	0	0	0	0	0	0	1	4
Wayne	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Webster	0	5	1	1	2	0	0	1	2	2	2	4	1	21
Winnebago	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winneshiek	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Woodbury	3	7	1	6	1	3	4	0	2	6	2	4	1	40
Worth	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Wright	0	0	0	0	0	0	1	0	0	0	1	0	0	2
State of Iowa	49	76	52	55	53	58	62	58	74	69	68	80	78	832

Deaths Due to Suicide

Iowa recorded 287 suicides in 1992, a number substantially below those reported all other years (Table 3, Figure 1). Polk (25) and Scott (21) were the only counties with at least 20 suicides in 1992. A large majority (87) of the counties had five or fewer; of these, 21 had no suicides in 1992.

A total of 4,291 Iowans committed suicide from 1980 to 1992. More than 100 occurred to residents of Black Hawk, Dubuque, Johnson, Linn, Polk, Pottawattamie, Scott, and Woodbury counties. Adams (6) had the lowest total for the 13 years.

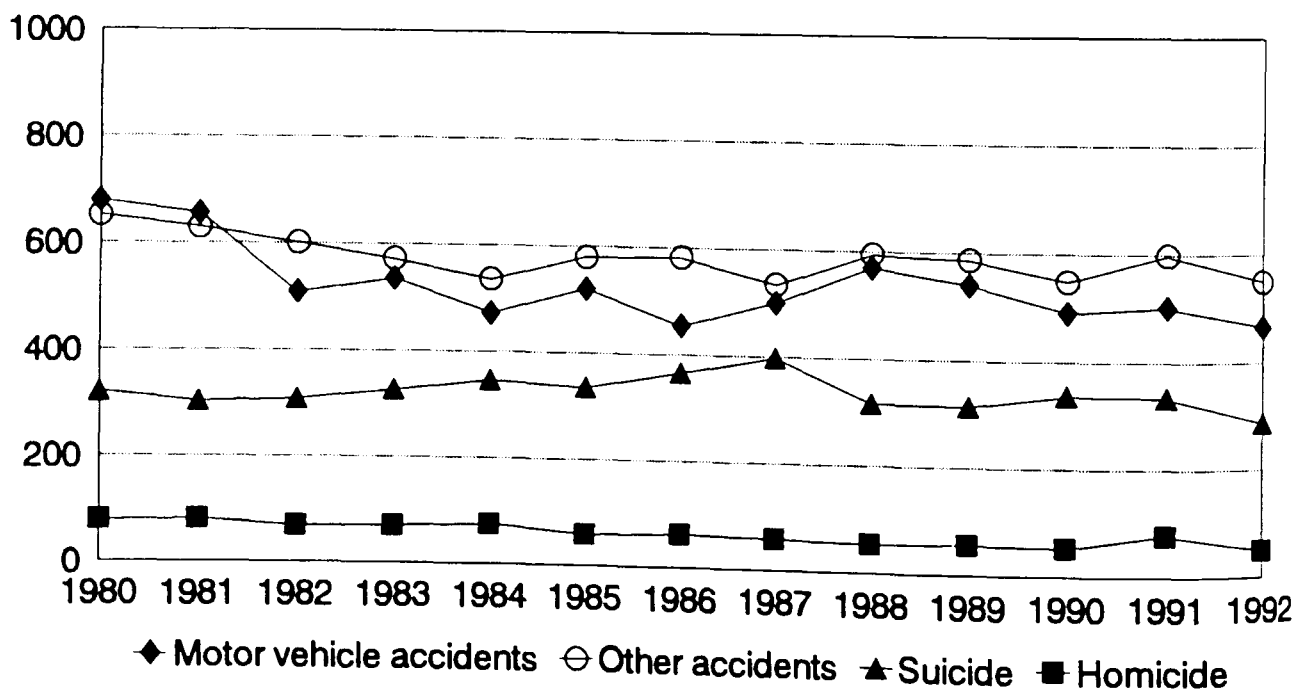
Deaths Due to Homicide

There were fewer homicides in Iowa in 1992 (49) than other years reported in Table 4 and Figure 1; the highest number during the decade was 80 in 1981. Three-fourths (75) of Iowa's counties had no homicide in 1992 and another 13 counties had only one. Polk (11) had the most; it was the only county with at least five homicides in 1992.

From 1980 through 1992, 832 Iowans died by homicide. Of these, 204 were Polk county residents and 66 were from Scott. Sixteen counties had no homicides from 1980 to 1992, while 31 counties had one or two residents who died in this manner. Forty-four counties had from 3 to 19 homicides, and the remaining six counties had from 21 to 47 in the 1980-1992 period.

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, 1980-1992.



Marriages and Dissolutions in Iowa's Counties:

1980-1992

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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 23,129 marriages in 1992, 404 fewer than in 1991 (Figure 1). This was the ninth time since 1980 that there had been a decrease in marriages over the previous year (Table 1); declines have occurred each year since 1989. The largest year-to-year drop of the period was between 1984 and 1985 (-1,788).

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

In 1992, Polk's 3,013 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, 13 were between 200 and 499, and 36 counties had 100 to 199 marriages. Forty counties had fewer than 100 marriages in 1992; the lowest numbers were in Adams (20) and Ringgold (30).

Fifty-one of the counties followed the state trend with fewer marriages in 1992 than in 1991. The greatest declines occurred in Black Hawk, Chickasaw, and Scott, the only three down more than 50 marriages. No county increased by at least 50 marriages between 1991 and 1992, although Jackson, Story, and Woodbury had gains of 40-49 marriages.

About 4,000 fewer marriages occurred in Iowa in 1992 than in 1982. Eighty-eight counties mirrored this trend. Seven (Black Hawk, Chickasaw, Clinton, Dubuque, Polk, Pottawattamie, Webster) had at least 100 fewer marriages in 1992 than in 1982. Another 18 counties had from 50 to 99 fewer marriages in 1992 than in 1982, 40 were lower by 20 to 49, and the declines in 23 counties were less than 20 marriages. Increases occurred in 11 counties, although only in Appanoose, Dickinson, and Henry did the gain exceed 10 marriages.

Dissolutions

There were 10,924 dissolutions in Iowa in 1992, 15 fewer than in 1991. Between 1980 and 1992 there were six times when dissolutions increased compared with the previous year and six 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, 1980-1992.

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

Table 1. Marriages in Iowa Counties, 1980-1992 (continued).

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

Table 2. Dissolutions in Iowa Counties, 1980-1992.

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

Table 2. Dissolutions in Iowa Counties, 1980-1992 (continued).

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

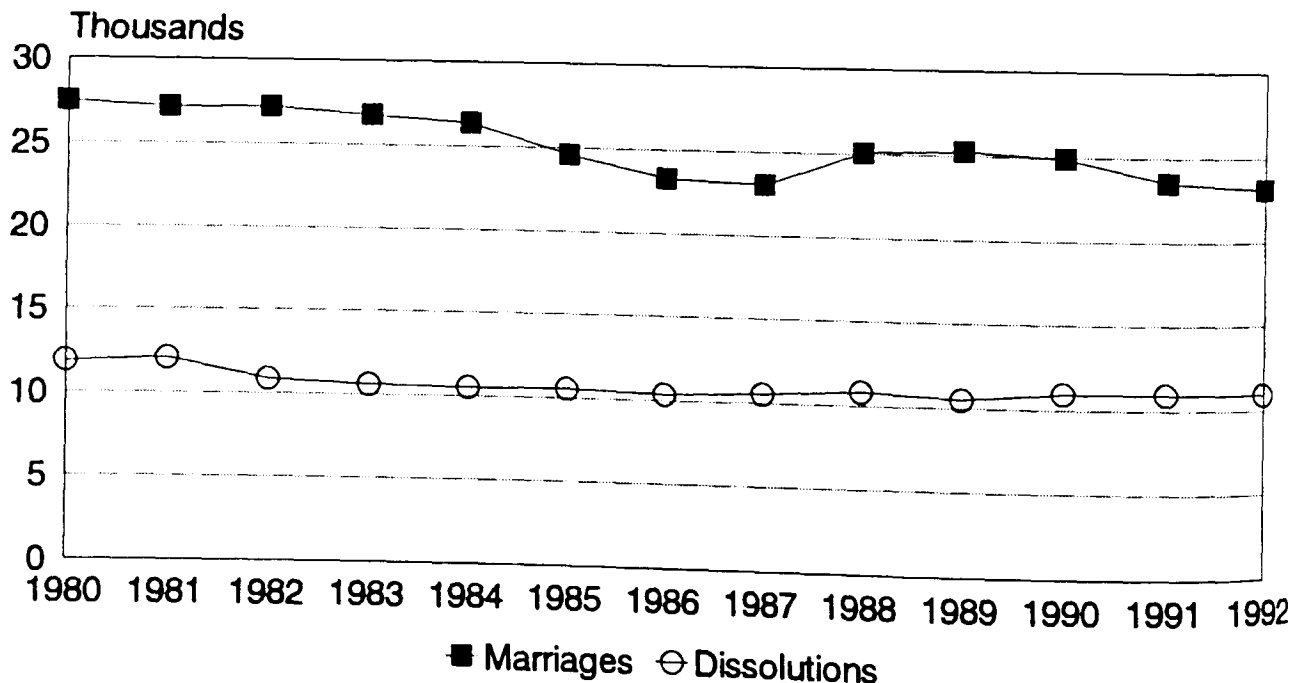
Dissolutions were highest in 1992 in Polk, the only county with more than 1,000. Other counties with at least 400 dissolutions that year were Black Hawk, Linn, Pottawattamie, Scott, and Woodbury. Seventeen counties had between 100 and 399 dissolutions, 29 recorded 50 to 99, and 47 counties had fewer than 50. Fewer than 20 dissolutions occurred in Adams, Lyon, Osceola, Ringgold, and Taylor counties.

Between 1991 and 1992, the number of dissolutions remained the same in two counties, decreased in 51, and increased in 46. In 18 counties, increases were greater than 10, although a gain greater than 50 occurred only in Black Hawk and Muscatine. Among the counties with fewer dissolutions in 1992 than in 1991, 45 declined by less than 20. The largest drops occurred in Polk and Story, the only counties where the number of dissolutions declined by at least 50.

Across the state, there were 55 more dissolutions in 1992 than in 1982. More than half (51) the counties followed that trend. Forty-five counties had fewer dissolutions at the end of the period than at the beginning, while three had the same number both years. Two counties (Scott, Story) had at least 100 fewer dissolutions in 1992 than in 1982. Among counties that had more dissolutions at the end than the beginning of the period, most showed relatively low gains. Only Linn had at least 100 more dissolutions in 1992 than in 1982.

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, 1980-1992.



Per Capita Income in Iowa's Counties:

1970-1991

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Per capita income, a measure of average income per person, was \$17,251 for Iowa in 1991. It increased for Iowa every year from 1970 through 1991, although the gains were small from 1981 through 1983 (Table 1). This information is reported annually for all states and counties by the Bureau of Economic Analysis in the U.S. Department of Commerce. In the calculation of income, the Bureau of Economic Analysis includes income from sources such as wages, salaries, self-employment, farming, interest, rent, social security, and public assistance. Also included is the imputed value of non-monetary income or benefits such as Medicare, public housing subsidies, and other "in-kind" resources. Because of the inclusion of the value of non-monetary benefits, the income figures from the Bureau of Economic Analysis will generally be higher than figures produced by the Census Bureau which do not include such "in-kind" benefits. In this report, both initial per capita income figures and data adjusted for inflation are presented.

Per Capita Income

Counties in Iowa varied in per capita income (Table 1). In 1991, Polk had the highest (\$21,190) and Decatur the lowest (\$12,252) per capita income, a difference of \$8,938. Starting with 1980, there was a difference of at least \$5,000 between the lowest and the highest county every year. Polk has had the highest per capita income since 1982, but Mills and Scott were consistently among the top five in the three most recent years. Decatur had the lowest per capita income every year starting with 1974. Other counties among the lowest in recent years were Davis, Jones, Ringgold, Taylor, and Van Buren.

Between 1990 and 1991, per capita income increased in 79 of Iowa's 99 counties. Per capita income declined in at least one county between all years except 1971 to 1972, 1972 to 1973, 1977 to 1978, and 1980 to 1981. A majority of Iowa counties had decreases in per capita income from 1973 to 1974 (56) and from 1981 to 1982 (65), while nearly half had declines from 1982 to 1983 (49). These year-to-year variations reflect changes in the economy in Iowa and its counties.

From 1971 to 1991, Iowa's per capita income increased by \$13,300 (Table 3). Increases were under \$12,000 in 43 counties, although only Davis, Decatur, Emmet, Jones, and Van Buren reported gains below \$10,000. Eleven counties had increases in per capita income of at least \$14,000, with Polk (+\$16,500) and Mills (\$15,800) the only ones exceeding \$15,000. During the 1971-1991 period, 20 counties increased every year, but the other 79 declined one or more times. Some counties decreased in six (Clayton, Crawford, Greene, Harrison, Louisa, Mitchell, Monona, Palo Alto, Worth) or seven (Pocahontas, Sac) of the 20 comparisons of one year with the next.

In percentage terms, Iowa's per capita income increased nearly 337% between 1971 and 1991. Gains in Iowa's counties ranged from 244% in Emmet to 414% in Carroll. Two increased by at least 400%; 16 others had gains of less than 300%.

Per Capita Income Adjusted for Inflation

Rising prices of goods and services between 1971 and 1991 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 1991 dollars based on the consumer price index for each year. Per capita income adjusted for inflation was higher in 1991 than it was in 1971 for Iowa, but it did not

Table 1. Per Capita Income in Iowa Counties, 1970-1991.

County	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Adair	16461	16270	15559	13290	12763	12493	10729	10151	8692	9062	9531	7565	8144	7921	6081	6321	5480	4981	5536	4059	3520	3361
Adams	16054	15813	14739	13452	12953	12656	10717	10007	9249	9383	9653	7599	7952	7378	5914	6594	5464	4628	5643	3782	3390	3272
Allamakee	14267	14686	13645	12619	11585	10915	10006	9717	8015	8544	8455	7290	7465	7030	6388	6268	5249	4580	4549	3494	3202	3154
Appanoose	14451	13938	13193	12791	11507	10998	10234	9805	9329	8770	8768	7983	7588	6647	6053	5850	5237	4766	4433	3547	3229	2983
Audubon	15451	14740	13929	13304	13036	12189	10968	10211	8516	9304	10080	8033	8165	7957	6088	5874	5717	5187	5568	4059	3575	3549
Benton	16033	16003	15182	14089	13737	13319	12148	11582	10306	10197	10728	9175	9129	8534	6981	6339	6158	5548	5513	4359	3924	3815
Black Hawk	16390	15941	14900	13944	13052	12261	11939	11661	11325	11287	11220	10211	9422	8326	7635	6578	6110	5504	4924	4300	3815	3608
Boone	17361	16689	16282	13893	13470	13203	12551	11868	11230	11137	11092	9966	9322	8567	6636	6560	6448	5877	5509	4257	3803	3711
Bremer	15956	15679	14540	13636	12995	12397	11904	11262	10071	10050	10100	9112	8710	7912	7101	6123	5706	5305	5107	4165	3907	3614
Buchanan	15121	14844	13494	12611	11924	11147	10290	10131	8572	9191	9609	8049	8027	7316	6335	5629	5612	5117	4759	3720	3264	3175
Buena Vista	16650	16216	15876	14471	13834	13594	12844	11435	10521	10650	11357	9658	9362	8653	7542	5813	6365	5980	6016	4558	4194	4131
Butler	14673	14472	13064	12707	12200	12000	11446	11054	9435	9583	10082	8738	8536	8081	6640	5856	5779	5075	5304	3907	3470	3331
Calhoun	15652	15543	15597	14599	13550	13253	12752	11767	10512	10512	11494	10266	9892	8561	6668	5551	6110	6009	6209	4754	3753	3833
Carroll	18178	17518	16654	14968	14065	13616	12949	12233	11150	11399	11955	10255	9814	8863	6844	5860	5891	5395	5654	4333	3539	3647
Cass	17192	16703	16207	14715	13965	13254	12402	11626	10671	10649	10913	8965	9051	8314	7075	6717	5801	5377	5747	4528	3892	3763
Cedar	17168	17135	15982	15069	13917	13462	12540	12106	10104	10763	11292	9339	9625	8961	7355	6654	6889	5665	5690	4355	3874	3873
Cerro Gordo	17281	16897	15564	14971	13903	13231	12574	12314	11475	11062	10932	9609	9003	8298	7387	6668	6210	5579	5182	4536	4104	3947
Cherokee	16600	16062	14708	13918	12579	12343	11434	10679	9593	10134	10627	8786	8667	8113	6735	5625	6246	5852	6014	4292	3704	3581
Chickasaw	15931	15660	14393	13489	12846	12400	11667	10979	9276	9463	10022	8702	8729	8041	7051	5704	5572	5268	5418	4186	3410	3343
Clarke	14227	14174	13715	13308	12242	11704	10988	9707	9409	8854	8801	8038	7369	6835	6141	5544	5064	4579	4872	3872	3585	3463
Clay	15654	15808	14908	14417	13486	12965	12006	10830	10254	10468	10956	9881	9447	8622	8100	6806	6494	5781	5892	4445	4007	3812
Clayton	14981	15332	14112	12273	11738	11141	9990	10004	7628	8505	8590	7023	7478	6972	5870	5306	4976	4509	4560	3626	3240	3255
Clinton	15976	15553	14655	14196	13010	12534	11793	11544	10393	10605	10815	9577	8928	7949	6929	6194	5799	5224	4911	4314	3950	3931
Crawford	15128	14723	13592	13207	11617	11696	10357	10128	8932	9441	10334	7849	7948	7559	5972	5099	5360	4868	5128	3976	3442	3466
Dallas	17920	17388	16436	15533	14202	13561	12668	12242	11428	11290	11285	9874	9584	8410	7405	7001	6619	6172	5907	4864	4303	4178
Davis	13438	13612	11881	11542	11083	10636	10061	9521	8754	8533	8352	7397	7235	6360	5192	5268	4959	4453	4862	4064	3492	3350
Decatur	12252	11655	11240	10128	9723	9414	8892	8099	7624	7217	7237	6203	6121	6088	4812	4780	4306	4048	4154	3484	3135	2999
Delaware	14769	15231	13318	12469	12182	11526	10155	10149	7871	8743	9021	7351	8089	7626	6187	5441	5777	4837	4591	3661	3190	3080
Des Moines	17018	16694	15694	14786	13747	13369	12798	12262	11276	11077	10882	9889	9398	8372	7578	6854	6306	5787	5358	4736	4334	4164
Dickinson	18664	18632	17247	15817	14309	13571	12605	12470	11003	10864	10845	9496	9273	8700	7536	6447	6290	5869	6149	4590	4001	3887
Dubuque	16469	15992	14924	14074	12715	11873	11473	11119	10177	9982	10000	9066	8666	7915	7044	6105	5633	5199	4669	4137	3806	3608
Emmet	14006	14163	13386	12946	12800	12595	12105	11022	10319	10153	11218	10154	8800	8310	7198	6075	6151	5918	5855	4299	4077	3942
Fayette	14380	14396	13036	12204	11911	11377	10588	10202	8614	8694	8998	7741	8152	7330	6202	5459	5166	4803	4629	3623	3250	3241
Floyd	15174	15040	13801	13357	12517	12177	11277	11128	9852	9881	9873	9041	8793	7978	7306	6270	6005	5550	5433	3841	3305	3527
Franklin	14423	14515	13641	13558	13144	13200	11896	11401	9714	10041	10940	9034	8911	8533	6718	6331	7065	6423	6186	4326	3688	3932
Fremont	18593	17385	17060	15862	14332	14508	13902	11865	12397	10801	11336	10038	9316	8530	6694	6990	5967	5351	6540	4699	4251	4321

Table 1. Per Capita Income in Iowa Counties, 1970-1991 (continued).

County	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Greene	16334	15761	15957	14881	14593	14568	13129	12062	11023	11258	11808	10469	10167	9443	6112	6703	7023	6724	7196	5235	4220	4356
Grundy	17764	17193	15671	15127	14822	14388	13703	12940	11675	11773	12378	10682	10314	9246	8113	7039	7036	6755	6360	4611	3957	3909
Guthrie	15868	15588	14742	13498	13203	12712	11725	10845	9327	9719	10029	8123	8239	7588	5881	5732	5384	4989	5192	3836	3398	3348
Hamilton	19206	18137	18423	16443	15683	15403	14267	12951	12029	11990	12415	10640	10160	9167	7603	6829	7061	6335	6665	5082	4413	4073
Hancock	14544	15271	14125	13888	13075	12981	12393	12068	11010	10918	11491	9392	9334	8720	7696	6552	6914	6282	6154	4460	3736	3795
Hardin	16643	16376	15166	14707	14262	14223	12973	12094	10683	11009	11354	9914	9365	8658	7130	6691	6405	6007	5945	4420	3916	4138
Harrison	15372	14821	13920	13134	11695	11545	11690	10470	9467	9503	10010	8005	8107	7493	5956	5371	5504	4692	5234	3936	3570	3421
Henry	17169	16815	15421	14853	13902	13377	12770	11788	10684	10579	10282	8934	8767	8023	7126	6716	6272	5364	5169	4257	3831	3668
Howard	15512	15773	14598	13669	12971	12907	11147	11320	9178	8905	9485	7897	8308	7556	6610	5361	4976	4508	5232	3707	3108	2954
Humboldt	15933	16172	16538	14380	13386	13040	12054	11516	10623	10981	11548	9329	9173	8891	7232	6363	6971	6409	6117	4047	3637	3677
Ida	16433	16333	15761	14790	13642	13146	12177	11695	8937	9810	10521	7728	8662	8565	6570	4990	5824	5801	6046	4545	3986	3960
Iowa	16478	16310	15272	14824	14156	13449	12548	12430	9874	10321	10353	8743	8856	8326	7010	6363	5816	5078	5305	4408	4112	4153
Jackson	14615	14635	13661	12930	11729	10899	10397	10238	8856	9123	9302	8036	7850	7409	6330	5788	5298	4765	4834	3880	3520	3405
Jasper	17742	17434	16706	15768	14711	13895	13582	12985	11739	11209	11260	9799	9270	8535	7187	6781	6231	5767	5619	4770	4025	4008
Jefferson	15348	15206	14328	13830	12981	12341	11115	10571	9317	8728	9262	7989	8061	7231	6353	6098	5752	5604	4923	3949	3617	3576
Johnson	18524	17790	16862	15645	15501	14770	13738	13080	12015	11537	10898	9711	8817	8114	7144	6247	5740	4992	4611	4063	3738	3488
Jones	13459	13500	12709	12199	11797	11387	10473	10013	8143	8791	9085	7739	7906	7430	6186	5532	5483	5041	4839	3883	3590	3538
Keokuk	15103	14954	14220	13969	14078	13342	12059	11648	10636	10286	10173	8443	8563	8088	6728	6038	6067	5077	5646	4318	3785	3637
Kossuth	15157	15372	14890	14027	13280	13061	12200	11534	9424	10290	10938	9300	8803	8462	7075	6006	6876	6479	6560	4342	3648	3556
Lee	15647	15313	14444	13562	12640	12487	12204	11659	10760	10479	10404	9275	8838	8031	6941	6419	5870	5293	4908	4171	3811	3642
Linn	19079	18559	17764	16693	15243	14432	13689	12906	12258	11997	11564	10630	9963	8792	7868	7116	6427	5878	5318	4694	4391	4216
Louisa	15654	15904	14806	13983	12873	13021	12162	11655	9554	10355	10538	9140	8105	7267	6533	6072	6108	5281	5359	4103	3812	3709
Lucas	15621	15230	14513	13814	12626	12301	11477	10820	10123	9736	9747	8769	8073	7660	6213	6291	5499	4834	4982	4205	3751	3652
Lyon	15468	14838	14312	12823	12507	12472	11549	11148	9345	9980	10155	7856	8796	7859	6217	4834	5243	4955	6119	4204	3615	3463
Madison	16928	16562	15881	14355	13134	12801	11870	11069	9959	9767	9784	8858	8311	7862	6727	6669	5967	5120	5523	4285	3982	3839
Mahaska	15593	15232	14313	13354	12768	12424	11607	10874	9872	10140	10293	8721	8638	8133	6747	6278	5889	5302	5235	4279	3654	3462
Marion	17358	16947	16284	15680	14766	13817	13203	12377	11720	11081	10843	9563	9254	8378	6968	6714	6396	5757	5377	4477	3966	3800
Marshall	17683	17055	16242	15090	14305	13753	13156	12508	11878	11533	11432	10377	9588	8834	7682	7425	6806	6210	5836	4867	4646	4429
Mills	19997	19235	17983	14693	13754	13367	12687	11425	10635	10350	10116	9049	8555	8382	6960	6887	6440	5654	6057	4554	4213	4193
Mitchell	16683	16831	15596	14016	13374	13092	11978	11481	9837	9920	10121	8254	8444	8069	6979	5467	5841	4987	5745	4161	3395	3433
Monona	15046	15115	14859	14237	12859	12803	12234	11231	9787	10620	11264	7842	7762	7825	6528	4975	6120	5364	6445	4377	3707	3731
Monroe	15434	15104	13784	13448	12121	11543	10940	10387	9465	9226	9114	8226	7453	6878	5980	5820	5197	4621	4690	3868	3387	3169
Montgomery	16738	16163	15755	14439	13858	13570	12681	11658	11007	10883	10909	9370	9779	8346	7037	6764	5964	5586	5788	4297	3971	3934
Muscatine	18354	18185	17048	16073	14831	14162	13761	13221	12027	11820	11546	10223	9311	8453	7545	7007	6396	5592	5188	4423	4142	4043
O'Brien	16967	16559	15629	14057	13574	13489	12668	12132	10886	10933	10965	9205	9190	8825	7421	6390	6494	6028	6142	4470	3728	3459
Osceola	15720	15055	14062	13798	12290	11808	10799	10185	9039	9274	10628	8985	8974	8691	7317	5714	6494	5473	6905	4684	3886	3696

Table 1. Per Capita Income in Iowa Counties, 1970-1991 (continued).

County	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Page	15929	15347	14543	13391	12655	12544	11439	10530	10085	9836	9825	8635	8724	7768	6759	6577	5869	5124	5476	4279	3957	3726
Palo Alto	15482	15336	14117	14398	13733	13802	12800	10892	9874	10300	11109	9764	8587	8357	6948	5736	6173	5831	6282	4184	3768	3695
Plymouth	17330	16552	15538	13885	13303	12454	11753	10839	9047	9765	9964	7746	8473	8177	6561	5586	5793	5208	5762	4205	3523	3362
Pocahontas	16210	15966	16539	14288	13712	13837	13076	11310	10322	11224	12248	9611	8853	8902	7328	5527	6602	6478	6903	4349	3810	3735
Polk	21190	20561	19283	18026	16488	15635	14980	14337	13520	12988	12334	11334	10513	9330	8430	7526	6839	6205	5641	5116	4686	4419
Pottawattamie	16453	15909	15017	14621	12953	12668	12107	11442	10658	10349	10080	9125	8484	7943	6868	6247	5519	5180	4923	4174	3828	3729
Poweshiek	17024	16700	16016	15472	14705	13915	12469	12155	10688	10679	10580	9006	8939	8272	6915	6619	6100	5617	5650	4479	3942	3762
Ringgold	13745	13571	13451	12242	12732	11773	10394	9021	8540	8541	8819	7729	7442	7273	5616	6154	5459	4610	5747	4114	3512	3463
Sac	15507	15203	14420	14523	13202	13740	12344	11505	10073	10758	11914	9148	9834	8951	7031	5883	6374	6274	6368	4575	3751	3797
Scott	18772	18413	17155	16338	14963	14264	13746	13241	12230	12126	11888	10703	9816	8702	7827	7034	6447	6004	5449	4703	4310	4114
Shelby	17599	17004	15913	14649	13098	12756	11932	10976	9267	10014	10366	8010	8960	8510	6160	5630	5450	5146	5585	4194	3522	3556
Sioux	15342	14943	14058	12329	11476	10979	10493	10078	8756	9292	10113	8469	8743	8271	6467	5654	5227	5269	5449	4223	3555	3506
Story	15848	15356	14660	13639	13443	12667	12043	11303	10524	10174	9640	8748	8030	7258	6242	5693	5204	4742	4527	3847	3542	3343
Tama	15791	15683	14584	13876	13127	12751	12045	11403	10056	10546	10991	9094	8552	8023	7047	6537	6370	5526	5624	4269	3800	3674
Taylor	13814	13282	12472	11745	12052	11699	11105	9402	8731	8704	8705	7554	7840	6950	6010	6006	5215	4367	5024	3712	3098	3175
Union	15462	15019	14170	13553	12463	12295	11620	10927	10239	10131	9526	8470	7846	7010	6100	5954	5269	4699	4910	3949	3477	3282
Van Buren	13242	13197	12131	11857	11170	10725	9971	9026	7801	8006	7973	7159	7399	6936	5983	5660	5321	4544	4507	3633	3286	3058
Wapello	15299	14813	13874	12783	11864	11240	11155	10871	10307	10097	9722	9085	8267	7324	6586	5925	5393	4839	4480	4222	3834	3570
Warren	17105	16628	15074	14100	13126	12579	12079	11440	10545	10277	9915	9235	8766	7985	6824	6401	5842	5192	4984	4345	3912	3640
Washington	16117	15991	14665	13853	13614	13461	13013	13266	11441	11708	11553	9713	9699	8860	7313	6760	6844	5481	5650	4547	4183	3938
Wayne	14028	13893	13244	12319	12351	11936	10886	10235	9645	8842	9116	7974	7758	7128	5360	5595	5157	4344	4774	3902	3270	3181
Webster	16799	16131	15398	14035	13267	12991	12099	11453	10536	10902	10973	10065	9337	8329	7139	6485	6137	5775	5325	4283	3982	3709
Winnebago	16294	16547	15957	16335	14742	14407	13251	12957	11103	10419	10301	8771	8834	8543	7930	6920	6743	5581	6303	4816	3985	3730
Winneshiek	15249	15224	13719	12523	11648	11053	9914	9673	7782	8101	8119	6741	6741	6577	5694	5041	4639	4224	4074	3192	3023	2971
Woodbury	17042	16520	15574	14642	13925	13004	12418	11881	11318	10999	10782	9532	8933	8290	7497	6738	6200	5566	5284	4517	4077	3869
Worth	15737	16119	15025	14740	13503	12954	12001	11643	9684	9484	9967	7906	8276	8303	7097	6071	6561	5644	6241	4385	3482	3388
Wright	17140	17143	17536	16249	15112	15023	14209	13771	11980	11841	11892	10335	9994	9277	8035	6892	7250	6734	6398	4744	4055	3906
State of Iowa	17251	16848	15862	14869	13868	13287	12569	11969	10943	10857	10812	9537	9091	8289	7189	6468	6097	5540	5349	4394	3951	3804
Counties:																						
Range: Low	12252	11655	11240	10128	9723	9414	8892	8099	7624	7217	7237	6203	6121	6088	4812	4780	4306	4048	4074	3192	3023	2954
High	21190	20561	19283	18026	16488	15635	14980	14337	13520	12988	12415	11334	10513	9443	8430	7526	7250	6755	7196	5235	4686	4429
Number Dec.	20	6	3	4	6	1	3	1	49	65	0	31	3	0	8	30	1	56	0	0	17	

Table 2. Adjusted Per Capita Income (1991 Dollars) in Iowa Counties, 1970-1991.

County	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Adair	16461	16721	16967	15154	15176	15519	13428	13166	11667	12551	13733	11839	14338	15810	13220	14666	13333	12971	16187	12927	11579	11432
Adams	16054	16252	16073	15339	15402	15722	13413	12979	12415	12996	13909	11892	14000	14727	12857	15299	13294	12052	16500	12045	11151	11129
Allamakee	14267	15094	14880	14389	13775	13559	12523	12603	10758	11834	12183	11408	13143	14032	13887	14543	12771	11927	13301	11127	10533	10728
Appanoose	14451	14325	14387	14585	13683	13662	12809	12717	12522	12147	12634	12493	13359	13267	13159	13573	12742	12411	12962	11296	10622	10146
Audubon	15451	15149	15190	15170	15501	15142	13727	13244	11431	12886	14524	12571	14375	15882	13235	13629	13910	13508	16281	12927	11760	12071
Benton	16033	16447	16556	16065	16334	16545	15204	15022	13834	14123	15458	14358	16072	17034	15176	14708	14983	14448	16120	13882	12908	12976
Black Hawk	16390	16383	16249	15900	15520	15231	14942	15125	15201	15633	16167	15980	16588	16619	16598	15262	14866	14333	14398	13694	12549	12272
Boone	17361	17152	17756	15842	16017	16401	15708	15393	15074	15425	15983	15596	16412	17100	14426	15220	15689	15305	16108	13557	12510	12622
Bremer	15956	16114	15856	15548	15452	15400	14899	14607	13518	13920	14553	14260	15335	15792	15437	14206	13883	13815	14933	13264	12852	12293
Buchanan	15121	15256	14715	14380	14178	13847	12879	13140	11506	12730	13846	12596	14132	14603	13772	13060	13655	13326	13915	11847	10737	10799
Buena Vista	16650	16666	17313	16501	16449	16887	16075	14831	14122	14751	16365	15114	16482	17271	16396	13487	15487	15573	17591	14516	13796	14051
Butler	14673	14874	14246	14489	14507	14907	14325	14337	12664	13273	14527	13674	15028	16130	14435	13587	14061	13216	15509	12443	11414	11330
Calhoun	15652	15974	17009	16647	16112	16463	15960	15262	14110	14560	16562	16066	17415	17088	14496	12879	14866	15648	18155	15140	12345	13037
Carroll	18178	18004	18161	17067	16724	16914	16207	15866	14966	15788	17226	16049	17278	17691	14878	13596	14333	14049	16532	13799	11641	12405
Cass	17192	17166	17674	16779	16605	16465	15522	15079	14323	14749	15725	14030	15935	16595	15380	15585	14114	14003	16804	14420	12803	12799
Cedar	17168	17610	17429	17182	16548	16723	15695	15702	13562	14907	16271	14615	16945	17886	15989	15439	16762	14753	16637	13869	12743	13173
Cerro Gordo	17281	17366	16973	17071	16532	16436	15737	15971	15403	15321	15752	15038	15850	16563	16059	15471	15109	14529	15152	14446	13500	13425
Cherokee	16600	16508	16039	15870	14957	15333	14310	13851	12877	14036	15313	13750	15259	16194	14641	13051	15197	15240	17585	13669	12184	12180
Chickasaw	15931	16095	15696	15381	15275	15404	14602	14240	12451	13107	14441	13618	15368	16050	15328	13234	13557	13719	15842	13331	11217	11371
Clarke	14227	14567	14956	15174	14556	14539	13752	12590	12630	12263	12682	12579	12974	13643	13350	12863	12321	11924	14246	12331	11793	11779
Clay	15654	16247	16257	16439	16036	16106	15026	14047	13764	14499	15787	15463	16632	17210	17609	15791	15800	15055	17228	14156	13181	12966
Clayton	14981	15757	15389	13994	13957	13840	12503	12975	10239	11780	12378	10991	13165	13916	12761	12311	12107	11742	13333	11548	10658	11071
Clinton	15976	15985	15981	16187	15470	15570	14760	14973	13950	14688	15584	14987	15718	15866	15063	14371	14109	13604	14360	13739	12993	13371
Crawford	15128	15132	14822	15059	13813	14529	12962	13136	11989	13076	14890	12283	13993	15088	12983	11831	13041	12677	14994	12662	11322	11789
Dallas	17920	17871	17924	17712	16887	16846	15855	15878	15340	15637	16261	15452	16873	16786	16098	16244	16105	16073	17272	15490	14155	14211
Davis	13438	13990	12956	13161	13178	13212	12592	12349	11750	11819	12035	11576	12738	12695	11287	12223	12066	11596	14216	12943	11487	11395
Decatur	12252	11978	12257	11548	11561	11694	11129	10505	10234	9996	10428	9707	10776	12152	10461	11090	10477	10542	12146	11096	10313	10201
Delaware	14769	15654	14523	14218	14485	14318	12710	13163	10565	12109	12999	11504	14241	15222	13450	12624	14056	12596	13424	11659	10493	10476
Des Moines	17018	17157	17115	16860	16346	16607	16018	15904	15136	15342	15680	15476	16546	16711	16474	15903	15343	15070	15667	15083	14257	14163
Dickinson	18664	19149	18808	18035	17014	16858	15776	16174	14769	15047	15627	14861	16326	17365	16383	14958	15304	15284	17980	14618	13161	13221
Dubuque	16469	16436	16275	16048	15119	14749	14359	14422	13660	13825	14409	14188	15257	15798	15313	14165	13706	13539	13652	13175	12520	12272
Emmet	14006	14556	14598	14762	15220	15646	15150	14296	13851	14062	16164	15890	15493	16587	15648	14095	14966	15411	17120	13691	13411	13408
Fayette	14380	14795	14216	13916	14163	14133	13252	13232	11562	12042	12965	12114	14352	14631	13483	12666	12569	12508	13535	11538	10691	11024
Floyd	15174	15457	15050	15230	14883	15127	14114	14433	13224	13686	14226	14149	15481	15924	15883	14548	14611	14453	15886	12232	10872	11997
Franklin	14423	14918	14876	15460	15629	16398	14889	14787	13039	13907	15764	14138	15688	17032	14604	14689	17190	16727	18088	13777	12132	13374
Fremont	18593	17867	18604	18087	17042	18022	17399	15389	16640	14960	16334	15709	16401	17026	14552	16218	14518	13935	19123	14965	13984	14697

Table 2. Adjusted Per Capita Income (1991 Dollars) in Iowa Counties, 1970-1991 (continued).

County	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Greene	16334	16198	17401	16968	17352	18097	16432	15645	14796	15593	17014	16383	17900	18848	13287	15552	17088	17510	21041	16672	13882	14816
Grundy	17764	17670	17089	17249	17624	17873	17150	16783	15671	16306	17836	16717	18158	18455	17637	16332	17119	17591	18596	14685	13016	13296
Guthrie	15868	16021	16076	15391	15699	15791	14675	14066	12519	13461	14451	12712	14505	15146	12785	13299	13100	12992	15181	12217	11178	11388
Hamilton	19206	18640	20091	18749	18648	19134	17856	16798	16146	16607	17889	16651	17887	18297	16528	15845	17180	16497	19488	16185	14516	13854
Hancock	14544	15695	15403	15836	15547	16125	15511	15652	14779	15122	16558	14698	16433	17405	16730	15202	16822	16359	17994	14204	12289	12908
Hardin	16643	16830	16539	16770	16958	17668	16237	15686	14340	15248	16360	15515	16488	17281	15500	15524	15584	15643	17383	14076	12882	14075
Harrison	15372	15232	15180	14976	13906	14342	14631	13580	12707	13162	14424	12527	14273	14956	12948	12462	13392	12219	15304	12535	11743	11636
Henry	17169	17282	16817	16936	16530	16617	15982	15289	14341	14652	14816	13981	15435	16014	15491	15582	15260	13969	15114	13557	12602	12476
Howard	15512	16211	15919	15586	15423	16034	13951	14682	12319	12334	13667	12358	14627	15082	14370	12439	12107	11740	15298	11806	10224	10048
Humboldt	15933	16621	18035	16397	15917	16199	15086	14936	14259	15209	16640	14599	16150	17747	15722	14763	16961	16690	17886	12889	11964	12507
Ida	16433	16786	17166	16864	16221	16330	15240	15169	11996	13587	15160	12094	15250	17096	14283	11578	14170	15107	17678	14475	13112	13469
Iowa	16478	16763	16654	16903	16832	16707	15705	16122	13254	14295	14918	13682	15592	16619	15239	14763	14151	13224	15512	14038	13526	14126
Jackson	14615	15041	14897	14743	13946	13539	13013	13279	11887	12636	13403	12576	13820	14788	13761	13429	12891	12409	14135	12357	11579	11582
Jasper	17742	17918	18218	17979	17492	17261	16999	16842	15757	15525	16225	15335	16320	17036	15624	15733	15161	15018	16430	15191	13240	13633
Jefferson	15348	15628	15625	15770	15435	15330	13911	13711	12506	12089	13346	12502	14192	14433	13811	14148	13995	14594	14395	12576	11898	12163
Johnson	18524	18284	18388	17839	18432	18348	17194	16965	16128	15979	15703	15197	15523	16196	15530	14494	13966	13000	13482	12939	12296	11864
Jones	13459	13875	13859	13910	14027	14145	13108	12987	10930	12176	13091	12111	13919	14830	13448	12835	13341	13128	14149	12366	11809	12034
Keokuk	15103	15369	15507	15928	16740	16574	15093	15108	14277	14247	14659	13213	15076	16144	14626	14009	14762	13221	16509	13752	12451	12371
Kossuth	15157	15799	16238	15994	15791	16225	15269	14960	12650	14252	15761	14554	15498	16890	15380	13935	16730	16872	19181	13828	12000	12095
Lee	15647	15738	15751	15464	15030	15512	15274	15122	14443	14514	14991	14515	15560	16030	15089	14893	14282	13784	14351	13283	12536	12388
Linn	19079	19074	19372	19034	18125	17928	17133	16739	16454	16616	16663	16635	17540	17549	17104	16510	15637	15307	15550	14949	14444	14340
Louisa	15654	16345	16146	15944	15307	16175	15222	15117	12824	14342	15184	14304	14269	14505	14202	14088	14861	13753	15670	13067	12539	12616
Lucas	15621	15653	15827	15751	15013	15281	14364	14034	13588	13485	14045	13723	14213	15289	13507	14596	13380	12589	14567	13392	12339	12422
Lyon	15468	15250	15607	14621	14872	15493	14454	14459	12544	13823	14633	12294	15486	15687	13515	11216	12757	12904	17892	13389	11891	11779
Madison	16928	17022	17318	16368	15617	15902	14856	14357	13368	13528	14098	13862	14632	15693	14624	15473	14518	13333	16149	13646	13099	13058
Mahaska	15593	15655	15609	15227	15182	15434	14527	14104	13251	14044	14831	13648	15208	16234	14667	14566	14328	13807	15307	13627	12020	11776
Marion	17358	17417	17758	17879	17558	17164	16524	16053	15732	15348	15624	14966	16292	16723	15148	15578	15562	14992	15722	14258	13046	12925
Marshall	17683	17528	17712	17206	17010	17084	16466	16223	15944	15974	16473	16239	16880	17633	16700	17227	16560	16172	17064	15500	15283	15065
Mills	19997	19769	19611	16754	16354	16605	15879	14818	14275	14335	14576	14161	15062	16731	15130	15979	15669	14724	17711	14503	13859	14262
Mitchell	16683	17298	17008	15982	15902	16263	14991	14891	13204	13740	14584	12917	14866	16106	15172	12684	14212	12987	16798	13252	11168	11677
Monona	15046	15534	16204	16234	15290	15904	15312	14567	13137	14709	16231	12272	13665	15619	14191	11543	14891	13969	18845	13939	12194	12690
Monroe	15434	15523	15032	15334	14413	14339	13692	13472	12705	12778	13133	12873	13121	13729	13000	13503	12645	12034	13713	12318	11141	10779
Montgomery	16738	16612	17181	16464	16478	16857	15871	15121	14774	15073	15719	14664	17217	16659	15298	15694	14511	14547	16924	13685	13063	13381
Muscatine	18354	18690	18591	18327	17635	17593	17223	17148	16144	16371	16637	15998	16393	16872	16402	16258	15562	14563	15170	14086	13625	13752
O'Brien	16967	17018	17044	16029	16140	16757	15855	15735	14612	15143	15800	14405	16180	17615	16133	14826	15800	15698	17959	14236	12263	11765
Osceola	15720	15473	15335	15733	14614	14668	13516	13210	12133	12845	15314	14061	15799	17347	15907	13258	15800	14253	20190	14917	12783	12571

Table 2. Adjusted Per Capita Income (1991 Dollars) in Iowa Counties, 1970-1991 (continued).

County	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Page	15929	15773	15859	15269	15048	15583	14317	13658	13537	13623	14157	13513	15359	15505	14693	15260	14280	13344	16012	13627	13016	12673
Palo Alto	15482	15762	15395	16417	16329	17145	16020	14127	13254	14266	16007	15280	15118	16681	15104	13309	15019	15185	18368	13325	12395	12568
Plymouth	17330	17011	16944	15832	15818	15471	14710	14058	12144	13525	14357	12122	14917	16321	14263	12961	14095	13563	16848	13392	11589	11435
Pocahontas	16210	16409	18036	16292	16304	17189	16365	14669	13855	15546	17648	15041	15586	17768	15930	12824	16063	16870	20184	13850	12533	12704
Polk	21190	21132	21028	20554	19605	19422	18748	18595	18148	17989	17772	17737	18509	18623	18326	17462	16640	16159	16494	16293	15414	15031
Pottawattamie	16453	16350	16376	16672	15402	15737	15153	14840	14306	14334	14524	14280	14937	15854	14930	14494	13428	13490	14395	13293	12592	12684
Poweshiek	17024	17163	17466	17642	17485	17286	15606	15765	14346	14791	15245	14094	15738	16511	15033	15357	14842	14628	16520	14264	12967	12796
Ringgold	13745	13948	14668	13959	15139	14625	13009	11700	11463	11830	12707	12095	13102	14517	12209	14278	13282	12005	16804	13102	11553	11779
Sac	15507	15625	15725	16560	15698	17068	15449	14922	13521	14900	17167	14316	17313	17866	15285	13650	15509	16339	18620	14570	12339	12915
Scott	18772	18924	18708	18629	17792	17719	17204	17174	16416	16795	17130	16750	17282	17369	17015	16320	15686	15635	15933	14978	14178	13993
Shelby	17599	17476	17353	16704	15574	15846	14934	14236	12439	13870	14937	12535	15775	16986	13391	13063	13260	13401	16330	13357	11586	12095
Sioux	15342	15358	15330	14058	13646	13639	13133	13071	11753	12870	14572	13254	15393	16509	14059	13118	12718	13721	15933	13449	11694	11925
Story	15848	15782	15987	15552	15985	15735	15073	14660	14126	14091	13890	13690	14137	14487	13570	13209	12662	12349	13237	12252	11651	11371
Tama	15791	16118	15904	15822	15609	15840	15075	14790	13498	14607	15837	14232	15056	16014	15320	15167	15499	14391	16444	13596	12500	12497
Taylor	13814	13651	13601	13392	14331	14533	13899	12195	11719	12055	12543	11822	13803	13872	13065	13935	12689	11372	14690	11822	10191	10799
Union	15462	15436	15453	15454	14819	15273	14543	14173	13744	14032	13726	13255	13813	13992	13261	13814	12820	12237	14357	12576	11438	11163
Van Buren	13242	13563	13229	13520	13282	13323	12479	11707	10471	11089	11488	11203	13026	13844	13007	13132	12946	11833	13178	11570	10809	10401
Wapello	15299	15224	15130	14576	14107	13963	13961	14100	13835	13985	14009	14218	14555	14619	14317	13747	13122	12602	13099	13446	12612	12143
Warren	17105	17089	16438	16078	15608	15626	15118	14838	14154	14234	14287	14452	15433	15938	14835	14852	14214	13521	14573	13838	12868	12381
Washington	16117	16435	15992	15796	16188	16722	16287	17206	15357	16216	16647	15200	17076	17685	15898	15684	16652	14273	16520	14481	13760	13395
Wayne	14028	14279	14443	14047	14686	14827	13625	13275	12946	12247	13135	12479	13658	14228	11652	12981	12547	11313	13959	12427	10757	10820
Webster	16799	16579	16792	16003	15775	16138	15143	14855	14142	15100	15811	15751	16438	16625	15520	15046	14932	15039	15570	13640	13099	12616
Winnebago	16294	17006	17401	18626	17529	17897	16584	16805	14903	14431	14843	13726	15553	17052	17239	16056	16406	14534	18430	15338	13109	12687
Winneshiek	15249	15646	14961	14279	13850	13730	12408	12546	10446	11220	11699	10549	11868	13128	12378	11696	11287	11000	11912	10166	9944	10105
Woodbury	17042	16978	16984	16696	16558	16154	15542	15410	15192	15234	15536	14917	15727	16547	16298	15633	15085	14495	15450	14385	13411	13160
Worth	15737	16566	16385	16807	16056	16092	15020	15101	12999	13136	14362	12372	14570	16573	15428	14086	15964	14698	18249	13965	11454	11524
Wright	17140	17619	19123	18528	17969	18662	17783	17861	16081	16400	17135	16174	17595	18517	17467	15991	17640	17536	18708	15108	13339	13286
State of Iowa	17251	17316	17298	16954	16490	16506	15731	15524	14689	15037	15579	14925	16005	16545	15628	15007	14835	14427	15640	13994	12997	12939
Counties:																						
Range: Low	12252	11978	12257	11548	11561	11694	11129	10505	10234	9996	10428	9707	10776	12152	10461	11090	10477	10542	11912	10166	9944	10048
High	21190	21132	21028	20554	19605	19422	18748	18595	18148	17989	17889	17737	18509	18848	18326	17462	17640	17591	21041	16672	15414	15065
Number Dec.	65	47	31	28	64	1	27	3	84	95	2	96	94	2	33	45	21	98	1	0	50	

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1971-1991.

County	Change in Per Capita Income, 1971-1991			Change in Adjusted Per Capita Income, 1971-1991		
	Dollars	Percent	Years	Dollars	Percent	Years
			Decreased			Decreased
Adair	12941	367.6	5	4882	42.2	10
Adams	12664	373.6	5	4903	44.0	9
Allamakee	11065	345.6	3	3734	35.5	8
Appanoose	11222	347.5	0	3829	36.0	6
Audubon	11876	332.2	4	3691	31.4	9
Benton	12109	308.6	1	3125	24.2	10
Black Hawk	12575	329.6	0	3841	30.6	7
Boone	13558	356.5	0	4851	38.8	10
Bremer	12049	308.4	1	3104	24.2	6
Buchanan	11857	363.3	2	4384	40.8	8
Buena Vista	12456	297.0	4	2854	20.7	10
Butler	11203	322.9	3	3259	28.6	11
Calhoun	11899	317.1	4	3307	26.8	9
Carroll	14639	413.6	4	6537	56.2	8
Cass	13300	341.7	3	4389	34.3	7
Cedar	13294	343.2	5	4425	34.7	9
Cerro Gordo	13177	321.1	0	3781	28.0	7
Cherokee	12896	348.2	4	4416	36.2	8
Chickasaw	12521	367.2	4	4714	42.0	9
Clarke	10642	296.8	1	2434	20.6	8
Clay	11647	290.7	4	2473	18.8	11
Clayton	11741	362.4	6	4323	40.6	7
Clinton	12026	304.5	2	2983	23.0	9
Crawford	11686	339.5	6	3806	33.6	10
Dallas	13617	316.5	0	3765	26.6	7
Davis	9946	284.8	3	1951	17.0	9
Decatur	9117	290.8	2	1939	18.8	9
Delaware	11579	363.0	5	4276	40.8	9
Des Moines	12684	292.7	0	2761	19.4	7
Dickinson	14663	366.5	1	5503	41.8	8
Dubuque	12663	332.7	1	3949	31.5	6
Emmet	9929	243.5	3	595	4.4	11
Fayette	11130	342.5	4	3689	34.5	7
Floyd	11869	359.1	1	4302	39.6	10
Franklin	10735	291.1	5	2291	18.9	11
Fremont	14342	337.4	5	4609	33.0	8
Greene	12114	287.1	6	2452	17.7	11
Grundy	13807	348.9	2	4748	36.5	10
Guthrie	12470	367.0	4	4690	42.0	10
Hamilton	14793	335.2	4	4690	32.3	8
Hancock	10808	289.3	3	2255	18.3	10
Hardin	12727	325.0	2	3761	29.2	12
Harrison	11802	330.6	6	3629	30.9	8
Henry	13338	348.2	0	4567	36.2	9
Howard	12404	399.1	5	5288	51.7	8
Humboldt	12296	338.1	5	3969	33.2	9
Ida	12447	312.3	5	3321	25.3	10
Iowa	12366	300.7	4	2952	21.8	8
Jackson	11095	315.2	4	3036	26.2	7
Jasper	13717	340.8	1	4502	34.0	7

Table 3. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1971-1991
(continued).

County	Change in Per Capita Income, 1971-1991			Change in Adjusted Per Capita Income, 1971-1991		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Jefferson	11731	324.3	2	3450	29.0	7
Johnson	14786	395.6	0	6228	50.7	5
Jones	9869	274.9	4	1650	14.0	10
Keokuk	11318	299.0	4	2652	21.3	10
Kossuth	11509	315.5	5	3157	26.3	10
Lee	11836	310.6	0	3111	24.8	8
Linn	14688	334.5	0	4635	32.1	6
Louisa	11842	310.7	6	3115	24.8	7
Lucas	11870	316.4	3	3282	26.6	8
Lyon	11853	327.9	5	3577	30.1	11
Madison	12946	325.1	2	3829	29.2	9
Mahaska	11939	326.7	2	3573	29.7	7
Marion	13392	337.7	0	4312	33.1	8
Marshall	13037	280.6	0	2400	15.7	8
Mills	15784	374.6	1	6138	44.3	7
Mitchell	13288	391.4	6	5515	49.4	8
Monona	11339	305.9	6	2852	23.4	10
Monroe	12047	355.7	1	4293	38.5	8
Montgomery	12767	321.5	3	3675	28.1	9
Muscatine	14212	343.1	0	4729	34.7	6
O'Brien	13239	355.1	4	4704	38.4	10
Osceola	11834	304.5	4	2937	23.0	8
Page	11972	302.6	2	2913	22.4	8
Palo Alto	11714	310.9	6	3087	24.9	9
Plymouth	13807	391.9	5	5741	49.5	6
Pocahontas	12400	325.5	7	3677	29.3	11
Polk	16504	352.2	0	5776	37.5	3
Pottawattamie	12625	329.8	0	3861	30.7	9
Poweshiek	13082	331.9	1	4057	31.3	10
Ringgold	10233	291.4	5	2192	19.0	9
Sac	11756	313.4	7	3168	25.7	11
Scott	14462	335.5	0	4594	32.4	6
Shelby	14077	399.7	4	6013	51.9	8
Sioux	11787	331.6	5	3648	31.2	7
Story	12306	347.4	0	4197	36.0	5
Tama	11991	315.6	3	3291	26.3	8
Taylor	10716	345.9	4	3623	35.6	8
Union	11985	344.7	1	4024	35.2	8
Van Buren	9956	303.0	2	2433	22.5	9
Wapello	11465	299.0	0	2687	21.3	8
Warren	13193	337.2	0	4237	32.9	8
Washington	11934	285.3	4	2357	17.1	10
Wayne	10758	329.0	4	3271	30.4	9
Webster	12817	321.9	2	3700	28.2	8
Winnebago	12309	308.9	4	3185	24.3	11
Winneshiek	12226	404.4	2	5305	53.3	7
Woodbury	12965	318.0	0	3631	27.1	6
Worth	12255	352.0	6	4283	37.4	10
Wright	13085	322.7	4	3801	28.5	10
State of Iowa	13300	336.6	0	4254	32.7	7

Table 4. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1981-1991.

County	Change in Per Capita Income, 1981-1991			Change in Adjusted Per Capita Income, 1981-1991		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Adair	6930	72.7	2	2728	19.9	6
Adams	6401	66.3	2	2145	15.4	5
Allamakee	5812	68.7	2	2084	17.1	4
Appanoose	5683	64.8	0	1817	14.4	3
Audubon	5371	53.3	2	927	6.4	4
Benton	5305	49.5	1	575	3.7	6
Black Hawk	5170	46.1	0	223	1.4	4
Boone	6269	56.5	0	1378	8.6	5
Bremer	5856	58.0	1	1403	9.6	3
Buchanan	5512	57.4	2	1275	9.2	4
Buena Vista	5293	46.6	2	285	1.7	5
Butler	4591	45.5	2	146	1.0	7
Calhoun	4158	36.2	2	-910	-5.5	5
Carrroll	6223	52.1	2	952	5.5	4
Cass	6279	57.5	1	1467	9.3	3
Cedar	5876	52.0	2	897	5.5	5
Cerro Gordo	6349	58.1	0	1529	9.7	4
Cherokee	5973	56.2	2	1287	8.4	3
Chickasaw	5909	59.0	2	1490	10.3	4
Clarke	5426	61.7	0	1545	12.2	5
Clay	4698	42.9	3	-133	-0.8	6
Clayton	6391	74.4	4	2603	21.0	4
Clinton	5161	47.7	2	392	2.5	6
Crawford	4794	46.4	3	238	1.6	6
Dallas	6635	58.8	0	1659	10.2	4
Davis	5086	60.9	1	1403	11.7	6
Decatur	5015	69.3	1	1824	17.5	4
Delaware	5748	63.7	3	1770	13.6	5
Des Moines	6136	56.4	0	1338	8.5	4
Dickinson	7819	72.1	0	3037	19.4	4
Dubuque	6469	64.7	1	2060	14.3	3
Emmet	2788	24.9	2	-2158	-13.4	7
Fayette	5382	59.8	3	1415	10.9	4
Floyd	5301	53.7	1	948	6.7	6
Franklin	3483	31.8	4	-1341	-8.5	6
Fremont	7257	64.0	3	2259	13.8	4
Greene	4526	38.3	3	-680	-4.0	5
Grundy	5386	43.5	2	-72	-0.4	5
Guthrie	5839	58.2	2	1417	9.8	6
Hamilton	6791	54.7	2	1317	7.4	4
Hancock	3053	26.6	2	-2014	-12.2	6
Hardin	5289	46.6	2	283	1.7	6
Harrison	5362	53.6	3	948	6.6	4
Henry	6887	67.0	0	2353	15.9	5
Howard	6027	63.5	3	1845	13.5	5
Humboldt	4385	38.0	4	-707	-4.2	5
Ida	5912	56.2	2	1273	8.4	5
Iowa	6125	59.2	2	1560	10.5	5
Jackson	5313	57.1	3	1212	9.0	4
Jasper	6482	57.6	1	1517	9.3	3

Table 4. Change in Per Capita Income and Adjusted Per Capita Income for Iowa Counties, 1981-1991 (continued).

County	Change in Per Capita Income, 1981-1991			Change in Adjusted Per Capita Income, 1981-1991		
	Dollars	Percent	Years Decreased	Dollars	Percent	Years Decreased
Jefferson	6086	65.7	1	2002	15.0	3
Johnson	7626	70.0	0	2821	18.0	2
Jones	4374	48.1	3	368	2.8	6
Keokuk	4930	48.5	1	444	3.0	6
Kossuth	4219	38.6	3	-604	-3.8	5
Lee	5243	50.4	0	656	4.4	5
Linn	7515	65.0	0	2416	14.5	3
Louisa	5116	48.5	4	470	3.1	4
Lucas	5874	60.3	1	1576	11.2	4
Lyon	5313	52.3	2	835	5.7	6
Madison	7144	73.0	1	2830	20.1	5
Mahaska	5300	51.5	2	762	5.1	4
Marion	6515	60.1	0	1734	11.1	4
Marshall	6251	54.7	0	1210	7.3	4
Mills	9881	97.7	0	5421	37.2	3
Mitchell	6562	64.8	3	2099	14.4	4
Monona	3782	33.6	3	-1185	-7.3	6
Monroe	6320	69.3	0	2301	17.5	4
Montgomery	5829	53.4	1	1019	6.5	5
Muscatine	6808	59.0	0	1717	10.3	3
O'Brien	6002	54.7	2	1167	7.4	6
Osceola	5092	47.9	2	406	2.7	4
Page	6104	62.1	0	1772	12.5	4
Palo Alto	4373	39.4	4	-525	-3.3	5
Plymouth	7366	73.9	2	2973	20.7	2
Pocahontas	3962	32.3	4	-1438	-8.1	6
Polk	8856	71.8	0	3418	19.2	0
Pottawattamie	6373	63.2	0	1929	13.3	5
Poweshiek	6444	60.9	0	1779	11.7	6
Ringgold	4926	55.9	3	1038	8.2	5
Sac	3593	30.2	4	-1660	-9.7	6
Scott	6884	57.9	0	1642	9.6	3
Shelby	7233	69.8	2	2662	17.8	3
Sioux	5229	51.7	2	770	5.3	3
Story	6208	64.4	0	1958	14.1	2
Tama	4800	43.7	2	-46	-0.3	4
Taylor	5109	58.7	2	1271	10.1	4
Union	5936	62.3	0	1736	12.6	4
Van Buren	5269	66.1	1	1754	15.3	5
Wapello	5577	57.4	0	1290	9.2	3
Warren	7190	72.5	0	2818	19.7	3
Washington	4564	39.5	2	-530	-3.2	6
Wayne	4912	53.9	2	893	6.8	5
Webster	5826	53.1	2	988	6.2	4
Winnebago	5993	58.2	2	1451	9.8	6
Winneshiek	7130	87.8	2	3550	30.3	4
Woodbury	6260	58.1	0	1506	9.7	3
Worth	5770	57.9	2	1375	9.6	6
Wright	5248	44.1	3	5	0.0	6
State of Iowa	6439	59.6	0	1672	10.7	4

increase each year as was the case before adjustment (Table 2). Instead, there were seven times (1973 to 1974, 1978 to 1979, 1979 to 1980, 1981 to 1982, 1982 to 1983, 1986 to 1987, 1990 to 1991) when it declined. The purchasing power of Iowa's residents was greater in 1978 than it was through the 1980s until 1988. In addition, it was lower in 1983 than any year since 1974.

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 9 years, \$8,000-\$8,999 in 5 years, and more than \$9,000 in 1973, 1988, and 1990. Adjusted per capita income increased in all Iowa counties from 1971 to 1972, but that was the only time period when that happened. More than 90 counties had decreases from 1973 to 1974, 1978 to 1979, 1979 to 1980, and 1981 to 1982 when per capita income was adjusted for inflation. Declines occurred in 65 counties from 1990 to 1991. 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 1971 and 1991, Iowa's adjusted per capita income increased by \$4,254 and all of the counties experienced gains (Table 3). Four counties (Carroll, Johnson, Mills, Shelby) increased by at least \$8,000; six others (Dickinson, Howard, Mitchell, Plymouth, Polk, Winneshiek) had gains between \$5,000 and \$5,999. Emmet had the smallest gain (+\$595); three others (Davis, Decatur, Jones) increased less than \$2,000. None of the counties had increases in adjusted per capita income in all 20 year-to-year comparisons from 1971 through 1991. Polk declined only three times, while Johnson and Story had five decreases. Nineteen counties declined in 10 instances when adjacent years were compared, nine (Butler, Clay, Emmet, Franklin, Greene, Lyon, Pocahontas, Sac, Winnebago) declined 11 times, and Hardin had losses in 12 of the 20 comparisons.

The state's percentage increase in adjusted per capita income from 1971 to 1991 was 32.7%. Gains across counties ranged from less than 20% in 12 counties to more than 50% in five others. These percentage increases for adjusted per capita income were much less dramatic than those for the unadjusted figures. The adjusted numbers, however, represent real gains in buying power after the effect of inflation was removed.

When the span of change is shortened to 1981-1991, again per capita income increased in every county (Table 4). The state and 27 counties had no instances when per capita income decreased from one year to the next during this period, although declines occurred four times in seven counties (Clayton, Franklin, Humboldt, Louisa, Palo Alto, Pocahontas, Sac). The gain in per capita income was \$6,439 from 1981 to 1991, an increase of nearly 60%.

When income in 1981 is adjusted for inflation that occurred from that year to 1991, however, the increase is reduced to \$1,672 (+10.7%) (Table 4). In four of the year-to-year comparisons, adjusted per capita income declined in Iowa during those years. Butler and Emmet reported decreases in 7 of the 10 comparisons; declines occurred in 6 years for 23 others. Only Polk had an increase in adjusted per capita income each year. Fifteen counties noted adjusted figures lower at the end of the period than at the beginning, suggesting that they had lost buying power; in only two counties (Emmet, Hancock) were the declines greater than 10%, however. On the other hand, percentage gains of at least 10% occurred in 40 counties, with five at 20% or higher (Clayton, Madison, Mills, Plymouth, Winneshiek) when the 1981 and 1991 figures for adjusted per capita income were compared.

Estimated Employment and Unemployment in Iowa's Counties: 1978-1992

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Iowa's labor force was estimated to include 1,551,000 people in 1992, which is the highest figure reported for the period included in Table 1 (1978-1992). Although the state's labor force grew steadily from 1978 to 1980, it then generally declined through 1984. The pattern changed back to growth from 1984 to 1985 and increases occurred each year until a decline from 1989 to 1990. Since then, increases occurred. The gain of 34,000 from 1991 to 1992 was exceeded only by the increase of 51,000 between 1987 and 1988. Labor force data include persons who are unemployed and looking for work as well as those who are already employed. This information is estimated by the Iowa Department of Employment Services in cooperation with the Bureau of Labor Statistics of the U.S. Department of Labor; the methods used are consistent from state to state. The information on unemployment includes the number of persons receiving unemployment benefits plus an estimate of the number unemployed who do not receive such benefits. The data on employment are derived from monthly surveys of those employed in nonfarm jobs plus estimates of those self-employed and those working on farms. Additional factors are applied to account for multiple job holders, commuters, and new and re-entering workers.

In 1992, Polk county had 208,500 in the labor force, more than double the next two highest counties (Linn, Scott). Adams and Ringgold, in contrast, reported fewer than 3,000 in the labor force.

Polk's labor force increased by 43,000 between 1982 and 1992. Johnson, Linn, Scott, Story, and Woodbury each had gains of more than 5,000. Although Iowa had 134,000 more people in the labor force in 1992 than in 1982, 43 counties had a smaller labor force at the end of the period. Of these 43 counties, 11 had declines of more than 1,000, with the decreases of 2,800 in Black Hawk and 2,010 in Clinton the only ones above 2,000.

Employment

Employment in Iowa in 1992 (1,479,000) was 31,000 above that for 1989 (Table 2), which was the previous high point in the period examined. The annual gains recorded from 1985 through 1989 and again from 1990 to 1992 show that the state rebounded from employment losses from 1979 through 1982 and from 1984 to 1985.

In Iowa's counties in 1992, the number employed ranged from under 3,000 in Adams and Ringgold to more than 200,000 in Polk. Seventeen counties were in the 3,000 to 4,999 range. Five urban counties (Black Hawk, Johnson, Linn, Scott, Woodbury), in addition to Polk, had more than 50,000 employed in 1992; another 29 had employment totals ranging from 10,000 to 45,000.

The state had 183,000 more employed persons in 1992 than in 1982, an increase of 14.1%. Polk increased the most (48,000) and Johnson was second (18,500); Linn and Scott were the only other counties gaining at least 10,000 employees. Polk, Johnson, Linn, and Scott together accounted for more than half (53.6%) of the state's gain in employment from 1982 to 1992. Thirty-one counties had lower numbers employed in 1992 than in 1982. Six (Crawford, Fremont, Hardin, Kossuth, Mills, Tama) had decreases of at least 1,000, with the drop of 1,600 in Kossuth the greatest decline.

Table 1. Labor Force Estimates in Iowa Counties, 1978-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	4630	4500	4520	4550	4620	4410	4450	4430	4420	4560	4440	4450	4560	4600	4760
Adams	2980	2970	2990	3100	3190	3050	2920	2870	3030	2780	2660	2590	2690	2640	2650
Allamakee	7480	7440	7380	7680	7630	7470	7510	7390	7380	7150	6990	6920	7040	7160	7380
Appanoose	6870	6750	6440	6530	6600	6320	6150	5850	5910	5780	6020	6020	6110	6150	5950
Audubon	3770	3690	3600	3510	3490	3490	3660	3740	3880	4090	4050	4100	4060	4110	4200
Benton	10670	10530	10960	10790	10800	10230	10730	10650	10660	10830	10940	10910	11200	11040	10860
Black Hawk	64400	62800	61100	61400	60600	58060	59220	59880	61710	64950	67170	68690	69500	68920	67850
Boone	12440	12460	12410	12800	12890	12040	12250	11940	12070	12310	12090	12290	12300	12570	12540
Bremer	12100	11800	11500	10700	10500	10120	10120	10190	10590	11190	10720	10610	10920	10640	10700
Buchanan	10360	10160	9870	9950	10080	9810	9970	9900	10130	11270	11110	10910	11250	10940	10800
Buena Vista	12160	11730	11120	11350	11630	11090	10940	10990	10930	11110	10330	10560	10750	10570	10540
Butler	7900	7610	7360	7450	7350	7470	7660	7730	7920	8140	7820	7880	8290	8190	8340
Calhoun	5740	5590	5500	5510	5560	5450	5580	5660	5790	6150	6200	6200	6240	6120	6030
Carroll	12280	11850	11610	11720	11440	11120	11160	11080	11200	12270	12050	12180	11700	11610	11460
Cass	8390	8030	8120	8520	8400	8260	8340	8510	8780	9250	8970	8910	8890	8920	9070
Cedar	9730	9690	9580	9670	9560	9030	8980	8880	9020	8440	8520	8290	8370	8550	8540
Cerro Gordo	26440	26690	26020	26370	26490	25610	25570	25450	24710	24110	23920	24620	24090	24200	24430
Cherokee	7140	7050	6910	7010	7120	7100	7510	7450	7550	7740	7610	7630	7710	7830	7910
Chickasaw	7350	7220	7220	7320	7220	7170	7320	7470	7340	7330	7130	7170	7340	7100	7180
Clarke	4500	4630	4500	4590	4440	4200	4140	4010	3920	4700	4550	4710	4820	4570	4400
Clay	9070	8920	9040	9270	9240	8780	8750	8890	9150	9810	9900	10080	10240	10340	10190
Clayton	10210	9770	9850	10200	10220	9770	10010	9930	10110	10540	10320	10250	10300	10460	10270
Clinton	24560	24000	23450	23820	23790	23030	23230	23260	23940	25570	26570	26960	28050	27630	26900
Crawford	8610	8400	8460	8980	9200	9120	9150	9060	9240	10470	10230	10130	9840	9810	9730
Dallas	17700	17100	16800	17000	16300	15480	15200	15020	15820	15520	13560	13300	13450	13180	13600
Davis	4050	3870	3810	3840	3870	3740	3860	3680	3760	3700	3720	3690	3600	3650	3650
Decatur	3920	3890	3830	3930	3820	3940	4070	4230	4090	3980	4160	4070	4160	3960	4010
Delaware	9050	8980	8880	8880	8720	8410	8420	8490	8760	9140	8960	8880	8950	8790	8600
Des Moines	23200	22970	22530	23100	23020	22480	22120	21410	21520	19060	19240	19600	19720	19540	19620
Dickinson	11280	10410	10050	9780	9340	8770	8650	8510	8670	7700	7480	7430	7380	7560	7710
Dubuque	46600	45800	44400	44900	44700	43590	43360	42330	41900	42750	43100	44980	45670	45590	45740
Emmet	5190	5170	5030	5050	5100	5070	5220	5410	5690	5920	6160	6340	6280	6260	6240
Fayette	10830	10540	10410	10550	10610	10380	10870	11130	11470	11530	11420	11370	11560	11790	12020

Table 1. Labor Force Estimates in Iowa Counties, 1978-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Floyd	8660	8570	8530	8730	8720	8410	8390	8470	8620	7680	7740	7750	7980	8130	8250
Franklin	5280	5120	5240	5290	5340	5480	5710	5770	5670	6300	6350	6280	6540	6490	6490
Fremont	4210	4070	4120	4300	4300	4290	4350	4590	4830	6030	5820	5800	5580	5620	5110
Greene	5280	5020	4900	5230	5190	5190	5290	5320	5400	5350	5320	5300	5640	5660	5630
Grundy	6970	6770	6740	6770	6670	6480	6660	6750	6980	6410	6290	6170	6200	6190	6340
Guthrie	5400	5460	5340	5390	5260	5210	5370	5320	5280	5750	5670	5590	5750	5530	5520
Hamilton	10440	10040	9840	10400	10200	9420	9420	9150	9270	9160	8990	8960	8650	8720	8580
Hancock	6100	6130	6390	6430	6350	6070	6130	6180	6100	6680	6740	7070	7120	7280	6840
Hardin	9720	9780	9710	9580	9760	9790	9950	9960	10120	10880	10860	10950	10890	10970	10890
Harrison	7180	6980	6890	6960	7040	6800	6830	6930	7080	7460	7330	7130	7180	7220	7110
Henry	12620	12210	12080	12280	11830	10910	10440	9970	9460	10000	9860	9940	9900	10120	10750
Howard	5250	5040	4970	5030	5090	4970	4990	5060	5030	5520	5400	5390	5610	5470	5470
Humboldt	5490	5380	5380	5330	5510	5260	5430	5510	5550	5510	5430	5520	5460	5550	5910
Ida	4620	4480	4670	4740	4720	4370	4210	4160	4150	4480	4320	4170	4250	4450	4600
Iowa	9210	8640	8300	8620	8370	8140	8100	8050	8270	8970	8650	8970	9250	8940	9130
Jackson	11410	11100	10820	10880	10800	10270	9980	10100	10130	10480	10390	10300	10390	10380	10280
Jasper	18050	18140	18110	17950	18120	17710	17220	17380	17370	16010	15870	16040	16420	16390	16590
Jefferson	9420	9120	8980	9220	9180	8470	8530	8080	7980	7490	7570	7720	7840	7850	7570
Johnson	63900	62000	60900	62000	60600	59520	58130	54750	53960	48280	45980	44620	43720	42860	42630
Jones	9640	9440	9450	9430	9150	8850	8870	8750	8780	9780	9910	9690	10020	9920	9830
Keokuk	5440	5490	5580	5820	5700	5540	5830	5940	5770	5320	5310	5220	5240	5410	5410
Kossuth	9100	9040	9090	9250	9190	9080	9560	9780	9760	11170	11060	11090	11410	11490	11370
Lee	18790	18850	18310	18450	18520	18450	18700	18630	18810	20210	20620	21390	21430	21760	21730
Linn	99100	97000	96600	97700	96500	91790	89340	85720	83960	84650	85570	87890	89620	88490	84730
Louisa	8490	8220	7970	7800	7790	6610	5860	5110	4960	4890	5600	6160	5370	4550	4590
Lucas	5110	5000	4980	4940	4930	4810	4950	5000	4990	4670	4620	4630	4550	4570	4660
Lyon	6420	6170	6180	6170	6040	5780	5890	5590	5720	6130	6080	6020	6360	6450	6620
Madison	6210	6180	6170	6170	6290	5970	5800	5570	5640	5700	5720	5780	5860	5960	5970
Mahaska	10730	10580	10470	10500	10540	10180	10150	10060	9940	9790	9660	9850	9940	10320	10390
Marion	16890	16410	16270	16370	16190	15560	15010	14260	13930	16170	15940	16330	16270	16000	15670
Marshall	20080	20260	20090	20280	19950	19350	19920	19720	20510	19570	19680	19320	19370	19110	19890
Mills	5560	5540	5420	5610	5620	5460	5570	5850	6050	6450	6570	6410	6410	6420	6390
Mitchell	5850	5700	5700	5830	5770	5640	5760	5760	5650	6120	6090	6070	6000	5930	5990

Table 1. Labor Force Estimates in Iowa Counties, 1978-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Monona	4730	4630	4650	4780	4780	4670	4790	4890	5100	5470	5350	5300	5400	5430	5400
Monroe	4210	4200	4070	4000	3700	3670	3710	3870	3810	4330	4400	4930	4850	4940	5030
Montgomery	6070	6120	6290	6460	6130	5870	5900	6080	6320	6480	6370	6350	6570	6690	6370
Muscatine	22170	21600	21590	21630	21400	20980	21070	20760	20480	21610	21640	21510	20360	19800	19750
O'Brien	8480	8180	8040	8080	8070	7760	7750	7720	7900	8270	7970	7770	7880	7730	8070
Osceola	3690	3600	3550	3540	3500	3420	3480	3510	3690	3510	3540	3520	3440	3590	3620
Page	8730	8470	8440	8450	8410	8130	8400	8570	8750	9020	9080	8940	9020	9190	9750
Palo Alto	5390	5110	5050	5240	5230	5190	5190	5380	5640	5630	5510	5400	5480	5380	5510
Plymouth	13620	13400	12810	12510	12490	12140	11900	11720	11650	11490	11320	11320	11420	11440	11450
Pocahontas	4890	4870	4900	4960	4920	4820	4820	4830	5000	4750	4780	4770	4720	4890	4960
Polk	208500	201800	197700	199100	196100	186320	179650	171370	166850	163030	165450	165500	165770	164470	164100
Pottawattamie	46700	45900	45800	48700	48300	47330	46800	44890	46070	41920	42170	41990	41170	43540	42110
Poweshiek	10590	10440	10620	10920	10830	10300	9980	9710	9490	10260	10230	10090	10170	10320	10170
Ringgold	2590	2490	2480	2580	2590	2520	2610	2580	2670	3340	3300	3300	3230	3270	3300
Sac	5640	5530	5500	5690	5690	5560	5700	5710	6030	6200	6250	6220	6390	6400	6630
Scott	85500	83700	81900	82800	83700	81570	80900	75880	72770	72410	74620	75760	75050	73780	68780
Shelby	6830	6810	6700	6850	6910	6690	6890	7050	7060	6820	6730	6750	6570	6460	6490
Sioux	17430	16740	16590	16390	15980	15150	14900	15160	14890	16560	15790	15790	16200	16070	15570
Story	43380	42660	42380	42550	42080	40100	39610	38950	38500	39240	38170	37960	38470	38230	39020
Tama	8400	8500	8620	8870	8920	8870	8860	8680	8440	9800	9740	9430	9680	9610	9850
Taylor	3480	3520	3320	3360	3330	3390	3510	3540	3640	3570	3540	3480	3500	3490	3560
Union	6800	6520	6560	6620	6540	6330	6370	6200	6320	7320	7350	7320	7160	7360	7160
Van Buren	3630	3490	3470	3630	3650	3750	3780	3740	3700	3910	3850	3890	3820	3760	3820
Wapello	16450	16280	15730	15840	15700	15440	16260	16420	16910	16400	16490	16900	17150	17280	16710
Warren	22300	21600	21200	20600	20400	19290	18540	18580	18850	18290	18540	18680	18850	18480	18460
Washington	9850	9650	9500	9520	9510	9470	9600	9580	9690	9740	9630	9810	9880	10040	10220
Wayne	3350	3180	3230	3280	3250	3220	3260	3270	3370	3810	3760	3790	3710	3820	3860
Webster	20930	20610	20460	20810	20800	20200	20570	20880	21180	21600	22000	22530	22920	22950	22970
Winnebago	7320	6850	7300	7640	7790	7350	7120	7250	7330	6260	5820	5690	5860	6800	7640
Winneshiek	13930	13520	13380	13120	12050	12350	12330	11940	11840	12120	11880	11640	11340	10990	11090
Woodbury	54500	53300	51900	52300	51800	51200	49310	48250	48400	46790	45890	47000	46110	48890	50890
Worth	4990	5020	5160	4980	4870	4650	4430	4450	4550	4010	3830	3810	3970	3890	3990
Wright	7890	7870	7760	7970	7790	7500	7640	8000	8350	8240	7980	7660	7630	7870	7930
State of Iowa	1551000	1517000	1496000	1513000	1500000	1449000	1439000	1412000	1411000	1420000	1417000	1427000	1432000	1425000	1418000

Table 2. Estimates of the Number Employed in Iowa Counties, 1978-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	4460	4350	4380	4380	4480	4260	4250	4220	4220	4310	4250	4270	4370	4450	4580
Adams	2880	2850	2880	3000	3100	2940	2800	2710	2890	2630	2510	2480	2580	2530	2560
Allamakee	7040	7030	6940	7220	7240	6980	6930	6620	6690	6520	6340	6310	6470	6720	7010
Appanoose	6430	6280	5980	6120	6200	5860	5570	5190	5280	5020	5170	5410	5460	5710	5410
Audubon	3640	3580	3460	3380	3370	3310	3380	3420	3600	3830	3840	3910	3910	4000	4080
Benton	10110	9910	10330	10300	10330	9620	9910	9750	9950	9880	9580	10090	10630	10710	10550
Black Hawk	60600	59200	58000	58100	57100	53190	51650	51260	54300	56350	59010	63170	64630	65690	64630
Boone	11920	11910	11950	12300	12430	11410	11480	11160	11400	11390	11220	11670	11730	12140	12130
Bremer	11500	11300	11100	10300	10100	9400	9140	9230	9780	10160	9680	9890	10280	10270	10330
Buchanan	9720	9560	9320	9440	9590	9120	9040	8790	9090	9960	10030	10140	10540	10520	10400
Buena Vista	11890	11500	10890	11100	11310	10720	10450	10450	10440	10560	9580	10090	10410	10320	10190
Butler	7340	7100	6980	7090	6960	6930	6930	6980	7280	7270	7040	7290	7780	7950	8080
Calhoun	5540	5400	5340	5360	5360	5190	5230	5220	5480	5800	5830	5920	6030	5960	5860
Carroll	11930	11410	11120	11180	10940	10480	10370	10190	10540	11500	11160	11370	11070	11220	11030
Cass	7960	7610	7670	8160	8050	7790	7820	7840	8080	8740	8490	8460	8520	8670	8770
Cedar	9370	9380	9290	9370	9200	8630	8450	8280	8570	7890	7940	7950	8090	8360	8350
Cerro Gordo	24960	25320	24690	25110	25160	24140	23750	23390	23010	22220	22020	22860	22610	22950	23270
Cherokee	6920	6840	6700	6770	6860	6660	7000	7050	7190	7360	7210	7200	7420	7620	7660
Chickasaw	6870	6730	6790	6930	6830	6630	6570	6560	6590	6360	6290	6400	6550	6760	6800
Clarke	4190	4300	4250	4350	4160	3930	3790	3650	3600	4350	4150	4380	4520	4380	4180
Clay	8760	8600	8800	9010	8950	8360	8210	8200	8440	9270	9340	9510	9760	9990	9680
Clayton	9620	9190	9300	9630	9640	9110	9190	8860	9190	9570	9270	9410	9480	9960	9830
Clinton	22890	22300	21920	22230	22170	21250	21120	20750	21570	22560	23260	24760	26470	26530	25900
Crawford	8250	8030	7980	8310	8560	8670	8600	8450	8690	9900	9580	9640	9490	9410	9360
Dallas	17000	16500	16200	16000	15700	14800	14230	14140	14980	14480	12580	12460	12670	12690	13040
Davis	3790	3600	3650	3630	3610	3420	3440	3320	3450	3270	3330	3390	3400	3490	3450
Decatur	3660	3670	3620	3800	3630	3700	3750	3930	3830	3650	3910	3850	3960	3800	3860
Delaware	8550	8500	8450	8360	8320	7920	7750	7550	8020	8190	8030	8150	8270	8480	8250
Des Moines	21730	21570	21330	21750	21610	20990	20210	19130	19470	16550	16770	17650	18150	18560	18620
Dickinson	10940	10080	9750	9490	8970	8300	7970	7710	8060	7120	6920	6970	6980	7230	7380
Dubuque	44000	43000	41900	42200	42300	40920	40000	38280	38320	37580	36960	40150	41760	43040	43330
Emmet	4880	4860	4760	4760	4800	4630	4580	4610	5070	5120	5380	5910	5940	6040	6030
Fayette	10200	9960	9930	10080	10120	9710	9880	10000	10470	10370	10220	10610	10780	11220	11470

Table 2. Estimates of the Number Employed in Iowa Counties, 1978-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Floyd	8020	7980	8030	8290	8230	7770	7500	7170	7770	6370	6620	6800	6960	7650	7670
Franklin	5010	4860	4960	5060	5070	5090	5310	5350	5290	5800	5910	6020	6280	6310	6320
Fremont	3970	3870	3970	4140	4130	4090	4050	4200	4470	5740	5550	5620	5440	5490	4960
Greene	5020	4740	4620	4880	4940	4900	4890	4820	4970	4920	4870	4920	5290	5490	5430
Grundy	6730	6540	6550	6580	6410	6200	6260	6340	6600	5920	5910	5930	5920	6040	6120
Guthrie	5130	5160	5090	5060	5060	4930	4960	4940	4960	5420	5320	5270	5480	5350	5320
Hamilton	9980	9660	9410	10030	9900	9040	8860	8570	8710	8570	8450	8450	8250	8420	8240
Hancock	5710	5760	5980	6130	6140	5760	5650	5590	5760	6250	6210	6710	6590	6940	6600
Hardin	9260	9270	9310	9190	9250	9140	9340	9370	9510	10360	10340	10480	10520	10730	10640
Harrison	6740	6570	6580	6560	6600	6360	6290	6290	6540	6820	6730	6750	6860	6900	6830
Henry	12090	11730	11710	11810	11370	10360	9830	9230	8760	9190	9060	9180	9320	9750	10350
Howard	5030	4840	4770	4760	4770	4700	4590	4590	4670	5090	4960	5050	5260	5250	5230
Humboldt	5310	5170	5200	5160	5350	5020	5050	5080	5170	5110	5070	5220	5170	5330	5720
Ida	4510	4340	4550	4610	4600	4230	4040	3950	3980	4340	4180	4040	4110	4340	4500
Iowa	8970	8410	8060	8420	8150	7870	7650	7530	7930	8550	8070	8550	8980	8730	8950
Jackson	10740	10420	10150	10100	10000	9490	9050	8920	9140	9070	8990	9260	9480	9770	9660
Jasper	17310	17320	17410	17210	17370	16850	16110	16300	16230	14630	14180	14760	15160	15670	15950
Jefferson	8910	8690	8590	8770	8740	7880	7850	7500	7470	6870	6790	7190	7370	7550	7320
Johnson	62500	60900	59900	61000	59400	58310	56590	53040	52640	46570	44040	42510	42190	41720	41630
Jones	9090	8960	8990	9040	8790	8350	8270	8010	8120	8950	9010	9080	9470	9610	9520
Keokuk	5070	5180	5290	5530	5380	5200	5350	5450	5320	4810	4750	4670	4800	5130	5160
Kossuth	8660	8520	8630	8820	8730	8500	8810	8940	9120	10460	10260	10390	10720	10940	10960
Lee	17190	17280	17010	17060	16990	16660	16790	16680	16990	17960	18150	19460	19900	20730	20850
Linn	94600	92200	91600	94100	93000	87030	83780	79570	77940	77650	77300	80800	83800	85250	81880
Louisa	8080	7860	7660	7490	7500	6270	5450	4590	4540	4350	5270	5930	5160	4340	4330
Lucas	4780	4750	4690	4700	4720	4540	4660	4620	4650	4350	4260	4340	4280	4350	4400
Lyon	6260	6040	6050	6020	5870	5590	5620	5330	5460	5860	5880	5750	6100	6280	6450
Madison	5840	5800	5870	5850	5960	5660	5340	5160	5240	5230	5250	5370	5530	5730	5740
Mahaska	10230	10050	10030	10000	10160	9710	9460	9220	9320	9090	8860	9190	9390	9960	10050
Marion	16350	15810	15730	15820	15670	15010	14370	13700	13350	15420	15100	15670	15640	15590	15260
Marshall	19220	19450	19350	19510	19140	18170	18490	18170	18950	17490	17820	18130	18300	18400	19230
Mills	5280	5300	5170	5380	5410	5200	5180	5420	5710	6150	6280	6150	6210	6220	6230
Mitchell	5640	5480	5490	5630	5560	5360	5330	5210	5240	5530	5590	5570	5520	5610	5660

Table 2. Estimates of the Number Employed in Iowa Counties, 1978-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Monona	4480	4390	4450	4550	4490	4330	4390	4450	4700	5090	4960	4980	5100	5160	5130
Monroe	4000	3960	3840	3750	3440	3360	3230	3370	3320	3780	3780	4470	4510	4660	4750
Montgomery	5760	5830	5970	6140	5890	5590	5520	5550	5860	6080	5970	6010	6240	6520	6190
Muscatine	20890	20350	20480	20540	20290	19710	19540	19180	19060	19950	20130	20310	19380	18930	18850
O'Brien	8210	7990	7850	7900	7840	7450	7360	7350	7510	7920	7640	7450	7610	7520	7810
Osceola	3560	3480	3430	3400	3320	3250	3230	3240	3450	3270	3280	3300	3260	3440	3480
Page	8210	7930	8020	8040	8070	7700	7830	7870	8150	8320	8410	8510	8660	8930	9450
Palo Alto	5220	4910	4880	5050	5030	4990	4870	4920	5210	5170	5100	5050	5190	5170	5300
Plymouth	13160	12970	12450	12090	12000	11580	11240	10900	10970	10870	10670	10720	10940	10950	10970
Pocahontas	4730	4720	4780	4840	4780	4640	4580	4540	4750	4440	4420	4510	4540	4740	4820
Polk	200200	194000	191300	192000	188800	177970	169300	160110	156950	150850	152150	153370	156450	157590	157530
Pottawattamie	44300	43600	43700	46400	46000	44460	43530	41510	42580	39150	38780	38600	38630	41240	39990
Poweshiek	10190	10060	10240	10540	10500	9910	9480	9090	8930	9600	9540	9590	9640	9980	9860
Ringgold	2450	2370	2350	2460	2460	2340	2450	2400	2470	3050	3110	3180	3120	3160	3200
Sac	5450	5280	5220	5390	5360	5210	5240	5180	5490	5550	5560	5810	6080	6180	6400
Scott	80500	79300	77800	77900	78000	76200	74950	69640	66970	64630	66260	69750	71100	70770	65480
Shelby	6450	6440	6410	6520	6570	6310	6410	6420	6470	6430	6360	6410	6310	6220	6230
Sioux	17090	16420	16300	16060	15610	14560	14210	14430	14240	15910	15070	15040	15530	15560	15100
Story	42380	41680	41570	41840	41360	39160	38350	37640	37280	37570	36540	36440	37160	37330	38230
Tama	7930	8030	8220	8500	8510	8310	8190	8000	8020	9360	9270	9120	9410	9370	9580
Taylor	3310	3350	3180	3220	3200	3180	3260	3250	3380	3270	3320	3340	3360	3370	3440
Union	6500	6140	6260	6360	6230	5930	5950	5750	5800	6780	6890	6880	6800	7080	6880
Van Buren	3370	3240	3300	3350	3380	3420	3420	3360	3410	3530	3440	3580	3530	3600	3660
Wapello	15220	14960	14730	14780	14540	13870	14070	14460	15200	14310	14450	14930	15790	16100	15730
Warren	21500	20800	20600	20000	19700	18490	17670	17620	18010	17350	17500	17640	18000	17910	17910
Washington	9420	9260	9150	9130	9080	8910	8840	8790	9090	9020	8980	9240	9360	9660	9860
Wayne	3140	3040	3130	3180	3100	3040	3060	3030	3150	3540	3530	3620	3560	3680	3700
Webster	19720	19560	19450	19800	19800	18980	18980	19020	19520	19800	20220	21010	21590	21980	22170
Winnebago	7110	6530	6870	7350	7600	7070	6740	6730	7080	5930	5420	5320	5300	6350	7400
Winneshiek	13390	13040	12870	12550	11430	11610	11440	11030	11020	11240	11090	10810	10640	10420	10530
Woodbury	52100	50800	49800	50100	49000	47780	45250	44090	44800	43280	42170	43340	43160	45240	47670
Worth	4770	4750	4880	4740	4650	4410	4080	4040	4250	3690	3510	3500	3650	3650	3810
Wright	7520	7520	7470	7700	7490	7140	7180	7370	7870	7740	7530	7280	7260	7630	7720
State of Iowa	1479000	1447000	1433000	1448000	1433000	1369000	1338000	1300000	1312000	1305000	1296000	1328000	1350000	1366000	1361000

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1978-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	170	160	140	170	140	150	200	200	200	250	200	180	190	160	180
Adams	100	120	110	100	90	110	130	160	140	150	150	110	110	110	100
Allamakee	440	410	440	450	390	480	580	770	690	630	650	610	580	440	370
Appanoose	440	470	460	410	400	460	580	660	620	760	850	610	640	440	540
Audubon	120	120	140	130	120	190	280	320	280	260	210	180	140	110	130
Benton	560	610	630	490	480	620	810	900	710	950	1370	820	570	340	310
Black Hawk	3800	3600	3100	3300	3500	4870	7570	8620	7410	8590	8160	5520	4870	3230	3220
Boone	530	550	460	500	460	630	770	780	670	920	880	620	570	430	420
Bremer	600	500	400	400	400	710	980	960	810	1030	1040	720	640	370	370
Buchanan	630	600	540	520	490	680	930	1120	1040	1300	1080	770	710	420	400
Buena Vista	270	230	220	250	320	370	490	540	490	550	740	470	340	260	340
Butler	560	510	380	360	390	540	730	750	630	870	770	590	510	240	260
Calhoun	200	180	150	160	200	260	340	440	310	350	360	290	210	160	170
Carroll	350	430	490	540	500	640	790	880	660	760	890	820	630	390	430
Cass	430	430	450	370	360	470	520	680	700	510	470	450	370	250	300
Cedar	360	310	290	310	370	400	530	600	440	550	580	340	280	190	190
Cerro Gordo	1480	1370	1320	1260	1330	1470	1820	2060	1700	1890	1900	1760	1490	1250	1160
Cherokee	220	210	210	240	260	440	510	400	360	380	390	430	290	220	250
Chickasaw	480	500	440	400	400	540	760	910	760	970	840	770	780	340	390
Clarke	300	320	250	240	270	280	350	360	330	350	390	330	290	190	220
Clay	310	330	240	260	290	420	540	690	710	550	560	560	480	350	510
Clayton	590	580	550	570	580	660	820	1070	920	970	1050	840	820	500	440
Clinton	1670	1700	1530	1590	1620	1780	2110	2510	2370	3010	3310	2200	1590	1110	990
Crawford	360	370	480	670	640	460	550	620	560	570	650	490	350	400	360
Dallas	700	600	600	1000	600	690	970	880	840	1040	980	840	790	490	560
Davis	260	270	160	210	270	320	420	360	310	420	390	300	200	160	190
Decatur	260	220	220	130	200	240	310	300	260	330	250	220	200	160	160
Delaware	500	480	430	520	400	500	680	950	750	950	930	730	680	310	350
Des Moines	1470	1390	1200	1350	1410	1490	1910	2290	2060	2500	2470	1950	1580	990	1000
Dickinson	340	330	290	280	370	470	680	800	610	580	560	470	400	330	320
Dubuque	2600	2800	2500	2700	2400	2670	3370	4040	3580	5170	6140	4830	3910	2550	2410
Emmet	310	310	270	290	300	430	640	800	620	800	780	430	340	220	220
Fayette	630	580	480	470	490	670	990	1130	1000	1160	1200	770	780	570	550

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1978-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Floyd	640	600	490	440	490	630	890	1300	850	1310	1120	960	1020	480	580
Franklin	270	260	270	230	270	390	390	420	380	500	440	260	260	180	160
Fremont	240	210	150	160	170	200	300	390	360	290	270	180	130	140	150
Greene	260	280	280	350	250	290	400	500	430	430	440	380	350	170	200
Grundy	240	230	190	190	260	280	400	410	380	490	380	240	280	150	220
Guthrie	270	290	250	340	200	280	410	380	320	320	350	320	270	180	200
Hamilton	460	380	430	370	300	370	570	580	560	590	540	510	410	300	340
Hancock	390	370	410	300	220	300	480	600	340	430	520	370	530	340	240
Hardin	460	510	400	400	510	640	620	600	610	530	520	470	370	240	260
Harrison	440	400	310	400	440	440	530	630	530	640	600	390	320	320	280
Henry	530	480	370	470	450	550	610	740	700	810	800	760	590	370	390
Howard	220	210	210	270	310	270	390	470	360	430	440	350	350	220	240
Humboldt	180	210	190	170	160	240	380	420	380	400	370	300	290	220	190
Ida	110	140	120	130	130	140	170	210	170	150	140	130	140	110	110
Iowa	240	230	240	200	220	270	450	520	340	420	580	420	270	210	180
Jackson	670	680	670	780	810	770	930	1180	990	1410	1400	1040	910	620	620
Jasper	740	810	710	740	750	860	1110	1080	1140	1380	1680	1280	1260	720	650
Jefferson	500	440	380	440	440	590	680	580	510	620	780	540	470	300	260
Johnson	1300	1100	1000	900	1100	1210	1540	1710	1320	1710	1930	2110	1530	1140	1010
Jones	550	480	460	400	370	500	600	750	660	830	900	610	550	310	310
Keokuk	370	310	280	290	320	340	480	500	450	520	560	550	450	280	260
Kossuth	440	520	460	430	460	580	750	840	630	710	800	700	690	550	410
Lee	1610	1570	1300	1380	1530	1790	1920	1950	1820	2250	2470	1930	1540	1030	880
Linn	4500	4900	5000	3600	3600	4760	5560	6150	6020	7000	8270	7100	5820	3240	2860
Louisa	410	350	310	310	280	340	420	520	420	540	340	230	210	210	260
Lucas	330	250	290	230	210	270	300	380	340	320	360	290	280	220	260
Lyon	150	130	130	150	170	190	270	260	260	270	200	260	270	160	170
Madison	370	380	300	320	330	310	460	410	400	470	460	420	340	240	240
Mahaska	500	530	440	500	380	470	680	850	630	700	800	660	560	360	340
Marion	540	600	540	550	520	540	640	560	580	750	840	660	630	410	400
Marshall	860	800	740	770	810	1190	1430	1550	1560	2080	1860	1190	1070	710	660
Mills	280	240	240	230	210	270	390	430	340	300	290	260	210	200	160
Mitchell	210	230	220	210	210	280	430	550	410	590	490	500	480	320	320

Table 3. Estimates of the Number Unemployed in Iowa Counties, 1978-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Monona	250	240	200	230	290	340	400	440	400	380	390	320	290	270	270
Monroe	220	240	230	250	260	310	480	490	490	550	620	460	330	280	270
Montgomery	310	280	320	320	240	280	390	540	450	400	400	340	330	180	170
Muscatine	1290	1250	1110	1090	1110	1270	1530	1580	1420	1660	1510	1200	980	870	900
O'Brien	270	180	190	180	230	320	390	380	390	350	330	320	270	210	260
Osceola	130	120	120	140	190	170	260	270	240	240	260	220	170	140	140
Page	510	540	430	410	350	430	560	710	610	700	670	430	360	260	300
Palo Alto	160	200	170	190	200	200	320	460	430	470	410	350	290	210	220
Plymouth	460	430	370	420	490	560	660	830	680	620	650	600	480	490	480
Pocahontas	160	140	120	120	140	180	240	290	250	310	360	250	190	140	130
Polk	8300	7700	6500	7100	7400	8350	10350	11250	9900	12180	13300	12130	9320	6870	6570
Pottawattamie	2500	2300	2100	2300	2300	2860	3270	3380	3480	2770	3390	3400	2540	2300	2120
Poweshiek	400	380	380	380	340	390	500	620	560	660	690	500	530	340	320
Ringgold	140	120	130	120	130	180	160	180	200	290	190	130	120	110	110
Sac	200	250	280	300	330	350	460	530	540	650	690	410	310	220	230
Scott	5000	4500	4100	5000	5700	5370	5950	6240	5810	7790	8360	6010	3950	3010	3300
Shelby	380	370	290	330	340	380	490	630	590	390	370	330	260	240	260
Sioux	340	320	290	330	370	580	690	740	650	660	710	750	670	510	470
Story	1000	980	810	710	720	940	1260	1310	1220	1680	1630	1520	1310	900	790
Tama	470	470	410	370	410	560	670	680	420	440	470	310	280	240	270
Taylor	170	170	140	140	120	210	250	290	260	310	210	140	130	120	120
Union	300	380	300	270	310	400	420	450	520	540	460	430	370	280	280
Van Buren	270	250	180	280	280	340	360	380	290	380	410	310	290	160	170
Wapello	1230	1320	1000	1070	1160	1570	2190	1960	1710	2090	2040	1970	1360	1180	990
Warren	800	700	600	600	700	810	870	970	840	940	1050	1040	850	560	560
Washington	420	390	350	390	430	560	760	790	590	720	650	580	520	380	360
Wayne	210	140	110	100	150	190	200	250	230	270	230	170	160	130	160
Webster	1210	1040	1010	1010	1000	1220	1590	1860	1660	1800	1780	1520	1330	970	800
Winnebago	210	320	430	290	190	280	380	520	260	330	400	370	560	450	240
Winneshiek	550	480	510	570	620	750	880	910	820	890	790	830	700	570	560
Woodbury	2300	2500	2100	2200	2700	3410	4060	4160	3600	3500	3720	3660	2950	3650	3220
Worth	230	270	280	240	220	240	350	400	290	320	320	310	320	240	180
Wright	380	340	290	280	300	350	460	630	480	510	450	370	380	240	210
State of Iowa	72000	70000	63000	65000	67000	80000	101000	112000	99000	115000	121000	99000	82000	59000	57000

Table 4. Estimated Unemployment Rates in Iowa Counties, 1978-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978
Adair	3.7	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	3.8
Adams	3.4	4.0	3.7	3.2	2.8	3.6	4.5	5.6	4.6	5.4	5.6	4.2	4.1	4.2	3.8
Allamakee	5.9	5.5	6.0	5.9	5.1	6.4	7.7	10.4	9.3	8.8	9.3	8.8	8.2	6.1	5.0
Appanoose	6.4	7.0	7.1	6.3	6.1	7.3	9.4	11.3	10.5	13.1	14.1	10.1	10.5	7.2	9.1
Audubon	3.2	3.3	3.9	3.7	3.4	5.4	7.7	8.6	7.2	6.4	5.2	4.4	3.4	2.7	3.1
Benton	5.2	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	2.9
Black Hawk	5.9	5.7	5.1	5.4	5.8	8.4	12.8	14.4	12.0	13.2	12.1	8.0	7.0	4.7	4.7
Boone	4.3	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	3.3
Bremer	5.0	4.2	3.5	3.7	3.8	7.0	9.7	9.4	7.6	9.2	9.7	6.8	5.9	3.5	3.5
Buchanan	6.1	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	3.7
Buena Vista	2.2	2.0	2.0	2.2	2.8	3.3	4.5	4.9	4.5	5.0	7.2	4.5	3.2	2.5	3.2
Butler	7.1	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	3.1
Calhoun	3.5	3.2	2.7	2.9	3.6	4.8	6.1	7.8	5.4	5.7	5.8	4.7	3.4	2.6	2.8
Carroll	2.9	3.6	4.2	4.6	4.4	5.8	7.1	7.9	5.9	6.2	7.4	6.7	5.4	3.4	3.8
Cass	5.1	5.4	5.5	4.3	4.3	5.7	6.2	8.0	8.0	5.5	5.2	5.1	4.2	2.8	3.3
Cedar	3.7	3.2	3.0	3.2	3.9	4.4	5.9	6.8	4.9	6.5	6.8	4.1	3.3	2.2	2.2
Cerro Gordo	5.6	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	4.7
Cherokee	3.1	3.0	3.0	3.4	3.7	6.2	6.8	5.4	4.8	4.9	5.1	5.6	3.8	2.8	3.2
Chickasaw	6.5	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	5.4
Clarke	6.7	6.9	5.6	5.2	6.1	6.7	8.5	9.0	8.4	7.4	8.6	7.0	6.0	4.2	5.0
Clay	3.4	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	5.0
Clayton	5.8	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	4.3
Clinton	6.8	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	3.7
Crawford	4.2	4.4	5.7	7.5	7.0	5.0	6.0	6.8	6.1	5.4	6.4	4.8	3.6	4.1	3.7
Dallas	4.0	3.5	3.6	5.9	3.7	4.5	6.4	5.9	5.3	6.7	7.2	6.3	5.9	3.7	4.1
Davis	6.4	7.0	4.2	5.5	7.0	8.6	10.9	9.8	8.2	11.4	10.5	8.1	5.6	4.4	5.2
Decatur	6.6	5.7	5.7	3.3	5.2	6.1	7.6	7.1	6.4	8.3	6.0	5.4	4.8	4.0	4.0
Delaware	5.5	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	4.1
Des Moines	6.3	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	5.1
Dickinson	3.0	3.2	2.9	2.9	4.0	5.4	7.9	9.4	7.0	7.5	7.5	6.3	5.4	4.4	4.2
Dubuque	5.6	6.1	5.6	6.0	5.4	6.1	7.8	9.5	8.5	12.1	14.2	10.7	8.6	5.6	5.3
Emmet	6.0	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	3.5
Fayette	5.8	5.5	4.6	4.5	4.6	6.5	9.1	10.2	8.7	10.1	10.5	6.8	6.7	4.8	4.6

Table 4. Estimated Unemployment Rates in Iowa Counties, 1978-1992 (continued).

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

Table 4. Estimated Unemployment Rates in Iowa Counties, 1978-1992 (continued).

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

Between 1982 and 1992, employment increased more than 50% in Dickinson and Louisa counties and from 25% to 50% in Dallas, Des Moines, Henry, Jefferson, Johnson, Polk, Winnebago, and Worth. Percentage declines from 1982 to 1992 of at least 25% occurred only in Fremont; eight others (Crawford, Franklin, Hardin, Kossuth, Mills, Ringgold, Tama, Wayne) dropped by 10% to 25%.

Unemployment

Unemployment figures for Iowa during this period reflect the economic difficulties encountered by the state in the first half of the 1980s. Unemployment stayed between 57,000 and 59,000 in the late 1970s, but it was 121,000 in 1982 (Table 3). For four of the five years from 1982 through 1986, unemployment was over 100,000. Relatively rapid decreases, especially from 1986 through 1988, brought the figure down to 63,000 in 1990. That was a decline of 47.9% 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.

Just as Polk led in labor force and employment numbers, it also had the highest number unemployed (8,300) in 1992. Black Hawk, Linn, and Scott were the only others above 3,000. Twelve counties had from 1,000 to 3,000 unemployed. Eleven counties had fewer than 200 unemployed in 1992; the three lowest were Adams, Audubon, and Ida, each of which had 120 or fewer unemployed.

Unemployment in 1992 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 but four counties (Decatur, Louisa, Shelby, Tama) had lower numbers unemployed in 1992 than in 1982, the year of Iowa's highest unemployment.

Although unemployment in Iowa in 1992 was much lower than the high point in 1982, the state's figure was still higher than the levels of unemployment in the 1970s. That was the situation for a majority of the counties also.

Unemployment Rates

When the number unemployed is divided by the number in the labor force and the result is multiplied by 100, an unemployment rate is obtained. These rates (number unemployed of every 100 in the labor force) were highest in Iowa from 1981 through 1986 (Table 4). The highest annual rate (1982, 8.5%) was about double the rates in the late 1970s (4.0%-4.1%) and 1989 (4.3%) or 1990 (4.2%). The state's unemployment rate increased to 4.6% in 1991 and remained at that level in 1992.

For the counties in 1992, unemployment rates varied from under 3.0% (Buena Vista, Carroll, Ida, Iowa, Johnson, Lyon, Sioux, Story, Winnebago) to more than 7.0% (Butler, Floyd, Lee, Van Buren, Wapello). Twenty-one counties ranged from 3.0% to 3.9%, 22 from 4.0% to 4.9%, 28 from 5.0% to 5.9%, and 15 from 6.0% to 6.9%.

The unemployment rates in 1992 were much lower than those in 1982, the year of Iowa's highest rate. In 1982, 23 counties had unemployment rates 10.0% or greater, with four (Appanoose, Dubuque, Floyd, Monroe) above 14.0%. In 1992, all counties were below 8.7%. Ninety-three counties had lower unemployment rates in 1992 than they did in 1982. Rates increased in Decatur, Fremont, Mills, Shelby, Tama, and Wayne when the two years were compared.

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

Sales Subject to Sales Tax in Iowa's Counties:

1980-1992

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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 1992, this figure had increased to more than \$22 billion. Increases of more than \$1 billion from 1988 to 1989 and from 1989 to 1990 were the largest reported between 1980 and 1991, and that from 1986 to 1987 was only slightly below \$1 billion. Sales subject to sales tax increased by \$907 million from 1991 to 1992. Minor decreases occurred between 1980-1981 and 1985-1986.

Sales varied greatly among Iowa's counties. In 1992, for example, Polk had sales subject to tax of \$4.7 billion, which was more than a fifth (21.3%) of all dollars subject to sales tax in the state. Three other counties (Black Hawk, Linn, Scott) reported at least a billion dollars in sales. Dubuque, Johnson, Pottawattamie, Story, and Woodbury were in the \$500-\$999 million category. More than half (57.8%) of all sales in the state were generated in these nine counties in 1992.

Sales totaled \$100-\$499 million in 30 counties in 1992; sales were \$50-\$99 million in 35 counties and less than \$50 million in the remaining 25. Six counties (Adams, Ringgold, Taylor, Van Buren, Wayne, Worth) had receipts from sales of less than \$25 million in 1992.

When 1982 and 1992 are compared, 70 counties had sales that were greater at the end of the period than the beginning (Figure 1). The greatest increase was in Polk (+\$2.3 billion); Linn's \$776 million gain was the second highest. Another nine counties (Black Hawk, Cerro Gordo, Des Moines, Dubuque, Johnson, Pottawattamie, Scott, Story, Woodbury) reported at least \$100 million more in sales in 1992 than in 1982. Of the 29 counties that declined in sales, 26 dropped by less than \$10 million when 1982 and 1992 are compared. Only Kossuth was down by more than \$15 million in this period, although Calhoun and Grundy declined by at least \$10 million.

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 1991-1992, caution must be exercised in interpreting them. The calculations for 1980 and 1990 use the population counts from the decennial censuses.

Table 1. Sales (in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	44158	41630	40683	40798	41626	42847	42818	42748	44944	48603	47299	45732	46122
Adams	20202	19390	19600	19780	20205	20149	18375	19139	20044	22426	21147	19710	20544
Allamakee	76400	76268	68683	68593	70415	68834	65524	66158	66812	67298	67098	61841	61787
Appanoose	79520	71767	66834	68339	66703	71046	63902	62429	63322	64160	62947	65866	65428
Audubon	33898	32634	28740	28482	29768	28980	30474	33449	34900	37079	33906	33939	38407
Benton	92304	90474	85157	83217	82078	80411	76064	83023	84497	87937	86707	87513	89725
Black Hawk	1099887	1063237	1005436	940556	854311	817100	786954	822513	811969	790325	807585	789589	772710
Boone	136507	132792	127000	117378	112314	106344	105799	108035	108428	103032	95100	98033	101264
Bremer	124219	120756	113444	109543	107662	103908	97679	104160	107199	108042	110078	108326	105713
Buchanan	98632	93557	92402	86499	84045	79745	76199	81744	81323	86940	80862	77594	81309
Buena Vista	142910	142795	133518	131636	131353	135676	120949	130724	135402	130199	123003	122209	127355
Butler	54690	53557	51979	53334	54099	54114	55095	56147	59521	63417	62111	58905	61055
Calhoun	42033	42986	46649	62068	72101	56649	47231	49059	53035	56397	55578	56799	59779
Carroll	171669	165652	160253	155566	151356	146098	132817	138373	145997	145810	135468	131918	138155
Cass	99613	97058	93991	92502	91466	91176	89983	99347	99477	100620	95004	97155	96427
Cedar	66862	64865	62519	62293	61762	66642	61130	64041	65441	75801	71742	71293	72972
Cerro Gordo	457949	450533	430451	410350	383790	374668	348247	346906	334994	324798	303631	292656	286525
Cherokee	82744	81155	76089	78368	75565	75319	75530	78129	81172	84826	77383	77344	79824
Chickasaw	61055	57772	55368	56659	57575	62371	55114	59103	61607	64650	65488	63330	67894
Clarke	50298	48344	45941	44588	43367	41534	40153	38561	39612	38831	41525	42492	40470
Clay	146960	146136	141888	138520	129794	128404	118862	130165	136207	136110	136788	137205	136717
Clayton	78141	73662	70078	70007	73354	72332	67642	72654	78598	81423	80203	80647	87199
Clinton	340329	333187	319160	316064	296565	282351	278499	275889	277727	274440	275239	269954	260690
Crawford	95067	88688	84819	83143	83294	83713	79188	81903	82604	83005	77920	78913	80950
Dallas	129483	127506	119478	115311	110024	111437	111386	123929	125069	120607	119091	117625	116938
Davis	33915	33206	30791	31157	30452	30529	30237	28688	28422	29812	30876	29798	29333
Decatur	26259	25956	24149	24668	24262	24037	24456	24871	25147	25550	26367	25971	24699
Delaware	89378	85243	74415	72518	80114	73093	69811	73033	73519	76392	73610	72574	75055
Des Moines	385059	361824	340744	335287	317488	298971	282650	276396	266705	267579	260038	254610	252944
Dickinson	153482	148070	136452	120573	110234	101287	92059	94166	92911	86185	81572	79391	81664
Dubuque	745005	703878	668050	635491	612932	575734	548225	538324	528239	507296	499035	497984	496155
Emmet	76437	74725	73993	71815	67935	69253	61203	61893	67385	64646	67868	69271	67281
Fayette	122307	120073	114107	111876	111273	116063	112084	113015	117588	120125	121387	119314	122679
Floyd	95646	90844	89561	88823	84161	82582	79267	86301	88630	88137	88986	83998	85736
Franklin	56306	53104	50283	54094	56102	62215	52656	57200	57593	67425	66187	67370	68697
Fremont	36287	30904	30549	31573	31947	33648	32154	35844	34468	34197	32951	30393	28359
Greene	56691	52327	52089	51318	50701	51754	50061	53954	57158	57829	54525	56523	59423
Grundy	46818	44610	41951	43334	46217	49093	46414	52791	53636	58373	57640	55654	56226
Guthrie	48638	46637	45106	44591	41138	40133	38801	41808	43702	44011	41238	40488	43751
Hamilton	90087	93027	88007	86618	84391	81930	79313	83581	85720	87310	84114	83164	87868
Hancock	53407	53380	52951	55864	55545	56306	53960	57127	60703	62488	59728	60842	65778
Hardin	125287	121269	114617	113661	116399	114209	114679	120061	125928	126560	123838	124053	128964
Harrison	57011	53677	51358	50229	50925	56228	52951	54147	57513	57228	53888	57502	58310
Henry	132010	126527	117024	116959	112340	110256	97824	96785	93046	94097	87927	87928	89433
Howard	49973	47472	43960	43774	46009	49438	44936	44870	48219	50810	50358	47783	49418
Humboldt	60039	59530	60935	59778	59135	56735	54350	58218	60688	61498	62531	60815	62396
Ida	45335	43658	45565	45270	46455	45619	43127	45025	47134	47047	41097	39781	42423
Iowa	151840	112269	101882	97437	92812	91992	85967	88467	88903	86181	84776	85495	83459
Jackson	96596	94149	85880	84868	83579	84608	82674	83106	84821	84828	82866	82175	82451
Jasper	227739	224584	211708	189793	188372	182496	179167	184622	180871	170856	164412	162003	167233

Table 1. Sales (in \$1,000s) Subject to Sales Tax in Iowa's Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	98528	95047	94566	100221	94971	89634	84470	82374	77579	74412	72195	71759	71203
Johnson	774419	738389	705148	656467	597298	578282	525342	518157	497889	459339	415822	387711	366750
Jones	112303	112409	105949	108813	102412	100147	91007	92454	89342	89620	88015	84458	91639
Keokuk	37380	36145	35445	35652	37943	39859	39090	40714	40782	45875	45873	45019	48967
Kossuth	105949	104626	103791	98556	99967	108226	106197	113328	121174	123847	127761	121319	128373
Lee	274242	263718	251736	245632	239793	241840	228778	230595	222663	223988	218822	215502	209094
Linn	1907676	1834635	1737351	1631777	1516450	1439992	1354352	1334752	1246837	1169591	1132107	1106281	1109708
Louis	30483	29605	29806	30783	29888	31010	33382	33083	32968	36593	35565	36072	34548
Lucas	62463	62313	55286	59295	56229	50918	38341	39960	39997	39632	41618	40424	39551
Lyon	46263	44680	40657	40654	40907	41952	36869	39205	41662	44469	41085	42977	48149
Madison	52047	49925	46773	42930	41419	39102	34052	34359	36101	38461	37487	38359	39185
Mahaska	155131	145140	133378	130331	130564	128008	122890	123501	118403	119015	111827	111709	117659
Marion	165384	161591	156081	153508	148284	141318	134534	131088	126509	122319	119283	114955	118698
Marshall	301437	297446	280758	268442	251609	234886	233698	240047	232617	227858	218573	216640	210844
Mills	42767	42203	40956	39596	39210	41294	38997	39816	40204	40748	38588	37664	37416
Mitchell	52766	51710	47986	46859	49373	49318	44490	47349	49949	51808	50221	49078	52790
Monona	45525	45416	44440	45389	44972	47540	46454	45692	50602	50872	49872	51069	56761
Monroe	34915	36810	35468	33854	32752	32884	31937	31983	32531	30907	31496	30683	31009
Montgomery	87408	87705	86810	85279	79231	73427	68237	71589	72701	67219	67734	67604	67045
Muscatine	283404	272409	261989	249746	233345	220120	218895	230943	225050	216307	212491	197822	186131
O'Brien	86581	86453	86120	88484	90297	85916	74655	77701	81619	83799	80234	77940	83884
Osceola	30862	30326	30639	28905	28885	28410	27595	29411	33807	34031	32469	33167	35583
Page	91498	92622	91696	93088	90483	92594	88822	93216	94414	94741	92808	95825	100857
Palo Alto	42558	42691	41576	41056	40860	43389	41617	43766	48570	51476	49188	49792	51980
Plymouth	127175	119529	112889	109781	107755	105145	97057	99411	99433	97457	92418	91142	96470
Pocahontas	39297	37076	36087	36309	37130	36999	40470	47066	48838	51013	48543	49264	51667
Polk	4720949	4502306	4358547	4111700	3765168	3513382	3237590	3070912	2906398	2608614	2466204	2376725	2370263
Pottawattamie	539073	521820	516367	498007	471803	444704	405000	413236	404873	384239	355209	350131	331083
Poweshiek	172050	165222	151782	149521	128647	124048	116806	116584	111770	109707	102023	91512	91625
Ringgold	22082	21318	20106	20100	19984	20260	19643	19047	19758	21107	22428	21279	23230
Sac	55204	53239	50086	49432	48747	49668	47535	52836	55206	61277	57532	59094	65781
Scott	1616729	1497100	1481015	1294922	1252558	1188962	1158113	1155406	1078089	1019768	1009623	975293	947266
Shelby	67303	67623	64635	65548	64526	65588	63798	64640	67773	71355	66797	66608	69731
Sioux	175896	167023	151036	139978	136838	133378	124423	132152	139892	140755	134004	131772	144055
Story	527998	514331	478348	450646	428724	414177	394299	382423	370258	355057	335070	323558	311719
Tama	78062	74844	73588	72919	71343	79626	76471	75440	80291	82725	82449	81227	86014
Taylor	19263	18782	17669	17514	17964	19563	18726	19580	21649	23229	23800	23175	25781
Union	86036	85367	75755	71149	71173	70111	68016	66582	67832	68050	65517	64792	67752
Van Buren	21538	19147	18889	16667	16448	16265	17211	18128	17141	17923	19060	21068	22356
Wapello	272987	263945	247915	215842	201028	197748	200234	202055	193091	188781	179792	185458	178592
Warren	121462	117155	103684	98670	92747	88740	86646	86648	84468	81136	79895	76172	78876
Washington	114654	112964	104245	101002	105772	103420	98898	103264	101910	107640	101395	99450	103438
Wayne	22154	22066	21005	20549	20307	21015	21198	20856	21075	23491	25248	24556	27062
Webster	386136	374260	377872	317645	298096	306071	293803	304707	301798	297795	288763	290808	298213
Winnebago	61681	61605	60232	59411	56784	57722	54815	57501	59349	56281	54153	54685	56870
Winneshiek	127748	123919	116184	110092	107402	102934	91329	91095	89734	91174	89851	85230	83811
Woodbury	909134	868587	847458	810994	763298	725923	691962	697824	684745	660299	632564	611872	594253
Worth	22137	21766	21090	21978	22302	27722	31415	24061	26370	29524	27631	30134	33565
Wright	81799	78197	73896	71520	72469	72790	73380	79513	86141	89211	91243	85481	87188
State of Iowa	22197618	21290549	20411072	19382176	18381665	17706084	16728179	16788671	16460402	15927771	15393064	15055783	15090179

Table 2. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	-16745	-15587	-11108	-7484	-3624	-2380	-1192	-1948	1519	7668	-1960	-1567	-6037
Adams	-12474	-10840	-9064	-7501	-5428	-5789	-7097	-5598	-5524	-2516	-3638	-5411	-6620
Allamakee	-13688	5708	1125	4105	8586	6848	4421	5822	9597	9716	-1154	-5635	-6566
Appanoose	-10084	-7803	-8946	-4788	-4077	3850	-3119	-5235	-4212	-2552	-8361	-1469	-5496
Audubon	-22082	-8609	-8556	-6813	-5497	-5899	-4167	39	1331	3587	-9797	-10093	-6005
Benton	-78073	-60459	-60822	-54093	-48480	-50532	-51361	-44155	-42292	-35989	-39397	-39561	-38038
Black Hawk	144873	-81401	-63826	-85799	-82300	-82269	-65907	-64851	-74958	-87152	17688	16288	25000
Boone	-58223	-61215	-60169	-59974	-57959	-58700	-50856	-50459	-50503	-46567	-43353	-36717	-36017
Bremer	-50652	-72238	-68173	-66577	-60540	-50322	-51065	-42767	-38036	-31572	-22006	-21109	-25360
Buchanan	-54740	-42955	-37048	-37376	-35216	-40877	-37185	-32826	-34189	-24118	-32791	-35303	-28628
Buena Vista	3386	12880	7912	14265	14878	21411	13179	25723	30087	28938	3524	6063	10814
Butler	-58918	-46992	-39318	-34122	-31401	-29626	-26912	-26791	-22507	-17582	-32149	-34105	-37113
Calhoun	-39488	-35192	-28817	-9466	4717	-5354	-14625	-13364	-11105	-6294	-14187	-11755	-11132
Carroll	12259	30337	30173	30763	28482	26014	14985	20588	30483	36993	15768	16576	24330
Cass	-6294	-9603	-12018	-10397	-6263	690	-324	10118	13744	17145	-3284	-2326	-2518
Cedar	-70197	-43932	-50847	-44767	-43351	-36739	-38562	-35827	-33964	-23593	-36216	-37753	-30426
Cerro Gordo	81371	82667	74953	74874	59267	56135	47955	44320	36668	35711	45948	27378	28155
Cherokee	-16832	-13782	-18210	-11297	-13468	-6874	-2731	-926	1305	5357	-7683	-6675	-299
Chickasaw	-32922	-21499	-23202	-17922	-17826	-7721	-11996	-8893	-5553	1210	-10434	-8158	-3544
Clarke	-6610	-1399	-3037	-282	882	2212	3686	1467	2676	2829	-3875	-2972	-6403
Clay	4191	20557	21720	21789	18007	14382	5097	15111	24298	32865	7466	7502	12851
Clayton	-51757	-43456	-46103	-41705	-31858	-24350	-26428	-20110	-12182	-9380	-15030	-14073	-4642
Clinton	-44914	-64719	-60504	-46729	-57106	-55071	-45735	-42205	-40095	-45796	-35126	-31470	-43386
Crawford	-16012	-6411	-11848	-11485	-6679	-6462	-8248	-5605	-2330	-2889	-6854	-4274	-4496
Dallas	-111774	-81856	-100640	-87379	-73802	-71499	-60774	-48969	-51101	-54466	-53530	-47934	-51380
Davis	-23381	-15612	-17055	-15331	-13274	-9017	-8009	-9931	-8666	-5266	-6641	-7474	-10790
Decatur	-21370	-22507	-22186	-20284	-19372	-16386	-13230	-13362	-12471	-9905	-5141	-4840	-8091
Delaware	-42901	-30346	-37042	-33777	-21302	-23751	-21247	-16401	-14144	-7072	-20767	-22611	-23758
Des Moines	44651	558	-8438	5687	6733	-5338	589	-8527	-5402	8393	25426	20073	19666
Dickinson	15249	21899	24416	15430	5845	-978	-10160	-9251	-5857	-7224	-3925	-756	2532
Dubuque	69401	73430	66496	53650	60269	55210	53155	27242	42117	19746	-9044	-4669	16814
Emmet	-4293	5066	5890	5332	3877	3697	-5251	-4054	4376	-836	8090	10011	6828
Fayette	-19946	-19536	-24563	-19769	-18468	-6737	-6332	-5519	476	3952	9184	9775	10664
Floyd	-29572	-20987	-22463	-16066	-16596	-12810	-13580	-7739	-254	-1846	-16970	-23113	-25843
Franklin	-26038	-25728	-28459	-11539	-21891	-11084	-19106	-15511	-14504	-4888	-3310	-1979	-9446
Fremont	-18208	-23331	-31115	-27293	-22457	-18617	-17389	-14199	-11330	-7502	-17102	-17640	-15696
Greene	-15490	-22302	-22424	-21052	-19778	-13697	-15441	-12422	-6409	-3206	-18472	-17049	-18741
Grundy	-52084	-53368	-57843	-51109	-45321	-45282	-41905	-35643	-34460	-24096	-23773	-24653	-26118
Guthrie	-33339	-22352	-20198	-17910	-17986	-15706	-14033	-11604	-9294	-6902	-15818	-15416	-20131
Hamilton	-34375	-27743	-25847	-21441	-18130	-20395	-14841	-13171	-7362	-1492	-4715	-2069	1250
Hancock	-40262	-36815	-39821	-30559	-30040	-21922	-21221	-17805	-13454	-7688	-12058	-11813	-9812
Hardin	-18175	-17989	-16015	-14864	-9345	-354	4259	12854	16830	20665	7303	9542	15762
Harrison	-38323	-28473	-33223	-29339	-23923	-16880	-17769	-17008	-14136	-9682	-24507	-21294	-21596
Henry	-14750	-22626	-16939	-12252	-5124	-1812	-6012	-8237	-8847	-2566	-10837	-12312	-10032
Howard	-14008	-12857	-15519	-12680	-7166	-5714	-6679	-6113	-1786	1718	-7933	-8314	-10325
Humboldt	-26800	-15372	-15472	-14376	-14297	-10773	-11433	-6786	-5670	-3906	-7544	-8442	-3046
Ia	-15442	-7465	-5704	-3802	-2530	-631	637	3364	5071	7665	-20799	-19568	-18982
Iowa	33440	1941	-2325	-3171	-3112	2796	236	2500	4002	7913	14946	19686	21315
Jackson	-48727	-33090	-38474	-35543	-35144	-32129	-25746	-26500	-22803	-21588	-23278	-19386	-23381
Jasper	-61051	-42244	-40184	-54196	-32917	-38518	-28452	-25290	-31751	-25976	-33756	-34129	-33556

Table 2. Estimated Dollars of Sales (in \$1,000s) Gained or Lost (-) in Iowa's Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	-25283	-32784	-29354	-19769	-16159	-11427	-10253	-7267	-6032	-4448	-9158	-10312	-12984
Johnson	-133779	-91975	-1986	-8217	-30179	-34941	-48404	-58068	-81556	-85811	-1439	-8377	-8604
Jones	-28601	-7621	-11601	-3493	-6439	-8345	-13465	-11714	-7002	-1648	-9313	-9049	734
Keokuk	-43286	-39650	-35700	-34226	-27545	-26640	-21241	-20455	-20688	-13445	-17945	-18845	-18240
Kossuth	-22927	-14523	-12389	-12625	-7446	2120	2466	10140	19277	20964	1725	-924	-3365
Lee	-2573	-23041	-48691	-40294	-35667	-27173	-27916	-27162	-20582	-8123	8231	12366	3846
Linn	283228	266102	261500	250586	206506	214210	197756	174326	90251	70938	145819	150123	185534
Louisa	-63407	-59302	-53519	-50194	-44099	-43856	-36763	-38155	-40592	-30713	-26367	-21836	-21054
Lucas	-1236	7700	-2260	3324	3568	-3670	-12145	-11342	-12038	-10215	-19068	-17653	-24318
Lyon	-29791	-14951	-15912	-13617	-11680	-9643	-14592	-11884	-10041	-7421	-21118	-17543	-10823
Madison	-47896	-27318	-22123	-21526	-20535	-22612	-23691	-25338	-24301	-17866	-20735	-20347	-27159
Mahaska	-4330	10962	707	3073	6251	4740	3672	4110	3315	7824	3756	8815	12960
Marion	-72477	-68509	-55318	-49139	-35555	-40122	-32213	-38524	-34744	-32786	-41278	-36278	-43528
Marshall	-27258	-30077	-35737	-38280	-46884	-48750	-32219	-30409	-40528	-32253	-3973	-3063	-7538
Mills	-54155	-43046	-39001	-37645	-37319	-36146	-35075	-35647	-28652	-25512	-39155	-35410	-40930
Mitchell	-29686	-20893	-22620	-20091	-15491	-10989	-14021	-10711	-9354	-2503	-6923	-8868	-2845
Monona	-23411	-11999	-13193	-9081	-6054	-5030	-2541	-3911	1492	2302	-16639	-13381	-12961
Monroe	-19548	-28405	-26945	-26262	-23580	-19162	-15529	-13495	-11715	-14635	-8762	-9207	-10768
Montgomery	-159	6514	4004	5988	-1178	-7555	-11640	-3746	-1270	-1539	-12197	-11802	-13195
Muscatine	-46063	-77917	-79004	-75299	-69815	-61457	-48835	-38459	-38712	-39034	-8927	-16992	-32503
O'Brien	-24405	-12490	-6516	-845	4948	3955	-4355	-2058	2052	5171	-3609	-2902	-2413
Osceola	-25703	-14799	-13666	-14277	-12046	-11319	-9132	-7683	-4286	-3916	-5867	-3504	2470
Page	-34943	-28711	-30683	-23605	-24066	-14980	-13948	-8253	-5490	-2636	-3624	1575	-9081
Palo Alto	-33548	-25830	-24145	-22550	-21349	-19462	-19268	-16365	-12197	-8304	-20299	-15429	-14314
Plymouth	-51775	-27996	-37152	-20376	-22543	-20665	-20880	-19852	-22688	-19920	-30861	-24573	-17397
Pocahontas	-32042	-32486	-32004	-27903	-25592	-25275	-17664	-10225	-5718	-812	-8673	-7131	-9354
Polk	1409391	1452751	1462979	1382012	1217786	1111732	989264	837666	747005	538291	606013	561695	589259
Pottawattamie	-96565	-159867	-154371	-134091	-118807	-99258	-111979	-104770	-95434	-99869	-89447	-82204	-94868
Poweshiek	16865	22607	21352	24176	11531	10153	10414	8766	7418	12185	-21735	-26711	-33344
Ringgold	-12453	-5487	-5798	-3981	-3705	-4804	-3399	-4366	-3452	-2013	-6424	-7685	-8684
Sac	-40415	-17687	-17169	-16305	-14298	-15330	-16501	-9419	-7435	-1332	-15567	-13466	-14396
Scott	367482	181504	151174	30598	63728	21236	51585	46640	37172	-27347	50777	44764	55894
Shelby	-27559	-17503	-21917	-18495	-15957	-8672	-8835	-8873	-6690	2940	-4267	-4078	-1118
Sioux	-22215	-1488	-18588	-20539	-21724	-12943	-14765	-4480	4483	7575	-4991	-6090	6023
Story	-57659	-91753	-73015	-74510	-84122	-74740	-68761	-74982	-90651	-80768	-66389	-56535	-60690
Tama	-52540	-42892	-31503	-27613	-29535	-20428	-19456	-18656	-11606	-7910	-22921	-20953	-27051
Taylor	-24396	-21524	-22321	-21628	-18312	-14282	-14591	-13415	-11823	-9338	-12706	-12984	-11012
Union	-1787	-9299	-13214	-14655	-11812	-8445	-5096	-7504	-5449	-1898	856	2051	2188
Van Buren	-25266	-22020	-21852	-22033	-21543	-19187	-15744	-14422	-15227	-13032	-17414	-15506	-17999
Wapello	15823	6015	3023	-24946	-22935	-28349	-17654	-18324	-14504	-24335	-17082	-14353	-22937
Warren	-175042	-154283	-171938	-162358	-150357	-149083	-132736	-131972	-131271	-136174	-89287	-86903	-81816
Washington	-27125	-20460	-24338	-21594	-10000	-14151	-12425	-7743	-2147	4738	-5300	-6838	-1619
Wayne	-22339	-15619	-13072	-12369	-10732	-11374	-9028	-9801	-9945	-6618	-9430	-9174	-16044
Webster	76411	97200	109204	60587	52679	57349	55016	62365	64276	57389	44230	50626	65552
Winnebago	-22855	-38744	-36063	-32055	-35279	-30225	-26785	-23452	-15758	-12705	-4490	-3872	-12383
Winneshiek	-16024	-9046	-14215	-12785	-9823	-13243	-19654	-21200	-18309	-7269	-16601	-17999	-25675
Woodbury	119796	156060	165558	173233	164729	131875	128343	129898	110003	95477	99230	91916	40506
Worth	-34249	-38350	-38672	-32149	-29505	-24631	-17001	-23742	-19297	-12571	-19633	-15270	-14474
Wright	-22843	-49628	-55168	-51780	-45708	-44471	-38660	-28408	-10228	-3246	-14151	-20051	-21821

Sales above what would be expected from the state average occurred in 16 counties in 1992 (Table 2, Figure 2). These counties are serving residents substantially in excess of those living within their own boundaries. These additional sales ranged from less than \$50 million in eight counties to \$1.4 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 83 counties had sales that were lower than their population bases would suggest. Eight lost sales of less than \$10 million, 56 were \$10-\$49 million lower than expected, and 19 were down at least \$50 million in expected sales. Only Dallas, Johnson, and Warren counties had sales at least \$100 million less than expected. Counties with relatively high leakage of sales generally are near major metropolitan centers that most likely captured many of those dollars.

Figure 1. Change in sales subject to sales tax, 1982 to 1992.

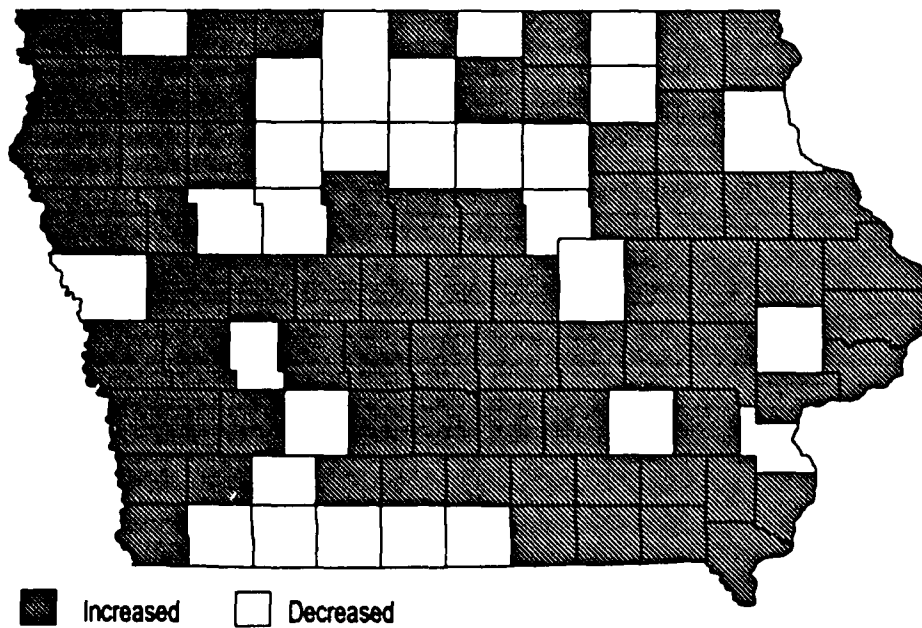
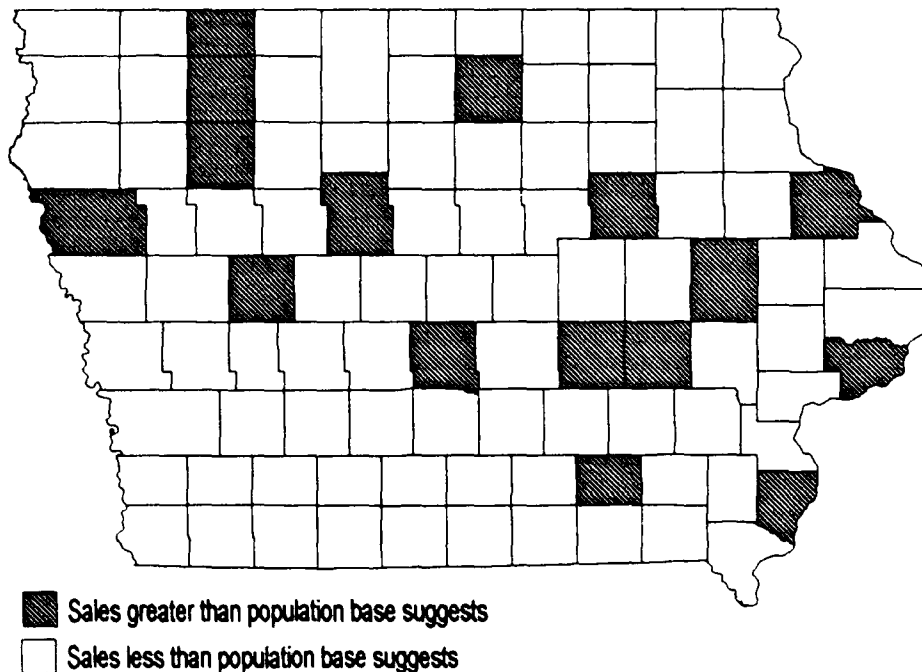


Figure 2. Sales subject to sales tax compared with population base, 1992.



Business Establishments, Employees, and Annual Payrolls in Iowa's Counties: 1965-1990

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

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

Number of Establishments

Iowa had 66,904 business establishments in 1980, which was 2,726 (or 4.2%) more than the number counted in 1975 (Table 1). This increase continued through the first half of the 1980s, when 6,304 businesses were added. More recent figures indicate a slight decline, however; the total was down 78 establishments from 1985 to 1990 for a loss of 0.1%. The first gain since 1985 occurred from 1987 to 1988, a trend repeated each year to the most recent report.

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

From 1980 to 1985, 78 counties had gains in the number of business establishments. Fourteen had at least 100 more businesses at the end of this period, while only one county (Sac) dropped by more than 20. The general trend of increasing businesses across counties slowed abruptly from 1985 to 1990, when only 24 counties reported gains. Declines of at least 20 businesses occurred in 38 counties, with 10 (Black Hawk, Cass, Cerro Gordo, Hamilton, Jones, Kossuth, Lee, Marshall, Pocahontas, Webster) having decreases of at least 50. Increases of 20 or more business establishments occurred in 14 counties (Figure 1). Polk's addition of 725 establishments was the only one greater than 200; Johnson, Linn, and Scott gained at least 100 from 1985 to 1990.

Table 1. Number of Business Establishments in Iowa Counties, 1965-1990.

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

Table 1. Number of Business Establishments In Iowa Counties, 1965-1990 (continued).

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

Table 2. Number of Employees of Business Establishments In Iowa Counties, 1965-1990.

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

Table 2. Number of Employees of Business Establishments In Iowa Counties, 1965-1990 (continued).

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

Table 3. Annual Payroll (in \$1,000s) for Business Establishments In Iowa Counties, 1965-1990.

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

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

Table 3. Annual Payroll (in \$1,000s) for Business Establishments In Iowa Counties, 1965-1990 (continued).

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

Number of Employees

In 1990, slightly more than one million people were employed by businesses in the state (Table 2). This was the fourth consecutive year of increases surpassing 20,000; the gain in employees between 1985 and 1990 totaled 160,000 or 19%. Relatively great growth also occurred from 1975 to 1980, when the number of employees increased by about 143,000 (19%), although employees declined between 1980 and 1985 (-59,000; -6%).

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

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

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

Annual Payroll

The annual payroll in Iowa's business establishments continued to climb throughout the period studied (Table 3). Indeed, it more than doubled (+\$11.8 billion, +174%) from 1975 (\$6.8 billion) to 1990 (\$18.6 billion), although the effects of inflation have not been included in these figures. While the number of employees increased by nearly 102,000 (11.2%), the payroll jumped by more than \$7 billion (62.7%) from 1980 to 1990.

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

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

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

1986, but payrolls increased by nearly \$85 million between 1986 and 1987, \$115 million from 1987 to 1988, and \$64 million in each of the two most recent periods (1988-1989, 1989-1990).

Long-Term Trends

When information for the quarter century from 1965 to 1990 is examined, great change is evident in the number of establishments (Figure 2), employees, and annual payroll. Business establishments increased by about 14,000, while employees in these businesses nearly doubled from 558,000 in 1965 to 1,008,000 in 1990. The percentage gain of employees (80.5%) was much greater than that of establishments (23.0%), indicating the growth in the number employed per business over the last 25 years. Payrolls also increased dramatically; in 1965, annual payrolls totaled about \$252 million, while they were \$18.6 billion in 1990; growth is evident even when inflation is factored into the calculations.

Note: These data are published in annual reports entitled COUNTY BUSINESS PATTERNS: IOWA (Washington, D.C.: U.S. Bureau of the Census; the 1990 volume was published in September of 1992 under CBP-90-17). More detailed data are available for each county, incorporated places with at least 2,500 residents, and the state in these reports.

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

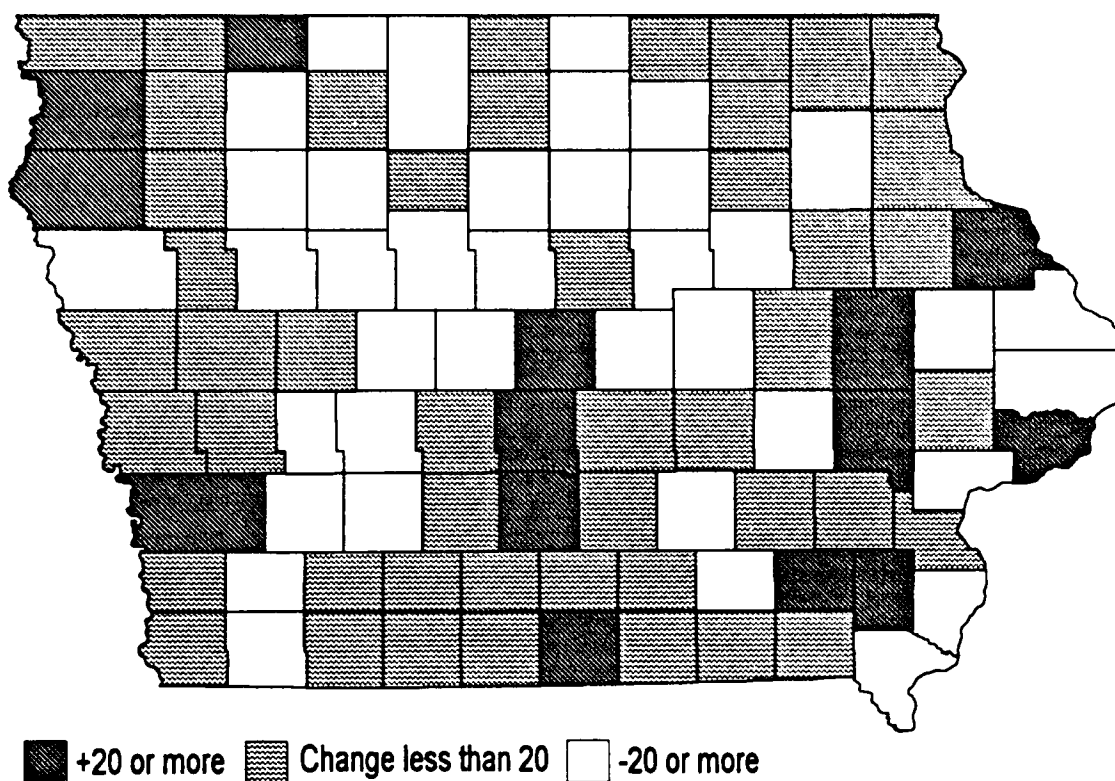
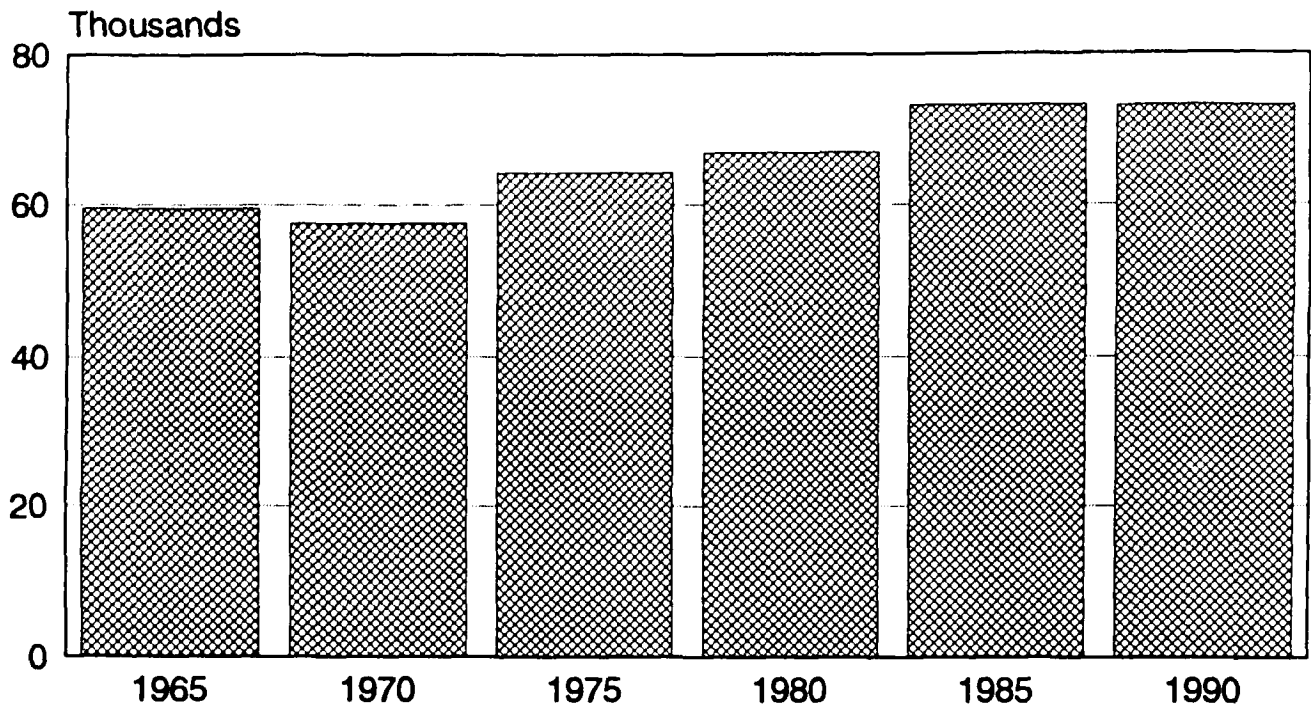


Figure 2. Number of business establishments in Iowa, 1965-1990.



Number and Size of Farms in Iowa's Counties:

1975-1992

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

Each year, the Iowa Department of Agriculture and Land Stewardship estimates the number of farms in Iowa's counties. The 102,000 farms reported for 1992 represented a decrease of 2,000 from the total in 1990. Since 1975, when this series of estimates was initiated, farm numbers have declined by 28,000 (Table 1, Figure 1)). Average size in acres has increased from 262 in 1975 to 327 in 1992, a gain of 65 acres over the 18-year period (Table 2, Figure 2).

Number of Farms

The number of farms declined in all 99 counties from 1975 to 1992. More than a third (36) of the counties reported decreases of 300 or more farms by the end of the period; 52 decreased from 200 to 299, and the remaining 11 lost fewer than 200 farms. Three counties (Adams, Dickinson, Fremont) declined by fewer than 150 farms between 1975 and 1992; eight others (Clayton, Fayette, Jefferson, Kossuth, Pottawattamie, Wapello, Winneshiek, Woodbury) had at least 400 fewer farms in 1992 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 1991, although Sioux was close at 1,950. The number of Iowa's farms decreased by 20.0% from 1975 to 1990 (Table 3). The drop was less than 10% in Sioux, although it topped 30% in Jefferson, Wapello, and Woodbury. At least 25% fewer farms were counted in another 13 counties. In the most recent comparison (1990-1992), farms were down 1.9% in the state; decreases were at least 2.5% in 18 counties.

Patterns for counties tended to be similar to that for the state, with 55 counties reporting greater percentage decreases in the late 1970s than the early 1980s. For 43 counties, percentage declines of farms were higher in the early 1980s than the late 1970s; many of these counties were in the northwestern section of the state, although another group was clustered in the east-central region. Franklin had the same percentage decline in the late 1970s and early 1980s. Although most counties had their largest percentage declines in the late 1970s (51) or early 1980s (32), 14 had their greatest decreases in the late 1980s.

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 1992. Only seven counties had gains that were less than 40 acres, while 27 counties added at least 80 acres to the average size between 1975 and 1992. On a short-term basis, of course, changes tend to be small; from 1990 to 1992, for example, 41 counties gained five or fewer acres in average size, one remained the same, and three decreased but only by three or fewer acres.

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

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1992.

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

*Preliminary estimates

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1992 (continued).

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

Table 1. Estimated Number of Farms in Iowa Counties, 1975-1992 (continued).

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

Table 2. Estimated Average Size (in Acres) of Farms in Iowa Counties, 1975-1992.

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

*Preliminary estimates

Table 2. Estimated Average Size (in Acres) of Farms in Iowa Counties, 1975-1992 (continued).

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

Table 2. Estimated Average Size (in Acres) of Farms in Iowa Counties, 1975-1992 (continued).

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

Table 3. Percentage Change in Number and Size (in Acres) of Farms in Iowa Counties, 1975-1992.

County	Farms					Acres				
	1990-1992	1975-1990	1985-1989	1980-1985	1975-1979	1990-1992	1975-1990	1985-1989	1980-1985	1975-1979
Adair	-2.1	-17.9	-6.8	-5.5	-6.8	2.2	19.7	6.9	5.2	6.5
Adams	-1.5	-13.9	-5.6	-4.0	-5.1	1.3	14.4	5.7	3.7	4.4
Allamakee	-1.9	-22.1	-2.7	-5.1	-13.2	1.4	26.2	2.7	4.7	14.3
Appanoose	-2.3	-23.7	-2.2	-10.1	-13.2	2.1	27.9	1.5	10.5	14.0
Audubon	-2.4	-19.8	-3.4	-7.3	-9.4	2.8	22.6	3.5	7.2	9.4
Benton	-2.1	-13.3	-4.6	-5.0	-3.0	2.0	13.1	4.2	4.8	2.2
Black Hawk	-1.6	-19.2	-4.5	-3.6	-11.5	1.6	20.9	3.9	3.1	11.9
Boone	-2.0	-24.6	-6.5	-9.2	-11.2	2.7	28.1	5.1	9.5	11.3
Bremer	-1.8	-23.0	-5.0	-6.9	-12.2	1.3	28.1	5.1	7.0	12.9
Buchanan	-2.3	-21.0	-4.3	-6.7	-10.8	2.3	24.8	4.4	6.4	11.4
Buena Vista	-0.9	-17.7	-8.6	-6.4	-3.8	0.9	19.3	9.0	6.4	2.9
Butler	-2.3	-19.4	-5.1	-8.6	-5.6	2.2	21.9	5.1	8.9	4.9
Calhoun	-2.0	-21.6	-8.3	-8.5	-5.6	2.0	25.2	8.6	8.7	4.9
Carroll	-0.8	-10.4	-7.2	-2.1	-1.4	0.7	9.7	7.5	1.6	0.4
Cass	-2.2	-19.8	-7.0	-9.9	-4.3	2.1	22.7	7.5	10.2	3.6
Cedar	-2.6	-17.6	-5.6	-7.5	-5.6	2.7	19.0	5.6	7.6	4.8
Cerro Gordo	-2.2	-17.7	-6.0	-5.7	-6.2	1.1	19.1	5.9	5.3	5.6
Cherokee	-2.8	-13.5	-6.8	-4.9	-2.4	2.8	13.6	7.2	4.5	1.4
Chickasaw	-1.9	-22.2	-3.6	-7.5	-11.1	2.4	27.1	3.6	7.4	11.8
Clarke	-1.4	-18.8	-5.4	-6.3	-7.1	1.6	20.9	5.6	6.2	6.3
Clay	-2.3	-20.9	-7.4	-11.2	-2.7	2.0	24.5	7.7	12.0	1.9
Clayton	-3.0	-21.3	-1.2	-6.6	-13.3	3.2	25.0	1.1	6.2	14.3
Clinton	-2.1	-18.8	-4.6	-7.3	-6.8	2.1	21.2	4.8	7.2	6.4
Crawford	-1.5	-21.3	-6.9	-7.0	-7.7	1.5	24.7	7.2	6.6	7.5
Dallas	-1.9	-17.1	-5.3	-6.6	-5.4	0.9	18.8	5.6	6.3	4.8
Davis	-1.1	-27.2	-2.1	-6.0	-20.0	0.6	36.9	3.3	5.4	24.2
Decatur	-1.4	-22.0	-5.3	-3.8	-13.2	1.5	26.2	5.6	3.4	14.0
Delaware	-2.1	-16.5	-2.0	-2.7	-11.8	1.6	18.3	2.1	2.1	12.5
Des Moines	-2.7	-19.4	-6.2	-4.8	-9.7	2.4	22.3	6.6	4.2	10.1
Dickinson	-1.7	-16.9	-6.2	-7.2	-2.8	0.5	17.6	5.9	7.0	2.2
Dubuque	-1.8	-13.3	-1.8	-2.3	-8.0	1.4	13.8	1.9	1.5	8.0
Emmet	-1.7	-22.1	-6.2	-12.2	-3.9	1.2	26.5	6.5	13.2	3.2
Fayette	-2.0	-27.2	-5.0	-8.1	-16.0	2.0	35.5	5.4	7.8	18.4
Floyd	-2.0	-20.3	-5.7	-6.2	-8.9	1.9	23.6	5.9	5.9	9.2
Franklin	-2.0	-23.7	-5.6	-9.2	-9.2	2.0	28.9	5.4	9.6	9.4
Fremont	-1.4	-15.5	-5.3	-5.1	-6.0	1.1	16.1	5.3	4.8	5.3
Greene	-1.1	-16.8	-7.8	-5.5	-3.5	0.8	18.6	8.4	5.2	2.8
Grundy	-2.0	-19.7	-6.4	-6.8	-7.9	2.0	22.8	7.0	6.7	7.6
Guthrie	-3.1	-25.0	-6.7	-6.2	-12.5	2.9	31.1	6.9	6.1	13.2
Hamilton	-2.0	-24.1	-5.6	-10.7	-9.0	2.0	29.5	5.8	11.7	8.6
Hancock	-1.9	-23.5	-6.2	-8.2	-10.3	1.8	28.7	6.4	8.3	10.7
Hardin	-1.9	-18.6	-5.4	-8.9	-4.6	1.8	20.9	5.5	9.2	4.0
Harrison	-2.0	-25.5	-6.2	-9.7	-9.5	1.7	31.4	6.1	9.9	9.5
Henry	-1.1	-21.4	-6.3	-4.0	-11.6	0.7	25.2	6.5	3.4	12.2
Howard	-1.1	-23.8	-4.0	-7.5	-12.3	1.9	29.2	4.5	7.4	12.9
Humboldt	-1.4	-20.7	-8.8	-8.0	-5.4	1.4	24.1	9.6	8.1	4.8
Ida	-2.6	-18.8	-6.0	-6.7	-6.2	2.6	21.1	5.9	6.7	5.6
Iowa	-1.9	-18.0	-4.5	-5.9	-7.0	1.5	19.9	4.7	5.6	6.6
Jackson	-1.5	-14.6	-2.9	-4.1	-7.0	1.1	15.1	2.6	3.8	6.5
Jasper	-0.7	-15.4	-5.9	-5.6	-4.1	1.0	16.3	6.3	5.1	3.4

Table 3. Percentage Change in Number and Size (in Acres) of Farms in Iowa Counties, 1975-1992 (continued).

County	Farms					Acres				
	1990- 1992	1975- 1990	1985- 1989	1980- 1985	1975- 1979	1990- 1992	1975- 1990	1985- 1989	1980- 1985	1975- 1979
Jefferson	-2.6	-33.0	-6.0	-10.8	-19.1	1.8	46.4	6.0	11.2	22.3
Johnson	-1.5	-13.5	-4.9	-5.9	-1.9	0.0	10.9	2.6	5.9	0.9
Jones	-2.6	-21.1	-4.9	-9.6	-7.5	2.7	24.5	4.9	10.1	7.0
Keokuk	-2.0	-26.1	-6.4	-9.8	-11.6	1.7	33.2	6.8	10.2	12.2
Kossuth	-1.8	-20.2	-6.0	-6.2	-8.9	1.7	23.1	6.1	6.1	8.7
Lee	-2.0	-25.2	-5.7	-2.8	-17.6	1.7	32.0	6.0	2.2	20.6
Linn	-1.8	-11.2	-5.1	-3.8	-2.1	0.9	10.4	5.0	3.3	1.4
Louisa	-3.2	-24.1	-4.5	-6.9	-13.2	3.0	29.1	4.3	6.8	14.4
Lucas	-1.5	-28.4	-6.8	-13.1	-11.6	0.8	35.2	5.4	14.4	12.1
Lyon	-2.4	-14.6	-6.1	-7.0	-1.4	2.4	15.2	6.6	7.0	0.4
Madison	-1.9	-24.5	-5.4	-10.4	-10.1	2.1	30.3	5.8	10.7	10.2
Mahaska	-0.9	-23.7	-5.6	-3.9	-15.1	0.7	27.8	5.0	3.3	17.1
Marion	-2.7	-21.1	-5.9	-5.6	-11.3	2.2	22.6	4.6	4.9	11.8
Marshall	-1.9	-19.7	-5.3	-8.1	-6.8	1.2	22.6	5.6	8.2	6.4
Mills	-3.1	-20.0	-3.0	-9.5	-7.5	2.4	23.3	3.0	9.9	7.1
Mitchell	-2.1	-17.5	-5.0	-3.9	-9.6	2.0	19.1	4.8	3.6	9.7
Monona	-2.4	-21.3	-4.4	-9.0	-7.4	2.6	24.2	3.9	9.2	7.1
Monroe	-1.4	-21.5	-2.7	-7.4	-12.9	1.1	25.7	2.8	7.3	13.9
Montgomery	-1.4	-17.9	-6.8	-6.3	-6.0	1.1	19.7	7.1	6.0	5.4
Muscatine	-1.1	-15.2	-3.2	-8.7	-1.9	0.7	16.1	3.4	8.6	1.2
O'Brien	-0.8	-13.0	-9.1	-2.9	-1.4	0.7	13.5	10.1	2.3	0.8
Osceola	-1.4	-16.1	-6.3	-7.1	-2.3	1.5	16.7	6.4	6.8	1.4
Page	-1.0	-16.2	-5.8	-3.7	-7.7	0.9	17.2	5.7	3.3	7.4
Palo Alto	-1.1	-17.1	-6.0	-6.5	-3.6	0.8	18.8	6.3	6.4	2.8
Plymouth	-2.9	-11.7	-4.9	-4.7	-2.5	2.6	11.3	4.8	4.3	1.8
Pocahontas	-2.0	-16.8	-6.5	-7.8	-2.5	2.0	18.2	6.6	7.8	1.6
Polk	-2.0	-26.1	-4.7	-7.0	-14.9	0.4	29.4	2.0	7.0	16.2
Pottawattamie	-2.5	-19.0	-5.9	-9.0	-5.0	2.0	21.4	5.5	9.1	4.6
Poweshiek	-1.9	-20.8	-4.6	-7.6	-8.5	1.7	24.4	4.6	7.6	8.2
Ringgold	-1.4	-25.8	-5.4	-9.8	-11.8	1.2	32.9	5.7	10.1	12.5
Sac	-1.0	-17.7	-8.9	-3.4	-6.4	0.6	19.2	9.5	2.9	5.8
Scott	-2.1	-17.9	-4.8	-8.0	-4.3	0.8	19.8	4.7	7.9	3.9
Shelby	-2.6	-14.6	-7.1	-5.2	-2.2	2.6	15.1	7.3	5.1	1.1
Sioux	-2.0	-9.5	-4.8	-2.3	-2.7	2.1	8.8	4.9	1.8	1.8
Story	-1.8	-16.9	-6.6	-4.0	-7.4	1.0	18.1	6.5	3.8	6.8
Tama	-2.2	-20.1	-6.1	-5.1	-10.3	1.9	23.5	6.4	5.0	10.6
Taylor	-1.3	-26.2	-6.1	-13.7	-7.8	1.1	33.5	6.4	15.0	7.6
Union	-1.5	-24.4	-5.5	-7.6	-12.2	1.0	30.4	5.6	7.6	13.0
Van Buren	-2.6	-29.7	-7.1	-9.7	-16.2	1.8	39.9	7.4	10.0	18.4
Wapello	-1.1	-36.2	-6.3	-6.9	-26.1	0.7	53.8	6.5	6.9	33.7
Warren	-2.4	-17.0	-5.2	-4.2	-7.2	2.3	17.6	4.5	3.8	6.8
Washington	-2.6	-19.0	-5.7	-3.9	-9.9	2.4	21.1	5.7	3.7	9.8
Wayne	-1.4	-22.1	-6.3	-6.0	-11.6	1.4	26.0	6.3	5.7	12.1
Webster	-2.5	-14.7	-4.7	-7.2	-3.5	2.0	15.3	4.8	7.1	2.7
Winnebago	-1.4	-22.9	-6.3	-10.2	-8.3	1.2	26.8	5.8	10.8	8.2
Winneshiek	-2.5	-19.4	-2.9	-5.0	-11.0	2.3	22.2	2.8	4.7	11.3
Woodbury	-2.2	-30.1	-5.5	-11.0	-15.5	1.8	41.0	5.7	11.8	17.5
Worth	-1.5	-27.5	-6.8	-13.1	-7.7	1.1	35.4	6.9	14.4	7.4
Wright	-2.3	-27.3	-5.3	-9.6	-14.0	2.2	35.6	5.3	10.2	15.4
State of Iowa	-1.9	-20.0	-5.3	-6.8	-8.5	1.6	22.9	5.3	6.7	8.4

Figure 1. Number of farms in Iowa, 1975-1992.

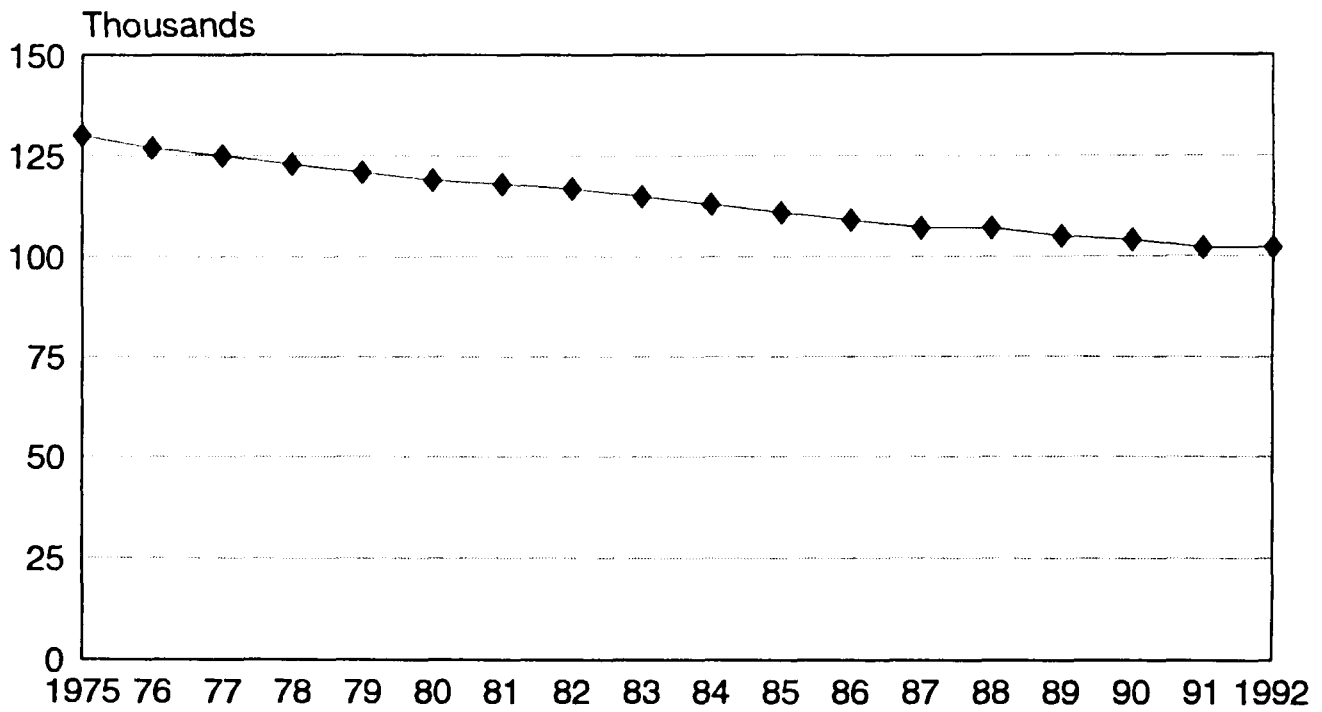
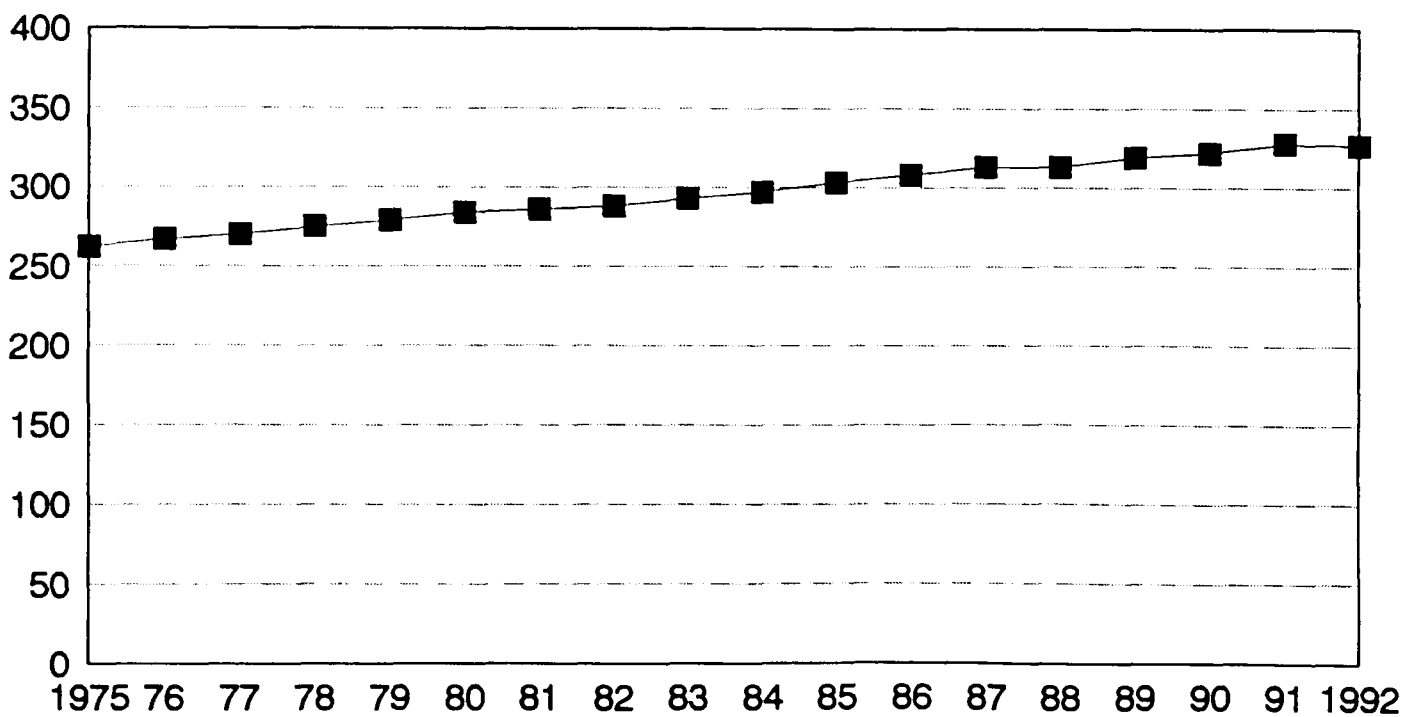


Figure 2. Average size (in acres) of farms in Iowa, 1975-1992.



Value of Farm Land in Iowa's Counties: 1950-1992

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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 \$1,249 in 1992 (Figure 1).

Although counties generally follow the state trends from 1950 to the present, the value of an acre of farm land varies considerably across Iowa. In 1992, for example, the value in Decatur was estimated at \$536, while it was \$1,956 in Scott. Twenty-two counties had values below \$1,000 per acre, while 26 were at \$1,500 or more. 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 somewhat 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% in 16 counties, while gains of at least 30% occurred in 15 others.

In the decade of great gain (the 1970s), farm land jumped in value by at least 450% in seven counties (Chickasaw, Floyd, Franklin, Hancock, Kossuth, Winnebago, Worth), most of which are in north-central Iowa. Although all gained by at least 300%, 20 increased by less than 350%. In contrast, all counties had lower farm land values in 1990 than in 1980. Eight (Cerro Gordo, Floyd, Fremont, 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 1992. In the first period, declines reached 63.3% for the state (Table 3). In no county did the value of farm land drop by less than 60%. In some, the figures for 1986 were only about a third of what they had been for an average acre in 1981.

Table 1. Value (in \$ per acre) of Farm Land in Iowa Counties, 1950-1992.

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

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

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

County	1991- 1992	1986- 1992	1981- 1986	County	1991- 1992	1986- 1992	1981- 1986
Adair	2.9	52.9	-62.9	Jefferson	4.5	63.0	-61.0
Adams	2.4	54.1	-62.2	Johnson	3.2	49.6	-60.6
Allamakee	1.9	55.1	-62.8	Jones	1.8	45.0	-60.7
Appanoose	5.7	58.4	-65.1	Keokuk	4.0	63.7	-60.3
Audubon	2.7	67.1	-61.8	Kossuth	0.2	65.0	-66.1
Benton	2.4	58.5	-63.1	Lee	5.0	54.6	-64.1
Black Hawk	2.2	51.7	-65.4	Linn	2.1	45.6	-61.0
Boone	2.4	59.8	-63.2	Louisa	3.2	55.1	-60.6
Bremer	1.8	53.5	-65.0	Lucas	5.8	58.9	-64.0
Buchanan	1.9	52.0	-64.4	Lyon	2.4	76.5	-64.8
Buena Vista	1.6	72.0	-64.9	Madison	2.7	64.0	-63.0
Butler	1.6	51.2	-65.6	Mahaska	4.4	64.8	-62.1
Calhoun	2.1	69.7	-64.4	Marion	5.2	58.9	-63.5
Carroll	2.5	75.9	-63.6	Marshall	2.9	58.3	-62.3
Cass	2.3	55.7	-61.8	Mills	1.9	47.2	-62.7
Cedar	2.2	44.3	-60.4	Mitchell	1.9	43.7	-66.2
Cerro Gordo	1.2	50.3	-66.5	Monona	2.9	66.1	-60.6
Cherokee	2.6	73.7	-63.5	Monroe	4.9	64.2	-62.7
Chickasaw	1.8	50.9	-65.0	Montgomery	2.0	46.2	-62.7
Clarke	4.9	61.4	-64.2	Muscatine	2.5	46.7	-60.8
Clay	1.6	73.1	-64.6	O'Brien	2.4	76.2	-64.2
Clayton	1.8	57.1	-63.6	Osceola	2.4	76.4	-64.1
Clinton	1.7	40.7	-60.6	Page	1.9	46.2	-64.0
Crawford	2.7	70.2	-62.6	Palo Alto	0.9	69.4	-64.7
Dallas	2.4	66.4	-63.2	Plymouth	2.7	68.6	-62.4
Davis	4.9	54.6	-63.4	Pocahontas	0.9	64.9	-65.8
Decatur	5.7	64.4	-64.6	Polk	3.0	59.1	-64.2
Delaware	1.9	48.9	-62.7	Pottawattamie	2.2	55.7	-62.5
Des Moines	4.5	56.1	-62.7	Poweshiek	3.4	56.4	-61.4
Dickinson	2.4	80.8	-64.4	Ringgold	4.1	57.2	-63.9
Dubuque	1.8	51.2	-63.2	Sac	2.5	75.8	-63.7
Emmet	1.7	73.3	-64.0	Scott	1.7	42.2	-60.5
Fayette	1.9	50.2	-64.4	Shelby	2.7	59.4	-62.6
Floyd	1.9	45.0	-65.9	Sioux	2.6	72.9	-63.6
Franklin	0.7	57.7	-66.0	Story	2.5	60.8	-63.4
Fremont	1.9	49.2	-61.9	Tama	2.7	57.7	-63.5
Greene	2.5	67.6	-64.1	Taylor	3.2	53.6	-62.9
Grundy	2.3	55.5	-64.5	Union	4.3	57.1	-64.3
Guthrie	2.6	65.7	-61.9	Van Buren	4.8	56.9	-62.8
Hamilton	1.6	61.7	-64.6	Wapello	4.4	62.2	-61.8
Hancock	0.6	56.8	-66.4	Warren	4.3	62.7	-65.0
Hardin	1.6	59.7	-64.2	Washington	4.1	61.7	-60.1
Harrison	2.6	63.8	-61.8	Wayne	5.6	59.7	-65.1
Henry	4.4	59.4	-62.1	Webster	1.6	62.4	-64.9
Howard	1.8	52.3	-65.2	Winnebago	0.6	59.3	-66.7
Humboldt	0.8	59.5	-66.0	Winneshiek	1.9	51.7	-64.4
Ida	2.7	70.2	-62.5	Woodbury	2.8	66.9	-61.6
Iowa	3.4	59.1	-61.7	Worth	1.2	54.0	-66.4
Jackson	1.8	42.6	-62.0	Wright	0.8	62.5	-65.7
Jasper	3.7	55.0	-61.7				
				State of Iowa	2.5	58.7	-63.3

Farm land values escalated again from 1986 through 1992; the average acre in Iowa gained 58.7% in value. Although the losses from 1981 through 1986 had a relatively small range (-60.1% through -66.7%) across counties, the gains in the following years varied to a somewhat greater degree. Twenty-three counties had increases in farm land values of at least 65%, while the gains in 15 others were less than 50% (Figure 2). Increases from 1986 to 1992 were greatest (+75%) in six counties in northwestern Iowa (Carroll, Dickinson, Lyon, O'Brien, Osceola, Sac).

Note: Annual data from 1950 through 1991 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, 1950-1992.

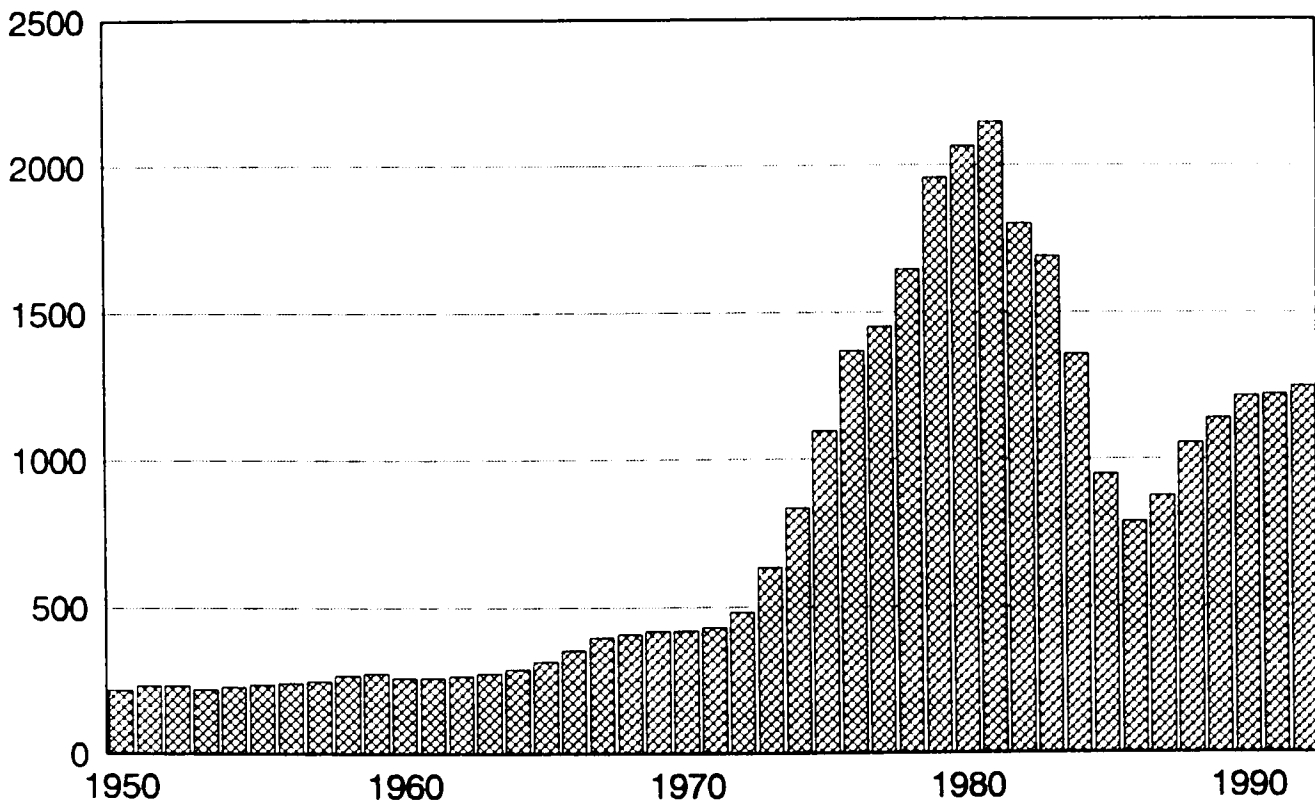
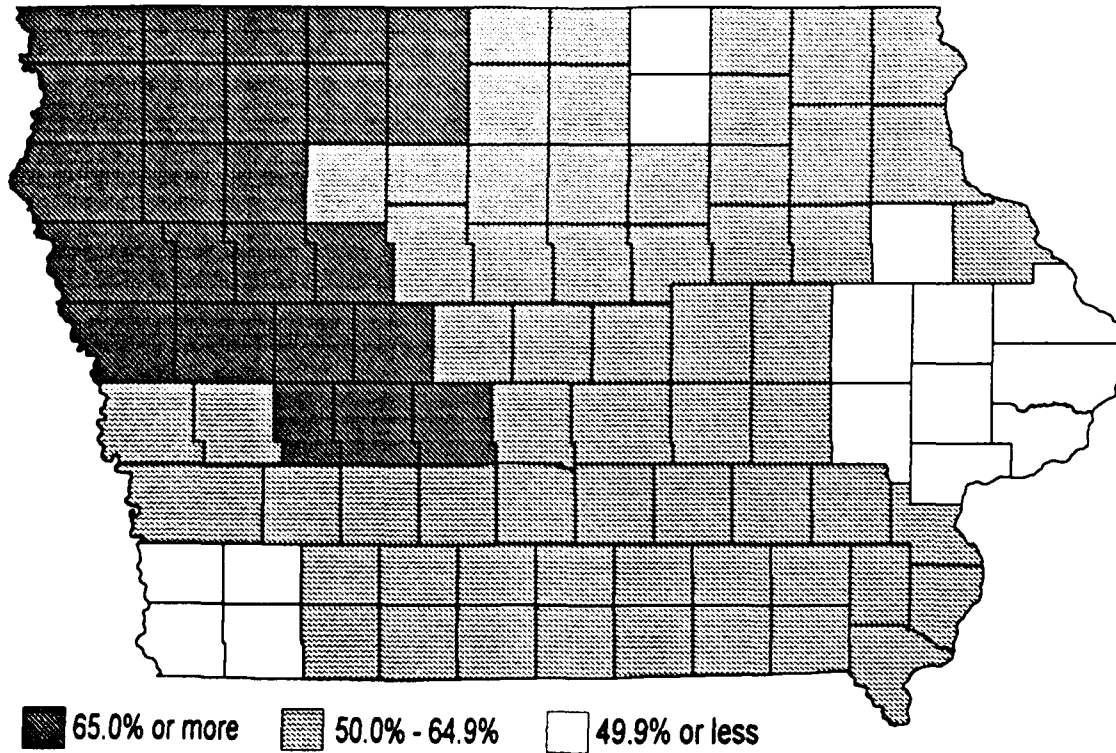


Figure 2. Percent increase in per acre value of farmland, 1986-1992.



Corn and Soybean Production in Iowa's Counties:

1975-1992

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

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.

Corn Production

Nearly 13 million acres of corn were harvested for grain in 1992 (Table 1). These acres generally increased from 1987, when about 10 million acres were harvested (Figure 1). Production averaged about 13 million acres from 1975 through 1985 except for 1983, when less than 9 million acres of corn were harvested. Weather is the key factor influencing differences from one year to the next in the number of acres harvested for grain, although federal agricultural policy and other factors can affect planting and harvesting as well.

In 1992, more than 1.9 billion bushels of corn were produced, a figure higher than the next highest year (1981) by 172 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 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 five of the 18 years examined was the average below 100 bushels per acre (Table 3, Figure 2); the years 1983 and 1988 were joined by the three at the beginning of the period (1975-1977). The 1992 average of 147 bushels of corn per acre harvested for grain was more than 10 bushels higher than the figure of 135 for 1986, which was the second highest.

Counties vary in corn production (Tables 1, 2, 3). Both the acres harvested and the bushels of corn produced vary by the amount and quality of farmland available for such production. The average bushels produced per acre controls for the amount of land planted in corn. In 1992, for example, average yield of corn was at least 150 bushels per acre in 33 counties (Figure 3); these counties tended to be in the central, north central, and southwestern sections of the state. Nine of these counties reported yields of at least 160 bushels per acre (Boone, Calhoun, Greene, Hamilton, Hardin, Pocahontas, Sac, Story, Webster). Yields were under 140 bushels per acre in 32 counties, although they were less than 120 bushels per acre in only four counties (Appanoose, Decatur, Jackson, Wayne).

Soybean Production

The number of acres of soybeans harvested generally has risen slowly from the beginning to the end of the period examined (Table 4, Figure 1). The low point occurred in 1976, when 6.5 million acres of soybeans were harvested; 8.6 million acres were harvested in 1991, which was at least 180,000 acres more than any other year.

The greatest number of bushels of soybeans was harvested in 1992 when nearly 364 million bushels were produced. That exceeded the previous record of nearly 351 million reported in 1986. Of the 18 years noted in Table 5, only in 1976 were fewer than 200 million bushels produced; indeed, harvests topped 300 million bushels during 1979-1992 all years except three (1983, 1984, 1988).

Table 1. Estimated Acres of Corn Harvested for Grain in Iowa Counties, 1975-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	112400	109200	111700	105700	91700	89500	101900	111800	113500	73200	114900	120100	116000	116000	109000	109900	108800	101300
Adams	62900	60000	62500	60500	54900	49700	57900	64400	60800	45700	68300	79600	74000	73000	67000	68000	68300	62100
Allamakee	72700	71400	68400	65500	54500	62100	74000	81100	78600	51300	85800	88700	76000	75000	75000	69600	64900	63400
Appanoose	32900	31900	30500	29600	23500	26100	35400	42000	32000	19500	34600	41300	38000	37000	37000	39400	40100	39200
Audubon	109600	107900	109200	107600	98800	93500	110900	125800	117300	85500	123900	127200	128000	124000	122000	110700	115800	108200
Benton	180900	179200	175200	175400	156000	152500	177000	198300	190000	122100	181300	180700	175000	173000	185000	172100	176600	173500
Black Hawk	153800	143300	149700	148800	129700	120300	144500	163200	161300	105300	142400	152600	152000	146000	146000	143000	141700	143100
Boone	140700	132500	133800	135400	119000	108200	120700	134400	127100	87400	148300	151500	154000	153000	151000	153900	158100	154000
Bremer	123100	113000	115200	113500	93200	89400	107900	119500	116300	69700	115500	127600	117000	110000	109000	108400	114400	107200
Buchanan	180500	181100	177300	172300	149500	142600	164200	188700	180400	129400	171000	178000	166000	165000	156000	164800	169100	153400
Buena Vista	164200	150700	154600	158500	138600	122200	144700	160800	157000	107100	164600	175600	170000	169000	167000	162900	163500	159500
Butler	158200	145500	153700	148800	136100	126800	155200	179500	169700	104000	163700	175700	169000	169000	168000	164100	170700	157200
Calhoun	163400	144500	151600	153000	131300	116800	154500	176000	172500	104000	158800	159500	158000	155000	150000	152100	157300	156700
Carroll	160500	158900	160500	162400	137400	127000	142000	156700	151800	103500	159100	163900	160000	160000	154000	139400	155700	154000
Cass	133100	124700	127200	123500	108700	102300	114200	121600	118300	83900	136100	141100	129000	144000	135000	135100	130800	120200
Cedar	172700	177100	173800	167400	148500	133600	145000	164100	159600	111100	184400	182800	179000	177000	182000	171700	168800	154500
Cerro Gordo	171800	152800	166400	161500	139600	121500	146900	172600	163700	114800	168400	170000	159000	151000	151000	158800	177800	155500
Cherokee	145100	140900	143900	141500	124300	106500	122900	146100	136700	86800	147300	155600	143000	146000	148000	141500	139500	143200
Chickasaw	136300	122700	121600	121900	103900	104700	127800	140600	135400	80900	135500	135500	121000	115000	115000	108800	113000	107400
Clarke	38000	36700	35900	37300	31800	37100	44700	48000	41200	30600	49300	55600	43000	44000	44000	39500	37100	29400
Clay	143900	133000	135200	134500	115600	102000	119300	132700	131500	87100	156800	158800	152000	147000	142000	139800	142900	137800
Clayton	156600	147700	137600	129900	114500	135300	157400	170000	167700	110700	157700	163500	150000	148000	147000	138600	131000	123700
Clinton	196700	196100	189300	191700	165700	166600	190400	223900	227300	152000	215300	213800	209000	210000	204000	201000	201500	188000
Crawford	176000	170100	169700	171700	145100	126600	149000	172900	160900	114500	162800	173300	180000	181000	167000	167200	174900	169200
Dallas	138700	137500	137400	134300	120100	108100	125900	145800	146500	92700	145800	150300	160000	154000	149000	154500	159600	153100
Davis	43900	43900	42500	41100	38900	41500	53500	59700	50400	32300	52700	63500	55000	60000	58000	62100	62100	57400
Decatur	33600	32000	29700	32200	21300	36400	57800	64700	52400	31900	51100	57100	48000	45000	46000	45000	44200	41900
Delaware	185300	183900	177300	171600	140500	146400	160700	183000	175300	123200	177800	178900	171000	168000	162000	158100	152700	146900
Des Moines	74600	75600	73100	72300	70100	68200	91600	102200	101900	66400	92700	96500	93000	93000	93000	91900	93600	97000
Dickinson	87600	78400	85900	85400	75800	67600	81900	95700	89300	56000	94900	103000	94000	96000	95000	87700	90500	93500
Dubuque	121400	116200	113000	111500	88400	103500	114100	121200	121000	93200	129000	132000	127000	124000	115000	112500	106600	103400
Emmet	107900	96800	102600	101700	93100	79900	109600	127400	118700	76200	118000	113000	110000	106000	104000	102200	106200	104100
Fayette	200900	194400	194300	185600	153600	145600	169700	187000	182000	117200	181800	192400	188000	179000	174000	171200	170300	157700

Table 1. Estimated Acres of Corn Harvested for Grain in Iowa Counties, 1975-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	140000	130800	132200	127900	112000	109100	124900	140000	139600	80300	134200	138000	133000	128000	126000	123000	130700	124000
Franklin	183400	144900	169900	169500	146800	131500	148100	173300	165900	106800	180100	183200	179000	171000	167000	159900	169900	169400
Fremont	118400	110600	112500	114200	99100	87500	103100	118700	104000	69200	100700	112500	112000	120000	120000	122000	118700	114600
Greene	154600	146100	145400	145600	123800	108600	125900	136800	132200	89700	151500	155800	163000	157000	153000	144800	164100	161600
Grundy	163500	151400	160500	160300	139900	129400	142300	155300	154200	101200	158900	159500	152000	150000	155000	151700	163000	152000
Guthrie	112000	108600	105600	106400	97000	86900	117600	133200	121100	73000	120400	119200	111000	106000	105000	104100	102300	101900
Hamilton	168200	148600	159500	159000	135600	121800	134200	145800	138700	98700	159600	169800	170000	165000	167000	168500	177700	169300
Hancock	175000	151800	162500	162500	146800	127400	151000	172300	166300	98600	171400	175200	166000	162000	163000	163700	166800	159900
Hardin	171900	155900	167100	160900	137700	135700	157400	174300	170300	120100	171100	174400	169000	162000	166000	175300	176600	170400
Harrison	166200	156600	155900	153600	142800	127400	148800	174400	155900	96000	165100	175300	170000	166000	158000	166800	170600	160800
Henry	92000	91800	88300	88500	81200	74300	86200	97100	95100	72900	103900	112700	106000	102000	99000	104900	105500	97800
Howard	114500	102500	103900	101100	89200	83300	104700	115800	113600	72400	104100	116600	108000	100000	99000	92000	92400	87300
Humboldt	130400	99400	121600	122700	110900	95500	109900	124200	120600	76600	126700	131300	127000	125000	127000	122300	122600	124000
Ida	122600	125100	126600	125000	110100	96600	117400	136800	132400	82500	125700	129900	124000	128000	131000	125900	125700	123600
Iowa	129400	128000	121000	123700	98600	116900	137900	149200	146400	95100	154200	162900	146000	142000	139000	143900	139000	129300
Jackson	104300	101300	97700	96400	73600	85200	100700	110400	108000	72500	122100	129100	107000	104000	100000	97000	94700	93800
Jasper	169400	161700	163900	165500	146900	138700	155200	180000	173600	117700	169400	180400	174000	170000	170000	171400	175000	159000
Jefferson	72900	73900	72100	72400	60200	67400	82300	95700	86600	48700	76900	83400	76000	73000	74000	82900	79800	73400
Johnson	123900	127100	118900	118400	106600	104600	125500	145300	143400	107300	149100	149100	147000	144000	135000	138500	137000	128200
Jones	152200	150000	146200	141300	116900	121300	144100	161500	156500	105000	151800	156900	143000	142000	140000	136400	135200	127700
Keokuk	117000	120100	113100	119000	106600	104800	124800	133600	116900	85500	127300	140500	132000	126000	132000	135000	132900	122600
Kossuth	308000	237400	273900	271700	234000	205700	237500	260300	261300	180300	280300	290300	276000	274000	268000	254900	268100	270800
Lee	80500	76700	73800	71000	63700	71400	92600	105900	96900	54000	87700	88300	86000	83000	81000	89100	95200	97900
Linn	145900	149300	148800	143300	126000	119700	134200	151000	152500	103300	152700	162900	152000	152000	147000	157300	159800	152500
Louisa	88300	88700	87900	84400	82500	75600	90000	102000	97100	66500	97700	106100	97000	86000	83000	84800	82900	83600
Lucas	32200	30000	28900	29700	26900	30100	42400	46300	38800	24600	40100	48000	43000	43000	41000	39800	43500	38500
Lyon	152800	147100	142800	138000	122700	119600	140400	155400	155200	111200	153400	155700	164000	169000	154000	149100	138700	148400
Madison	73000	70500	73600	71400	62500	61600	94700	104000	91700	55800	75900	87300	88000	89000	83000	81800	85200	78000
Mahaska	123600	124200	118800	119700	104400	103500	110700	126100	120700	90600	127600	135100	136000	135000	131000	135800	143000	127700
Marion	79400	74000	74300	75800	70800	68800	84700	92500	74200	47600	77000	89800	88000	82000	79000	67100	89600	85400
Marshall	154500	146200	151200	148900	131900	127200	142100	149300	145200	95500	154000	162900	161000	156000	150000	159700	168900	157200
Mills	100100	96400	99500	96300	83200	81000	93400	101600	98200	61400	102200	114100	103000	103000	100000	94400	98600	95500
Mitchell	134600	121100	123800	120100	104400	97400	111600	123700	117800	81600	126900	124200	122000	119000	120000	114300	118600	110500

Table 1. Estimated Acres of Corn Harvested for Grain in Iowa Counties, 1975-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	167300	160600	163400	164500	144000	127600	158700	177800	154700	120500	174700	183800	164000	162000	172000	163400	167500	165000
Monroe	30600	27700	26600	29400	22800	25800	39800	43200	38500	21600	32800	38000	35000	42000	40000	41200	43200	37400
Montgomery	89700	87700	89000	87300	78300	70900	79200	83100	84200	59800	85700	96300	97000	105000	96000	95500	94900	86700
Muscatine	98700	96800	92300	95900	86300	85900	110700	127700	127600	75900	104000	107700	102000	97000	101000	92800	96900	91500
O'Brien	160800	157900	159700	156900	140000	125500	144700	162400	157500	112400	157900	162400	150000	155000	163000	151800	157200	152200
Osceola	111400	108000	107400	104900	94000	80200	95100	110000	102400	62700	106700	112100	109000	110000	106000	102500	104000	101400
Page	101900	100600	101100	97300	85500	82400	93300	100900	93000	68400	95300	103200	113000	112000	107000	106500	108800	101800
Palo Alto	158200	121500	151400	149400	131700	124700	155800	182000	164300	100000	161800	170600	160000	155000	154000	151000	159600	152900
Plymouth	226900	212900	217000	211400	187200	188700	209800	238600	231400	155400	233000	236000	234000	244000	235000	225300	223200	230600
Pocahontas	168400	146000	155600	157200	138300	121100	149800	168200	153400	97400	169900	174800	169000	162000	158000	152400	159600	156500
Polk	100500	94800	97400	99000	85000	78400	86200	98200	95000	66800	101200	116700	110000	114000	110000	119700	118000	115700
Pottawattamie	243200	235800	235200	226700	202300	198300	228700	255900	246900	147200	219500	241200	245000	214000	220000	223400	221100	217500
Poweshiek	122700	124300	122100	114500	93400	101300	112400	124500	123100	87500	145600	140600	131000	125000	130000	130100	127700	121700
Ringgold	49300	47600	45600	47700	37000	39800	63100	70000	62400	32500	54700	63600	62000	65000	62000	62100	65100	58100
Sac	157200	144500	150400	149500	133200	114700	137300	153200	148200	111700	159000	163400	169000	169000	155000	160100	155000	159200
Scott	128300	126100	122800	122500	108800	106700	114500	135600	141700	112700	148000	143700	136000	134000	135000	127300	129500	117000
Shelby	181200	175900	174500	172700	151400	133600	171000	193900	179200	109000	177900	184800	182000	182000	168000	168800	176500	164900
Sioux	236800	232800	227900	222600	202700	186000	207000	232500	218400	142700	225700	250000	236000	241000	234000	217800	194100	219900
Story	160200	155900	160500	161100	142200	122800	147600	168400	160700	96700	145500	160800	170000	164000	158000	155600	157200	153500
Tama	183700	174500	182000	180400	161400	147400	170500	196500	179000	107700	181400	190300	176000	174000	177000	179700	178200	167900
Taylor	70300	66000	67300	66500	59300	57400	75500	89800	75100	55200	71400	83600	81000	78000	71000	74200	67000	67300
Union	51800	50300	51200	46700	40000	39300	60200	67700	56400	37800	49400	62100	57000	57000	53000	51800	55400	47600
Van Buren	47800	48700	46200	44500	42900	43200	57900	69800	57100	34300	57500	64200	58000	58000	55000	58100	59800	56700
Wapello	58800	57400	55900	53300	45200	48000	50400	56500	50500	32900	59300	67400	65000	63000	62000	65700	64200	62100
Warren	79900	76900	77600	82200	64100	67600	96900	105300	92200	55300	78700	94900	87000	85000	86000	76600	86400	81800
Washington	131600	139000	134300	129800	120300	119100	141300	164900	147800	108900	152700	159900	151000	151000	150000	152700	141000	137800
Wayne	54300	50400	45100	48000	40300	45400	72500	85500	71500	37800	66400	78000	64000	61000	61000	65700	63200	56700
Webster	186000	165700	173600	171700	150900	133000	150100	161700	157600	119000	175100	188300	189000	183000	179000	180900	189000	190200
Winnebago	133700	104000	119800	116600	98900	88700	110800	118100	119000	79600	119100	129500	116000	114000	108000	109100	117700	111800
Winneshiek	130900	130800	122700	117300	88000	108800	129000	139900	135900	83700	137400	145800	141000	130000	128000	119000	116900	111500
Woodbury	207400	207200	208200	205000	185100	161700	198900	215500	199300	132100	239200	270700	251000	260000	242000	237700	235600	231900
Worth	111800	98800	103700	103000	90700	80400	102700	116900	113400	71100	111000	114600	116000	110000	110000	113700	117700	113300
Wright	174100	135500	160500	156700	139800	120000	139100	162600	163600	102300	163200	171900	179000	177000	174000	164200	168400	166600
State of Iowa	12200000	12250000	12250000	10150000	13550000	8550000	13850000	13100000	12700000	12420000	12950000	12400000	10700000	12050000	13150000	13300000	12850000	12900000

Table 2. Estimated Bushels (in 1,000s) of Corn Produced in Iowa Counties, 1975-1992.

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

Table 2. Estimated Bushels (in 1,000s) of Corn Produced in Iowa Counties, 1975-1992 (continued).

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

Table 2. Estimated Bushels (in 1,000s) of Corn Produced in Iowa Counties, 1975-1992 (continued).

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

State of Iowa 1903650 1427400 1562400 1445500 898800 1319500 1626750 1707300 1444800 743850 1578000 1731250 1463000 1663700 1477750 1092200 1173900 1117800

Table 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1992.

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

Table 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1992 (continued).

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

Table 3. Estimated Bushels of Corn Produced Per Acre in Iowa Counties, 1975-1992 (continued).

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

Table 4. Estimated Acres of Soybeans Harvested for Grain in Iowa Counties, 1975-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Adair	70800	68900	65800	67000	67800	63100	69200	64000	62900	65200	61900	61400	56500	58300	55000	54500	51900	55400
Adams	43800	44000	41700	43600	41900	44000	52500	50000	48600	44500	47500	44100	38900	37400	36000	35000	30700	33700
Allamakee	4800	4900	4400	4700	5900	3600	4200	3800	4200	4100	4000	3800	3400	3300	3000	2100	3000	3700
Appanoose	27000	26900	25000	25900	26100	25600	29200	27900	31100	30600	29000	33500	41000	40100	37000	34100	29400	32300
Audubon	71900	72500	68300	72200	70400	68000	70600	68000	73100	64200	61900	55600	53900	53900	49000	41500	36200	41200
Benton	133500	133500	126000	131800	130300	122400	129300	126300	125600	127000	128500	116900	114400	115400	110000	99500	93300	97300
Black Hawk	92900	98800	84200	88800	85100	91000	89800	90400	89500	85600	94800	88500	94500	95100	85000	79700	68200	81900
Boone	120800	121000	112400	116900	115600	116600	114800	116500	121700	119900	119600	121300	120100	119000	110000	108500	104300	110900
Bremer	61900	61900	52500	54600	54200	55000	60900	55500	56200	57100	59800	63800	75300	73800	64000	63800	51000	57000
Buchanan	77800	75400	68000	74800	69900	67900	65600	61400	66500	66100	75600	82300	93200	94200	78000	73100	61800	76400
Buena Vista	137700	145200	135000	130800	130500	122900	126900	123500	127200	121500	131300	126400	133000	132300	126000	119500	110500	116700
Butler	89800	100600	81400	85600	88400	81700	93200	84300	87600	86900	95900	102700	114300	110000	95000	91000	80900	82500
Calhoun	148800	170000	147800	152300	149200	144400	144600	138400	148500	141300	143400	140300	148900	150600	143000	142400	134000	141800
Carroll	117800	114200	111300	114800	116500	109600	104400	97100	103200	101900	107800	103000	103300	101300	92000	90600	81300	85600
Cass	85600	87200	85200	86500	84100	79500	78000	75900	74500	77700	81200	71600	70300	67600	63000	62700	61000	61100
Cedar	79400	73500	74200	78300	74500	70000	79100	73100	73000	70100	71700	70500	75000	72400	69000	59400	55200	66300
Cerro Gordo	98600	112300	99300	103300	99600	100600	119700	112300	118400	108800	114700	109900	112300	113800	110000	103300	93800	97300
Cherokee	112800	109100	103400	106100	105600	96300	102900	96500	95700	93000	95900	94600	96400	94800	88000	84000	71000	76700
Chickasaw	69700	70500	61400	62700	63200	58300	62800	60100	66500	67800	70900	76300	75300	73800	65000	62200	53100	59200
Clarke	25800	27200	24600	26100	25000	26700	31900	31900	34400	33700	33400	28300	32300	30800	29000	23700	22300	24300
Clay	127800	128800	123400	127800	129500	119500	130800	124500	128000	115900	124700	120400	128200	126900	119000	114100	105500	111900
Clayton	6000	5300	4400	4900	6900	7000	5100	4800	5200	5100	5200	5800	7100	7000	6000	5000	3400	4200
Clinton	77900	74500	73100	76900	65300	66200	76200	71300	72400	65400	66300	66500	68900	70300	64000	56500	45500	53500
Crawford	107800	113500	103900	108800	105500	92100	93700	88100	88600	89100	96900	87800	82000	82200	69000	69100	54900	60300
Dallas	108200	108300	101100	108000	103600	101600	108100	109400	109400	108000	117500	111600	105800	107800	98000	92200	88400	94700
Davis	28900	29500	28400	30700	33000	36100	44400	42100	42900	44400	40900	40800	50800	50400	44000	40300	34400	34300
Decatur	25000	27400	25900	30600	31500	32600	40500	38900	42700	39000	41400	38000	39900	37800	37000	24600	21400	23900
Delaware	31900	28100	27500	29200	27600	24900	27300	25000	24700	24000	24800	28000	32800	30300	26000	25000	21500	26900
Des Moines	60900	57900	53400	58000	50500	47700	47800	46000	46800	48600	54700	48200	56600	55400	50000	45000	42900	50200
Dickinson	74800	80500	71000	73400	74000	73000	73400	71800	73300	73300	79900	77600	83500	80700	76000	72500	69800	71400
Dubuque	6000	4800	4500	5400	5200	4000	3000	2900	3100	2700	2800	2800	2400	2300	2000	1400	2300	2700
Emmet	89800	97400	89200	90300	90300	88700	93400	92400	93100	91900	95700	91400	97300	96800	94000	91300	81100	87400
Fayette	76800	75100	67500	68200	70400	70900	76800	73800	77300	71900	75900	79700	87900	86200	76000	69500	56200	65400

Table 4. Estimated Acres of Soybeans Harvested for Grain in Iowa Counties, 1975-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Floyd	91800	95400	93100	96300	95800	92800	107800	102900	110700	105800	109700	105600	105200	104500	97000	91200	86200	89500
Franklin	115700	143900	115700	124000	122100	116700	138700	128300	129100	120700	124300	115800	124300	126500	116000	112500	97500	104400
Fremont	105800	106100	104000	105400	108400	107600	106700	103600	96900	97900	114500	108000	113300	108500	100000	90500	77500	83300
Greene	141800	144500	134100	142800	142400	139200	139800	134200	143500	132800	138600	129700	135400	136500	128000	128500	120100	122900
Grundy	116800	122500	109700	107000	103500	107600	119700	116500	119700	107000	104600	100700	104900	106800	100000	89100	83600	88400
Guthrie	78900	79700	74700	78800	77100	72500	71900	69300	76100	72500	74100	70100	65700	66300	64000	64400	57400	61400
Hamilton	133800	145400	128400	130900	130500	126500	127300	126100	131200	129000	144300	141000	146700	143600	134000	129300	126300	128600
Hancock	111800	130200	117400	121900	117300	116400	134900	132400	135700	126500	131400	121600	124500	125500	126000	124000	117600	121200
Hardin	112800	123900	105700	111800	110600	109600	118700	114500	122200	107000	114500	108600	111400	112800	101000	94400	86800	98800
Harrison	116800	120100	118300	122700	118500	107500	106100	107600	112100	108200	121500	113200	109400	110000	93000	82900	74800	80900
Henry	58900	56200	54800	56400	50700	52400	64000	61100	59600	55300	53700	55200	57700	56900	55000	47900	44600	52400
Howard	68300	73000	65500	68700	70700	66800	78300	71600	75400	72800	75600	73500	73000	74500	64000	58000	47200	56400
Humboldt	107800	135800	106400	112000	106500	105700	105600	107400	112200	109300	120500	108100	110300	111200	110000	107200	100400	104600
Ida	78900	76600	72000	75200	74900	72900	74000	74100	74800	65900	64500	61600	62400	58900	54000	51700	44300	49800
Iowa	50700	45700	44800	51600	48900	46100	55700	51100	50300	41700	46800	43200	46000	44900	40000	37100	32700	39200
Jackson	8900	8800	8800	10300	10100	9000	9400	8500	8600	8500	9200	8900	9900	9300	9000	6900	5600	6700
Jasper	100800	102700	93900	103700	101600	105100	112500	103500	105700	97200	100800	90400	88100	85200	80000	72000	69900	74800
Jefferson	53900	56200	54100	59800	53900	57000	69500	65500	64700	57000	60000	58300	57100	56600	54000	51800	48100	50900
Johnson	61800	57600	56500	59300	55200	56600	59700	54600	57600	51200	54200	55300	61700	61500	57000	52500	47200	51600
Jones	45700	45000	42700	44800	43400	42000	43000	41600	43900	40800	41000	42700	43700	41200	37000	31700	28000	33600
Keokuk	65500	61100	55800	63900	65200	61100	63500	60800	62700	61200	67200	67500	64100	63300	55000	47500	42900	51400
Kossuth	217500	267400	228700	235900	234000	235200	271200	269900	264700	255300	255200	241200	247000	248400	247000	237800	216800	234900
Lee	59900	59700	53400	59200	57500	60400	63000	57800	56800	57600	65300	63500	63500	62100	58000	44700	38800	44300
Linn	87500	85100	81900	90000	86400	85300	91600	88400	88400	88800	99300	95800	95100	94800	85000	75100	65000	74000
Louisa	60900	57200	53900	58500	54200	52800	58400	52900	54900	51200	56000	51800	50000	49100	47000	46600	42800	51500
Lucas	18800	21100	19100	21400	21600	21400	26500	25900	27700	24600	25200	22300	25700	24500	24000	18700	19500	20800
Lyon	116800	114600	113400	119900	112500	109400	111900	113600	118800	104700	107600	104700	101700	98900	82000	77200	70800	74300
Madison	53500	56200	51700	54200	53800	49100	57200	55500	59500	51800	58900	57200	56700	54900	51000	47800	44300	42700
Mahaska	79500	78300	71300	79800	81200	75100	83300	76300	72000	74400	77400	78900	76800	76800	72000	65400	61000	66500
Marion	58500	58700	54800	59600	57300	55300	57600	52700	55600	53900	55100	54200	56000	52800	52000	41600	38900	43400
Marshall	84900	86800	79000	87800	85100	85000	94300	93400	91300	89800	90000	86800	84300	85700	75000	69600	60500	68800
Mills	83800	83900	80300	84000	85200	84300	97900	92700	90600	80100	87100	77400	79400	76500	74000	73200	63700	66900
Mitchell	78900	83200	74200	74700	74600	75000	80100	80600	88700	83800	86000	85500	93600	94600	79000	73200	67500	76100

Table 4. Estimated Acres of Soybeans Harvested for Grain in Iowa Counties, 1975-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975
Monona	111800	115800	109400	109500	111500	100500	108700	105500	109300	101600	104100	99800	100200	96800	90000	84500	73500	77800
Monroe	16800	18200	18100	19500	19200	19900	22700	20500	22700	21900	23300	22600	26300	26100	25000	21800	19400	20900
Montgomery	73800	74500	71000	74400	71500	75700	78300	71700	70300	65600	76100	69500	67400	69800	65000	63300	57600	61400
Muscatine	59800	57900	53000	57400	53800	51000	57500	54900	53200	53000	52900	50800	50000	50500	50000	44400	43700	49100
O'Brien	139700	140300	135300	136600	133500	126500	135900	132500	138300	130300	135200	126400	136500	131000	125000	118300	109200	117600
Osceola	101800	103000	99200	105900	100600	94200	93800	92500	101200	94000	98500	97900	102500	98600	89000	83700	76600	80100
Page	87800	92200	89600	91500	90100	90200	87500	83500	90600	85900	93600	85500	83400	87700	81000	81400	72100	80100
Palo Alto	125700	156200	126200	134800	132500	131500	133600	130500	138500	129300	135800	135100	146000	145300	136000	132200	125200	131800
Plymouth	147600	152200	142600	146800	136400	130200	130500	126300	131500	116800	125600	126500	118600	111700	97000	90500	78100	82600
Pocahontas	152000	168100	145400	151900	148400	144300	148000	147300	154000	145600	151800	147400	153900	154200	147000	150900	142800	147000
Polk	81900	80200	75200	79200	77200	76300	81000	80700	84300	75300	88400	89300	94100	90500	84000	83500	78600	82900
Pottawattamie	166200	171200	161800	166500	163200	158000	159800	161900	155200	146200	159500	143000	139800	128600	125000	118700	115200	123500
Poweshiek	78900	77700	71800	79900	79100	79800	88700	81000	79300	78000	78100	70800	70000	69500	64000	57300	54100	61400
Ringgold	35800	40200	39800	41600	43100	43900	55400	52300	57300	55400	58900	50600	52400	49900	49000	37800	33600	37600
Sac	125700	131100	119300	124700	123400	122300	123500	116600	123800	108700	119600	109500	109400	108500	100000	97100	85300	91500
Scott	48800	46400	48000	48600	41100	40400	46500	42200	42000	39500	38100	38400	42300	41700	39000	37900	32800	38700
Shelby	95900	95500	92300	97500	94500	88400	88500	87500	95900	83900	85000	79600	77900	77000	64000	61500	54600	59700
Sioux	142500	137600	128900	136700	127200	120500	120900	116600	125400	110700	111000	100600	104400	99800	86000	76800	66400	70500
Story	124700	126900	121000	123900	120400	120600	125700	121500	131200	122800	135900	133000	131100	130100	117000	111500	108700	114200
Tama	101700	104500	95800	107000	103500	104600	112500	109200	108600	97500	110500	104700	105300	105400	95000	88200	76800	84000
Taylor	54400	57000	52600	56100	57800	62600	74100	68700	67400	64900	66600	62500	57000	58600	56000	46700	40300	45600
Union	36700	35800	31700	33300	33500	30800	36100	32900	36100	31700	33800	28600	30600	29900	28000	25300	22900	24400
Van Buren	37800	39300	36600	39600	37600	38800	47700	46700	50400	49700	47300	45400	47000	45800	45000	36600	33500	37300
Wapello	47900	47800	44700	46400	45000	46100	45500	44700	47300	47500	51800	52100	54300	52800	46000	46400	42400	45600
Warren	54300	57100	48900	52600	51900	50100	50600	48900	52700	53500	60600	53300	55900	55500	54000	38400	37600	42700
Washington	77900	71800	68600	73700	73200	69500	69900	69100	69900	63100	71700	68300	72100	70800	64000	56800	54600	65600
Wayne	37800	39200	38400	40200	41000	40600	50300	47600	52200	51900	50400	54400	54200	50700	49000	36200	35700	40000
Webster	170700	182100	166000	175900	170300	165700	172700	168700	181400	171500	177800	172800	179200	180600	172000	165400	159000	162500
Winnebago	76900	103400	83600	84300	84100	83600	97700	95500	94400	90700	96900	92500	106300	104700	97000	99800	87800	89700
Winneshiek	19900	19200	16100	18000	19900	17600	18200	16700	17400	17800	18600	17500	18100	18500	16000	15200	12300	15200
Woodbury	101900	105500	93600	95700	93100	90600	93200	89600	96100	85900	100600	91800	87500	82000	74000	70800	59600	68100
Worth	73700	79600	70900	72000	72300	72700	85400	82300	84700	83000	90600	85200	91600	92100	82000	77700	73000	78300
Wright	140500	171200	141300	147000	142300	141600	159700	161100	159800	156200	161800	152900	164600	159700	151000	144300	138500	139500

State of Iowa 8270000 8630000 7900000 8280000 8100000 7900000 8450000 8150000 8400000 7960000 8400000 8050000 8270000 8170000 7550000 7080000 6450000 6970000

Table 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1992.

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

Table 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1992 (continued).

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

Table 5. Estimated Bushels (in 1,000s) of Soybeans Produced in Iowa Counties, 1975-1992 (continued).

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

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1992.

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

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1992 (continued).

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

Table 6. Estimated Bushels of Soybeans Produced Per Acre in Iowa Counties, 1975-1992 (continued).

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

The record number of bushels produced in 1992 provided a record yield per acre as well (Table 6, Figure 2). The average number of bushels of soybeans harvested per acre was 44 that year, which was a half bushel higher than the previous record of 43.5 in 1987. Average yields have been at least 35 bushels per acre most years since 1977. Yields in 1984 and 1988 were somewhat lower, however.

Soybean production varies across counties, of course (Tables 4, 5, 6). The average number of bushels produced in 1992 was at least 45.0 bushels per acre in 25 counties (Figure 4), with two (Boone, Clinton) reporting at least 48.0. Fourteen counties harvested fewer than 40.0 bushels of soybeans per acre in 1992, although only three (Allamakee, Howard, Winneshiek) had yields below 35 bushels per acre.

Concluding Comment

The number of acres of corn harvested for grain surpasses that of soybeans in each year reported (Tables 1, 4; Figure 1). The margin ranges from 590,000 acres in 1983 to more than six million in 1976. Differences vary from 4.5 to 5.8 million acres in 11 of the 18 years examined. In five of the seven 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 1990-1992 are available on one page per crop per year. For earlier periods, request IOWA CROP COUNTY ESTIMATES: HISTORICAL SERIES: 1975-1989 (\$4.00; make checks payable to the Iowa Department of Agriculture). Historical data from 1950-1977 are available as well, although the original publication is out of print. Some libraries have a copy, and one is available through loan from Iowa Agricultural Statistics. These publications also include data on the number of farms, acres of land in farms, and average farm size in acres.

Figure 1. Acres of corn and soybeans harvested for grain in Iowa, 1975-1992.

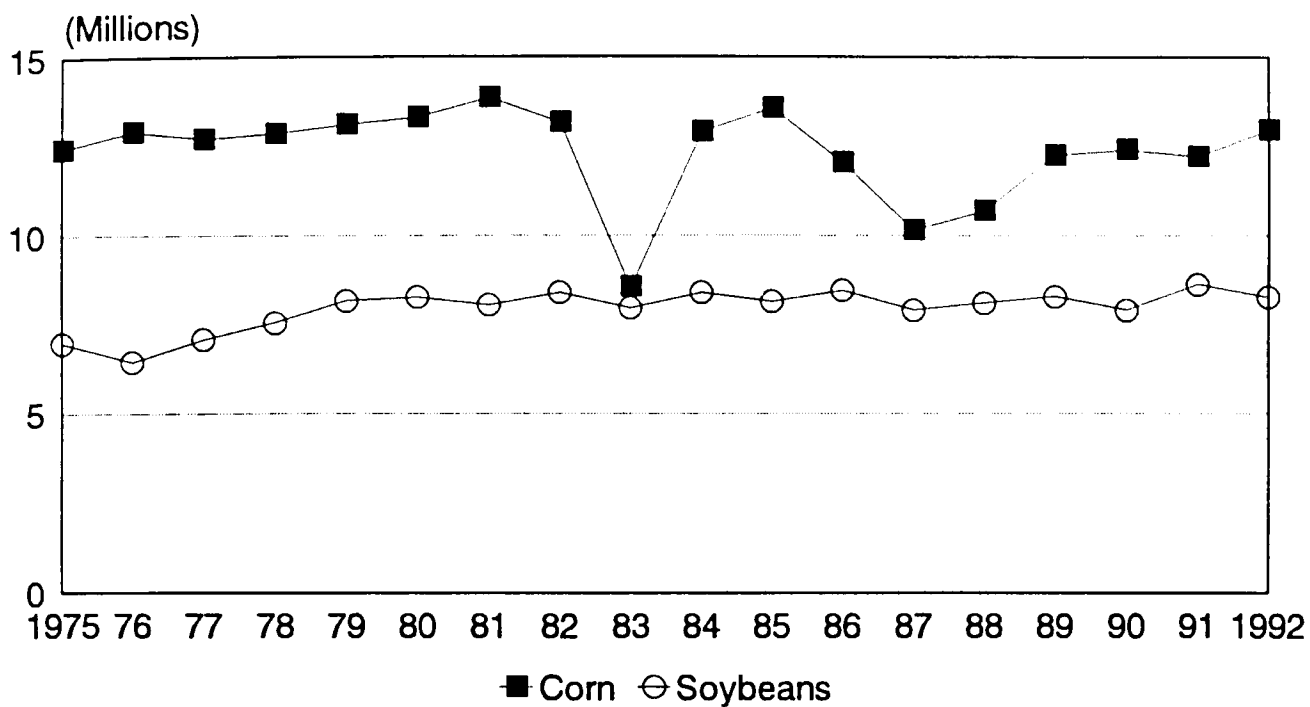


Figure 2. Bushels of corn and soybeans per acre in Iowa, 1975-1992.

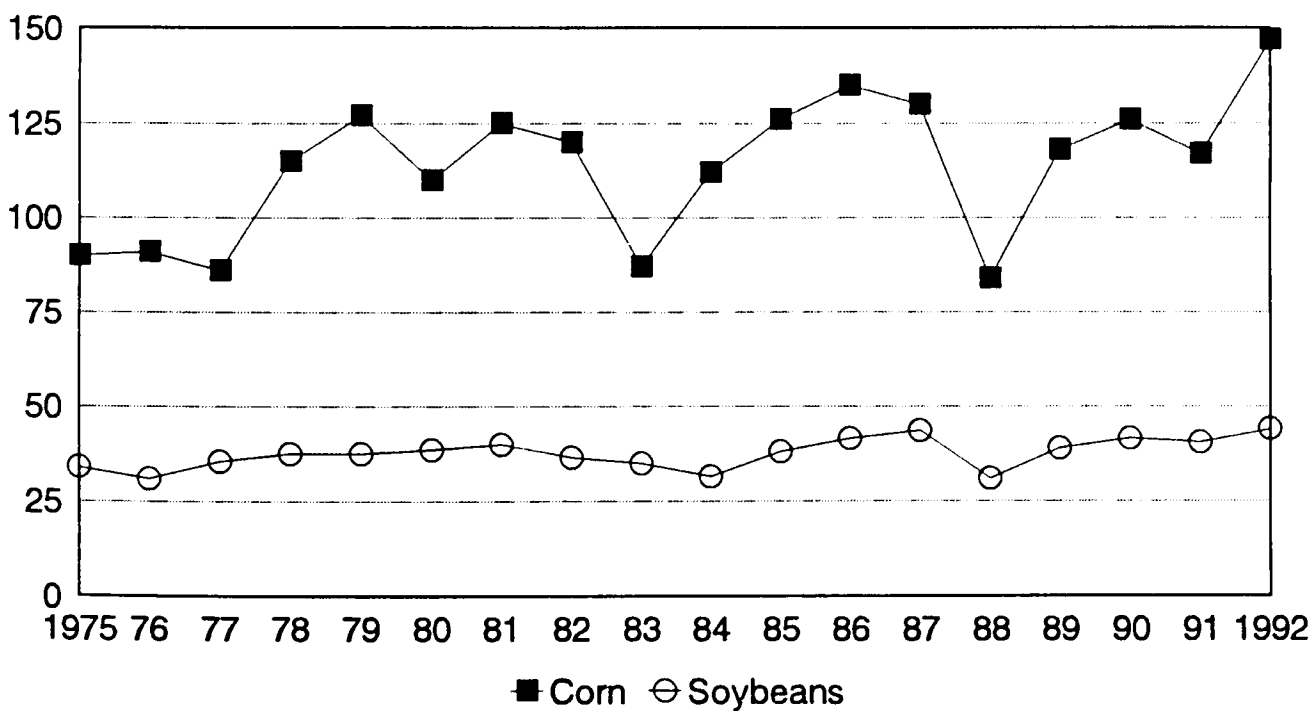


Figure 3. Bushels of corn harvested for grain per acre, 1992.

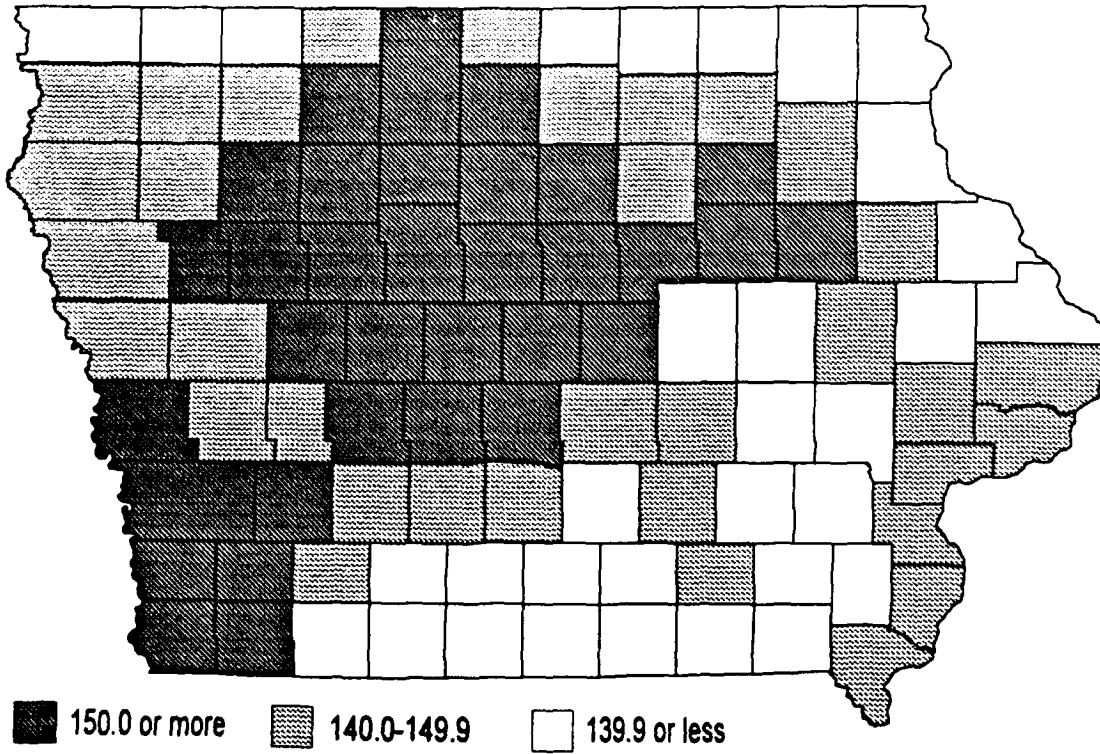
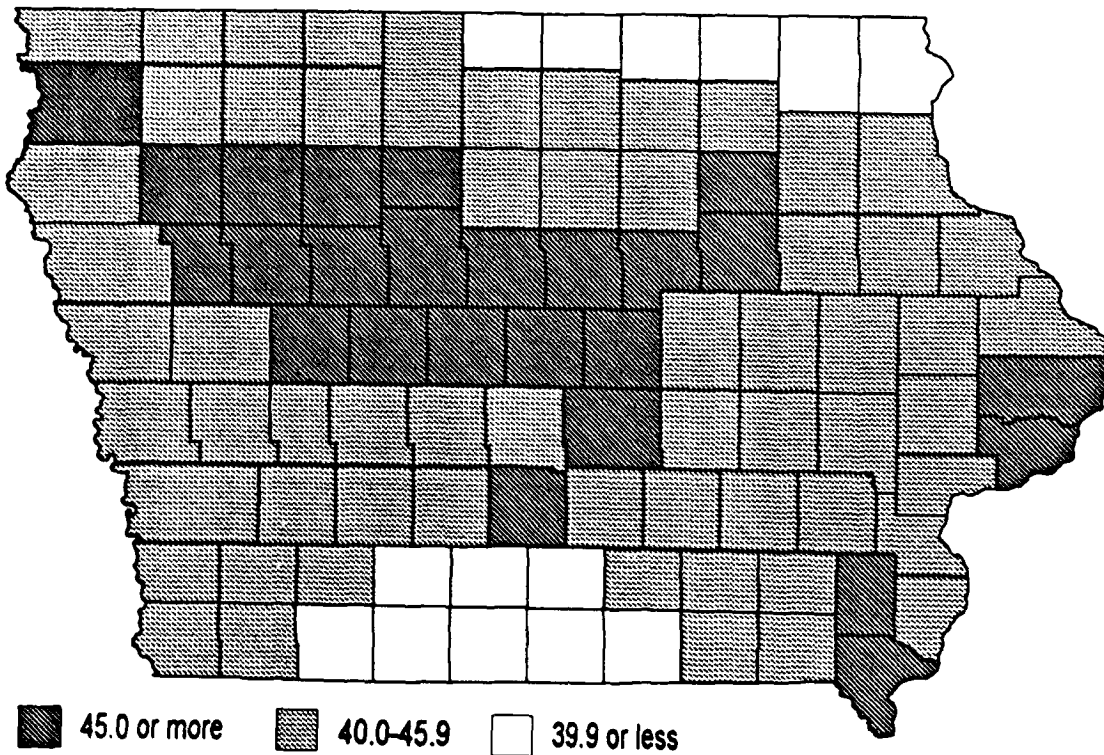


Figure 4. Bushels of soybeans per acre, 1992.



Federal Funds in Iowa's Counties: 1983-1992

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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 \$11.5 billion in Iowa for 1992 (Table 1). The second area includes other federal assistance, which amounted to nearly \$3.3 billion. Both of these general areas include subcategories that provide more detailed breakdowns of these expenditures.

Direct Federal Expenditures or Obligations

In 1992, direct federal expenditures or obligations exceeded \$100 million in 19 counties. Polk was the leader with \$1.9 billion; no other county topped \$1 billion. In six counties, the amount of federal funds received through direct federal expenditures or obligations was less than \$30 million in 1992, although they were under \$25 million only in Adams (\$21.0 million). In 1983, nearly \$6.6 billion came to Iowa through direct federal expenditures or obligations (Table 6); this increased to approximately \$9.7 billion in 1988 (Table 5) and has increased each year since. From 1983 to 1992, these expenditures increased by 75.3%.

The \$1.8 billion for grants awarded within counties in 1992 accounted for 15.8% of the total direct federal expenditures or obligations in Iowa. These funds increased each year from 1988 to 1992 (Tables 1-5), with the subtotal more than \$750 million higher in 1992 than in 1983. This subcategory includes a large number of federal programs in several areas (see notes at the end of this section). In 1992, 29 counties received more than \$10 million in grant awards from federal sources. Polk (\$458 million) and Johnson (\$120 million) had the largest shares in this subcategory. Audubon received less than \$2 million in grant awards; nine others (Adams, Grundy, Ida, Mitchell, Osceola, Pocahontas, Ringgold, Van Buren, Worth) obtained less than \$3 million. Seven counties (Black Hawk, Johnson, Linn, Polk, Scott, Story, Woodbury) had more than half of all grant awards for the state. Polk county (25.2%) alone received more than a quarter of the total.

Salaries and wages totaled nearly \$819 million in 1992. These were generated by the Department of Defense, the Postal Service, and other federal agencies for employees in Iowa. They increased every year during the 1988-1992 period; the percentage increase in salaries and wages from 1983 to 1992 was 70.2. Salaries and wages paid by federal funds in 1992 exceeded \$10 million in 11 counties, topped by Polk with \$250 million, which accounted for 30.5% of all salaries and wages paid by the federal government in Iowa. Polk and four others (Johnson, Linn, Story, Woodbury) received more than half of all federal funds in this category. On the other hand, 21 counties received less than \$2 million in federally paid salaries and wages.

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

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

Table 1. 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	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 2. 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	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 2. 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	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
Muscataine	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 3. 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	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 3. 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	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 4. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1989.

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments	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
Ide	30052	2364	1234	12611	3563	126	10154	5704	24061
Iowa	53823	1831	2489	20056	5694	391	23362	1030	34388
Jackson	68262	5783	2881	28056	10818	2439	18285	2724	23041
Jasper	93495	8293	3880	46939	15253	476	18654	5197	38095

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

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

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

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

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

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

Table 6. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1983.

County	Direct Federal Expenditures or Obligations							Other Federal Assistance	
	Total	Grant Awards	Salaries/Wages	Retirement/Disability Payments	Other Payments	Procurement Contract Awards	Other	Direct Loans	Guaranteed Loans and Insurance
Adair	19016	325	671	9884	3095	2	5039	12653	23337
Adams	11971	153	742	6278	2220	1	2577	5591	15942
Allamakee	27708	2828	1029	15147	5143	1269	2292	3584	3989
Appanoose	33516	689	2013	21847	6083	1192	1692	2376	5805
Audubon	17973	279	926	8904	3246	24	4594	12588	37864
Benton	38180	416	1451	22712	6512	6	7083	27128	20831
Black Hawk	230061	7254	17252	119273	31539	48649	6094	28272	55906
Boone	50350	491	3622	31060	8591	118	6468	22965	36287
Bremer	45939	526	1416	21807	6786	11349	4055	15797	7106
Buchanan	43034	983	1562	20026	5467	58	14938	22096	15801
Buena Vista	44780	6679	2159	23081	8060	309	4492	15096	52695
Butler	30987	269	999	18002	5324	5	6388	24087	11556
Calhoun	28659	209	1098	16609	5194	133	5416	21512	22875
Carroll	38576	725	2463	22938	7049	30	5371	13787	46635
Cass	33942	507	1590	20029	6278	346	5192	13997	29542
Cedar	29926	275	2140	17126	5028	182	5175	18559	7985
Cerro Gordo	91075	1344	6535	54279	15493	3020	10404	38414	33646
Cherokee	28902	723	1588	16878	5008	106	4599	16041	39099
Chickasaw	29121	324	1178	13952	4471	2	9194	19381	5103
Clarke	15510	206	841	9088	2875	51	2449	5249	13119
Clay	32374	566	2642	18425	5487	51	5203	19294	22056
Clayton	36600	2034	1854	21162	6888	1079	3583	7152	6929
Clinton	82998	1341	4374	58653	13860	376	4394	13732	18451
Crawford	35753	354	2382	17356	5655	3400	6606	22045	69318
Dallas	46362	1397	2151	30421	8228	16	4149	16268	45297
Davis	15604	219	775	9714	2808	3	2085	5570	7144
Decatur	19827	1663	935	10536	4756	43	1894	4352	6560
Delaware	25836	371	1127	14769	4615	50	4904	12811	6544
Des Moines	132185	903	6532	49871	13326	57933	3620	13132	13026
Dickinson	27017	-9	976	18212	4564	146	3128	11800	13157
Dubuque	138830	9582	10256	80765	22526	11504	4197	5289	13731
Emmet	27375	708	1154	14272	4866	2000	4375	16289	11737
Fayette	48341	1585	2486	26507	8859	577	8327	22782	5068
Floyd	35138	500	1434	21660	5912	86	5546	21358	14114
Franklin	29231	273	1031	13399	4219	1048	9261	31301	15391
Fremont	21583	1051	874	11187	3444	4	5023	14618	26479
Greene	27168	203	1128	14623	4613	28	6573	23541	19987
Grundy	25920	230	870	14303	4037	5	6475	19995	10163
Guthrie	25976	291	1011	14932	5039	10	4693	13820	24537
Hamilton	33940	614	1481	18885	5461	8	7491	25680	16261
Hancock	25417	324	1140	12859	4659	103	6332	22019	22620
Hardin	45915	1850	1812	25362	8452	8	8431	29070	26427
Harrison	33819	980	1807	18572	5773	320	6367	18428	28607
Henry	32599	538	1793	20341	6148	95	3684	10025	11098
Howard	25452	644	655	11642	3982	2493	6036	16804	6339
Humboldt	23782	246	1273	13708	3690	3	4862	13786	17772
Ida	17765	620	755	9385	3317	4	3684	13472	59058
Iowa	34299	304	1187	15661	4530	5852	6765	18948	16722
Jackson	33635	882	1769	22009	5883	4	3088	7494	9439
Jasper	71022	18661	2646	35194	8689	38	5794	23505	43123

Table 6. Federal Funds (in \$1,000s) Received from Selected Programs in Iowa's Counties, 1983 (continued).

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

Table 7. Percentage of Total Federal Funds Received as Retirement and Disability Payments in Iowa's Counties, 1983 and 1992

County	Retirement/Disability Payments			County	Retirement/Disability Payments		
	1992	1983	Point Change		1992	1983	Point Change
Adair	42.8	52.0	-9.2	Jefferson	41.1	53.1	-12.0
Adams	40.6	52.4	-11.8	Johnson	24.4	28.5	-4.1
Allamakee	48.3	54.7	-6.4	Jones	50.0	57.6	-7.6
Appanoose	47.0	65.2	-18.2	Keokuk	42.0	54.9	-12.9
Audubon	43.2	49.5	-6.3	Kossuth	46.5	49.9	-3.4
Benton	48.6	59.5	-10.9	Lee	50.8	69.0	-18.2
Black Hawk	43.1	51.8	-8.7	Linn	32.4	36.0	-3.6
Boone	51.9	61.7	-9.8	Louisa	47.1	51.2	-4.1
Bremer	50.5	47.5	3.0	Lucas	42.4	64.6	-22.2
Buchanan	51.8	46.5	5.3	Lyon	49.4	57.7	-8.3
Buena Vista	47.0	51.5	-4.5	Madison	45.6	58.9	-13.3
Butler	49.5	58.1	-8.6	Mahaska	48.7	62.0	-13.3
Calhoun	51.0	58.0	-7.0	Marion	37.7	44.5	-6.8
Carroll	50.1	59.5	-9.4	Marshall	51.8	64.6	-12.8
Cass	51.7	59.0	-7.3	Mills	45.8	57.7	-11.9
Cedar	46.5	57.2	-10.7	Mitchell	53.0	56.4	-3.4
Cerro Gordo	53.8	59.6	-5.8	Monona	45.0	52.6	-7.6
Cherokee	52.2	58.4	-6.2	Monroe	48.3	64.3	-16.0
Chickasaw	47.0	47.9	-0.9	Montgomery	47.8	58.2	-10.4
Clarke	43.5	58.6	-15.1	Muscatine	48.5	55.3	-6.8
Clay	47.9	56.9	-9.0	O'Brien	50.7	57.8	-7.1
Clayton	46.1	57.8	-11.7	Osceola	48.5	49.9	-1.4
Clinton	53.2	70.7	-17.5	Page	46.1	61.2	-15.1
Crawford	40.6	48.5	-7.9	Palo Alto	44.4	51.6	-7.2
Dallas	51.8	65.6	-13.8	Plymouth	50.9	59.4	-8.5
Davis	43.8	62.3	-18.5	Pocahontas	49.3	52.9	-3.6
Decatur	38.4	53.1	-14.7	Polk	24.7	19.5	5.2
Delaware	46.1	57.2	-11.1	Pottawattamie	26.3	48.5	-22.2
Des Moines	41.4	37.7	3.7	Poweshiek	43.1	60.2	-17.1
Dickinson	55.0	67.4	-12.4	Ringgold	40.7	54.8	-14.1
Dubuque	49.0	58.2	-9.2	Sac	53.1	57.0	-3.9
Emmet	42.0	52.1	-10.1	Scott	54.1	57.5	-3.4
Fayette	46.0	54.8	-8.8	Shelby	46.7	52.0	-5.3
Floyd	52.3	61.6	-9.3	Sioux	48.0	55.1	-7.1
Franklin	44.9	45.8	-0.9	Story	28.5	32.8	-4.3
Fremont	47.0	51.8	-4.8	Tama	47.0	52.4	-5.4
Greene	49.7	53.8	-4.1	Taylor	41.6	54.1	-12.5
Grundy	53.5	55.2	-1.7	Union	41.3	59.0	-17.7
Guthrie	48.9	57.5	-8.6	Van Buren	46.8	58.9	-12.1
Hamilton	44.5	55.6	-11.1	Wapello	50.5	68.8	-18.3
Hancock	49.7	50.6	-0.9	Warren	48.7	66.9	-18.2
Hardin	51.7	55.2	-3.5	Washington	53.6	59.1	-5.5
Harrison	46.7	54.9	-8.2	Wayne	39.9	59.9	-20.0
Henry	52.5	62.4	-9.9	Webster	47.2	62.7	-15.5
Howard	42.7	45.7	-3.0	Winnebago	48.7	40.2	8.5
Humboldt	50.3	57.6	-7.3	Winneshiek	44.1	55.6	-11.5
Ia	50.1	52.8	-2.7	Woodbury	45.7	56.4	-10.7
Iowa	47.3	45.7	1.6	Worth	48.6	50.5	-1.9
Jackson	47.3	65.4	-18.1	Wright	51.9	57.2	-5.3
Jasper	51.2	49.6	1.6	Undistributed	0.2	0.3	-0.1
				State of Iowa	38.8	43.4	-4.6

Nearly two-fifths (38.8%) of the total direct federal expenditures or obligations went for retirement and disability payments; almost \$4.5 billion was received by individuals in Iowa in 1992. This includes federal employee retirement and disability benefits, Social Security payments of all types, selected Veterans Administration programs, and selected other federal programs. The increase in the amount in this subcategory was about \$1.6 billion from 1983 to 1992; 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, Linn, and Pottawattamie, which were the three exceptions, received more federal funds in grant awards, procurement contract awards, and other direct federal expenditures and obligations, respectively. Nineteen counties received at least \$50 million in the retirement/disability category in 1992, with seven (Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, Woodbury) above \$100 million. Adams (\$8.5 million) was the only county with less than \$10 million in this subcategory of payments to individuals.

Another 20.7% (\$2.4 billion) of the total direct federal expenditures or obligations was in the form of other payments to individuals. Included here would be federal payments for Medicare, unemployment compensation, some types of veterans compensation, supplemental security income payments, and food stamps, for example. These payments increased from 1983 to 1988 and each succeeding year, with relatively large jumps between 1988 and 1992. In 1992, other payments received by individuals ranged from \$4.6 million in Adams to \$257 million in Polk. Scott (\$104 million) was the only other county with more than \$100 million in other payments to individuals from federal sources, although five others (Black Hawk, Dubuque, Linn, Pottawattamie, Woodbury) received at least \$50 million.

Procurement contract awards totaled \$721 million in 1992. 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 \$100 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 1992, two counties (Linn, Polk) received more than half of all dollars for procurement contract awards in the state, with Linn alone (\$285.5 million) accounting for 39.6% of the total.

The "other" subcategory among direct federal expenditures or obligations amounted to \$1.3 billion in 1992. Expenditures in this area also changed greatly between years, with the highest figure in 1988 (Table 5). 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 1992, six counties (Clinton, Kossuth, Polk, Pottawattamie, Poweshiek, Woodbury) received more than \$10 million each in this subcategory. Nearly half of the funds in this subcategory were distributed to Polk (29.0%) and Pottawattamie (20.3%).

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 \$626 million of the \$3.3 billion total for other federal assistance. These figures varied by huge amounts in the years examined; expenditures were nearly \$2 billion in 1988 while they were only \$473 million in 1989, primarily because of direct loans related to agriculture were much greater some years than others. In Iowa, \$528 million of the \$626 million in this subcategory was related to commodity loans in 1992. Direct loans were greater than \$10 million in 11 counties. Kossuth led with \$16.4 million in 1992. Three counties (Davis, Monroe, Van Buren) received less than \$2 million in direct loans.

Guaranteed loans and insurance totaled \$2.6 billion in 1992. This subcategory included several loan programs (mortgage insurance for homes, higher education act insured loans, veterans housing loans, small-business loans, for example) and two types of insurance (flood, crop). Figures for these expenditures also varied substantially from one year to the next; the lowest total was \$1.6 billion in 1983

while the highest was nearly \$3.3 billion in 1989. Nearly \$1.6 billion of the \$2.6 billion for guaranteed loans and insurance was related to crop insurance in 1992. Totals from all the guaranteed loan and insurance programs exceeded \$50 million in four counties (Kossuth, Linn, Polk, Pottawattamie), led by Polk with \$113 million. Twenty-one 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 1992, retirement and disability payments accounted for nearly two-fifths of total federal funds sent to Iowa (Table 7). The 1992 figure (38.8%) was somewhat lower than it was in 1983 (43.4%), the first year for which these data were made available. In 1992, retirement or disability payments accounted for at least 50% of all the funds from direct federal expenditures or obligations in 29 counties, with Dickinson the highest at 55.0%. In 1983, 80 counties had percentages of at least 50 when retirement or disability payments were compared with total federal funds disbursed; at least two-thirds of all funds were attributed to the retirement/disability payment category in five counties (Clinton, Dickinson, Lee, Wapello, Warren).

Because payments related to retirement and disability accounted for a greater percentage of total federal funds statewide in 1983 than in 1992, 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 seven counties (Bremer, Buchanan, Des Moines, Iowa, Jasper, Polk, Winnebago), and only Winnebago (+8.5) increased by at least six percentage points. Decreases ranged from less than 10 points in 54 counties to at least twenty points in three (Lucas, Pottawattamie, Wayne); 35 counties reported declines of 10 through 19.9 points when 1983 and 1992 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 1990). Information by county for the years 1984 through 1987 was published in the 1991 edition of our county data book.

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

Some negative signs are 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: 1984-1992

Willis Goudy, Iowa State University
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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) (61.4% of all registered) and trucks (Table 2) (22.4% of all registered) in 1992. The total number of vehicles listed for the state was 3,145,619 in 1992, an increase of 212,605 from the 2,933,014 reported in 1984 (Table 3). The total includes buses, motor homes, motorcycles, mopeds, semi-trailers, regular trailers, travel trailers, truck tractors, and miscellaneous vehicles in addition to autos and trucks.

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

The number of autos registered in 1992 was nearly 187,000 higher than the number reported in 1984. The peak was in 1987, when more than 1,936,000 were listed (Figure 1). In 1992, more than 1,930,000 were reported. The number of truck registrations reached a new high in 1992 (704,900). When 1984 and 1992 are compared, trucks increased by nearly 74,000 (Figure 2).

Fewer than 10,000 automobiles were registered in 44 counties in 1992; more than 50,000 were recorded in eight others. Linn, Polk, and Scott were the only counties with more than 100,000; six (Adams, Audubon, Decatur, Ringgold, Taylor, Wayne) were under 5,000. Eight counties (Adams, Audubon, Calhoun, Cass, Greene, Kossuth, Palo Alto, Pocahontas) had fewer automobile registrations in 1992 than in 1984. Gains of 1,000 or more occurred in 42 counties; four of these increased by at least 10,000 (Johnson, Linn, Polk, Scott).

Truck registrations also varied by county in 1992, with 51 reporting fewer than 5,000 and 13 with more than 10,000. Increases between 1984 and 1992 ranged from less than 100 in nine counties to more than 1,000 in 16 others. Gains of at least 3,000 occurred in Linn, Polk, Pottawattamie, Scott, and the category of trucks used for official purposes. Only three counties (Calhoun, Greene, Humboldt) had fewer trucks in 1992 than in 1984.

Total vehicle registrations in 1992 ranged widely across the state. Polk's 339,445 was more than twice the number in every county except Linn (181,401). Black Hawk, Scott, and Woodbury also had at least 100,000 registered vehicles. Ten counties reported fewer than 10,000 vehicles, although only two (Adams, Ringgold) were under 8,000. Between 1984 and 1992, 11 counties had declines in the total number of vehicles registered. Gains exceeded 5,000 in seven counties (Johnson, Linn, Polk, Pottawattamie, 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, 1984-1992.

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

Table 1. Automobile Registrations in Iowa Counties, 1984-1992 (continued).

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

Table 2. Truck Registrations in Iowa Counties, 1984-1992.

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

Table 2. Truck Registrations in Iowa Counties, 1984-1992 (continued).

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

Table 3. Total Vehicle Registrations in Iowa Counties, 1984-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984
Adair	10851	10755	10680	10619	10562	10986	10781	10885	10469
Adams	6208	6265	6359	6355	6359	6788	6406	5404	6146
Allamakee	16940	16696	16529	16163	15825	16924	16515	16376	15164
Appanoose	16820	16528	16300	15972	15762	16907	16501	16402	15506
Audubon	8798	8850	8866	8773	8684	9260	9201	9256	8963
Benton	27130	26652	26174	25611	25260	26004	24152	19611	22867
Black Hawk	127164	126134	124398	122376	120719	128643	128263	131405	127537
Boone	29219	28816	28337	28225	27813	28668	27132	22908	24997
Bremer	26605	26426	26149	25735	25223	26178	25915	26020	25030
Buchanan	23706	23471	23147	22766	22338	23531	22948	22969	22180
Buena Vista	22979	22788	22511	22256	21951	23161	22966	23283	22584
Butler	20210	20059	19868	19604	19415	20156	19819	19989	19238
Calhoun	14265	14235	14278	14180	14089	14585	14434	14759	14507
Carroll	24231	23888	23642	23355	23134	25182	24780	24996	23950
Cass	18908	18840	18873	18709	18538	20177	20114	20359	19420
Cedar	21310	21042	20746	20506	20136	20494	19321	15897	18664
Cerro Gordo	50595	50479	50205	49918	49090	51520	51115	51280	49062
Cherokee	17764	17735	17456	17220	17035	18105	17907	18176	17684
Chickasaw	16962	16837	16616	16350	16035	17068	16834	16935	16154
Clarke	10004	9933	9845	9764	9632	10108	9889	9683	9007
Clay	20926	20653	20490	20071	19736	20533	19488	16449	19571
Clayton	23145	22872	22541	22152	21754	22980	22564	22532	21324
Clinton	55319	54829	54044	53050	52504	58395	58518	58640	54522
Crawford	20143	20039	19849	19819	19728	21505	21163	21153	20071
Dallas	35581	34872	34476	33796	33230	33898	31666	26642	30839
Davis	9754	9759	9696	9606	9380	10695	10341	10289	9446
Decatur	9572	9614	9632	9441	9211	9682	9567	9543	8904
Delaware	20405	20320	20032	19805	19445	19968	19389	19278	18408
Des Moines	48167	47924	47567	46907	46567	50853	50414	49971	46956
Dickinson	19963	19499	18732	18333	18011	18586	18170	18203	17493
Dubuque	83241	81919	80167	79147	77964	87274	86472	85699	78764
Emmet	14571	14380	14164	13944	13735	14810	14595	14974	14317
Fayette	25875	25734	25531	25146	24633	25818	25363	25623	24687
Floyd	20965	20741	20535	20369	20139	21568	21277	21533	20507
Franklin	14094	13980	14010	13938	13892	14307	13769	11587	12955
Fremont	10967	10752	10499	10313	10156	10816	10593	10668	10149
Greene	13517	13435	13280	13287	13219	13955	13870	14153	13940
Grundy	15594	15519	15319	15146	15084	15628	15481	15696	15308
Guthrie	14257	14001	13780	13591	13398	13677	13363	13509	12932
Hamilton	20248	20191	20075	19990	19866	20709	20321	20495	19834
Hancock	15417	15486	15528	15440	15230	15840	15565	15626	14930
Hardin	23226	23119	23099	22877	22901	24427	24292	24558	23708
Harrison	18602	18337	18064	17524	17476	19568	18387	14790	16735
Henry	21618	21508	21063	20556	20339	21898	21231	20953	19528
Howard	12384	12360	12082	11875	11722	12484	12051	12205	11485
Humboldt	14054	14070	14069	13860	13604	14272	14275	14342	13819
Ida	10867	10754	10813	10546	10367	10874	10591	10538	10090
Iowa	18546	18294	17996	17751	17377	17869	17612	17622	16760
Jackson	23585	23376	23123	22478	22235	24159	23391	23181	21655
Jasper	41605	41264	41205	40702	40160	41408	40413	40426	38720

Table 3. Total Vehicle Registrations in Iowa Counties, 1984-1992 (continued).

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

Figure 1. Automobile registrations in Iowa, 1984-1992.

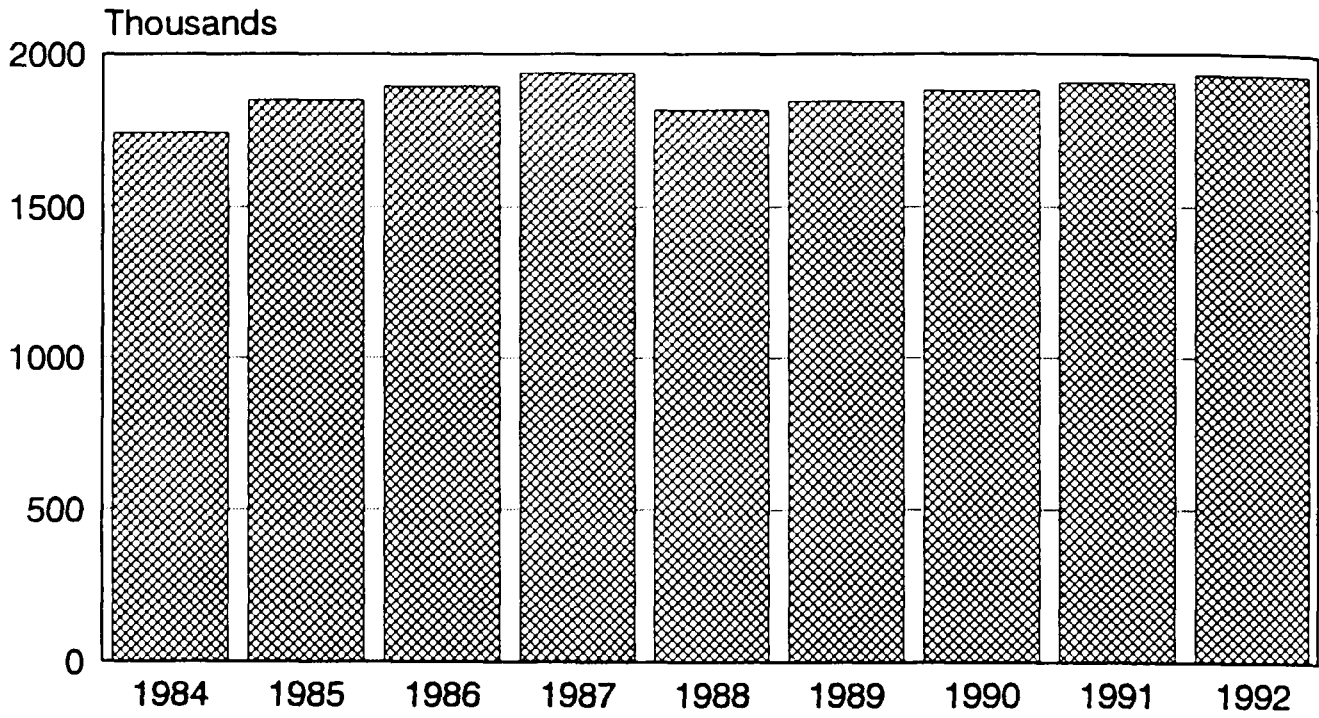
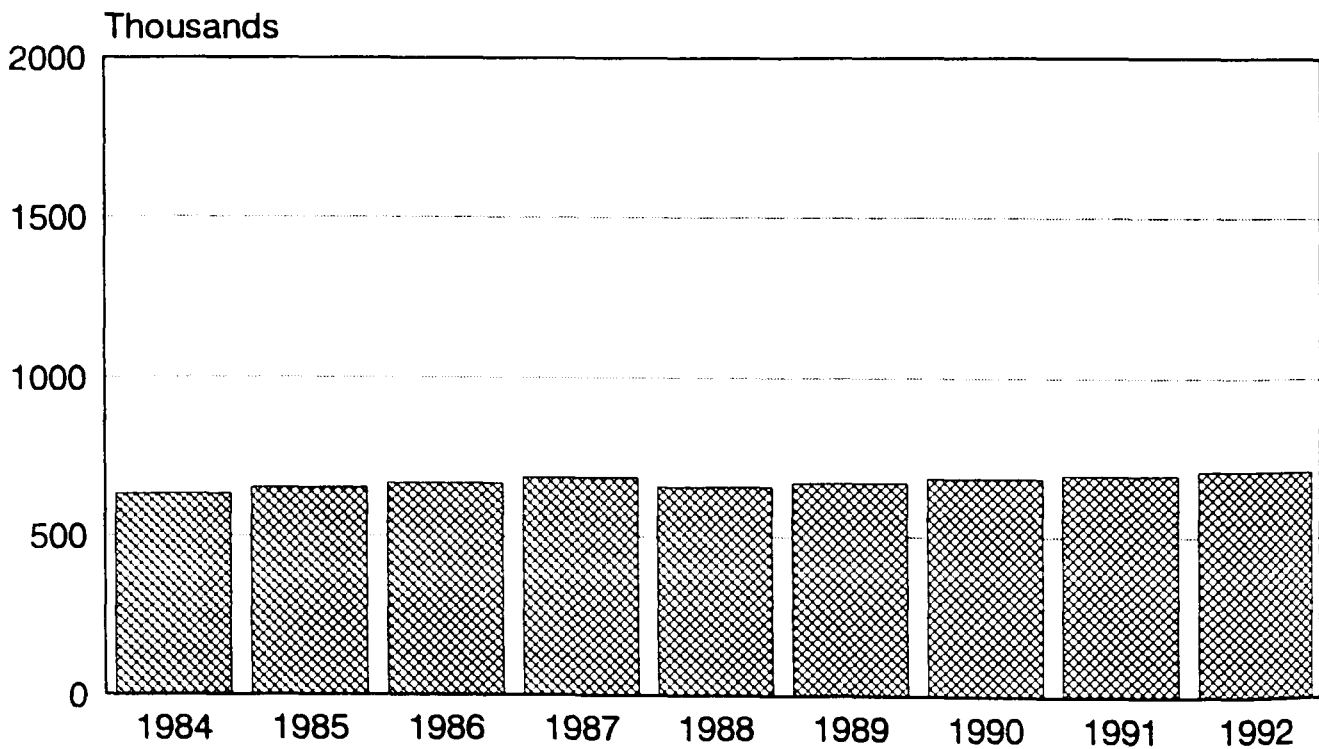


Figure 2. Truck registrations in Iowa, 1984-1992.



Education Completed by Females and Males 25 Years of Age or Older in Iowa's Counties: 1940-1990

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Sandra Charvat Burke, Iowa State University

In the decennial censuses, the U.S. Bureau of the Census asks questions on the years of education completed by residents. Although the wording of the items has changed slightly over the decades, the responses are comparable from 1940 to the most recent census. Completed education frequently is reported for those at least 25 years of age; in the past, most residents had concluded their participation in formal educational systems by that age, although more individuals today are continuing in school or returning after that age than in previous years.

State Data

In 1990, more of Iowa's females and males 25 years of age or older were in the category of completing four years of high school than any other reported in Table 1. The order remained similar for females and males across the other categories, with more in the two categories of college and fewer in the some high school and elementary school groups. In the 1980 census, however, the second most numerous category for males was that for elementary school years (Table 2). Among females in 1980, the number with some college slightly outdistanced that for elementary school; those with four years of high school were the largest category for both females and males in 1980 as in 1990.

Those with four years of high school were most numerous while the numbers with an elementary education were in second place in 1970 (Table 3). Ten years earlier, far more males were in the elementary category than any other, although females were reported somewhat more frequently among those with four years of high school than in that including the elementary years (Table 4). In 1950 (Table 5) and 1940 (Table 6), those with an elementary education outnumbered those in any other category. Indeed, males in the elementary category were greater in number than all other categories combined in 1950.

The percentage of the total population completing at least four years of high school climbed from 28.5 in 1940 to 80.1 in 1990 (Table 7). The increases were remarkably steady from one decade to the next, with no increase less than 8.6 or more than 12.7 points. In 1940, there was a 9.1 percentage point gap between females and males in the percentage completing at least four years of high school, with females more likely to have completed at least a high school degree. That difference increased slightly to 9.3 in 1950 but then decreased steadily to 1.1 as of 1990, when 80.8% of females and 79.5% of males had four years of high school or additional education (Figure 1).

Gains in the percentage of persons 25 years of age or older completing four or more years of college also occurred during the last half century (Table 8). In 1940, 4.1% had completed college or additional education; the 1990 figure of 16.9% was substantially higher. The greatest increase (+4.8 points) occurred in the 1970s; 3.0 points were gained in the 1980s. Again a gap occurred between females and males, although it was smallest in 1940 when slightly more males (4.6%) than females (3.6%) had completed at least four years of college. This gap widened to 5.4 points in 1980, although it narrowed to 4.2 points in 1990, when 19.1% of males and 14.9% of females had finished four or more years of college (Figure 2).

Table 1. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1990.

County	Females						Males					
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+
Adair	298	357	1418	713	290	3076	365	278	1204	570	276	2693
Adams	188	208	770	460	164	1790	247	145	772	326	158	1648
Allamakee	680	466	2284	979	426	4835	657	413	2096	790	394	4350
Appanoose	656	703	2003	1162	457	4981	656	563	1600	841	603	4263
Audubon	397	305	1159	591	256	2708	456	273	1004	379	238	2350
Benton	662	847	3428	1957	711	7605	676	991	3123	1461	691	6942
Black Hawk	2889	5045	16755	9980	5906	40575	2829	4048	13190	7604	7155	34826
Boone	845	848	3710	2561	1159	9123	838	748	3243	1937	1186	7952
Bremer	1058	582	3103	1870	991	7604	830	619	2836	1318	1183	6786
Buchanan	580	759	3199	1452	804	6794	793	659	2889	1153	639	6133
Buena Vista	633	540	2759	1869	844	6645	544	529	2283	1466	1061	5883
Butler	948	488	2339	1302	527	5604	970	574	2064	888	467	4963
Calhoun	474	411	1837	1156	483	4361	456	353	1622	796	449	3676
Carroll	1179	591	2944	1802	701	7217	1133	539	2643	1179	826	6320
Cass	504	449	2618	1479	565	5615	499	551	1959	1023	736	4768
Cedar	676	544	2468	1581	733	6002	544	623	2454	1193	741	5555
Cerro Gordo	1087	1889	6143	5417	2281	16817	1175	1646	4656	4172	2522	14171
Cherokee	404	439	2331	1325	466	4965	508	410	2020	973	549	4460
Chickasaw	660	379	2068	945	478	4530	624	494	1977	698	381	4174
Clarke	228	399	1419	666	265	2977	286	330	1210	532	226	2584
Clay	334	584	2535	1948	756	6157	317	508	2192	1391	905	5313
Clayton	925	634	2935	1387	560	6441	991	623	2943	902	563	6022
Clinton	1706	2159	7427	4404	2107	17803	1637	2045	5984	3694	2200	15560
Crawford	949	584	2476	1121	524	5654	827	628	2432	791	546	5224
Dallas	587	1006	4282	2912	1482	10269	618	973	3624	2230	1674	9119
Davis	469	256	1166	668	307	2866	473	333	1062	448	262	2578
Decatur	298	449	1160	542	329	2778	398	330	988	423	313	2452
Delaware	675	473	2645	1381	634	5808	808	466	2653	821	598	5346
Des Moines	1269	2014	6275	3821	1749	15128	1179	1472	4951	3545	1831	12978
Dickinson	311	533	2293	1644	824	5605	364	462	1810	1253	1019	4908
Dubuque	2902	3222	12160	5920	4513	28717	3020	2806	10245	4410	4491	24972
Emmet	374	404	1617	1209	426	4030	354	484	1335	847	392	3412
Fayette	905	806	3290	1718	879	7598	946	701	3018	1271	817	6753
Floyd	535	653	2697	1568	654	6107	586	611	2202	1131	734	5264
Franklin	430	338	1640	1254	497	4159	474	359	1402	930	459	3624
Fremont	221	353	1311	793	348	3026	301	370	1023	586	283	2563
Greene	229	399	1696	1005	469	3798	300	387	1400	618	487	3192
Grundy	534	307	1879	1186	501	4407	523	327	1682	807	513	3852
Guthrie	371	448	1802	1033	353	4007	418	425	1672	635	392	3542
Hamilton	457	698	2334	1711	583	5783	491	595	2068	1181	812	5147
Hancock	442	445	1683	1342	437	4349	506	387	1554	1043	413	3903
Hardin	773	725	2612	2044	766	6920	692	567	2335	1467	827	5888
Harrison	475	703	2288	1354	414	5234	603	544	2042	856	476	4521
Henry	626	649	2572	1633	912	6392	618	715	2369	1466	893	6061
Howard	669	225	1548	776	278	3496	622	280	1384	580	265	3131
Humboldt	270	409	1707	1081	440	3907	391	405	1512	754	413	3475
Ida	423	279	1282	701	283	2968	387	247	1167	450	327	2578
Iowa	733	414	2268	1298	528	5241	769	425	2107	789	573	4663
Jackson	1045	740	3057	1324	588	6754	1166	616	2582	1022	701	6087
Jasper	1065	1399	5839	2619	1295	12217	1319	1419	4422	2185	1664	11009

Table 1. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1990 (continued).

County	Females						Males					
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+
Jefferson	461	561	2051	1404	1364	5841	433	533	1737	1064	1601	5368
Johnson	1126	1312	6077	7471	11141	27127	1183	1369	5237	5942	12195	25926
Jones	573	645	2735	1671	703	6327	812	713	2928	1410	661	6524
Keokuk	442	456	1947	891	430	4166	501	423	1728	722	305	3679
Kossuth	762	607	2609	1825	736	6539	728	483	2379	1517	726	5833
Lee	1475	1671	6152	2934	1279	13511	1243	1405	5167	2979	1487	12281
Linn	2932	5696	21106	16853	10163	56750	2975	4709	16431	13951	13070	51136
Louisa	292	633	1632	911	335	3803	373	462	1704	735	350	3624
Lucas	286	385	1699	694	273	3337	359	389	1302	492	314	2856
Lyon	854	259	1584	900	379	3976	837	279	1380	659	389	3544
Madison	266	491	2027	1073	470	4327	394	355	1707	879	512	3847
Mahaska	943	834	3173	1538	841	7329	1041	675	2611	1229	973	6529
Marion	1255	1120	4118	2072	1112	9677	1521	1050	3393	1835	1313	9112
Marshall	845	1339	5459	3723	2005	13371	1006	1467	4572	3184	2035	12264
Mills	478	593	1739	1133	526	4469	477	509	1635	956	562	4139
Mitchell	441	373	1708	946	424	3892	648	308	1459	668	390	3473
Monona	437	571	1665	791	300	3764	463	431	1474	487	427	3282
Monroe	291	455	1196	747	232	2921	305	281	1210	545	205	2546
Montgomery	323	508	2008	1174	523	4536	432	400	1575	821	536	3764
Muscatine	1292	2081	5054	3283	1542	13252	1481	1467	4537	2766	1737	11988
O'Brien	861	485	2178	1439	592	5555	862	514	1615	1037	707	4735
Osceola	443	250	969	639	241	2542	407	236	972	403	237	2255
Page	579	725	2724	1370	728	6126	694	504	2086	1221	823	5328
Palo Alto	400	458	1343	1111	468	3780	468	299	1311	734	432	3244
Plymouth	996	622	3153	1972	967	7710	932	661	2732	1329	1229	6883
Pocahontas	308	333	1418	1051	409	3519	393	279	1257	707	435	3071
Polk	4526	11861	39531	33664	22645	112227	4148	9944	29006	26555	27285	96938
Pottawattamie	2429	4057	11930	6928	2887	28231	2220	3403	9849	6316	2945	24733
Poweshiek	481	608	2906	1517	911	6423	486	629	2566	856	1032	5569
Ringgold	182	255	894	538	212	2081	220	187	823	347	182	1759
Sac	396	527	1810	1140	546	4419	485	483	1687	751	514	3920
Scott	3140	6593	17143	13739	9119	49734	2862	4865	13354	11835	11464	44380
Shelby	494	421	2030	1140	567	4652	580	361	1940	749	564	4194
Sioux	1808	685	3177	2255	1165	9090	1674	687	2788	1620	1316	8085
Story	716	1094	5518	5995	6449	19772	645	979	4077	4601	8254	18556
Tama	832	603	2567	1492	631	6125	703	670	2438	997	673	5481
Taylor	316	334	1231	535	218	2634	304	263	1061	406	204	2238
Union	405	561	1925	1127	564	4582	276	521	1632	862	505	3796
Van Buren	312	339	1242	556	266	2715	411	237	1186	363	228	2425
Wapello	1556	1932	5079	3133	1313	13013	1259	1450	4573	2411	1320	11013
Warren	482	924	5298	3322	1664	11690	609	861	4412	2671	1920	10473
Washington	854	690	3019	1636	736	6935	898	543	2586	1212	775	6014
Wayne	339	412	1191	541	199	2682	363	302	1048	387	220	2320
Webster	1206	1857	5512	4061	1668	14304	1184	1482	4474	3080	1969	12189
Winnebago	473	363	1371	1494	480	4181	535	320	1358	874	627	3714
Winneshiek	919	462	2728	1262	1031	6402	1041	496	2378	981	1087	5983
Woodbury	2430	4449	13073	7961	4977	32890	2878	3513	10109	6676	5243	28419
Worth	307	294	1092	926	288	2907	314	293	1039	608	310	2564
Wright	495	575	2063	1659	530	5322	581	563	1755	1082	588	4569
State of Iowa	80507	101916	373085	246901	140192	942601	82828	88549	311283	192337	159200	834197

Table 2. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1980.

County	Females						Males					
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+
Adair	516	352	1579	517	217	3181	727	301	1230	280	314	2852
Adams	281	208	978	331	139	1937	469	148	706	201	226	1750
Allamakee	1083	510	2084	566	409	4652	1345	409	1767	320	430	4271
Appanoose	1185	679	2279	715	370	5228	1286	505	1512	584	507	4394
Audubon	694	235	1332	390	220	2871	806	237	962	245	264	2514
Benton	1218	1007	3586	981	538	7330	1542	670	3059	705	657	6633
Black Hawk	4834	5133	18322	6471	5151	39911	5480	4364	14646	4918	6557	35965
Boone	1559	924	3941	1386	934	8744	1534	786	3225	988	1044	7577
Bremer	1456	543	3392	1105	837	7333	1462	549	2764	786	1106	6667
Buchanan	873	761	3381	916	570	6501	1299	788	2792	566	596	6041
Buena Vista	902	619	3088	1269	783	6661	1134	542	2318	800	1036	5830
Butler	1347	604	2512	763	394	5620	1563	465	2182	538	385	5133
Calhoun	822	564	2040	798	430	4654	924	440	1679	492	397	3932
Carroll	1842	613	3083	858	562	6958	1752	568	2361	655	685	6021
Cass	941	601	2911	838	440	5731	936	656	2192	523	613	4920
Cedar	1088	572	2658	939	575	5832	978	722	2411	683	617	5411
Cerro Gordo	2134	2075	7030	3027	1823	16089	2241	1722	4922	2450	2281	13616
Cherokee	731	518	2639	829	530	5247	836	494	2133	629	639	4731
Chickasaw	1011	398	2238	585	314	4546	1120	353	1923	387	431	4214
Clarke	395	473	1433	320	200	2821	642	260	1062	317	220	2501
Clay	705	669	3056	1018	674	6122	796	672	2390	799	803	5460
Clayton	1500	721	2878	808	542	6449	1814	664	2545	505	558	6086
Clinton	2616	2073	8648	2686	1657	17680	3034	2096	6481	2196	1958	15765
Crawford	1368	537	2798	580	419	5702	1490	484	2340	439	522	5275
Dallas	967	1084	4857	1438	1008	9354	1308	945	3735	1018	1344	8350
Davis	599	374	1364	354	216	2907	750	272	1089	293	178	2582
Decatur	628	364	1287	385	366	3030	669	365	984	223	421	2662
Delaware	1080	623	2528	677	417	5325	1238	563	2286	423	417	4927
Des Moines	2518	2153	6847	2151	1442	15111	2067	1473	5643	1931	1788	12902
Dickinson	622	647	2415	980	572	5236	644	585	2006	684	786	4705
Dubuque	4885	3476	12207	3123	3299	26990	4733	2752	9346	2367	4266	23464
Emmet	640	478	1881	807	355	4161	787	456	1252	677	486	3658
Fayette	1548	821	3688	1036	798	7891	1738	719	3035	732	893	7117
Floyd	1052	785	2990	907	615	6349	1082	599	2427	683	756	5547
Franklin	750	512	1910	794	394	4360	928	390	1575	558	451	3902
Fremont	475	404	1596	413	314	3202	631	342	1200	298	312	2783
Greene	532	546	2007	655	387	4127	642	467	1509	468	442	3528
Grundy	904	425	2208	790	388	4715	853	453	1820	529	495	4150
Guthrie	790	516	2096	505	252	4159	877	461	1648	316	306	3608
Hamilton	752	607	2901	1017	547	5824	1009	624	2146	737	690	5206
Hancock	805	417	2020	764	325	4331	889	387	1713	549	440	3978
Hardin	1213	884	2964	1498	599	7158	1425	718	2145	998	858	6144
Harrison	751	725	2771	643	379	5269	910	609	2185	446	424	4574
Henry	914	768	2656	1041	658	6037	1032	627	2141	738	760	5298
Howard	904	368	1644	431	215	3562	1188	269	1236	242	312	3247
Humboldt	605	444	1878	743	332	4002	747	474	1541	478	404	3644
Ida	630	244	1407	377	316	2974	727	244	1092	280	292	2635
Iowa	1082	444	2497	660	370	5053	1078	456	1972	413	534	4453
Jackson	1556	758	3028	805	433	6580	1844	597	2525	478	649	6093
Jasper	1801	1618	5911	1459	958	11747	2126	1315	4668	1171	1217	10497

Table 2. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1980 (continued).

County	Females						Males					
	0-8	1-3	4	1-3	4+	Total	0-8	1-3	4	1-3	4+	Total
	Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll		Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll	
Jefferson	770	578	2306	826	853	5333	867	430	1951	598	1040	4886
Johnson	1718	1438	6490	4792	7210	21648	1853	1069	5170	3398	9062	20552
Jones	956	807	2963	779	515	6020	1458	611	2433	677	595	5774
Keokuk	787	480	2164	553	284	4268	940	437	1825	338	305	3845
Kossuth	1264	691	3255	981	492	6683	1483	670	2506	849	604	6112
Lee	2400	1992	6527	1706	954	13579	2186	1570	5418	1750	1508	12432
Linn	5252	6317	24195	8755	6667	51186	5172	5027	18130	8186	9529	46044
Louisa	499	599	1705	530	314	3647	655	489	1493	463	283	3383
Lucas	623	493	1652	511	233	3512	605	402	1421	346	281	3055
Lyon	1158	256	1665	568	313	3960	1234	331	1252	404	390	3611
Madison	547	545	2193	555	283	4123	665	451	1756	442	385	3699
Mahaska	1523	917	3252	966	728	7386	1737	730	2553	638	801	6459
Marion	1968	1136	3944	1043	770	8861	2197	1011	3225	998	1048	8479
Marshall	1710	1485	5945	2401	1628	13169	1730	1450	4973	1884	1951	11988
Mills	690	552	2000	584	343	4169	969	477	1463	444	469	3822
Mitchell	751	370	1737	784	302	3944	847	362	1587	388	330	3514
Monona	792	547	1820	528	282	3969	904	464	1537	338	333	3576
Monroe	567	519	1434	389	148	3057	648	252	1238	294	226	2658
Montgomery	811	615	2056	776	387	4645	767	473	1645	535	507	3927
Muscatine	2212	1781	5189	1816	1119	12117	2324	1430	3896	1683	1608	10941
O'Brien	1350	536	2299	843	536	5564	1256	534	1744	564	675	4773
Osceola	723	259	1109	407	162	2660	773	280	807	276	267	2403
Page	1146	673	3084	1069	607	6579	1302	603	2210	762	702	5579
Palo Alto	610	397	1918	728	341	3994	787	501	1246	472	513	3519
Plymouth	1464	692	3414	1043	760	7373	1766	703	2510	830	922	6731
Pocahontas	691	373	1766	634	316	3780	832	294	1418	437	374	3355
Polk	7810	12689	43772	17150	14269	95690	7324	9801	30432	14464	19790	81811
Pottawattamie	4033	4168	13023	3258	1929	26411	4183	3335	10054	2944	2628	23144
Poweshiek	745	748	2883	820	811	6007	928	576	2302	527	839	5172
Ringgold	376	291	1077	271	160	2175	469	182	867	182	179	1879
Sac	851	631	2022	765	459	4728	1170	444	1671	415	481	4181
Scott	5845	6569	20025	7669	6101	46209	5569	5073	15097	7160	10378	43277
Shelby	882	326	2265	786	418	4677	1045	433	2000	351	439	4268
Sioux	2626	695	3116	1229	895	8561	2609	695	2383	887	1047	7621
Story	1269	1175	6645	3631	4695	17415	1296	1167	4524	2789	6836	16612
Tama	1271	778	2917	791	563	6320	1382	600	2541	482	645	5650
Taylor	548	400	1440	350	193	2931	647	328	1082	239	193	2489
Union	765	652	2232	596	373	4618	775	523	1748	446	410	3902
Van Buren	539	346	1406	302	195	2788	661	285	1117	240	256	2559
Wapello	2669	1993	6002	1784	1072	13520	2575	1547	4637	1402	1415	11576
Warren	1030	1062	5644	1412	1025	10173	1173	939	4239	1233	1672	9256
Washington	1282	652	2990	984	672	6580	1315	523	2335	691	765	5629
Wayne	647	449	1357	270	207	2930	670	259	1201	204	220	2554
Webster	2108	1860	6313	2852	1595	14728	2273	1587	4777	2132	1847	12616
Winnebago	782	414	1747	882	365	4190	932	353	1435	545	476	3741
Winneshiek	1472	674	2401	761	750	6058	1806	549	1992	490	803	5640
Woodbury	4037	4718	14536	4730	3759	31780	4293	3639	10748	3437	4991	27108
Worth	528	330	1368	629	210	3065	694	356	1054	362	268	2734
Wright	856	695	2465	1003	468	5487	983	499	2033	729	588	4832
State of Iowa	136057	109237	411172	140641	102414	899521	147861	90801	318197	109081	134641	800581

Table 3. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1970.

County	Females						Males					
	0-8	1-3	4	1-3	4+	Total	0-8	1-3	4	1-3	4+	Total
	Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll		Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll	
Adair	823	298	1343	416	218	3098	1155	292	1049	133	180	2809
Adams	617	257	800	294	120	2088	725	263	644	100	124	1856
Allamakee	1300	620	1730	476	188	4314	1854	466	1380	181	185	4066
Appanoose	1584	869	1846	423	250	4972	1830	583	1304	238	235	4190
Audubon	1018	315	1215	238	141	2927	1358	311	811	105	97	2682
Benton	1632	1024	2870	854	339	6719	2024	984	2356	413	378	6155
Black Hawk	6641	5867	14900	4927	2941	35276	7546	5036	11815	3326	3774	31497
Boone	2031	1257	3534	1057	489	8368	2192	1143	2596	724	475	7130
Bremer	1973	622	2374	840	481	6290	1977	517	2034	608	582	5718
Buchanan	1256	855	2664	756	329	5860	1780	869	2130	351	370	5500
Buena Vista	1286	759	2816	968	445	6274	1607	725	1994	572	582	5480
Butler	1678	663	1902	635	220	5098	2107	537	1548	285	236	4713
Calhoun	1126	692	1825	657	323	4623	1435	487	1494	294	304	4014
Carroll	2441	825	2195	709	336	6506	2270	723	1867	381	403	5644
Cass	1343	694	2316	806	359	5518	1493	699	1843	297	507	4839
Cedar	1406	663	2162	725	306	5262	1580	713	1780	444	389	4906
Cerro Gordo	2984	2428	6048	2347	1121	14928	3204	2013	4430	1534	1559	12740
Cherokee	1097	678	2260	788	319	5142	1218	679	1849	372	447	4565
Chickasaw	1297	558	1740	450	133	4178	1648	513	1325	251	200	3937
Clarke	677	391	1109	239	111	2527	772	366	874	127	93	2232
Clay	943	758	2629	823	377	5530	1211	704	1951	462	550	4878
Clayton	2181	883	2164	574	232	6034	2552	745	1891	355	236	5779
Clinton	3582	2570	7068	1919	1034	16173	4047	2626	5399	1252	1422	14746
Crawford	1742	633	2092	540	280	5287	2011	603	1784	303	322	5023
Dallas	1506	1119	3666	999	508	7798	1714	1117	3002	632	509	6974
Davis	864	413	956	294	129	2656	1008	311	709	189	152	2369
Decatur	856	468	1059	303	217	2903	1042	347	812	186	205	2592
Delaware	1414	645	2146	483	229	4917	1825	540	1705	290	293	4653
Des Moines	3276	2446	5944	1611	909	14186	3358	1820	4655	1328	1133	12294
Dickinson	768	572	1844	551	210	3945	1059	564	1272	389	322	3606
Dubuque	6382	3876	8659	2368	2152	23437	6343	3256	6652	1760	2270	20281
Emmet	955	584	1606	668	226	4039	1221	529	1210	346	269	3575
Fayette	2047	1119	3207	938	440	7751	2522	881	2576	507	520	7006
Floyd	1339	742	2726	859	389	6055	1753	720	2138	399	444	5454
Franklin	1114	579	1682	658	204	4237	1542	469	1235	359	231	3836
Fremont	647	503	1188	458	225	3021	853	374	1063	222	202	2714
Greene	858	710	1710	583	232	4093	918	611	1401	300	302	3532
Grundy	1217	495	1765	659	260	4396	1349	514	1430	305	283	3881
Guthrie	1164	675	1694	323	131	3987	1183	619	1340	190	209	3541
Hamilton	1190	725	2483	863	348	5609	1493	632	1961	501	428	5015
Hancock	1038	483	1661	653	170	4005	1367	480	1373	264	210	3694
Hardin	1733	835	2706	1177	446	6897	1821	839	2137	609	540	5946
Harrison	1258	933	2227	413	178	5009	1588	792	1678	195	229	4482
Henry	1360	766	2043	709	545	5423	1488	627	1640	550	541	4846
Howard	1191	406	1417	400	81	3495	1568	319	1041	178	108	3214
Humboldt	710	605	1722	499	214	3750	911	560	1348	270	308	3397
Ida	776	380	1211	342	185	2894	993	413	896	188	134	2624
Iowa	1380	503	1970	521	229	4603	1645	452	1575	258	275	4205
Jackson	1833	807	2231	585	290	5746	2309	723	1764	389	249	5434
Jasper	2516	1740	4593	1144	616	10609	3020	1397	3517	761	838	9533

Table 3. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1970 (continued).

County	Females						Males					
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+
Jefferson	1054	641	1893	506	468	4562	1223	570	1499	367	434	4093
Johnson	2204	1468	5463	3011	4093	16239	2381	1390	4276	1755	5685	15487
Jones	1383	829	2332	669	317	5530	1825	739	1911	378	371	5224
Keokuk	1214	584	1886	480	258	4422	1252	532	1665	241	240	3930
Kossuth	1614	810	2904	882	335	6545	2126	749	2271	416	441	6003
Lee	3250	2316	5226	1302	768	12862	3552	1789	4222	1054	972	11589
Linn	7033	6825	20688	5861	4098	44505	7684	5862	15880	4932	5954	40312
Louisa	644	420	1397	464	182	3107	869	432	1149	250	246	2946
Lucas	1025	489	1384	357	145	3400	1004	506	1101	171	157	2939
Lyon	1533	403	1194	410	207	3747	1750	330	1019	175	237	3511
Madison	731	589	1759	441	181	3701	1037	511	1394	220	154	3316
Mahaska	2184	998	2733	608	454	6977	2378	710	2014	483	498	6083
Marion	2622	968	2764	729	419	7502	3107	1032	2308	494	647	7588
Marshall	2197	1988	5252	1718	764	11919	2745	1868	4085	1161	1142	11001
Mills	754	522	1563	358	199	3396	948	474	1335	200	196	3153
Mitchell	1028	541	1606	521	231	3927	1320	513	1251	213	199	3496
Monona	1053	581	1589	443	189	3855	1320	494	1234	217	240	3505
Monroe	906	494	1184	245	169	2998	1060	366	977	114	136	2653
Montgomery	1090	656	1712	666	218	4342	1206	501	1305	361	305	3678
Muscatine	3121	1788	3818	1246	708	10681	3177	1606	2948	915	1052	9698
O'Brien	1753	580	2010	700	350	5393	1965	489	1546	361	361	4722
Osceola	953	293	888	320	82	2536	1150	310	683	100	90	2333
Page	1565	900	2473	935	439	6312	1634	894	1831	540	449	5348
Palo Alto	916	573	1595	560	229	3873	1219	414	1375	268	258	3534
Plymouth	1821	845	2589	872	479	6606	2363	783	1983	381	562	6072
Pocahontas	806	511	1724	561	221	3823	1131	490	1347	247	264	3479
Polk	11588	14042	37977	11329	8032	82968	12162	11441	25857	9917	11624	71001
Pottawattamie	5857	4767	10085	2278	1235	24222	6303	4114	8235	1685	1310	21647
Poweshiek	1023	807	2376	673	595	5474	1242	683	1909	341	621	4796
Ringgold	531	351	968	209	91	2150	601	348	793	105	84	1931
Sac	1402	584	1923	635	285	4829	1603	512	1625	233	345	4318
Scott	8235	7960	15374	4273	2917	38759	8454	6568	11562	3807	5033	35424
Shelby	1233	456	1927	553	202	4371	1521	451	1591	203	311	4077
Sioux	3346	601	2212	883	419	7461	3265	728	1644	453	580	6670
Story	1829	1360	5600	2373	2966	14128	2068	1249	3546	1651	4700	13214
Tama	1834	707	2544	782	218	6085	2037	829	2114	344	308	5632
Taylor	817	475	1230	353	149	3024	985	395	956	139	152	2627
Union	866	717	1899	608	281	4371	1231	530	1397	371	225	3754
Van Buren	756	455	1128	322	130	2791	950	392	959	129	162	2592
Wapello	3916	2442	5101	1318	655	13432	4126	1763	3792	888	786	11355
Warren	999	1015	3625	916	571	7126	1356	1023	3067	695	694	6835
Washington	1704	751	2206	751	407	5819	1771	567	1955	384	373	5050
Wayne	746	490	1248	321	133	2938	979	348	951	168	144	2590
Webster	3009	2254	5691	2237	960	14151	3384	1850	4377	1418	1224	12253
Winnebago	1051	481	1445	692	232	3901	1384	378	1187	250	337	3536
Winneshiek	1965	697	1982	647	367	5658	2477	586	1322	347	598	5330
Woodbury	6138	5185	12353	3939	2392	30007	6704	4709	8579	2794	3115	25901
Worth	739	383	1085	440	127	2774	1004	400	937	168	144	2653
Wright	1170	799	2252	863	330	5414	1552	614	1832	495	353	4846
State of Iowa	187258	123699	337575	103782	60752	813066	214074	107335	259074	67672	79367	727522

Table 4. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1960.

County	Females						Males					
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	Total 25+
Adair	1195	475	1291	298	90	3349	1643	429	906	147	92	3217
Adams	829	328	778	250	69	2254	1109	306	552	123	90	2180
Allamakee	2000	657	1321	383	120	4481	2565	410	925	209	242	4351
Appanoose	2434	872	1533	474	123	5436	2689	557	1109	222	205	4782
Audubon	1395	338	1095	276	105	3209	1807	314	680	110	117	3028
Benton	2455	1026	2231	781	195	6688	3037	1025	1625	417	324	6428
Black Hawk	9031	6092	11505	4362	2079	33069	11108	5607	8625	2828	2724	30892
Boone	3325	1347	2740	902	373	8687	3602	1044	2096	679	464	7885
Bremer	2551	648	1648	716	209	5772	2711	657	1292	368	444	5472
Buchanan	2077	973	2012	819	229	6110	2723	911	1573	305	371	5883
Buena Vista	1887	780	2228	1041	342	6278	2350	788	1719	573	449	5879
Butler	2116	639	1609	615	112	5091	2623	672	1157	247	216	4915
Calhoun	1530	698	1774	597	170	4769	2061	601	1298	272	223	4455
Carroll	3078	812	1820	549	276	6535	3265	668	1320	357	289	5899
Cass	1844	785	2093	555	199	5476	2309	660	1510	343	387	5209
Cedar	2006	697	1670	636	163	5172	2251	683	1404	349	285	4972
Cerro Gordo	4337	2431	5116	2107	698	14689	5156	2373	3501	1352	1074	13456
Cherokee	1810	823	1987	773	186	5579	2319	751	1533	370	294	5267
Chickasaw	1645	527	1420	434	134	4160	2269	559	883	171	206	4088
Clarke	977	421	927	220	80	2625	1259	350	659	127	101	2496
Clay	1392	771	2097	833	273	5366	1858	777	1614	431	405	5085
Clayton	2715	804	1965	683	158	6325	3444	679	1500	378	260	6261
Clinton	5535	2416	5714	1550	650	15865	6540	2542	4267	1010	1029	15388
Crawford	2489	661	1617	434	113	5314	2933	724	1146	229	198	5230
Dallas	2149	1236	2796	867	353	7401	2677	1081	2153	429	475	6815
Davis	1233	378	800	303	68	2782	1453	319	612	188	109	2681
Decatur	1117	539	960	415	151	3182	1469	413	685	213	198	2978
Delaware	2002	559	1629	564	121	4875	2589	644	1202	261	202	4898
Des Moines	4671	2510	4665	1272	642	13760	4845	2131	3396	1023	850	12245
Dickinson	1091	633	1426	496	134	3780	1431	531	1137	244	239	3582
Dubuque	8529	3637	6471	1723	1193	21553	8753	3339	4461	1227	1670	19450
Emmet	1337	589	1482	637	117	4162	1684	555	1007	329	279	3854
Fayette	2883	1148	2757	1009	366	8163	3539	1120	2103	581	472	7815
Floyd	1933	974	2364	643	305	6219	2632	801	1618	371	361	5783
Franklin	1666	643	1510	667	118	4604	2112	616	1140	301	227	4396
Fremont	1001	450	1150	447	162	3210	1308	405	930	242	165	3050
Greene	1319	666	1687	519	178	4369	1605	595	1259	240	280	3979
Grundy	1638	511	1428	513	152	4242	1866	508	1177	259	171	3981
Guthrie	1499	744	1475	379	112	4209	1899	585	1074	200	157	3915
Hamilton	1781	887	2183	756	234	5841	2329	762	1680	386	371	5528
Hancock	1478	531	1426	551	83	4069	2030	509	1022	251	204	4016
Hardin	2353	960	2283	1063	298	6957	2834	834	1697	547	428	6340
Harrison	1831	898	1879	514	126	5248	2395	861	1248	227	196	4927
Henry	2063	973	1729	662	352	5779	2343	753	1392	367	369	5224
Howard	1771	426	951	354	156	3658	2250	352	737	115	188	3642
Humboldt	1031	545	1415	581	121	3693	1434	549	1118	287	266	3654
Ida	1275	300	1134	339	73	3121	1635	335	739	120	156	2985
Iowa	1914	575	1523	522	144	4678	2392	472	1200	241	254	4559
Jackson	2584	801	1617	504	130	5636	3202	678	1325	250	209	5664
Jasper	3421	1643	3876	968	323	10231	4340	1577	2549	585	587	9638

Table 4. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1960 (continued).

County	Females					Total 25+	Males					Total 25+
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll		0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	
Jefferson	1504	658	1530	588	348	4628	1937	546	1162	339	380	4364
Johnson	3038	1573	3974	2127	2248	12960	3928	1515	2725	1486	3418	13072
Jones	1934	712	1961	698	172	5477	2750	825	1556	383	260	5774
Keokuk	1836	613	1657	519	156	4781	2111	557	1355	228	191	4442
Kossuth	2471	869	2345	890	244	6819	3226	851	1800	386	388	6651
Lee	4743	2399	4352	975	574	13043	5781	2096	3313	799	787	12776
Linn	9895	7000	14358	4782	2758	38793	11266	6697	10312	3486	4249	36010
Louisa	1041	481	1013	375	108	3018	1208	478	889	181	157	2913
Lucas	1441	565	1068	337	142	3553	1741	437	818	151	187	3334
Lyon	2037	343	983	454	83	3900	2319	414	732	136	186	3787
Madison	1192	632	1408	430	127	3789	1577	541	1066	186	164	3534
Mahaska	2874	1207	2248	705	325	7359	3458	911	1431	405	392	6597
Marion	3315	982	2075	545	370	7287	4380	1049	1673	441	523	8066
Marshall	3369	1933	4019	1538	482	11341	3963	1879	3068	989	782	10681
Mills	1400	602	1226	411	165	3804	1905	528	827	231	172	3663
Mitchell	1306	599	1490	470	138	4003	1804	530	963	264	192	3753
Monona	1553	596	1358	467	152	4126	2066	610	989	180	176	4021
Monroe	1318	481	947	290	98	3134	1631	421	842	134	100	3128
Montgomery	1557	726	1577	644	235	4739	1847	561	1169	400	226	4203
Muscatine	4140	1726	2809	925	376	9976	4574	1388	2100	552	704	9318
O'Brien	2365	705	1590	650	231	5541	2621	655	1284	301	279	5140
Osceola	1287	338	790	286	54	2755	1706	245	622	115	119	2807
Page	2483	1007	2231	980	356	7057	2938	873	1579	488	426	6304
Palo Alto	1306	556	1386	597	193	4038	1793	460	1136	229	240	3858
Plymouth	2725	762	2024	757	275	6543	3399	744	1408	418	393	6362
Pocahontas	1348	527	1444	590	169	4078	1773	507	1231	254	202	3967
Polk	18176	14508	30611	9790	5397	78482	20078	12944	19587	7985	8707	69301
Pottawattamie	7354	4426	8510	2055	727	23072	9025	4038	6169	1470	1152	21854
Poweshiek	1578	819	2118	656	366	5537	1979	749	1530	316	424	4998
Ringgold	817	328	936	282	88	2451	987	361	767	138	73	2326
Sac	1799	642	1716	611	197	4965	2305	680	1251	275	227	4738
Scott	10677	7270	10924	3296	1700	33867	11672	6147	7503	2934	3216	31472
Shelby	1777	491	1505	375	159	4307	2103	565	1212	162	159	4201
Sioux	3898	670	1635	638	167	7008	4304	675	1069	251	348	6647
Story	2747	1386	4449	2041	1675	12298	3233	1309	2708	1586	3007	11843
Tama	2561	809	1967	778	179	6294	3053	789	1661	330	290	6123
Taylor	1345	565	929	415	85	3339	1597	391	840	180	105	3113
Union	1437	827	1534	498	151	4447	1774	666	1134	260	150	3984
Van Buren	1107	513	1059	287	107	3073	1433	409	749	156	153	2900
Wapello	5153	2720	4547	1157	657	14234	5741	2242	3163	742	735	12623
Warren	1573	885	2129	693	362	5642	1895	886	1689	480	435	5385
Washington	2271	752	1869	734	278	5904	2298	698	1582	369	338	5285
Wayne	1314	573	1067	259	120	3333	1443	417	902	147	140	3049
Webster	4192	2251	4897	1889	650	13879	5282	1936	3350	1100	925	12593
Winnebago	1457	465	1099	545	146	3712	1767	427	960	240	248	3642
Winneshiek	2522	666	1605	689	243	5725	3316	674	999	391	368	5748
Woodbury	10089	5873	10195	3256	1835	31248	11116	5560	7332	2232	2445	28685
Worth	989	469	980	400	113	2951	1486	345	773	188	137	2929
Wright	1719	856	2051	802	270	5698	2271	811	1476	471	294	5323
State of Iowa	266253	127133	271002	91732	39609	795729	318537	115449	196011	56666	58941	745604

Table 5. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1950.

County	Females							Males						
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	No Rept	Total 25+	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	No Rept	Total 25+
Adair	1655	575	1210	295	65	105	3905	2060	445	720	120	110	105	3555
Adams	1215	375	755	280	50	45	2720	1335	375	415	85	85	45	2345
Allamakee	2425	550	1000	340	160	110	4585	3205	445	610	230	130	110	4810
Appanoose	3260	905	1480	320	150	120	6235	3635	765	970	215	165	120	5875
Audubon	1740	390	810	235	50	80	3305	2070	410	520	110	70	80	3280
Benton	2815	1075	1955	590	210	120	6765	3440	1095	1320	310	220	120	6535
Black Hawk	9910	5090	8765	3650	1550	475	29440	11565	5345	6400	2410	1880	475	28225
Boone	3535	1205	2370	720	255	720	8805	4015	1160	1680	500	340	720	8280
Bremer	2845	570	1335	525	115	140	5530	3075	520	1005	360	210	140	5310
Buchanan	2315	910	1765	580	160	910	6640	3005	910	1135	240	185	910	6485
Buena Vista	2410	875	2050	820	315	65	6535	2835	810	1545	485	385	65	6230
Butler	2520	770	1150	560	130	65	5195	3100	630	775	255	140	65	5000
Calhoun	2120	835	1500	525	170	75	5225	2360	720	1015	310	175	75	4670
Carroll	3240	815	1510	590	325	205	6685	3650	785	1055	335	315	205	6380
Cass	2310	905	1920	575	125	85	5920	2855	745	1180	330	240	85	5480
Cedar	2270	640	1340	495	220	75	5040	2675	895	1100	200	200	75	5215
Cerro Gordo	4435	2275	4235	1510	740	410	13605	5700	2035	3095	1130	780	410	13270
Cherokee	2285	950	1675	505	190	70	5675	3200	780	1270	240	250	70	5835
Chickasaw	2180	540	1060	295	135	95	4305	2790	545	830	195	90	95	4530
Clarke	1215	510	795	225	90	20	2855	1670	475	555	100	120	20	2955
Clay	1625	970	1720	840	240	80	5475	2270	785	1315	430	225	80	5160
Clayton	3320	825	1505	550	200	75	6475	4375	720	1105	335	220	75	6940
Clinton	6240	2290	4560	1420	545	270	15325	7390	2485	3165	780	695	270	16840
Crawford	3085	750	1230	430	85	145	5725	3405	645	995	225	150	145	5660
Dallas	2475	1315	2415	855	215	110	7385	3105	1215	1600	550	260	110	6870
Davis	1655	425	615	280	80	35	3090	1795	330	485	155	105	35	2920
Decatur	1650	610	960	325	110	70	3725	1990	530	620	190	140	70	3530
Delaware	2095	620	1230	420	170	140	4675	2860	690	885	350	225	140	5135
Des Moines	5380	2230	3760	1110	475	345	13300	5880	1855	2900	905	605	345	12565
Dickinson	1310	640	1155	505	155	90	3855	1700	550	955	265	155	90	3675
Dubuque	9420	3285	5140	1495	1100	350	20790	9910	2885	3625	1010	1230	350	19180
Emmet	1480	505	1225	565	155	75	4005	2210	660	850	250	220	75	4315
Fayette	3325	1230	2340	815	370	170	8250	4640	1120	1650	495	335	170	8395
Floyd	2460	845	1685	785	185	70	6030	3205	870	1540	400	325	70	6435
Franklin	1980	705	1295	505	160	60	4705	2555	690	895	175	155	60	4520
Fremont	1455	545	1130	415	125	60	3730	1800	520	790	210	120	60	3550
Greene	1530	775	1495	525	245	90	4660	1975	745	1005	185	210	90	4220
Grundy	1845	555	1000	555	105	40	4100	2270	655	630	130	110	40	3880
Guthrie	2005	790	1320	440	135	100	4790	2250	635	825	165	100	100	4040
Hamilton	2245	910	1635	745	200	105	5840	3075	810	1160	435	200	105	5905
Hancock	1865	505	1160	500	90	80	4200	2320	455	715	225	200	80	4090
Hardin	2745	1035	1720	880	375	110	6865	3465	905	1510	500	395	110	6925
Harrison	2300	1140	1520	420	155	110	5645	2850	1055	1075	215	150	110	5485
Henry	2595	720	1545	545	320	75	5800	2850	770	1180	445	355	75	5780
Howard	2010	410	850	325	140	60	3795	2440	445	510	170	90	60	3755
Humboldt	1335	570	1070	505	130	115	3725	1805	575	910	210	120	115	3780
Ida	1405	435	690	260	115	10	2915	1930	385	555	130	115	10	3205
Iowa	2355	575	1075	395	125	255	4780	2895	450	825	150	180	255	4830
Jackson	2490	675	1200	365	135	180	5045	3430	565	775	200	195	180	5425
Jasper	3910	1485	2895	720	330	150	9490	4785	1465	1855	450	470	150	9205

Table 5. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1950 (continued).

County	Females							Males						
	0-8	1-3	4	1-3	4+	No	Total	0-8	1-3	4	1-3	4+	No	Total
	Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll			Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll		
Jefferson	2010	665	1320	505	310	65	4875	2345	555	975	350	305	65	4625
Johnson	3510	1435	3115	1795	1840	260	11955	4090	1390	2275	1600	2780	260	12560
Jones	2350	780	1335	465	190	70	5190	3280	915	1070	330	190	70	5915
Keokuk	2365	835	1525	545	145	75	5490	2660	665	1155	220	130	75	4935
Kossuth	2955	805	1650	715	300	190	6615	4365	1005	1255	315	320	190	7500
Lee	5575	2390	3565	960	430	330	13250	6730	1900	2630	720	585	330	12950
Linn	10875	6545	10000	3895	2085	365	33765	12210	5685	7455	2625	2460	365	30895
Louisa	1280	515	825	415	100	20	3155	1555	500	820	150	105	20	3200
Lucas	1710	575	970	405	125	85	3870	2075	530	665	210	120	85	3720
Lyon	2215	355	745	295	85	55	3750	2570	475	555	155	145	55	3990
Madison	1600	535	1255	520	60	60	4030	2100	460	780	225	85	60	3755
Mahaska	3595	1140	2075	675	330	65	7880	3900	835	1330	410	300	65	6970
Marion	3735	975	1735	470	255	115	7285	5385	915	1365	355	255	115	8500
Marshall	3750	2045	3470	1185	445	400	11295	4605	1740	2495	665	625	400	10740
Mills	1260	730	995	245	100	670	4000	1695	590	735	170	90	670	3915
Mitchell	1665	640	1130	480	165	60	4140	2065	575	775	260	125	60	3875
Monona	1825	795	1185	475	175	50	4505	2575	700	875	250	185	50	4655
Monroe	1895	560	825	220	120	35	3655	2330	455	575	110	85	35	3600
Montgomery	1815	790	1445	650	150	65	4915	2115	810	1015	375	200	65	4630
Muscatine	4860	1865	2245	735	360	210	10275	4770	1430	1500	510	360	210	8915
O'Brien	2710	690	1245	485	195	80	5405	3055	695	1195	235	220	80	5555
Osceola	1525	315	735	200	60	35	2870	1770	285	485	30	100	35	2745
Page	3050	1225	2080	985	405	280	8025	3405	1095	1530	450	355	280	7140
Palo Alto	1665	670	1220	450	115	115	4235	2225	620	960	280	205	115	4475
Plymouth	3260	910	1560	580	210	95	6615	3705	780	935	310	290	95	6145
Pocahontas	1655	650	1345	470	200	50	4370	2190	600	810	230	155	50	4125
Polk	20310	13195	24500	7880	4435	1585	71905	22025	12125	16075	6320	6530	1585	64850
Pottawattamie	8275	3925	6000	1685	620	425	20930	9465	3635	4275	1030	815	425	19720
Poweshiek	2230	890	1415	660	380	55	5630	2305	965	1080	345	280	55	5115
Ringgold	1090	540	950	270	60	40	2950	1520	405	550	170	115	40	2820
Sac	2125	670	1255	610	280	60	5000	2685	725	1080	225	225	60	5020
Scott	11840	6495	8060	2130	1470	755	30750	12045	5550	6205	2365	2190	755	29395
Shelby	2195	595	1145	360	145	115	4555	2440	580	675	185	160	115	4155
Sioux	4480	560	1260	435	210	105	7050	4485	555	790	265	240	105	6445
Story	2990	1445	3455	1855	1510	175	11430	3530	1395	2285	1755	2360	175	11505
Tama	3115	855	1730	630	220	100	6650	3505	945	1250	245	195	100	6250
Taylor	1755	645	1045	300	85	80	3910	2145	580	845	145	130	80	3920
Union	1975	860	1495	550	130	65	5075	2280	785	930	245	180	65	4475
Van Buren	1400	615	920	250	70	135	3390	1840	555	660	165	140	135	3495
Wapello	6310	2240	3685	1230	560	285	14310	7310	2105	2905	780	600	285	14065
Warren	1940	845	1480	620	255	55	5195	2360	655	1045	360	250	55	4760
Washington	2670	825	1660	695	260	115	6225	2850	695	1240	340	250	115	5485
Wayne	1800	725	1030	250	80	45	3930	2140	550	750	100	75	45	3665
Webster	5040	2100	3770	1505	555	320	13290	5920	2015	2625	855	685	320	12485
Winnebago	1810	435	830	460	100	110	3745	2200	445	605	270	175	110	3815
Winnesiek	3260	755	935	545	165	85	5745	4265	685	610	370	220	85	6300
Woodbury	11010	6090	9030	2920	1690	555	31295	12955	5230	6710	1990	1810	555	29675
Worth	1630	420	820	340	90	75	3375	1930	300	600	145	105	75	3155
Wright	2090	870	1680	715	215	65	5635	2725	795	1200	430	210	65	5560
State of Iowa	312340	125160	217565	77845	34715	16920	784545	370365	114835	155305	49135	42860	16920	754640

Table 6. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1940.

County	Females							Males						
	0-8	1-3	4	1-3	4+	No Rept	Total 25+	0-8	1-3	4	1-3	4+	No Rept	Total 25+
	Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll			Yrs Elem	Yrs H.S.	Yrs H.S.	Yrs Coll	Yrs Coll		
Adair	1964	596	846	220	83	3	3712	2661	453	554	122	100	11	3901
Adams	1503	494	528	183	56	2	2766	2007	393	315	111	74	5	2905
Allamakee	2910	569	765	235	108	43	4630	3848	489	395	156	162	53	5103
Appanoose	4226	913	1108	329	134	70	6780	5020	712	708	231	187	99	6957
Audubon	1974	319	581	188	64	4	3130	2525	320	345	109	89	7	3395
Benton	3467	951	1295	497	159	30	6399	4278	1042	914	302	222	57	6815
Black Hawk	9552	4353	5272	2789	1122	494	23582	11329	4119	4007	1899	1305	581	23240
Boone	4856	1305	1700	571	214	70	8716	5717	1084	1183	369	277	88	8718
Bremer	3171	556	767	415	125	52	5086	3514	573	539	290	216	80	5212
Buchanan	3138	974	1260	561	165	91	6189	4224	795	825	316	207	70	6437
Buena Vista	2625	826	1147	745	235	31	5609	3468	806	848	427	306	39	5894
Butler	2849	724	769	461	95	17	4915	3528	642	579	215	157	39	5160
Calhoun	2442	763	1073	417	132	19	4846	3259	687	669	261	188	30	5094
Carroll	3583	773	1066	369	191	18	6000	4002	745	710	277	238	47	6019
Casc	2652	927	1367	390	146	21	5503	3444	812	844	303	211	20	5634
Cedar	2720	688	901	435	146	47	4937	3243	730	686	324	184	76	5243
Cerro Gordo	5118	2204	3135	1328	457	121	12363	6595	2095	2065	929	625	199	12508
Cherokee	2324	718	1045	447	179	779	5492	3164	637	712	244	199	961	5917
Chickasaw	2410	576	862	234	89	34	4205	3080	546	532	132	135	56	4481
Clarke	1533	462	659	209	64	18	2945	1974	392	368	145	83	22	2984
Clay	2007	886	1209	492	194	78	4866	2852	796	834	336	230	94	5142
Clayton	4105	818	1138	473	152	42	6728	5136	780	776	277	229	61	7259
Clinton	7324	2029	2830	892	352	27	13454	8752	1900	1820	626	530	39	13667
Crawford	3392	665	885	336	127	14	5419	4237	676	625	216	170	39	5963
Dallas	3292	1312	1646	603	249	80	7182	4284	1173	1177	352	284	108	7378
Davis	2001	390	437	210	50	96	3184	2258	327	287	148	83	85	3188
Decatur	1995	706	759	325	87	70	3942	2566	522	500	204	122	105	4019
Delaware	2481	791	1000	475	182	27	4956	3175	733	688	280	217	39	5132
Des Moines	6537	1732	2039	807	357	395	11867	6781	1471	1324	580	450	431	11037
Dickinson	1361	604	788	380	100	30	3263	1997	638	554	208	136	39	3572
Dubuque	10802	2685	3352	904	748	276	18767	11283	2287	2156	696	925	218	17565
Emmet	1659	583	754	407	113	33	3549	2394	587	494	234	143	71	3923
Fayette	4270	1191	1741	654	255	57	8168	5296	1151	1240	373	311	86	8457
Floyd	2687	982	1294	594	201	18	5776	3568	925	881	344	250	35	6003
Franklin	2411	651	807	393	119	41	4422	3238	606	549	204	163	56	4816
Fremont	1900	656	907	402	142	13	4020	2483	605	691	247	165	19	4210
Greene	2028	884	1217	396	160	19	4704	2753	880	752	219	185	24	4813
Grundy	2202	402	683	357	114	31	3789	2674	462	505	225	125	55	4046
Guthrie	2440	839	1032	292	132	8	4743	3262	678	707	168	163	12	4990
Hamilton	2758	778	1195	457	167	40	5395	3612	720	780	321	215	62	5710
Hancock	2220	460	716	394	102	50	3942	3023	447	449	246	138	56	4359
Hardin	3175	965	1258	737	285	99	6519	3857	886	867	515	310	108	6543
Harrison	2940	1222	1306	393	150	19	6030	4004	1097	759	262	199	47	6368
Henry	2911	873	983	570	258	128	5723	3366	789	724	397	252	152	5680
Howard	2256	441	660	229	99	21	3706	2786	421	424	146	131	35	3943
Humboldt	1660	557	815	341	128	16	3517	2336	603	545	235	140	31	3890
Ia	1780	370	534	241	96	24	3045	2206	414	382	122	117	41	3282
Iowa	2807	564	958	283	101	36	4749	3460	576	595	187	165	58	5041
Jackson	3199	735	963	313	91	42	5343	3945	735	598	219	165	52	5714
Jasper	4373	1394	1987	724	292	92	8862	5446	1280	1262	503	340	112	8943

Table 6. Years of Education Completed by Residents 25 or Older by Sex in Iowa Counties, 1940 (continued).

County	Females							Males						
	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	No Rept	Total 25+	0-8 Yrs Elem	1-3 Yrs H.S.	4 Yrs H.S.	1-3 Yrs Coll	4+ Yrs Coll	No Rept	Total 25+
Jefferson	2306	678	976	411	225	115	4711	2864	594	645	276	231	126	4736
Johnson	4009	1285	2459	1151	1215	117	10236	4716	1233	1511	707	1347	110	9624
Jones	2838	788	1017	417	147	7	5214	4114	874	708	256	200	20	6172
Keokuk	2970	792	1120	399	148	17	5446	3520	669	797	266	183	16	5451
Kossuth	3525	894	1307	553	218	61	6558	4849	805	896	350	274	84	7258
Lee	6671	2104	2284	653	284	165	12161	8310	1931	1583	563	421	195	13003
Linn	11668	5357	7036	2655	1538	183	28437	13300	4844	4669	1927	1836	281	26857
Louisa	1519	528	647	328	96	28	3146	2051	494	475	202	120	35	3377
Lucas	2338	615	847	263	91	48	4202	2781	492	525	192	126	52	4168
Lyon	2479	409	586	270	84	14	3842	3073	434	372	147	140	23	4189
Madison	2120	649	900	310	99	33	4111	2671	540	625	223	130	42	4231
Mahaska	4271	1139	1509	617	310	70	7916	5042	899	950	411	347	69	7718
Marion	4444	936	1071	526	232	126	7335	6062	970	802	344	287	185	8650
Marshall	4317	1966	2365	1008	350	274	10280	5295	1758	1686	682	505	615	10541
Mills	1749	638	770	363	115	620	4255	2382	577	483	197	143	508	4290
Mitchell	2052	645	778	327	120	23	3945	2608	612	517	199	131	42	4109
Monona	2354	816	952	368	129	30	4649	3245	774	679	193	159	45	5095
Monroe	2443	566	637	196	79	23	3944	3080	473	386	138	98	25	4200
Montgomery	2152	764	1105	504	163	32	4720	2744	687	709	340	192	30	4702
Muscatine	5489	1383	1577	540	242	70	9301	6272	1218	1055	385	360	99	9389
O'Brien	2892	658	1065	413	147	84	5259	3563	693	718	253	216	114	5557
Osceola	1607	329	413	177	66	28	2620	2059	344	258	105	88	37	2891
Page	3806	1087	1673	744	302	40	7652	4686	1008	1100	540	322	66	7722
Palo Alto	1883	633	853	384	126	49	3928	2770	569	625	231	171	69	4435
Plymouth	3642	771	1079	466	210	47	6215	4698	742	661	280	260	100	6741
Pocahontas	2080	584	910	414	127	35	4150	2836	585	635	252	164	54	4526
Polk	22683	10909	17540	6025	3354	845	61356	25133	9480	11494	4699	4636	1012	56454
Pottawattamie	9621	3458	4310	1357	523	98	19367	11324	3103	2741	940	710	112	18930
Poweshiek	2514	905	1370	478	289	42	5598	3204	856	782	293	304	67	5506
Ringgold	1478	491	733	258	75	98	3133	1889	460	527	155	84	130	3245
Sac	2441	773	1008	455	147	23	4847	3134	723	697	245	197	55	5051
Scott	13554	5184	5100	1722	915	90	26565	14677	4816	3569	1578	1502	72	26214
Shelby	2525	604	786	282	102	10	4309	3172	555	487	167	129	18	4528
Sioux	4661	552	928	315	127	43	6626	5302	613	554	205	255	67	6996
Story	3526	1484	2281	1327	974	205	9797	4361	1400	1411	794	1315	235	9516
Tama	3443	805	1296	519	181	74	6318	4273	910	857	315	225	136	6716
Taylor	2205	739	817	285	111	18	4175	2774	594	487	176	100	20	4151
Union	2365	798	1244	380	155	36	4978	2999	716	725	225	176	40	4881
Van Buren	1908	646	759	233	98	51	3695	2256	620	517	162	109	65	3729
Wapello	7006	2128	2598	879	431	109	13151	8085	1876	1666	610	476	178	12891
Warren	2290	783	1107	504	229	93	5006	3023	696	695	336	206	109	5065
Washington	2909	915	1250	557	195	83	5909	3408	857	814	359	212	90	5740
Wayne	2278	648	700	222	86	47	3981	2583	559	468	161	108	76	3955
Webster	5705	1789	2515	1192	416	72	11689	7243	1559	1634	770	559	116	11881
Winnebago	2112	430	614	332	84	31	3603	2787	433	374	224	148	35	4001
Winneshiak	4050	653	881	321	158	102	6165	4734	636	549	223	255	92	6489
Woodbury	13333	5500	7192	2511	1342	259	30137	16181	4935	4779	1897	1665	318	29775
Worth	1740	439	559	235	55	15	3043	2381	447	341	138	95	23	3425
Wright	2516	856	1208	569	179	61	5389	3482	802	799	345	233	80	5741
State of Iowa	364477	115359	154771	60512	26656	8730	730505	445906	105702	102780	40928	34368	11098	740782

Table 7. Percentage of Residents 25 or Older Completing at Least Four Years of High School by Sex in Iowa Counties, 1940-1990.

County	Females						Males						Total					
	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940
Adair	78.7	72.7	63.8	50.1	40.2	31.0	76.1	64.0	48.5	35.6	26.7	19.9	77.5	68.6	56.5	43.0	33.8	25.3
Adams	77.9	74.8	58.1	48.7	39.9	27.7	76.2	64.7	46.8	35.1	24.9	17.2	77.1	70.0	52.8	42.0	33.0	22.3
Allamakee	76.3	65.8	55.5	40.7	32.7	23.9	75.4	58.9	42.9	31.6	20.2	14.0	75.9	62.5	49.4	36.2	26.3	18.7
Appanoose	72.7	64.3	50.7	39.2	31.3	23.2	71.4	59.2	42.4	32.1	23.0	16.2	72.1	62.0	46.9	35.9	27.3	19.6
Audubon	74.1	67.6	54.5	46.0	33.1	26.6	69.0	58.5	37.8	30.0	21.3	16.0	71.7	63.4	46.5	38.2	27.3	21.1
Benton	80.2	69.6	60.5	48.0	40.7	30.5	76.0	66.7	51.1	36.8	28.3	21.1	78.2	68.2	56.0	42.5	34.6	25.6
Black Hawk	80.4	75.0	64.5	54.3	47.4	38.9	80.3	72.6	60.1	45.9	37.9	31.0	80.4	73.9	62.4	50.2	42.8	35.0
Boone	81.4	71.6	60.7	46.2	38.0	28.5	80.1	69.4	53.2	41.1	30.4	21.0	80.8	70.6	57.3	43.8	34.3	24.7
Bremer	78.4	72.7	58.7	44.6	35.7	25.7	78.6	69.8	56.4	38.5	29.7	20.0	78.5	71.4	57.6	41.6	32.7	22.8
Buchanan	80.3	74.9	64.0	50.1	37.7	32.1	76.3	65.5	51.8	38.2	24.1	20.9	78.4	70.3	58.1	44.3	31.0	26.4
Buena Vista	82.3	77.2	67.4	57.5	48.7	37.9	81.8	71.3	57.4	46.6	38.8	26.8	82.1	74.4	62.8	52.2	43.9	32.2
Butler	74.4	65.3	54.1	45.9	35.4	27.0	68.9	60.5	43.9	33.0	23.4	18.4	71.8	63.0	49.2	39.5	29.5	22.6
Calhoun	79.7	70.2	60.7	53.3	42.0	33.5	78.0	65.3	52.1	40.2	32.1	21.9	78.9	68.0	56.7	47.0	37.3	27.6
Carroll	75.5	64.7	49.8	40.5	36.3	27.1	73.5	61.5	47.0	33.3	26.7	20.4	74.6	63.2	48.5	37.1	31.6	23.7
Cass	83.0	73.1	63.1	52.0	44.3	34.6	78.0	67.6	54.7	43.0	31.9	24.1	80.7	70.6	59.2	47.6	38.3	29.3
Cedar	79.7	71.5	60.7	47.7	40.8	30.0	79.0	68.6	53.3	41.0	28.8	22.8	79.3	70.1	57.1	44.4	34.7	26.3
Cerro Gordo	82.3	73.8	63.7	53.9	47.7	39.8	80.1	70.9	59.1	44.0	37.7	28.9	81.3	72.5	61.6	49.2	42.8	34.3
Cherokee	83.0	76.2	65.5	52.8	41.8	30.4	79.4	71.9	58.4	41.7	30.2	19.5	81.3	74.2	62.2	47.4	35.9	24.8
Chickasaw	77.1	69.0	55.6	47.8	34.6	28.2	73.2	65.0	45.1	30.8	24.6	17.8	75.2	67.1	50.5	39.4	29.5	22.8
Clarke	78.9	69.2	57.7	46.7	38.9	31.6	76.2	63.9	49.0	35.5	26.2	20.0	77.6	66.7	53.6	41.3	32.4	25.8
Clay	85.1	77.6	69.2	59.7	51.1	38.9	84.5	73.1	60.7	48.2	38.2	27.2	84.8	75.5	65.3	54.1	44.9	32.9
Clayton	75.8	65.6	49.2	44.4	34.8	26.2	73.2	59.3	42.9	34.1	23.9	17.7	74.5	62.5	46.2	39.3	29.2	21.8
Clinton	78.3	73.5	62.0	49.9	42.6	30.3	76.3	67.5	54.7	41.0	31.3	21.8	77.4	70.6	58.5	45.5	37.0	26.0
Crawford	72.9	66.6	55.1	40.7	30.5	24.9	72.1	62.6	48.0	30.1	24.2	17.0	72.5	64.7	51.6	35.4	27.4	20.7
Dallas	84.5	78.1	66.3	54.3	47.2	34.8	82.6	73.0	59.4	44.9	35.1	24.6	83.6	75.7	63.1	49.8	41.4	29.6
Davis	74.7	66.5	51.9	42.1	31.6	21.9	68.7	60.4	44.3	33.9	25.5	16.2	71.9	63.7	48.3	38.1	28.6	19.1
Decatur	73.1	67.3	54.4	48.0	37.4	29.7	70.3	61.2	46.4	36.8	26.9	20.6	71.8	64.4	50.6	42.6	32.3	25.1
Delaware	80.2	68.0	58.1	47.5	38.9	33.4	76.2	63.4	49.2	34.0	28.4	23.1	78.3	65.8	53.8	40.7	33.4	28.2
Des Moines	78.3	69.1	59.7	47.8	40.2	27.0	79.6	72.6	57.9	43.0	35.1	21.3	78.9	70.7	58.8	45.6	37.7	24.3
Dickinson	84.9	75.8	66.0	54.4	47.1	38.9	83.2	73.9	55.0	45.2	37.4	25.1	84.1	74.9	60.8	49.9	42.4	31.7
Dubuque	78.7	69.0	56.2	43.6	37.2	26.7	76.7	68.1	52.7	37.8	30.6	21.5	77.7	68.6	54.6	40.8	34.0	24.2
Emmet	80.7	73.1	61.9	53.7	48.6	35.9	75.4	66.0	51.0	41.9	30.6	22.2	78.3	69.8	56.8	48.0	39.2	28.7
Fayette	77.5	70.0	59.2	50.6	42.7	32.4	75.6	65.5	51.4	40.4	29.5	22.8	76.6	67.8	55.5	45.6	36.1	27.5

Table 7. Percentage of Residents 25 or Older Completing at Least Four Years of High School by Sex in Iowa Counties, 1940-1990 (continued).

County	Females						Males						Total					
	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940
Floyd	80.5	71.1	65.6	53.3	44.0	36.2	77.3	69.7	54.7	40.6	35.2	24.6	79.0	70.4	60.4	47.2	39.5	30.3
Franklin	81.5	71.1	60.0	49.8	41.7	29.8	77.0	66.2	47.6	37.9	27.1	19.0	79.4	68.8	54.1	44.0	34.5	24.2
Fremont	81.0	72.5	61.9	54.8	44.8	36.1	73.8	65.0	54.8	43.8	31.5	26.2	77.7	69.1	58.6	49.5	38.3	31.0
Greene	83.5	73.9	61.7	54.6	48.6	37.7	78.5	68.6	56.7	44.7	33.2	24.0	81.2	71.4	59.4	49.9	41.3	30.8
Grundy	80.9	71.8	61.1	49.3	40.5	30.5	77.9	68.5	52.0	40.4	22.4	21.1	79.5	70.3	56.8	45.0	31.7	25.6
Guthrie	79.6	68.6	53.9	46.7	39.6	30.7	76.2	62.9	49.1	36.6	27.0	20.8	78.0	66.0	51.6	41.8	33.8	25.6
Hamilton	80.0	76.7	65.9	54.3	44.2	33.7	78.9	68.6	57.6	44.1	30.4	23.0	79.5	72.9	62.0	49.3	37.2	28.2
Hancock	79.6	71.8	62.0	50.6	41.7	30.7	77.1	67.9	50.0	36.8	27.9	19.1	78.4	69.9	56.3	43.7	34.9	24.6
Hardin	78.4	70.7	62.8	52.4	43.3	35.0	78.6	65.1	55.3	42.1	34.7	25.9	78.5	68.1	59.3	47.5	39.0	30.4
Harrison	77.5	72.0	56.3	48.0	37.1	30.7	74.6	66.8	46.9	33.9	26.3	19.2	76.2	69.6	51.8	41.2	31.8	24.8
Henry	80.1	72.1	60.8	47.5	41.6	31.6	78.0	68.7	56.4	40.7	34.3	24.2	79.1	70.5	58.7	44.3	37.9	27.9
Howard	74.4	64.3	54.3	39.9	34.7	26.7	71.2	55.1	41.3	28.6	20.5	17.8	72.9	59.9	48.1	34.3	27.6	22.1
Humboldt	82.6	73.8	64.9	57.3	45.8	36.5	77.1	66.5	56.7	45.7	32.8	23.7	80.0	70.3	61.0	51.6	39.2	29.8
Ida	76.3	70.6	60.1	49.5	36.5	28.6	75.4	63.1	46.4	34.0	25.0	18.9	75.9	67.1	53.6	41.9	30.5	23.6
Iowa	78.1	69.8	59.1	46.8	33.4	28.3	74.4	65.6	50.1	37.2	23.9	18.8	76.4	67.8	54.8	42.0	28.6	23.4
Jackson	73.6	64.8	54.1	39.9	33.7	25.6	70.7	59.9	44.2	31.5	21.6	17.2	72.2	62.5	49.3	35.7	27.4	21.2
Jasper	79.8	70.9	59.9	50.5	41.6	33.9	75.1	67.2	53.7	38.6	30.1	23.5	77.6	69.2	56.9	44.7	35.9	28.7
Jefferson	82.5	74.7	62.8	53.3	43.8	34.2	82.0	73.5	56.2	43.1	35.2	24.3	82.3	74.1	59.7	48.3	39.6	29.3
Johnson	91.0	85.4	77.4	64.4	56.5	47.1	90.2	85.8	75.7	58.4	53.0	37.0	90.6	85.6	76.5	61.4	54.7	42.2
Jones	80.7	70.7	60.0	51.7	38.3	30.3	76.6	64.2	50.9	38.1	26.9	18.9	78.7	67.5	55.6	44.7	32.2	24.1
Keokuk	78.4	70.3	59.3	48.8	40.3	30.6	74.9	64.2	54.6	39.9	30.5	22.9	76.8	67.4	57.1	44.5	35.7	26.7
Kossuth	79.1	70.7	63.0	51.0	40.3	31.7	79.2	64.8	52.1	38.7	25.2	20.9	79.1	67.9	57.8	44.9	32.3	26.0
Lee	76.7	67.7	56.7	45.2	37.4	26.5	78.4	69.8	53.9	38.3	30.4	19.7	77.5	68.7	55.4	41.8	33.9	23.0
Linn	84.8	77.4	68.9	56.4	47.3	39.5	85.0	77.8	66.4	50.1	40.6	31.4	84.9	77.6	67.7	53.4	44.1	35.6
Louisa	75.7	69.9	65.8	49.6	42.5	34.0	77.0	66.2	55.8	42.1	33.6	23.6	76.3	68.1	60.9	45.9	38.0	28.6
Lucas	79.9	68.2	55.5	43.5	38.8	28.6	73.8	67.0	48.6	34.7	26.7	20.2	77.1	67.7	52.3	39.2	32.9	24.4
Lyon	72.0	64.3	48.3	39.0	30.0	24.5	68.5	56.7	40.8	27.8	21.4	15.7	70.4	60.7	44.7	33.5	25.6	19.9
Madison	82.5	73.5	64.3	51.9	45.5	31.8	80.5	69.8	53.3	40.1	29.0	23.1	81.6	71.8	59.1	46.2	37.6	27.4
Mahaska	75.8	67.0	54.4	44.5	39.1	30.8	73.7	61.8	49.2	33.8	29.3	22.1	74.8	64.6	52.0	39.5	34.5	26.5
Marion	75.5	65.0	52.1	41.0	33.8	24.9	71.8	62.2	45.5	32.7	23.2	16.6	73.7	63.6	48.8	36.7	28.1	20.4
Marshall	83.7	75.7	64.9	53.2	45.2	36.2	79.8	73.5	58.1	45.3	35.2	27.3	81.8	74.7	61.6	49.4	40.3	31.7
Mills	76.0	70.2	62.4	47.4	33.5	29.3	76.2	62.2	54.9	33.6	25.4	19.2	76.1	66.4	58.8	40.6	29.5	24.2
Mitchell	79.1	71.6	60.0	52.4	42.9	31.1	72.5	65.6	47.6	37.8	29.9	20.6	76.0	68.8	54.2	45.3	36.6	25.7

Table 7. Percentage of Residents 25 or Older Completing at Least Four Years of High School by Sex in Iowa Counties, 1940-1990 (continued).

County	Females						Males						Total					
	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940
Monona	73.2	66.3	57.6	47.9	40.7	31.2	72.8	61.7	48.2	33.4	28.1	20.2	73.0	64.1	53.2	40.8	34.3	25.5
Monroe	74.5	64.5	53.3	42.6	31.9	23.1	77.0	66.1	46.2	34.4	21.4	14.8	75.6	65.2	50.0	38.5	26.7	18.8
Montgomery	81.7	69.3	59.8	51.8	45.7	37.5	77.9	68.4	53.6	42.7	34.3	26.4	80.0	68.9	56.9	47.5	40.2	32.0
Muscatine	74.5	67.0	54.0	41.2	32.5	25.4	75.4	65.7	50.7	36.0	26.6	19.2	75.0	66.4	52.4	38.7	29.8	22.3
O'Brien	75.8	66.1	56.7	44.6	35.6	30.9	70.9	62.5	48.0	36.3	29.7	21.4	73.5	64.4	52.7	40.6	32.6	26.0
Osceola	72.7	63.1	50.9	41.0	34.7	25.0	71.5	56.2	37.4	30.5	22.4	15.6	72.1	59.8	44.4	35.7	28.7	20.1
Page	78.7	72.4	60.9	50.5	43.2	35.5	77.5	65.9	52.7	39.5	32.7	25.4	78.2	69.4	57.2	45.4	38.3	30.4
Palo Alto	77.3	74.8	61.6	53.9	42.1	34.7	76.4	63.4	53.8	41.6	32.3	23.2	76.9	69.5	57.9	47.9	37.1	28.6
Plymouth	79.0	70.8	59.6	46.7	35.5	28.2	76.9	63.3	48.2	34.9	25.0	17.8	78.0	67.2	54.2	40.9	30.4	22.8
Pocahontas	81.8	71.9	65.6	54.0	46.1	35.0	78.1	66.4	53.4	42.5	29.0	23.2	80.1	69.3	59.8	48.4	37.8	28.8
Polk	85.4	78.6	69.1	58.4	51.2	43.9	85.5	79.1	66.8	52.3	44.6	36.9	85.4	78.8	68.0	55.5	48.1	40.5
Pottawattamie	77.0	68.9	56.1	48.9	39.7	32.0	77.3	67.5	51.9	40.2	31.0	23.2	77.1	68.3	54.1	44.7	35.5	27.6
Poweshiek	83.0	75.1	66.6	56.7	43.6	38.2	80.0	70.9	59.9	45.4	33.3	25.0	81.6	73.2	63.4	51.4	38.7	31.7
Ringgold	79.0	69.3	59.0	53.3	43.4	34.0	76.9	65.4	50.9	42.0	29.6	23.6	78.0	67.5	55.1	47.8	36.7	28.7
Sac	79.1	68.7	58.9	50.8	42.9	33.2	75.3	61.4	51.0	37.0	30.5	22.5	77.3	65.2	55.2	44.1	36.7	27.8
Scott	80.4	73.1	58.2	47.0	37.9	29.1	82.6	75.4	57.6	43.4	36.6	25.4	81.4	74.2	57.9	45.3	37.3	27.3
Shelby	80.3	74.2	61.4	47.3	36.2	27.2	77.6	65.4	51.6	36.5	24.5	17.3	79.0	70.0	56.7	42.0	30.7	22.1
Sioux	72.6	61.2	47.1	34.8	27.0	20.7	70.8	56.6	40.1	25.1	20.1	14.5	71.7	59.1	43.8	30.1	23.7	17.5
Story	90.8	86.0	77.4	66.4	59.7	46.8	91.2	85.2	74.9	61.6	55.6	37.0	91.0	85.6	76.2	64.1	57.6	42.0
Tama	76.6	67.6	58.2	46.5	38.8	31.6	74.9	64.9	49.1	37.3	27.0	20.8	75.8	66.3	53.9	41.9	33.1	26.0
Taylor	75.3	67.7	57.3	42.8	36.6	29.1	74.7	60.8	47.5	36.1	28.6	18.4	75.0	64.5	52.7	39.6	32.6	23.7
Union	78.9	69.3	63.8	49.1	42.9	35.7	79.0	66.7	53.1	38.8	30.3	23.1	79.0	68.1	58.8	44.2	37.0	29.5
Van Buren	76.0	68.3	56.6	47.3	36.6	29.5	73.3	63.0	48.2	36.5	27.6	21.1	74.7	65.8	52.6	42.0	32.0	25.3
Wapello	73.2	65.5	52.7	44.7	38.3	29.7	75.4	64.4	48.1	36.8	30.5	21.3	74.2	65.0	50.6	41.0	34.4	25.6
Warren	88.0	79.4	71.7	56.4	45.3	36.8	86.0	77.2	65.2	48.4	34.8	24.4	87.0	78.4	68.5	52.5	40.3	30.6
Washington	77.7	70.6	57.8	48.8	42.0	33.9	76.0	67.3	53.7	43.3	33.4	24.1	76.9	69.1	55.9	46.2	38.0	29.1
Wayne	72.0	62.6	57.9	43.4	34.6	25.3	71.3	63.6	48.8	39.0	25.2	18.6	71.7	63.1	53.6	41.3	30.1	22.0
Webster	78.6	73.1	62.8	53.6	43.9	35.3	78.1	69.4	57.3	42.7	33.4	24.9	78.4	71.4	60.2	48.4	38.8	30.1
Winnebago	80.0	71.5	60.7	48.2	37.1	28.6	77.0	65.7	50.2	39.8	27.5	18.6	78.6	68.7	55.7	44.0	32.3	23.4
Winneshiak	78.4	64.6	53.0	44.3	28.6	22.1	74.3	58.2	42.5	30.6	19.0	15.8	76.4	61.5	47.9	37.4	23.6	18.9
Woodbury	79.1	72.5	62.3	48.9	43.6	36.6	77.5	70.7	55.9	41.9	35.4	28.0	78.4	71.7	59.3	45.5	39.6	32.4
Worth	79.3	72.0	59.6	50.6	37.0	27.9	76.3	61.6	47.1	37.5	26.9	16.8	77.9	67.1	53.5	44.1	32.2	22.0
Wright	79.9	71.7	63.6	54.8	46.3	36.3	75.0	69.3	55.3	42.1	33.1	24.0	77.6	70.6	59.7	48.7	39.7	29.9
State of Iowa	80.6	72.7	61.8	50.6	42.1	33.1	79.5	70.2	55.8	41.8	32.8	24.0	80.1	71.5	59.0	46.3	37.5	28.5

Table 8. Percentage of Residents 25 or Older Completing at Least Four Years of College by Sex in Iowa Counties, 1940-1990.

County	Females						Males						Total					
	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940
Adair	9.4	6.8	7.0	2.7	1.7	2.2	10.2	11.0	6.4	2.9	3.1	2.6	9.8	8.8	6.7	2.8	2.3	2.4
Adams	9.2	7.2	5.7	3.1	1.8	2.0	9.6	12.9	6.7	4.1	3.6	2.5	9.4	9.9	6.2	3.6	2.7	2.3
Allamakee	8.8	8.8	4.4	2.7	3.5	2.3	9.1	10.1	4.5	5.6	2.7	3.2	8.9	9.4	4.5	4.1	3.1	2.8
Appanoose	9.2	7.1	5.0	2.3	2.4	2.0	14.1	11.5	5.6	4.3	2.8	2.7	11.5	9.1	5.3	3.2	2.6	2.3
Audubon	9.5	7.7	4.8	3.3	1.5	2.0	10.1	10.5	3.6	3.9	2.1	2.6	9.8	9.0	4.2	3.6	1.8	2.3
Benton	9.3	7.3	5.0	2.9	3.1	2.5	10.0	9.9	6.1	5.0	3.4	3.3	9.6	8.6	5.6	4.0	3.2	2.9
Black Hawk	14.6	12.9	8.3	6.3	5.3	4.8	20.5	18.2	12.0	8.8	6.7	5.6	17.3	15.4	10.1	7.5	5.9	5.2
Boone	12.7	10.7	5.8	4.3	2.9	2.5	14.9	13.8	6.7	5.9	4.1	3.2	13.7	12.1	6.2	5.1	3.5	2.8
Bremer	13.0	11.4	7.6	3.6	2.1	2.5	17.4	16.6	10.2	8.1	4.0	4.1	15.1	13.9	8.9	5.8	3.0	3.3
Buchanan	11.8	8.8	5.6	3.7	2.4	2.7	10.4	9.9	6.7	6.3	2.9	3.2	11.2	9.3	6.2	5.0	2.6	2.9
Buena Vista	12.7	11.8	7.1	5.4	4.8	4.2	18.0	17.8	10.6	7.6	6.2	5.2	15.2	14.6	8.7	6.5	5.5	4.7
Butler	9.4	7.0	4.3	2.2	2.5	1.9	9.4	7.5	5.0	4.4	2.8	3.0	9.4	7.2	4.6	3.3	2.6	2.5
Calhoun	11.1	9.2	7.0	3.6	3.3	2.7	12.2	10.1	7.6	5.0	3.7	3.7	11.6	9.6	7.3	4.3	3.5	3.2
Carroll	9.7	8.1	5.2	4.2	4.9	3.2	13.1	11.4	7.1	4.9	4.9	4.0	11.3	9.6	6.1	4.5	4.9	3.6
Cass	10.1	7.7	6.5	3.6	2.1	2.7	15.4	12.5	10.5	7.4	4.4	3.7	12.5	9.9	8.4	5.5	3.2	3.2
Cedar	12.2	9.9	5.8	3.2	4.4	3.0	13.3	11.4	7.9	5.7	3.8	3.5	12.8	10.6	6.8	4.4	4.1	3.2
Cerro Gordo	13.6	11.3	7.5	4.8	5.4	3.7	17.8	16.8	12.2	8.0	5.9	5.0	15.5	13.8	9.7	6.3	5.7	4.4
Cherokee	9.4	10.1	6.2	3.3	3.3	3.3	12.3	13.5	9.8	5.6	4.3	3.4	10.8	11.7	7.9	4.4	3.8	3.3
Chickasaw	10.6	6.9	3.2	3.2	3.1	2.1	9.1	10.2	5.1	5.0	2.0	3.0	9.9	8.5	4.1	4.1	2.5	2.6
Clarke	8.9	7.1	4.4	3.0	3.2	2.2	8.7	8.8	4.2	4.0	4.1	2.8	8.8	7.9	4.3	3.5	3.6	2.5
Clay	12.3	11.0	6.8	5.1	4.4	4.0	17.0	14.7	11.3	8.0	4.4	4.5	14.5	12.8	8.9	6.5	4.4	4.2
Clayton	8.7	8.4	3.8	2.5	3.1	2.3	9.3	9.2	4.1	4.2	3.2	3.2	9.0	8.8	4.0	3.3	3.1	2.7
Clinton	11.8	9.4	6.4	4.1	3.6	2.6	14.1	12.4	9.6	6.7	4.7	3.9	12.9	10.8	7.9	5.4	4.1	3.3
Crawford	9.3	7.3	5.3	2.1	1.5	2.3	10.5	9.9	6.4	3.8	2.7	2.9	9.8	8.6	5.8	2.9	2.1	2.6
Dallas	14.4	10.8	6.5	4.8	2.9	3.5	18.4	16.1	7.3	7.0	3.8	3.8	16.3	13.3	6.9	5.8	3.3	3.7
Davis	10.7	7.4	4.9	2.4	2.6	1.6	10.2	6.9	6.4	4.1	3.6	2.6	10.5	7.2	5.6	3.2	3.1	2.1
Decatur	11.8	12.1	7.5	4.7	3.0	2.2	12.8	15.8	7.9	6.6	4.0	3.0	12.3	13.8	7.7	5.7	3.4	2.6
Delaware	10.9	7.8	4.7	2.5	3.6	3.7	11.2	8.5	6.3	4.1	4.4	4.2	11.0	8.1	5.5	3.3	4.0	4.0
Des Moines	11.6	9.5	6.4	4.7	3.6	3.0	14.1	13.9	9.2	6.9	4.8	4.1	12.7	11.5	7.7	5.7	4.2	3.5
Dickinson	14.7	10.9	5.3	3.5	4.0	3.1	20.8	16.7	8.9	6.7	4.2	3.8	17.5	13.7	7.0	5.1	4.1	3.5
Dubuque	15.7	12.2	9.2	5.5	5.3	4.0	18.0	18.2	11.2	8.6	6.4	5.3	16.8	15.0	10.1	7.0	5.8	4.6
Emmet	10.6	8.5	5.6	2.8	3.9	3.2	11.5	13.3	7.5	7.2	5.1	3.6	11.0	10.8	6.5	4.9	4.5	3.4
Fayette	11.6	10.1	5.7	4.5	4.5	3.1	12.1	12.5	7.4	6.0	4.0	3.7	11.8	11.3	6.5	5.2	4.2	3.4

Table 8. Percentage of Residents 25 or Older Completing at Least Four Years of College by Sex in Iowa Counties, 1940-1990 (continued).

County	Females						Males						Total					
	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940
Floyd	10.7	9.7	6.4	4.9	3.1	3.5	13.9	13.6	8.1	6.2	5.1	4.2	12.2	11.5	7.2	5.5	4.1	3.8
Franklin	11.9	9.0	4.8	2.6	3.4	2.7	12.7	11.6	6.0	5.2	3.4	3.4	12.3	10.2	5.4	3.8	3.4	3.1
Fremont	11.5	9.8	7.4	5.0	3.4	3.5	11.0	11.2	7.4	5.4	3.4	3.9	11.3	10.5	7.4	5.2	3.4	3.7
Greene	12.3	9.4	5.7	4.1	5.3	3.4	15.3	12.5	8.6	7.0	5.0	3.8	13.7	10.8	7.0	5.5	5.1	3.6
Grundy	11.4	8.2	5.9	3.6	2.6	3.0	13.3	11.9	7.3	4.3	2.8	3.1	12.3	10.0	6.6	3.9	2.7	3.1
Guthrie	8.8	6.1	3.3	2.7	2.8	2.8	11.1	8.5	5.9	4.0	2.5	3.3	9.9	7.2	4.5	3.3	2.7	3.0
Hamilton	10.1	9.4	6.2	4.0	3.4	3.1	15.8	13.3	8.5	6.7	3.4	3.8	12.8	11.2	7.3	5.3	3.4	3.4
Hancock	10.0	7.5	4.2	2.0	2.1	2.6	10.6	11.1	5.7	5.1	4.9	3.2	10.3	9.2	4.9	3.5	3.5	2.9
Hardin	11.1	8.4	6.5	4.3	5.5	4.4	14.0	14.0	9.1	6.8	5.7	4.7	12.4	11.0	7.7	5.5	5.6	4.6
Harrison	7.9	7.2	3.6	2.4	2.7	2.5	10.5	9.3	5.1	4.0	2.7	3.1	9.1	8.2	4.3	3.2	2.7	2.8
Henry	14.3	10.9	10.0	6.1	5.5	4.5	14.7	14.3	11.2	7.1	6.1	4.4	14.5	12.5	10.6	6.6	5.8	4.5
Howard	8.0	6.0	2.3	4.3	3.7	2.7	8.5	9.6	3.4	5.2	2.4	3.3	8.2	7.7	2.8	4.7	3.0	3.0
Humboldt	11.3	8.3	5.7	3.3	3.5	3.6	11.9	11.1	9.1	7.3	3.2	3.6	11.6	9.6	7.3	5.3	3.3	3.6
Ida	9.5	10.6	6.4	2.3	3.9	3.2	12.7	11.1	5.1	5.2	3.6	3.6	11.0	10.8	5.8	3.8	3.8	3.4
Iowa	10.1	7.3	5.0	3.1	2.6	2.1	12.3	12.0	6.5	5.6	3.7	3.3	11.1	9.5	5.7	4.3	3.2	2.7
Jackson	8.7	6.6	5.0	2.3	2.7	1.7	11.5	10.7	4.6	3.7	3.6	2.9	10.0	8.5	4.8	3.0	3.2	2.3
Jasper	10.6	8.2	5.8	3.2	3.5	3.3	15.1	11.6	8.8	6.1	5.1	3.8	12.7	9.8	7.2	4.6	4.3	3.5
Jefferson	23.4	16.0	10.3	7.5	6.4	4.8	29.8	21.3	10.6	8.7	6.6	4.9	26.5	18.5	10.4	8.1	6.5	4.8
Johnson	41.1	33.3	25.2	17.3	15.4	11.9	47.0	44.1	36.7	26.1	22.1	14.0	44.0	38.6	30.8	21.8	18.8	12.9
Jones	11.1	8.6	5.7	3.1	3.7	2.8	10.1	10.3	7.1	4.5	3.2	3.2	10.6	9.4	6.4	3.8	3.4	3.0
Keokuk	10.3	6.7	5.8	3.3	2.6	2.7	8.3	7.9	6.1	4.3	2.6	3.4	9.4	7.3	6.0	3.8	2.6	3.0
Kossuth	11.3	7.4	5.1	3.6	4.5	3.3	12.4	9.9	7.3	5.8	4.3	3.8	11.8	8.6	6.2	4.7	4.4	3.6
Lee	9.5	7.0	6.0	4.4	3.2	2.3	12.1	12.1	8.4	6.2	4.5	3.2	10.7	9.5	7.1	5.3	3.9	2.8
Linn	17.9	13.0	9.2	7.1	6.2	5.4	25.6	20.7	14.8	11.8	8.0	6.8	21.5	16.7	11.9	9.4	7.0	6.1
Louisa	8.8	8.6	5.9	3.6	3.2	3.1	9.7	8.4	8.4	5.4	3.3	3.6	9.2	8.5	7.1	4.5	3.2	3.3
Lucas	8.2	6.6	4.3	4.0	3.2	2.2	11.0	9.2	5.3	5.6	3.2	3.0	9.5	7.8	4.8	4.8	3.2	2.6
Lyon	9.5	7.9	5.5	2.1	2.3	2.2	11.0	10.8	6.8	4.9	3.6	3.3	10.2	9.3	6.1	3.5	3.0	2.8
Madison	10.9	6.9	4.9	3.4	1.5	2.4	13.3	10.4	4.6	4.6	2.3	3.1	12.0	8.5	4.8	4.0	1.9	2.7
Mahaska	11.5	9.9	6.5	4.4	4.2	3.9	14.9	12.4	8.2	5.9	4.3	4.5	13.1	11.0	7.3	5.1	4.2	4.2
Marion	11.5	8.7	5.6	5.1	3.5	3.2	14.4	12.4	8.5	6.5	3.0	3.3	12.9	10.5	7.1	5.8	3.2	3.2
Marshall	15.0	12.4	6.4	4.3	3.9	3.4	16.6	16.3	10.4	7.3	5.8	4.8	15.8	14.2	8.3	5.7	4.9	4.1
Mills	11.8	8.2	5.9	4.3	2.5	2.7	13.6	12.3	6.2	4.7	2.3	3.3	12.6	10.2	6.0	4.5	2.4	3.0
Mitchell	10.9	7.7	5.9	3.4	4.0	3.0	11.2	9.4	5.7	5.1	3.2	3.2	11.1	8.5	5.8	4.3	3.6	3.1

Table 8. Percentage of Residents 25 or Older Completing at Least Four Years of College by Sex in Iowa Counties, 1940-1990 (continued).

County	Females						Males						Total					
	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940	1990	1980	1970	1960	1950	1940
Monona	8.0	7.1	4.9	3.7	3.9	2.8	13.0	9.3	6.8	4.4	4.0	3.1	10.3	8.2	5.8	4.0	3.9	3.0
Monroe	7.9	4.8	5.6	3.1	3.3	2.0	8.1	8.5	5.1	3.2	2.4	2.3	8.0	6.5	5.4	3.2	2.8	2.2
Montgomery	11.5	8.3	5.0	5.0	3.1	3.5	14.2	12.9	8.3	5.4	4.3	4.1	12.8	10.4	6.5	5.2	3.7	3.8
Muscatine	11.6	9.2	6.6	3.8	3.5	2.6	14.5	14.7	10.8	7.6	4.0	3.8	13.0	11.8	8.6	5.6	3.8	3.2
O'Brien	10.7	9.6	6.5	4.2	3.6	2.8	14.9	14.1	7.6	5.4	4.0	3.9	12.6	11.7	7.0	4.8	3.8	3.4
Osceola	9.5	6.1	3.2	2.0	2.1	2.5	10.5	11.1	3.9	4.2	3.6	3.0	10.0	8.5	3.5	3.1	2.8	2.8
Page	11.9	9.2	7.0	5.0	5.0	3.9	15.4	12.6	8.4	6.8	5.0	4.2	13.5	10.8	7.6	5.9	5.0	4.1
Palo Alto	12.4	8.5	5.9	4.8	2.7	3.2	13.3	14.6	7.3	6.2	4.6	3.9	12.8	11.4	6.6	5.5	3.7	3.6
Plymouth	12.5	10.3	7.3	4.2	3.2	3.4	17.9	13.7	9.3	6.2	4.7	3.9	15.0	11.9	8.2	5.2	3.9	3.6
Pocahontas	11.6	8.4	5.8	4.1	4.6	3.1	14.2	11.1	7.6	5.1	3.8	3.6	12.8	9.7	6.6	4.6	4.2	3.4
Polk	20.2	14.9	9.7	6.9	6.2	5.5	28.1	24.2	16.4	12.6	10.1	8.2	23.9	19.2	12.8	9.5	8.0	6.8
Pottawattamie	10.2	7.3	5.1	3.2	3.0	2.7	11.9	11.4	6.1	5.3	4.1	3.8	11.0	9.2	5.5	4.2	3.5	3.2
Poweshiek	14.2	13.5	10.9	6.6	6.7	5.2	18.5	16.2	12.9	8.5	5.5	5.5	16.2	14.8	11.8	7.5	6.1	5.3
Ringgold	10.2	7.4	4.2	3.6	2.0	2.4	10.3	9.5	4.4	3.1	4.1	2.6	10.3	8.4	4.3	3.4	3.0	2.5
Sec	12.4	9.7	5.9	4.0	5.6	3.0	13.1	11.5	8.0	4.8	4.5	3.9	12.7	10.6	6.9	4.4	5.0	3.5
Scott	18.3	13.2	7.5	5.0	4.8	3.4	25.8	24.0	14.2	10.2	7.5	5.7	21.9	18.4	10.7	7.5	6.1	4.6
Shelby	12.2	8.9	4.6	3.7	3.2	2.4	13.4	10.3	7.6	3.8	3.9	2.8	12.8	9.6	6.1	3.7	3.5	2.6
Sioux	12.8	10.5	5.6	2.4	3.0	1.9	16.3	13.7	8.7	5.2	3.7	3.6	14.4	12.0	7.1	3.8	3.3	2.8
Story	32.6	27.0	21.0	13.6	13.2	9.9	44.5	41.2	35.6	25.4	20.5	13.8	38.4	33.9	28.0	19.4	16.9	11.9
Tama	10.3	8.9	3.6	2.8	3.3	2.9	12.3	11.4	5.5	4.7	3.1	3.4	11.2	10.1	4.5	3.8	3.2	3.1
Taylor	8.3	6.6	4.9	2.5	2.2	2.7	9.1	7.8	5.8	3.4	3.3	2.4	8.7	7.1	5.3	2.9	2.7	2.5
Union	12.3	8.1	6.4	3.4	2.6	3.1	13.3	10.5	6.0	3.8	4.0	3.6	12.8	9.2	6.2	3.6	3.2	3.4
Van Buren	9.8	7.0	4.7	3.5	2.1	2.7	9.4	10.0	6.3	5.3	4.0	2.9	9.6	8.4	5.4	4.4	3.1	2.8
Wapello	10.1	7.9	4.9	4.6	3.9	3.3	12.0	12.2	6.9	5.8	4.3	3.7	11.0	9.9	5.8	5.2	4.1	3.5
Warren	14.2	10.1	8.0	6.4	4.9	4.6	18.3	18.1	10.2	8.1	5.3	4.1	16.2	13.9	9.1	7.2	5.1	4.3
Washington	10.6	10.2	7.0	4.7	4.2	3.3	12.9	13.6	7.4	6.4	4.6	3.7	11.7	11.8	7.2	5.5	4.4	3.5
Wayne	7.4	7.1	4.5	3.6	2.0	2.2	9.5	8.6	5.6	4.6	2.0	2.7	8.4	7.8	5.0	4.1	2.0	2.4
Webster	11.7	10.8	6.8	4.7	4.2	3.6	16.2	14.6	10.0	7.3	5.5	4.7	13.7	12.6	8.3	5.9	4.8	4.1
Winnebago	11.5	8.7	5.9	3.9	2.7	2.3	16.9	12.7	9.5	6.8	4.6	3.7	14.0	10.6	7.7	5.4	3.6	3.1
Winneshiek	16.1	12.4	6.5	4.2	2.9	2.6	18.2	14.2	11.2	6.4	3.5	3.9	17.1	13.3	8.8	5.3	3.2	3.3
Woodbury	15.1	11.8	8.0	5.9	5.4	4.5	18.4	18.4	12.0	8.5	6.1	5.6	16.7	14.9	9.9	7.1	5.7	5.0
Worth	9.9	6.9	4.6	3.8	2.7	1.8	12.1	9.8	5.4	4.7	3.3	2.8	10.9	8.2	5.0	4.3	3.0	2.3
Wright	10.0	8.5	6.1	4.7	3.8	3.3	12.9	12.2	7.3	5.5	3.8	4.1	11.3	10.2	6.7	5.1	3.8	3.7
State of Iowa	14.9	11.4	7.5	5.0	4.4	3.6	19.1	16.8	10.9	7.9	5.7	4.6	16.9	13.9	9.1	6.4	5.0	4.1

Thus, females were more likely than males to have completed at least four years of high school but less likely to have finished college or continued for additional training after college. Males reduced the gap with females in the percentage completing four years of high school or more education to a small difference during the last half century. But females were not successful in lowering the difference with males on the percentage completing four or more years of college, a gap that widened during much of the last half century.

County Data

Numbers and percentages completing selected levels of education vary substantially across counties (Tables 1-8). Johnson and Story report substantially higher levels of education completed than other counties, in part because they are the sites of large universities. Urban counties tend to have higher levels of education completed than counties with more rural populations. In 1990, for example, three of the four counties other than Johnson and Story with more than 20% of residents obtaining at least four years of college were urban (Linn, Polk, Scott); Jefferson also had a relatively large percentage, again probably because it is the location of an educational institution. Twenty counties had less than 10% of their residents 25 and older completing four or more years of college; most have relatively high proportions of rural residents (Figure 3).

Regarding those completing at least a high school education, county percentages ranged from 70.4% to 91.0% in 1990. Twenty-three reported that at least four of every five residents 25 years or age or older had completed high school or additional years of education; 20 others had less than three of every four residents with that amount of schooling (Figure 4).

The gap between females and males completing at least four years of high school in 1990 was 1.1 points, with the percentage slightly higher for females than males. Eight-three counties also had higher percentages of females than males completing four years of high school or additional education. The difference was at least five points in 10 counties (Audubon, Butler, Cass, Davis, Emmet, Fremont, Greene, Humboldt, Lucas, Mitchell), with the greatest discrepancy in Fremont, where 81.0% of the females had completed high school or additional training compared with 73.8% of the males. The remaining 16 counties had higher percentages of males than females completing at least four years of education; in only three counties was the difference at least two points (Monroe, Scott, Wapello).

For the state in 1990, a higher percentage of males (19.1%) than females (14.9%) completed at least four years of college; thus, the difference was 4.2 percentage points. All but nine counties reported a gap in this direction; in 14 of these 90 counties, male percentages exceeded those for females by at least five points, although only one (Story, 11.9) was greater than eight points. The next highest differences occurred in Linn (7.7), Polk (7.9), and Scott (7.5). In the eight counties with higher percentages of females than males completing at least four years of college, the gap never exceeded 2.0 points. Only Butler had identical percentages of females and males completing four or more years of college in 1990.

Note: Questions on education were included on the census bureau's long form, which was completed in a sample of housing units. In 1990, that sample was based on one of every two housing units in incorporated places with fewer than 2,500 residents; in other areas (incorporated places with at least 2,500 residents and open country areas of all Iowa counties) one of every six housing units was sampled. In densely settled urban areas, the rate was raised to 1-in-8 housing units. For persons living in group quarters, the sampling unit was the person; persons in group quarters were sampled at a 1-in-6 rate. In general, the sampling rate selected about one of every six housing units or persons in group quarters in Iowa. The results were weighted to represent the total population of counties and the state. Information on education levels completed by residents as of 1990 is available for all incorporated places in Iowa. These data are reported on page 1 of computer-generated reports entitled "1990 Census of Population and Housing, Summary Tape File 3A, Name of Place." They are available for all incorporated places in a county at the county's Extension office. Contact the authors of this county data book (phone number on the inside front cover) for more information if data are required for large numbers of incorporated places.

Figure 1. Percentages of females and males 25 years of age and older in Iowa completing at least four years of high school, 1940-1990.

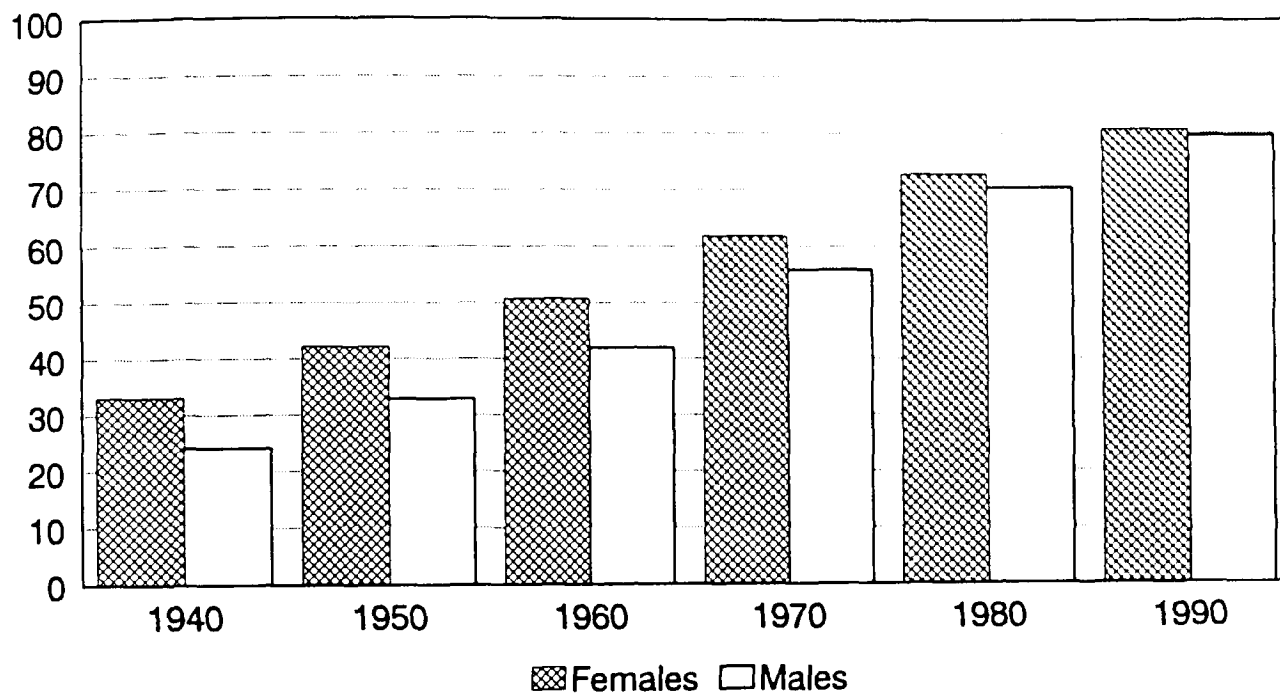


Figure 2. Percentages of females and males 25 years of age and older in Iowa completing at least four years of college, 1940-1990.

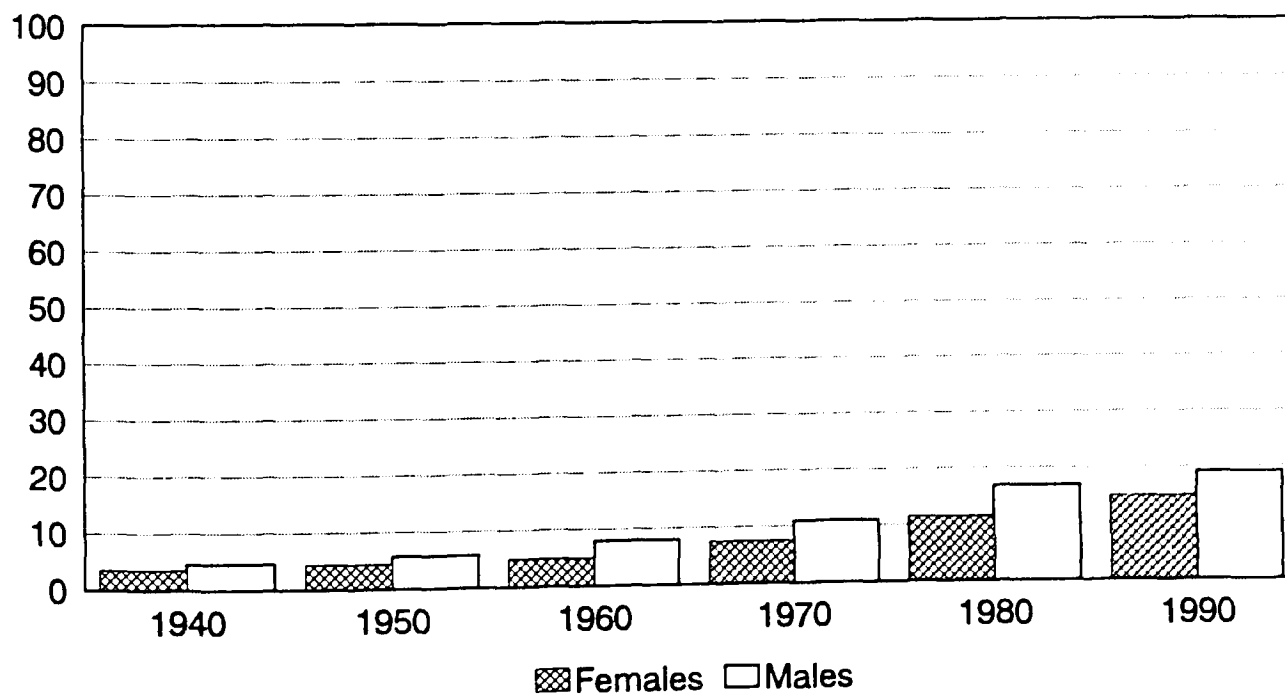


Figure 3. Percentage 25 years of age and older completing 4+ years of college, 1990.

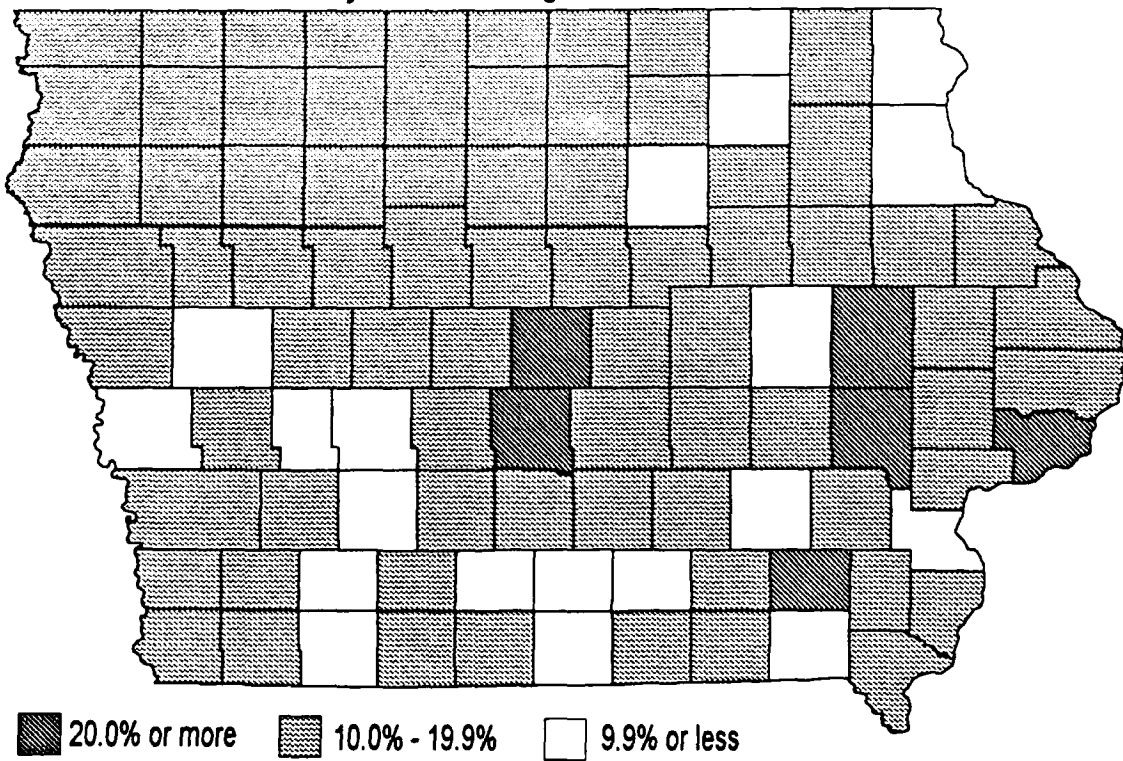
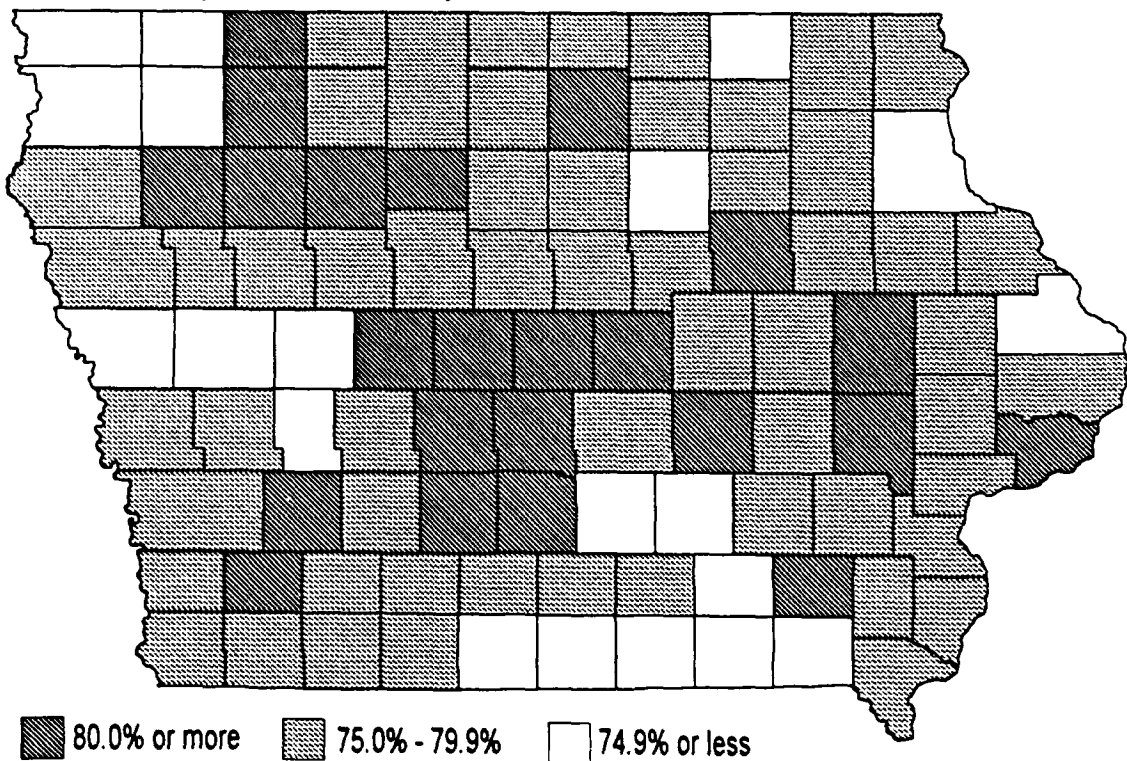


Figure 4. Percentage 25 years of age and older completing high school or more years of education, 1990.



General Occupational Categories for Females and Males in Iowa's Counties: 1940-1990

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The decennial censuses include questions on the occupation of employed persons. Because of significant societal changes in technology, transportation, and life styles, the occupational classification has undergone revision from time to time, adding new occupations (for example, air-traffic controller, computer operator, x-ray technologist) and dropping others (for example, horse team driver, button maker). The occupational classification used in 1990 was very similar to that used in 1980, which allows comparisons across the most recent decade. The 1980 classification was significantly revised from that used in 1970 and earlier, however, thus limiting exact comparisons of 1980 and 1990 with previous decades.

The State

For 1990, the U.S. Bureau of the Census classified occupations into six general categories (Tables 1, 7). Of Iowa's more than 1.3 million employed persons, nearly 394,000 (29.4%) were in technical, sales, or administrative support occupations. Another 299,000 (22.3%) worked as managers and professionals while 217,000 (16.2%) were employed as operators, fabricators, and laborers. These three groups accounted for more than two-thirds of employed Iowans. Nearly 15 percent (14.6%; 195,000) were in service jobs, and another tenth (10.5%; 141,000) worked in precision production, craft, or repair occupations. Although Iowa is considered to be a farm state, fewer than 94,000 (7.0%) worked in farming, forestry, or fishing.

Employed persons in Iowa increased 2.7% between 1980 and 1990 (Table 13). Decade changes varied widely across the six job categories. The most dramatic difference was the 25% decline in farming, forestry, and fishing. There were 32,000 fewer persons in that group in 1990 than in 1980. Precision production, craft, and repair workers and operators, fabricators, and laborers also decreased through the decade, but each dropped by less than 9%. The three remaining job types increased across the period; managers and professionals gained the most in percentage terms (14.6%), although those in technical, sales, and administrative support occupations had the largest numerical gain (45,000).

Although only rough comparisons can be made with earlier decades, the decline in the number of persons in farming has been prevalent during the entire post-World War II era (Tables 2-6, 8-12). In 1940, the number of persons (305,000) in the farm-based category was more than double that of any other group and constituted 35% of employed Iowans. Decreases occurred with every census since, several of them quite substantial. The 1990 census was the first in which fewer than 100,000 were employed in farming, forestry, or fishing.

Since 1940, there have been substantial increases in white-collar occupations in Iowa. These are the jobs included at each census in the general categories that include the following classifications: managers, professionals, technicians, salespersons, and administrative support/clerical personnel. Taken together, the two groups including these occupations grew at each census from 258,000 (30%) employed Iowans in 1940 to 693,000 (52%) in 1990.

Service workers increased at each census between 1940 and 1990, but the other two general categories of blue-collar occupations, which include those in precision production and crafts, repairers, operators, fabricators, and laborers, had at least one decade of decline. In 1940, these three blue-collar groups together constituted 34% (291,000) of employed Iowans; by 1990 they had increased to 41%

Table 1. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1990.

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
Adair	3847	1650	2197	630	357	273	873	595	278	476	375	101	807	79	728	344	27	317	717	217	500
Adams	2314	1001	1313	347	169	178	550	412	138	339	251	88	477	50	427	171	19	152	430	100	330
Allamakee	6500	2941	3559	963	538	425	1267	838	429	971	783	188	1259	206	1053	786	97	689	1254	479	775
Appanoose	5657	2554	3103	1092	555	537	1416	963	453	910	632	278	473	21	452	586	32	554	1180	351	829
Audubon	3391	1508	1883	532	276	256	823	559	264	589	462	127	727	89	638	241	27	214	479	95	384
Benton	10265	4644	5621	1664	932	732	2561	1683	878	1474	1083	391	1221	140	1081	1385	232	1153	1960	574	1386
Black Hawk	56595	26894	29701	13155	6600	6555	17626	11644	5982	9575	6167	3408	1262	245	1017	6238	517	5721	8739	1721	7018
Boone	11815	5584	6231	2193	1185	1008	3285	2253	1032	1996	1408	588	797	148	649	1442	62	1380	2102	528	1574
Bremer	10809	4813	5996	2364	1265	1099	2715	1750	965	1643	1163	480	957	164	793	1303	53	1250	1827	418	1409
Buchanan	8746	3798	4948	1562	852	710	2025	1471	554	1310	957	353	1189	171	1018	1203	106	1097	1457	241	1216
Buena Vista	9575	4144	5431	1917	942	975	2455	1611	844	1406	1001	405	1019	99	920	1359	198	1161	1419	293	1126
Butler	6902	2992	3910	1091	546	545	1531	1074	457	1015	825	190	1280	167	1113	756	55	701	1229	325	904
Calhoun	4764	2164	2600	917	483	434	1120	717	403	855	687	168	727	83	644	476	46	430	669	148	521
Carroll	9818	4460	5358	1801	960	841	2673	1713	960	1520	1206	314	1307	102	1205	1025	137	888	1492	342	1150
Cass	6845	3140	3705	1374	664	710	1898	1271	627	967	768	199	900	107	793	738	44	694	968	286	682
Cedar	8510	3832	4678	1456	807	649	2274	1500	774	1047	750	297	1095	172	923	912	134	778	1726	469	1257
Cerro Gordo	22847	11065	11782	5195	2672	2523	6821	4349	2472	3731	2496	1235	865	132	733	2133	319	1814	4102	1097	3005
Cherokee	6374	2830	3544	1014	525	489	1512	1059	453	1001	738	263	876	77	799	723	82	641	1248	349	899
Chickasaw	6100	2688	3412	929	460	469	1295	875	420	900	702	198	903	135	768	722	76	646	1351	440	911
Clarke	3839	1800	2039	659	389	270	911	547	364	570	422	148	429	42	387	479	97	382	791	303	488
Clay	8506	3907	4599	1700	937	763	2480	1646	834	1032	726	306	799	126	673	948	95	853	1547	377	1170
Clayton	8566	3726	4840	1237	671	566	1659	1134	525	979	817	162	1899	366	1533	1046	187	859	1746	551	1195
Clinton	23025	10206	12819	4151	2073	2078	6556	4593	1963	3290	2109	1181	1186	151	1035	2878	204	2674	4964	1076	3888
Crawford	7732	3272	4460	1313	694	619	1883	1289	594	1143	854	289	1103	123	980	887	96	791	1403	216	1187
Dallas	14965	6969	7996	3124	1701	1423	4977	3143	1834	2257	1582	675	1006	100	906	1553	95	1458	2048	348	1700
Davis	3591	1546	2045	580	303	277	749	537	212	468	403	65	634	117	517	365	61	304	795	125	670
Decatur	3680	1675	2005	746	379	367	802	480	322	600	451	149	492	61	431	328	53	275	712	251	461
Delaware	8158	3518	4640	1163	575	588	1816	1195	621	1054	829	225	1613	313	1300	1020	183	837	1492	423	1069
Des Moines	20136	9380	10756	4343	2297	2046	5299	3534	1765	2873	1761	1112	507	48	459	2789	460	2329	4325	1280	3045
Dickinson	7049	3229	3820	1609	764	845	1900	1229	671	938	648	290	598	70	528	799	99	700	1205	419	786
Dubuque	42025	19619	22406	9480	4737	4743	11895	8046	3849	6830	4428	2402	2327	429	1898	4428	320	4108	7065	1659	5406
Emmet	5084	2282	2802	945	511	434	1368	931	437	851	610	241	534	76	458	529	26	503	857	128	729
Fayette	9631	4146	5485	1692	848	844	2199	1413	786	1300	1002	298	1809	269	1540	1027	155	872	1604	459	1145
Floyd	7886	3593	4293	1505	756	749	1963	1284	679	1356	1056	300	905	99	806	727	80	647	1430	318	1112
Franklin	5204	2333	2871	972	543	429	1156	810	346	771	569	202	988	192	796	440	37	403	877	182	695

Table 1. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1990 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
Fremont	3555	1595	1960	628	415	213	831	588	243	505	385	120	578	42	536	438	44	394	575	121	454
Greene	4551	2070	2481	945	534	411	1057	722	335	664	511	153	749	104	645	450	42	408	686	157	529
Grundy	5420	2350	3070	1050	548	502	1266	845	421	792	629	163	849	72	777	568	39	529	895	217	678
Guthrie	4933	2198	2735	877	490	387	1332	917	415	685	527	158	579	63	516	645	78	567	815	123	692
Hamilton	7715	3499	4216	1336	671	665	2001	1406	595	1082	745	337	961	71	890	863	131	732	1472	475	997
Hancock	5777	2542	3235	1018	518	500	1281	872	409	883	664	219	957	114	843	618	83	535	1020	291	729
Hardin	8505	3831	4674	1771	871	900	2237	1381	856	1203	944	259	972	148	824	886	88	798	1436	399	1037
Harrison	6680	3086	3594	1117	652	465	1757	1220	537	1092	826	266	797	54	743	748	61	687	1169	273	896
Henry	9134	4216	4918	1675	821	854	2266	1553	713	1509	1053	456	681	77	604	1069	106	963	1934	606	1328
Howard	4296	1820	2476	695	347	348	736	495	241	651	528	123	967	187	780	406	37	369	841	226	615
Humboldt	4616	1962	2654	831	459	372	1287	787	500	565	449	116	539	62	477	549	41	508	845	164	681
Ida	3682	1577	2105	655	359	296	874	573	301	472	406	66	752	116	636	402	31	371	527	92	435
Iowa	7463	3445	4018	1294	702	592	1677	1117	560	1227	926	301	991	156	835	911	192	719	1363	352	1011
Jackson	9030	4059	4971	1451	762	689	1969	1346	623	1235	922	313	1135	157	978	1301	263	1038	1939	609	1330
Jasper	16785	7605	9180	3050	1574	1476	4700	3277	1423	2247	1634	613	1197	152	1045	2308	229	2079	3283	739	2544
Jefferson	7949	3483	4466	2205	1022	1183	2226	1274	952	950	676	274	529	60	469	941	124	817	1098	327	771
Johnson	54591	26371	28220	18920	9050	9870	17139	10492	6647	9031	5072	3959	1437	213	1224	3437	430	3007	4627	1114	3513
Jones	8678	3836	4842	1397	777	620	1940	1299	641	1230	859	371	1396	218	1178	1055	187	868	1660	496	1164
Keokuk	4930	2136	2794	769	482	287	1043	675	368	707	541	166	857	83	774	603	98	505	951	257	694
Kossuth	8153	3541	4612	1448	804	644	1855	1254	601	1146	930	216	1591	168	1423	762	60	702	1351	325	1026
Lee	17072	7749	9323	3001	1525	1476	4180	2826	1354	2693	1731	962	781	92	689	2105	239	1866	4312	1336	2976
Linn	87606	41300	46306	23474	10732	12742	29347	18131	11216	11388	7289	4099	1556	293	1263	9433	1448	7985	12408	3407	9001
Louisa	5382	2207	3175	778	395	383	1039	697	342	793	592	201	559	48	511	792	105	687	1421	370	1051
Lucas	3941	1781	2160	602	304	298	1020	688	332	526	415	111	485	94	391	345	29	316	963	251	712
Lyon	5356	2308	3048	877	425	452	1086	779	307	722	605	117	1119	107	1012	512	42	470	1040	350	690
Madison	5945	2724	3221	1149	645	504	1710	1178	532	783	588	195	639	74	565	799	93	706	865	146	719
Mahaska	9896	4317	5579	1860	958	902	2350	1578	772	1484	1014	470	1094	201	893	1005	68	937	2103	498	1605
Marion	14449	6800	7649	3043	1663	1380	3711	2545	1166	2324	1558	766	793	70	723	1426	132	1294	3152	832	2320
Marshall	18622	8554	10068	4159	2041	2118	5227	3421	1806	3002	2094	908	937	144	793	2191	246	1945	3106	608	2498
Mills	6037	2853	3184	1226	727	499	1518	985	533	1330	878	452	493	55	438	686	40	646	784	168	616
Mitchell	4877	2163	2714	785	449	336	1070	687	383	600	522	78	749	103	646	531	71	460	1142	331	811
Monona	4193	1859	2334	784	387	397	1014	722	292	673	538	135	737	71	666	443	43	400	542	98	444
Monroe	3366	1471	1895	496	230	266	792	590	202	500	345	155	406	58	348	419	39	380	753	209	544
Montgomery	5682	2579	3103	1035	546	489	1559	1025	534	732	531	201	579	30	549	602	118	484	1175	329	846
Muscatine	19093	8415	10678	3440	1579	1861	4657	3182	1475	2893	2033	860	748	104	644	2449	254	2195	4906	1263	3643

Table 1. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1990 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
O'Brien	6953	3052	3901	1418	698	720	1617	1011	606	1083	843	240	1013	147	866	720	47	673	1102	306	796
Osceola	3327	1397	1930	559	290	269	647	466	181	415	311	104	655	59	596	311	30	281	740	241	499
Page	7658	3441	4217	1450	688	762	1971	1330	641	1179	841	338	861	113	748	837	71	766	1360	398	962
Palo Alto	4609	2014	2595	809	468	341	964	610	354	817	595	222	761	80	681	465	78	387	793	183	610
Plymouth	10990	4754	6236	2048	1068	980	2821	1808	1013	1562	1078	484	1565	155	1410	1113	151	962	1881	494	1387
Pocahontas	4153	1804	2349	771	422	349	951	633	318	582	485	97	773	99	674	388	27	361	688	138	550
Polk	176499	86760	89739	48909	24397	24512	68654	43566	25088	22231	13322	8909	1700	269	1431	14403	1253	13150	20602	3953	16649
Pottawattamie	40343	19257	21086	7584	4129	3455	13719	9238	4481	5561	3519	2042	1560	248	1312	4708	430	4278	7211	1693	5518
Poweshiek	9299	4313	4986	1962	942	1020	2538	1740	798	1355	945	410	897	171	726	1004	49	955	1543	466	1077
Ringgold	2374	1019	1355	412	249	163	480	324	156	352	289	63	523	39	484	241	25	216	366	93	273
Sac	5452	2353	3099	921	530	391	1164	794	370	809	644	165	1055	102	953	592	77	515	911	206	705
Scott	72497	33999	38498	18888	9458	9430	23500	14662	8838	10030	6351	3679	1059	176	883	7840	865	6975	11180	2487	8693
Shelby	5972	2668	3304	1065	599	466	1578	1097	481	896	727	169	1073	96	977	570	53	517	790	96	694
Sioux	14668	6559	8109	2775	1409	1366	3717	2400	1317	2184	1698	486	2073	207	1866	1472	159	1313	2447	686	1761
Story	39384	17617	21767	13040	5551	7489	12508	7516	4992	5736	3331	2405	1498	138	1360	2691	260	2431	3911	821	3090
Tama	7694	3439	4255	1251	715	536	1759	1284	475	1206	947	259	1051	139	912	962	82	880	1465	272	1193
Taylor	2952	1231	1721	406	246	160	617	396	221	411	313	98	581	60	521	319	35	284	618	181	437
Union	5655	2548	3107	1087	543	544	1362	891	471	796	474	322	436	63	373	650	130	520	1324	447	877
Van Buren	3406	1421	1985	568	335	233	652	441	211	414	323	91	539	72	467	494	50	444	739	200	539
Wapello	15340	7033	8307	2887	1558	1329	4233	2712	1521	2534	1819	715	579	132	447	1881	148	1733	3226	664	2562
Warren	19042	9018	10024	4107	2169	1938	7036	4676	2360	2484	1490	994	860	136	724	2075	133	1942	2480	414	2066
Washington	9612	4434	5178	1549	870	679	2499	1582	917	1666	1237	429	1047	122	925	1042	100	942	1809	523	1286
Wayne	3014	1357	1657	479	294	185	653	469	184	427	332	95	566	78	488	277	30	247	612	154	458
Webster	18044	8307	9737	3817	1939	1878	5130	3308	1822	2985	2032	953	910	87	823	2042	183	1859	3160	758	2402
Winnebago	5596	2510	3086	1241	599	642	1279	852	427	824	559	265	597	47	550	550	74	476	1105	379	726
Winneshiek	10489	4840	5649	1985	936	1049	2398	1536	862	1833	1378	455	1797	340	1457	1013	251	762	1463	399	1064
Woodbury	46324	21454	24870	10344	5380	4964	14689	9211	5478	7139	4529	2610	1315	101	1214	5712	732	4980	7125	1501	5624
Worth	3622	1639	1983	518	287	231	904	607	297	497	424	73	525	46	479	391	66	325	787	209	578
Wright	6563	2978	3585	1150	616	534	1728	1181	547	813	655	158	752	66	686	656	75	581	1464	385	1079
State of Iowa	1340242	619421	720821	299256	150815	148441	393855	255616	138239	195177	132172	63005	93780	12418	81362	140903	15506	125397	217271	52894	164377

Table 2. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1980.

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
Adair	3993	1498	2495	548	264	284	752	546	206	514	407	107	1165	150	1015	407	24	383	607	107	500
Adams	2639	1120	1519	551	277	274	549	370	179	265	220	45	686	136	550	221	16	205	367	101	266
Allamakee	6274	2591	3683	1060	474	586	1008	661	347	834	666	168	1694	338	1356	719	53	666	959	399	560
Appanoose	5600	2356	3244	1000	425	575	1323	835	488	883	659	224	680	119	561	744	47	697	970	271	699
Audubon	3631	1370	2261	533	231	302	734	531	203	521	413	108	1010	78	932	331	45	286	502	72	430
Benton	10236	4050	6186	1335	555	780	2099	1379	720	1404	1153	251	1695	216	1479	1345	141	1204	2358	606	1752
Black Hawk	62408	26133	36275	12707	5476	7231	17377	11601	5776	8979	5992	2987	1454	312	1142	8558	676	7882	13333	2076	11257
Boone	11379	4850	6529	2012	907	1105	2818	1895	923	1813	1270	543	1192	146	1046	1313	99	1214	2231	533	1698
Bremer	10611	4117	6494	1902	744	1158	2616	1788	828	1459	1088	371	1197	198	999	1308	87	1221	2129	212	1917
Buchanan	9104	3396	5708	1287	595	692	1814	1182	632	1233	991	242	1538	287	1251	1162	47	1115	2070	294	1776
Buena Vista	9281	3735	5546	1742	693	1049	2285	1475	810	1385	1016	369	1509	198	1311	1049	89	960	1311	264	1047
Butler	7158	2671	4487	1002	432	570	1401	998	403	870	735	135	1564	299	1265	911	41	870	1410	166	1244
Calhoun	5262	1981	3281	895	388	507	1117	739	378	759	610	149	1174	58	1116	561	54	507	756	132	624
Carroll	10007	4067	5940	1661	707	954	2290	1565	725	1416	1089	327	1784	143	1641	1178	54	1124	1678	509	1169
Cass	7434	3137	4297	1325	578	747	1927	1256	671	1195	950	245	1202	149	1053	757	34	723	1028	170	858
Cedar	8318	3266	5052	1479	649	830	1627	1142	485	1038	794	244	1539	216	1323	1120	118	1002	1515	347	1168
Cerro Gordo	22092	9894	12198	4843	2023	2820	6235	4214	2021	3227	2268	959	1291	195	1096	2494	162	2332	4002	1032	2970
Cherokee	6989	2630	4359	1244	598	646	1378	985	393	1038	779	259	1399	79	1320	934	54	880	996	135	861
Chickasaw	6335	2434	3901	946	355	591	1257	848	409	767	603	164	1168	216	952	781	51	730	1416	361	1055
Clarke	3517	1449	2068	528	244	284	755	526	229	395	307	88	736	97	639	414	33	381	689	242	447
Clay	8807	3652	5155	1582	709	873	2443	1547	896	1043	714	329	1095	117	978	1115	74	1041	1529	491	1038
Clayton	8929	3523	5406	1244	533	711	1545	995	550	974	793	181	2523	553	1970	948	104	844	1695	545	1150
Clinton	25462	10248	15214	4395	1915	2480	6377	4323	2054	3201	2015	1186	1825	264	1561	3452	237	3215	6212	1494	4718
Crawford	8024	2975	5049	1163	426	737	1492	1058	434	1170	870	300	1611	190	1421	1207	135	1072	1381	296	1085
Dallas	13230	5603	7627	2605	1135	1470	3649	2516	1133	1900	1347	553	1090	136	954	1788	115	1673	2198	354	1844
Davis	3511	1320	2191	460	232	228	635	439	196	539	405	134	732	137	595	466	37	429	679	70	609
Decatur	3934	1718	2216	721	328	393	827	588	239	750	525	225	634	53	581	362	33	329	640	191	449
Delaware	7847	3006	4841	1013	420	593	1371	946	425	992	802	190	1946	391	1555	958	52	906	1567	395	1172
Des Moines	20761	8705	12056	4054	1703	2351	5371	3471	1900	2562	1595	967	795	74	721	2788	328	2460	5191	1534	3657
Dickinson	6845	2772	4073	1318	489	829	1647	1063	584	953	697	256	825	95	730	938	75	863	1164	353	811
Dubuque	41752	17675	24077	8528	3597	4931	10283	7059	3224	6611	4533	2078	2310	360	1950	5200	456	4744	8820	1670	7150
Emmet	5587	2174	3413	920	356	564	1306	876	430	745	557	188	707	75	632	748	67	681	1161	243	918
Fayette	10596	4080	6516	1822	755	1067	2153	1478	675	1402	1007	395	2135	318	1817	1159	82	1077	1925	440	1485
Floyd	8181	3232	4949	1429	629	800	1834	1188	646	1235	925	310	1237	205	1032	900	53	847	1546	232	1314
Franklin	5441	2004	3437	863	366	497	1045	649	396	832	626	206	1273	165	1108	620	39	581	808	159	649

Table 2. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1980 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
Fremont	3981	1593	2388	603	317	286	701	539	162	510	387	123	871	108	763	448	33	415	848	209	639
Greene	5226	2166	3060	1035	488	547	1053	760	293	743	587	156	1120	145	975	477	17	460	798	169	629
Grundy	6141	2278	3863	1046	435	611	1226	829	397	692	568	124	1173	161	1012	744	55	689	1260	230	1030
Guthrie	4782	1892	2890	717	347	370	984	754	230	657	519	138	1132	121	1011	598	26	572	694	125	569
Hamilton	7995	3227	4768	1314	550	764	1964	1361	603	974	739	235	1270	120	1150	974	52	922	1499	405	1094
Hancock	5718	2174	3544	910	382	528	1203	780	423	805	597	208	1331	154	1177	727	69	658	742	192	550
Hardin	9305	3668	5637	1752	636	1116	2249	1519	730	1243	967	276	1296	101	1195	1045	87	958	1720	358	1362
Harrison	6417	2506	3911	982	476	506	1434	975	459	976	728	248	1224	115	1109	809	38	771	992	174	818
Henry	8266	3602	4664	1447	589	858	1980	1354	626	1306	925	381	935	137	798	1053	79	974	1545	518	1027
Howard	4440	1709	2731	620	228	392	783	478	305	577	508	69	1147	231	916	524	34	490	789	230	559
Humboldt	5092	1879	3213	822	353	469	1174	800	374	696	502	194	947	121	826	641	5	636	812	98	714
Ida	3706	1371	2335	651	317	334	716	475	241	427	349	78	1035	113	922	386	22	364	491	95	396
Iowa	7500	3280	4220	1107	454	653	1675	1136	539	1227	973	254	1263	162	1101	784	104	680	1444	451	993
Jackson	9187	3686	5501	1397	643	754	1728	1113	615	1144	893	251	1405	271	1134	1183	152	1031	2330	614	1716
Jasper	16352	6867	9485	2855	1152	1703	4102	2878	1224	2293	1629	664	1719	269	1450	1796	136	1660	3587	803	2784
Jefferson	7469	3015	4454	1542	668	874	1862	1245	617	871	575	296	816	65	751	883	71	812	1495	391	1104
Johnson	44055	20943	23112	13766	6257	7509	13374	8726	4648	7247	4325	2922	1735	241	1494	3570	343	3227	4363	1051	3312
Jones	8599	3389	5210	1298	587	711	1730	1137	593	1044	720	324	1520	184	1336	1138	172	966	1869	589	1280
Keokuk	5094	1971	3123	742	339	403	923	625	298	733	569	164	1187	133	1054	507	34	473	1002	271	731
Kossuth	8924	3334	5590	1314	504	810	1775	1227	548	1092	860	232	2138	247	1891	962	90	872	1643	406	1237
Lee	18401	7607	10794	3079	1152	1927	4379	3008	1371	2349	1512	837	1148	148	1000	2579	171	2408	4867	1616	3251
Linn	83161	36478	46683	18671	7046	11625	25895	16547	9348	10118	6446	3672	1859	297	1562	10036	1101	8935	16582	5041	11541
Louisa	5163	1988	3175	673	287	386	1023	647	376	668	472	196	717	80	637	723	54	669	1359	448	911
Lucas	4344	1743	2601	707	308	399	1066	766	300	601	455	146	568	40	528	556	46	510	846	128	718
Lyon	5298	2019	3279	795	281	514	863	637	226	728	614	114	1559	207	1352	420	26	394	933	254	679
Madison	5330	2084	3246	841	335	506	1334	889	445	689	585	104	931	106	825	699	63	636	836	106	730
Mahaska	9701	3827	5874	1675	672	1003	2148	1529	619	1368	936	432	1277	147	1130	1031	64	967	2202	479	1723
Marion	12964	5445	7519	2352	944	1408	2929	1981	948	2080	1386	694	1089	139	950	1281	131	1150	3233	864	2369
Marshall	19249	8085	11164	4037	1745	2292	5203	3300	1903	2784	1949	835	1440	211	1229	2393	227	2166	3392	653	2739
Mills	5535	2368	3167	1166	536	630	1073	772	301	1136	820	316	703	56	647	632	48	584	825	136	689
Mitchell	4861	1895	2966	770	373	397	799	494	305	791	656	135	1146	148	998	579	37	542	776	187	589
Monona	4567	1658	2909	661	277	384	883	582	301	693	567	126	1272	96	1176	464	53	411	594	83	511
Monroe	3796	1578	2218	479	170	309	849	592	257	550	431	119	627	40	587	433	81	352	858	264	594
Montgomery	5849	2446	3403	952	338	614	1314	865	449	804	608	196	870	67	803	625	73	552	1284	495	789
Muscatine	18092	7285	10807	3324	1290	2034	4265	2934	1331	2409	1615	794	1142	180	962	2521	182	2339	4431	1084	3347

Table 2. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1980 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
O'Brien	6909	2566	4343	1150	444	706	1497	968	529	1014	750	264	1441	104	1337	791	65	726	1016	235	781
Osceola	3474	1301	2173	501	182	319	569	423	146	433	355	78	927	66	861	328	41	287	716	234	482
Page	8318	3421	4897	1572	672	900	2042	1344	698	1180	817	363	1217	147	1070	825	45	780	1482	396	1086
Palo Alto	5021	1965	3056	883	356	527	1049	740	309	685	543	142	1019	99	920	572	39	533	813	188	625
Plymouth	10495	4048	6447	1745	736	1009	2506	1649	857	1393	1100	293	2225	150	2075	1176	146	1030	1450	267	1183
Pocahontas	4512	1693	2819	813	324	489	825	556	269	687	552	135	1044	106	938	460	35	425	683	120	563
Polk	152451	71364	81087	38769	16522	22247	56640	38188	18452	19461	11457	8004	1308	211	1097	15496	1372	14124	20777	3614	17163
Pottawattamie	38340	16590	21750	6805	3092	3713	12140	8142	3998	5042	3235	1807	2230	276	1954	4882	448	4434	7241	1397	5844
Poweshiek	8665	3704	4961	1661	690	971	2186	1494	692	1213	920	293	1206	101	1105	814	67	747	1585	432	1153
Ringgold	2535	991	1544	404	199	205	411	269	142	385	312	73	763	76	687	217	19	198	355	116	239
Sac	5886	2175	3711	969	392	577	1075	729	346	769	633	136	1356	106	1250	738	51	687	979	264	715
Scott	74258	30835	43423	16831	6504	10327	22637	14502	8135	9695	5986	3709	1374	267	1107	9862	832	9030	13859	2744	11115
Shelby	6091	2175	3916	1021	480	541	1271	818	453	789	601	188	1382	114	1268	737	41	696	891	121	770
Sioux	13140	5124	8016	2205	832	1373	2597	1718	879	1939	1479	460	2479	228	2251	1547	118	1429	2373	749	1624
Story	34225	15249	18976	9926	3678	6248	10529	6762	3767	5180	3162	2018	1721	247	1474	3180	264	2916	3689	1136	2553
Tama	7793	2897	4896	1218	494	724	1460	1016	444	1085	868	217	1595	193	1402	946	73	873	1489	253	1236
Taylor	3391	1351	2040	430	202	228	658	448	210	483	389	94	869	88	781	341	31	310	610	193	417
Union	5726	2406	3320	1004	460	544	1573	999	574	785	575	210	707	111	596	636	50	586	1021	211	810
Van Buren	3480	1308	2172	394	196	198	651	420	231	376	290	86	877	115	762	346	45	301	836	242	594
Wapello	15841	6378	9463	2946	1202	1744	4036	2686	1350	2348	1652	696	717	120	597	2137	114	2023	3657	604	3053
Warren	16152	6813	9339	3115	1376	1739	5486	3640	1846	1790	1197	593	1086	101	985	2013	114	1899	2662	385	2277
Washington	9068	3790	5278	1560	683	877	1995	1376	619	1261	953	308	1377	153	1224	1182	77	1105	1693	548	1145
Wayne	3134	1217	1917	466	217	249	638	453	185	453	354	99	720	57	663	341	31	310	516	105	411
Webster	20677	9079	11598	3691	1698	1993	5825	3824	2001	3516	2452	1064	1437	234	1203	2628	187	2441	3580	684	2896
Winnebago	5349	2246	3103	981	432	549	1097	737	360	852	680	172	838	60	778	702	40	662	879	297	582
Winneshiek	9628	4083	5545	1523	738	785	1910	1319	591	1488	1088	400	2218	427	1791	1175	78	1097	1314	433	881
Woodbury	43813	18735	25078	9895	4064	5831	13399	8590	4809	6239	4081	2158	1703	176	1527	5681	584	5097	6896	1240	5656
Worth	3759	1513	2246	557	239	318	831	604	227	484	386	98	729	67	662	497	36	461	661	181	480
Wright	6772	2619	4153	1217	494	723	1400	919	481	833	662	171	1171	159	1012	800	33	767	1351	352	999
State of Iowa	1304638	548124	756514	261071	109282	151789	348932	232319	116613	179787	123922	55865	125763	16283	109480	154227	12864	141363	234858	53454	181404

Table 3. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1970.

County	Employed		Professional, Technical, Mgrs, and Administrators		Sales and Clerical		Service		Farmers, Farm Managers, Farm Laborers/Foremen			Craftsmen and Foremen		Operators and Laborers							
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male			
Adair	3876	1219	2657	560	272	288	465	247	218	488	416	72	1542	233	1309	301	5	296	520	46	474
Adams	2315	704	1611	396	155	241	296	196	100	296	243	53	758	22	736	217	19	198	352	69	283
Allamakee	5467	1923	3544	861	325	536	752	490	262	795	649	146	1587	79	1508	517	24	493	955	356	599
Appanoose	5176	1804	3372	941	343	598	1000	661	339	614	454	160	759	27	732	653	44	609	1209	275	934
Audubon	3505	1049	2456	565	268	297	475	268	207	421	348	73	1184	18	1166	301	14	287	559	133	426
Benton	8435	2732	5703	1227	396	831	1431	913	518	1185	917	268	1884	97	1787	938	33	905	1770	376	1394
Black Hawk	50744	19713	31031	11106	3881	7225	12168	8221	3947	7578	5222	2356	1387	80	1307	6769	326	6443	11736	1983	9753
Boone	9831	3582	6249	1811	574	1237	1888	1199	689	1716	1309	407	1212	29	1183	1232	60	1172	1972	411	1561
Bremer	8562	2999	5563	1955	653	1302	1496	1097	399	1261	833	428	1371	171	1200	930	82	848	1549	163	1386
Buchanan	7544	2547	4997	1185	467	718	1034	736	298	1206	955	251	1692	140	1552	790	18	772	1637	231	1406
Buena Vista	7814	2649	5165	1610	665	945	1513	974	539	1154	778	376	1475	7	1468	537	41	496	1525	184	1341
Butler	5724	1540	4184	934	317	617	793	491	302	637	496	141	1537	44	1493	671	45	626	1152	147	1005
Calhoun	4877	1538	3339	1101	408	693	788	547	241	593	449	144	1210	19	1191	491	30	461	694	85	609
Carroll	8024	2754	5270	1569	596	973	1458	916	542	1167	947	220	1751	79	1672	837	35	802	1242	181	1061
Cass	6752	2240	4512	1319	443	876	1389	935	454	795	601	194	1602	81	1521	639	43	596	1008	137	871
Cedar	6617	2015	4602	1153	392	761	916	601	315	939	721	218	1625	41	1584	799	52	747	1185	208	977
Cerro Gordo	19383	7433	11950	4380	1492	2888	4640	3006	1634	2940	2121	819	1099	32	1067	2626	115	2511	3698	667	3031
Cherokee	6408	2084	4324	1297	476	821	1182	772	410	913	682	231	1418	34	1384	673	30	643	925	90	835
Chickasaw	4907	1401	3506	847	292	555	755	520	235	493	407	86	1399	71	1328	503	10	493	910	101	809
Clarke	2975	929	2046	377	127	250	489	352	137	375	288	87	961	12	949	321	35	286	452	115	337
Clay	7046	2523	4523	1437	432	1005	1536	984	552	936	688	248	1204	51	1153	676	48	628	1257	320	937
Clayton	7374	2237	5137	1010	360	650	950	625	325	835	663	172	2339	248	2091	811	52	759	1429	289	1140
Clinton	22333	7802	14531	4336	1472	2864	4417	3099	1318	2603	1703	900	1988	112	1876	3223	126	3097	5766	1290	4476
Crawford	7151	2250	4901	1151	414	737	1149	697	452	943	765	178	1954	144	1810	655	52	603	1299	178	1121
Dallas	10564	3795	6769	1947	738	1209	2387	1603	784	1542	1149	393	1347	36	1311	1319	24	1295	2022	245	1777
Davis	2986	943	2043	485	198	287	384	221	163	420	328	92	732	59	673	323	19	304	642	118	524
Decatur	3537	1350	2187	655	243	412	570	423	147	648	458	190	792	52	740	297	9	288	575	165	410
Delaware	6392	1834	4558	1106	328	778	843	547	296	765	617	148	1913	65	1848	623	24	599	1142	253	889
Des Moines	19201	7549	11652	4093	1401	2692	4085	2733	1352	2487	1566	921	812	21	791	2902	200	2702	4822	1628	3194
Dickinson	4935	1813	3122	884	285	599	932	600	332	666	504	162	952	34	918	506	30	476	995	360	635
Dubuque	33408	12027	21381	7244	2631	4613	6981	4517	2464	4800	3211	1589	1998	73	1925	4082	181	3901	8303	1414	6889
Emmet	4956	1664	3292	1081	346	735	861	594	267	671	466	205	790	54	736	534	24	510	1019	180	839
Fayette	9635	3219	6416	1742	576	1166	1859	1198	661	1255	1004	251	2023	180	1843	1102	42	1060	1654	219	1435
Floyd	6892	2283	4609	1403	494	909	1212	892	320	923	712	211	1036	42	994	964	23	941	1354	120	1234
Franklin	4996	1515	3481	834	333	501	756	513	243	586	488	98	1669	69	1600	495	27	468	656	85	571

Table 3. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1970 (continued).

County	Employed		Professional, Technical, Mgrs, and Administrators		Sales and Clerical		Service		Farmers, Farm Managers, Farm Laborers/Foremen		Craftsmen and Foremen		Operators and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
Fremont	3643	1266	2377	638	245	393	618	422	196	457	357	100	1051	63	988	341	15	326	538	164	374
Greene	4841	1594	3247	860	348	512	754	499	255	614	502	112	1231	54	1177	572	19	553	810	172	638
Grundy	5283	1581	3702	944	330	614	757	495	262	634	521	113	1476	20	1456	554	27	527	918	188	730
Guthrie	4584	1494	3090	710	251	459	688	482	206	606	459	147	1349	194	1155	483	16	467	748	92	656
Hamilton	7254	2459	4795	1329	419	910	1422	914	508	989	731	258	1287	34	1253	793	36	757	1434	325	1109
Hancock	4882	1533	3349	742	324	418	749	482	267	590	473	117	1414	53	1361	546	37	509	841	164	677
Hardin	8447	2862	5585	1857	632	1225	1569	963	606	1206	885	321	1465	48	1417	859	60	799	1491	274	1217
Harrison	6016	1935	4081	1027	367	660	900	632	268	873	691	182	1447	26	1421	578	23	555	1191	196	995
Henry	7448	2875	4573	1709	694	1015	1403	961	442	1104	762	342	991	26	965	878	41	837	1363	391	972
Howard	3962	1226	2736	652	258	394	662	446	216	437	325	112	1302	95	1207	358	18	340	551	84	467
Humboldt	4485	1390	3095	987	280	707	860	574	286	527	402	125	1018	44	974	459	14	445	634	76	558
Ida	3470	1089	2381	669	266	403	520	365	155	422	314	108	1159	83	1076	293	16	277	407	45	362
Iowa	6368	2288	4080	964	330	634	1063	719	344	829	648	181	1570	202	1368	685	52	633	1257	337	920
Jackson	7881	2712	5169	1275	479	796	1070	757	313	1024	787	237	1809	239	1570	894	42	852	1809	408	1401
Jasper	14250	5171	9079	2766	815	1951	2848	2045	803	1864	1402	462	1795	93	1702	1730	122	1608	3247	694	2553
Jefferson	6293	2277	4016	1318	439	879	1137	665	472	995	671	324	865	26	839	719	60	659	1259	416	843
Johnson	31074	13321	17753	11361	4460	6901	6584	4470	2114	5892	3545	2347	1704	94	1610	2362	122	2240	3171	630	2541
Jones	7305	2358	4947	1253	509	744	1148	711	437	958	673	285	1646	76	1570	831	50	781	1469	339	1130
Keokuk	5044	1624	3420	802	336	466	757	527	230	606	458	148	1479	67	1412	588	68	520	812	168	644
Kossuth	8090	2632	5458	1552	629	923	1258	862	396	937	752	185	2367	106	2261	817	60	757	1159	223	936
Lee	15918	5653	10265	3442	1118	2324	3100	2160	940	2030	1191	839	909	42	867	2402	103	2299	4035	1039	2996
Linn	66268	25269	40999	16067	4585	11482	16854	10816	6038	7928	5192	2736	1946	135	1811	8692	548	8144	14781	3993	10788
Louisa	4034	1376	2658	696	230	466	640	425	215	521	432	89	650	10	640	558	58	500	969	221	748
Lucas	3851	1332	2519	695	226	469	709	515	194	531	382	149	734	39	695	349	9	340	833	161	672
Lyon	4662	1383	3279	777	282	495	656	418	238	573	487	86	1623	62	1561	374	18	356	659	116	543
Madison	4476	1426	3050	690	267	423	835	588	247	496	404	92	1159	33	1126	626	36	590	670	98	572
Mahaska	8339	2944	5395	1530	494	1036	1662	1063	599	1342	905	437	1389	59	1330	850	46	804	1566	377	1189
Marion	10017	3707	6310	1824	611	1213	1916	1257	659	1884	1256	628	1141	66	1075	1005	51	954	2247	466	1781
Marshall	16439	5919	10520	3337	1063	2274	3345	2213	1132	2268	1631	637	1539	99	1440	2201	160	2041	3749	753	2996
Mills	4334	1413	2921	816	337	479	642	412	230	658	516	142	972	17	955	582	15	567	664	116	548
Mitchell	4623	1532	3091	818	335	483	637	426	211	690	571	119	1319	71	1248	466	9	457	693	120	573
Monona	4251	1328	2923	818	318	500	700	492	208	505	392	113	1178	21	1157	451	15	436	599	90	509
Monroe	3272	1139	2133	579	253	326	466	312	154	504	379	125	525	28	497	329	34	295	869	133	736
Montgomery	4882	1688	3194	876	313	563	901	558	343	664	494	170	1049	32	1017	611	25	586	781	266	515
Muscatine	14695	5222	9473	2938	914	2024	2861	1932	929	1781	1230	551	1110	50	1060	1999	87	1912	4006	1009	2997

Table 3. General Occupational Categories for Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1970 (continued).

County	Employed		Professional, Technical, Mgrs, and Administrators		Sales and Clerical		Service		Farmers, Farm Managers, Farm Laborers/Foremen		Craftsmen and Foremen		Operators and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
O'Brien	6177	2137	4040	1218	467	751	1035	703	332	949	729	220	1431	32	1399	613	17	596	931	189	742
Osceola	2783	850	1933	464	139	325	449	306	143	317	271	46	921	14	907	208	19	189	424	101	323
Page	7656	2795	4861	1406	479	927	1515	1082	433	1124	791	333	1580	114	1466	834	39	795	1197	290	907
Palo Alto	4562	1525	3037	824	291	533	756	421	335	716	576	140	1105	48	1057	453	43	410	708	146	562
Plymouth	8660	2707	5953	1564	614	950	1369	856	513	1194	870	324	2311	95	2216	856	20	836	1366	252	1114
Pocahontas	4332	1225	3107	797	297	500	639	411	228	513	420	93	1285	21	1264	413	9	404	685	67	618
Polk	122308	50233	72075	31298	10011	21287	39872	26180	13692	15713	9669	6044	1170	77	1093	14273	1077	13196	19982	3219	16763
Pottawattamie	33441	12454	20987	5809	2335	3474	8284	5199	3085	4426	3002	1424	2231	131	2100	5333	284	5049	7358	1503	5855
Poweshiek	7771	2811	4960	1507	522	985	1579	984	595	1236	949	287	1539	110	1429	697	69	628	1213	177	1036
Ringgold	2618	815	1803	392	121	271	327	241	86	367	268	99	1065	113	952	220	10	210	247	62	185
Sac	5488	1643	3845	1044	322	722	780	510	270	635	556	79	1709	64	1645	484	34	450	836	157	679
Scott	54898	19633	35265	12947	3905	9042	13948	8874	5074	7079	4510	2569	1380	69	1311	8019	284	7735	11525	1991	9534
Shelby	5411	1603	3808	1026	376	650	787	454	333	794	606	188	1564	33	1531	522	19	503	718	115	603
Sioux	9966	3152	6814	1748	565	1183	1489	930	559	1435	1149	286	2703	115	2588	930	17	913	1661	376	1285
Story	26077	10048	16029	9375	2869	6506	5686	3940	1746	4019	2418	1601	1935	61	1874	2203	119	2084	2859	641	2218
Tama	7203	2174	5029	1155	395	760	1190	798	392	932	714	218	1978	69	1909	792	15	777	1156	183	973
Taylor	3319	967	2352	473	187	286	431	280	151	415	293	122	1215	62	1153	304	18	286	481	127	354
Union	5128	1850	3278	1088	345	743	1026	669	357	844	608	236	786	45	741	439	38	401	945	145	800
Van Buren	3104	1022	2082	429	176	253	432	304	128	442	341	101	724	5	719	310	14	296	767	182	585
Wapello	14833	5592	9241	3117	1127	1990	3228	2024	1204	2329	1690	639	683	13	670	1784	81	1703	3692	657	3035
Warren	10745	3766	6979	2196	765	1431	2630	1745	885	1272	898	374	995	51	944	1526	117	1409	2126	190	1936
Washington	7024	2321	4703	1279	462	817	1194	771	423	1069	753	316	1379	52	1327	896	53	843	1207	230	977
Wayne	3167	970	2197	544	197	347	466	305	161	351	270	81	1009	55	954	253	15	238	544	128	416
Webster	18668	7016	11652	3997	1411	2586	4202	2692	1510	2934	2111	823	1422	31	1391	2099	105	1994	4014	666	3348
Winnebago	5185	1873	3312	1008	343	665	841	600	241	688	506	182	887	10	877	746	79	667	1015	335	680
Winneshiek	8138	2916	5222	1476	499	977	1321	1020	301	1193	860	333	2400	194	2206	707	58	649	1041	285	756
Woodbury	39179	15019	24160	9264	3169	6095	9805	5963	3842	6012	3935	2077	1704	41	1663	4900	273	4627	7494	1638	5856
Worth	3280	1022	2258	422	159	263	579	362	217	303	256	47	941	16	925	321	26	295	714	203	511
Wright	6196	1890	4306	1323	467	856	971	620	351	725	590	135	1384	48	1336	689	5	684	1104	160	944

State of Iowa 1088340 392706 695634 233110 79565 153545 233372 153210 80162 149611 104587 45024 136106 6752 129354 127916 7011 120905 208225 41581 166644

Table 4. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1960.

County	Employed		Professional, Technical, Mgrs, and Administrators				Sales and Clerical				Service			Farmers, Farm Managers, Farm Laborers/Foremen		Craftsmen and Foremen		Operators and Laborers			
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Adair	4157	1062	3095	463	138	325	534	331	203	403	309	94	1922	190	1732	360	14	346	412	56	356
Adams	2909	723	2186	401	172	229	328	164	164	218	159	59	1367	143	1224	219	4	215	319	44	275
Allamakee	5879	1541	4338	746	243	503	644	372	272	480	395	85	2651	347	2304	549	17	532	740	127	613
Appanoose	5097	1378	3719	874	303	571	727	437	290	439	315	124	1284	95	1189	478	20	458	982	68	914
Audubon	3950	1016	2934	520	154	366	428	226	202	360	306	54	1849	211	1638	303	9	294	404	74	330
Benton	8216	2137	6079	1292	380	912	1184	683	501	720	581	139	2670	162	2508	767	8	759	1462	267	1195
Black Hawk	44688	14484	30204	8292	2554	5738	10130	5843	4287	5282	3695	1587	2272	126	2146	6284	112	6172	11375	1831	9544
Boone	9326	2650	6676	1604	485	1119	1633	873	760	1102	818	284	1927	116	1811	1135	45	1090	1684	232	1452
Bremer	7969	2411	5558	1340	364	976	1329	814	515	832	593	239	2223	327	1896	766	12	754	1357	252	1105
Buchanan	7647	2320	5327	1152	434	718	1099	676	423	699	520	179	2553	380	2173	674	12	662	1390	283	1107
Buena Vista	7672	2030	5642	1251	406	845	1290	715	575	736	540	196	2290	87	2203	703	27	676	1230	165	1065
Butler	5848	1275	4573	819	254	565	720	427	293	393	325	68	2445	168	2277	599	13	586	789	49	740
Calhoun	5407	1363	4044	905	272	633	854	522	332	497	419	78	1877	74	1803	439	3	436	782	66	716
Carroll	8089	2240	5849	1250	454	796	1254	621	633	975	741	234	2432	110	2322	789	32	757	1089	168	921
Cass	6874	2064	4810	1125	356	769	1301	720	581	714	591	123	2188	223	1965	630	20	610	793	96	697
Cedar	6547	1664	4883	975	311	664	880	523	357	617	455	162	2481	224	2257	618	16	602	895	108	787
Cerro Gordo	18635	5816	12819	3401	1038	2363	4116	2228	1888	2242	1661	581	2237	118	2119	2313	63	2250	3792	524	3268
Cherokee	6437	1797	4640	1161	430	731	959	538	421	805	597	208	2211	106	2105	514	12	502	711	96	615
Chickasaw	5210	1369	3841	729	245	484	711	417	294	480	349	131	2155	204	1951	387	22	365	636	83	553
Clarke	2977	791	2186	445	167	278	418	230	188	312	249	63	1023	8	1015	221	0	221	477	108	369
Clay	6637	1851	4786	1116	278	838	1189	675	514	659	476	183	1836	90	1746	523	24	499	934	151	783
Clayton	7789	2000	5789	944	303	641	924	560	364	599	475	124	3350	311	3039	625	22	603	1159	235	924
Clinton	20161	6017	14144	3361	993	2368	3934	2389	1545	1960	1358	602	2774	143	2631	2661	71	2590	5051	904	4147
Crawford	6272	1477	4795	835	286	549	777	435	342	645	461	184	2677	165	2512	483	12	471	671	66	605
Dallas	9131	2790	6341	1470	494	976	1544	953	591	1205	958	247	2067	144	1923	1100	28	1072	1546	147	1399
Davis	3519	1031	2488	446	153	293	429	272	157	327	278	49	1393	260	1133	285	0	285	555	35	520
Decatur	3653	1138	2515	639	223	416	480	275	205	556	396	160	1170	106	1064	249	16	233	455	72	383
Delaware	6769	1971	4798	821	299	522	695	398	297	610	482	128	3080	592	2488	487	12	475	987	155	832
Des Moines	17633	5964	11669	3064	921	2143	3715	2040	1675	1960	1309	651	1278	86	1192	2678	82	2596	4007	1219	2788
Dickinson	4588	1311	3277	775	205	570	688	360	328	502	397	105	1237	127	1110	476	18	458	793	174	619
Dubuque	28719	9394	19325	5033	1802	3231	5722	3160	2562	3751	2590	1161	2715	300	2415	3521	99	3422	6939	1053	5886
Emmet	4899	1332	3567	887	257	630	877	517	360	555	401	154	1195	40	1155	476	0	476	867	102	765
Fayette	10165	2710	7455	1593	536	1057	1631	917	714	927	707	220	3185	227	2958	975	11	964	1662	227	1435
Floyd	7765	2265	5500	1262	380	882	1359	863	496	785	643	142	1785	120	1665	923	25	898	1509	160	1349
Franklin	5827	1446	4381	800	263	537	692	415	277	549	437	112	2498	149	2349	512	14	498	705	132	573

Table 4. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1960 (continued).

County	Employed		Professional, Technical, Mgrs, and Administrators		Sales and Clerical		Service		Farmers, Farm Managers, Farm Laborers/Foremen		Craftsmen and Foremen		Operators and Laborers	
	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male
Fremont	3905	1140 2765	457	167 290	603	394 209	393	304 89	1384	42 1342	292	12 280	689	182 507
Greene	4952	1321 3631	772	247 525	727	407 320	540	446 94	1819	93 1726	427	13 414	601	72 529
Grundy	5398	1334 4064	609	172 437	680	428 252	434	344 90	2394	276 2118	459	16 443	771	78 693
Guthrie	4913	1317 3596	757	253 504	614	394 220	449	318 131	2022	226 1796	416	8 408	580	83 497
Hamilton	7431	2136 5295	1257	400 857	1294	798 496	790	646 144	2003	49 1954	666	12 654	1304	174 1130
Hancock	5257	1270 3987	723	190 533	705	421 284	477	370 107	2267	153 2114	461	12 449	541	71 470
Hardin	8141	2220 5921	1435	475 960	1427	842 585	851	618 233	2367	116 2251	876	17 859	1068	128 940
Harrison	6120	1597 4523	1018	340 678	925	554 371	597	459 138	1943	115 1828	645	9 636	871	81 790
Henry	6672	2084 4588	1077	353 724	1134	622 512	966	686 280	1408	42 1366	727	16 711	964	225 739
Howard	4717	1309 3408	656	221 435	526	310 216	392	314 78	2147	367 1780	388	0 388	516	57 459
Humboldt	4683	1144 3539	773	216 557	691	422 269	451	346 105	1621	59 1562	478	8 470	594	69 525
Ida	3485	735 2750	438	122 316	470	302 168	254	194 60	1549	17 1532	290	16 274	422	58 364
Iowa	6261	1716 4545	817	299 518	801	462 339	621	523 98	2284	173 2111	535	0 535	1054	196 858
Jackson	7540	2196 5344	991	324 667	856	515 341	665	516 149	2244	266 1978	826	34 792	1508	296 1212
Jasper	13413	3718 9695	2094	554 1540	2398	1498 900	1158	795 363	2572	140 2432	1608	65 1543	3150	498 2652
Jefferson	6083	1861 4222	1086	345 741	1159	691 468	667	472 195	1355	72 1283	603	8 595	1088	209 879
Johnson	21814	8051 13763	6488	2336 4152	4138	2496 1642	4132	2362 1770	2492	210 2282	1669	35 1634	2425	427 1998
Jones	7135	1960 5175	1054	370 684	875	545 330	627	432 195	2183	114 2069	597	24 573	1364	338 1026
Keokuk	5384	1495 3889	891	323 568	674	461 213	454	347 107	1965	213 1752	476	18 458	840	80 760
Kossuth	8673	2220 6453	1334	423 911	1059	611 448	738	589 149	3678	327 3351	665	20 645	1075	176 899
Lee	15658	5018 10640	2670	812 1858	3165	1872 1293	1845	1127 718	1515	67 1448	2086	54 2032	3790	875 2915
Linn	55694	19360 36334	11014	2902 8112	13037	7724 5313	5700	3884 1816	2948	380 2568	7782	239 7543	12719	3167 9552
Louisa	3855	984 2871	525	164 361	448	289 159	384	295 89	1332	53 1279	392	8 384	655	127 528
Lucas	3941	1066 2875	505	181 324	625	331 294	430	276 154	1105	44 1061	363	0 363	801	179 622
Lyon	4915	1138 3777	689	259 430	586	299 287	396	327 69	2315	166 2149	342	4 338	521	61 460
Madison	4497	1222 3275	603	220 383	660	454 206	432	326 106	1665	133 1532	402	12 390	689	58 631
Mahaska	8931	2641 6290	1328	426 902	1498	900 598	889	690 199	2346	151 2195	1047	36 1011	1623	338 1285
Marion	8672	2355 6317	1342	448 894	1342	797 545	1169	573 596	1678	62 1616	1022	23 999	1956	385 1571
Marshall	14442	4435 10007	2563	737 1826	2687	1538 1149	1674	1243 431	2395	208 2187	1746	91 1655	3169	534 2635
Mills	4214	1224 2990	604	211 393	619	378 241	542	381 161	1244	37 1207	397	9 388	733	181 552
Mitchell	4855	1327 3528	659	217 442	603	384 219	479	381 98	1854	166 1688	441	4 437	717	122 595
Monona	4762	1226 3536	618	254 364	653	375 278	533	409 124	1910	96 1814	444	12 432	508	39 469
Monroe	3481	849 2632	514	193 321	562	312 250	350	211 139	931	58 873	291	4 287	737	56 681
Montgomery	5453	1614 3839	896	259 637	1047	603 444	572	393 179	1444	51 1393	555	11 544	847	258 589
Muscatine	12612	3801 8811	2052	580 1472	2220	1328 892	1299	907 392	1728	103 1625	1759	56 1703	3131	709 2422

Table 4. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1960 (continued).

County	Employed		Professional, Technical, Mgrs, and Administrators		Sales and Clerical		Service		Farmers, Farm Managers, Farm Laborers/Foremen		Craftsmen and Foremen		Operators and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
O'Brien	6334	1564	4770	1124	375	749	887	454	433	563	466	97	2264	87	2177	529	12	517	929	151	778
Osceola	3435	792	2643	492	141	351	355	192	163	277	185	92	1597	118	1479	286	0	286	361	103	258
Page	8133	2708	5425	1333	438	895	1663	1041	622	1009	742	267	2025	128	1897	762	11	751	1173	270	903
Palo Alto	4895	1233	3662	793	284	509	714	418	296	464	357	107	1864	78	1786	325	3	322	668	55	613
Plymouth	8241	2112	6129	1105	385	720	1034	492	542	1011	712	299	3044	108	2936	653	16	637	1239	322	917
Pocahontas	4944	1178	3766	736	235	501	634	364	270	382	287	95	2083	111	1972	351	15	336	565	84	481
Polk	107563	39309	68254	23320	6620	16700	33352	20043	13309	11311	7356	3955	1884	108	1776	14001	621	13380	19247	2890	16357
Pottawattamie	30881	9832	21049	4637	1697	2940	7606	4132	3474	3005	2093	912	3353	284	3069	4603	138	4465	6996	1218	5778
Poweshiek	6950	1970	4980	1115	304	811	1107	675	432	808	555	253	2064	128	1936	557	8	549	1074	216	858
Ringgold	2615	536	2079	395	147	248	261	147	114	192	165	27	1375	35	1340	138	7	131	225	19	206
Sac	5769	1294	4475	765	221	544	762	388	374	593	431	162	2210	101	2109	427	19	408	962	105	857
Scott	45629	14484	31145	8739	2462	6277	10722	6033	4689	4778	3214	1564	2302	233	2069	6521	153	6368	10131	1561	8570
Shelby	5344	1266	4078	756	258	498	655	348	307	459	352	107	2329	181	2148	417	12	405	634	78	556
Sioux	8750	1947	6803	1293	399	894	1072	557	515	743	559	184	3374	163	3211	797	16	781	1244	180	1064
Story	19477	6326	13151	5738	1442	4296	3954	2513	1441	2618	1509	1109	2449	120	2329	1775	44	1731	2375	547	1828
Tama	7279	1600	5679	975	285	690	770	501	269	617	448	169	3008	202	2806	663	13	650	1162	109	1053
Taylor	3683	840	2843	567	174	393	399	242	157	356	271	85	1648	75	1573	255	4	251	414	50	364
Union	4877	1405	3472	811	277	534	928	496	432	613	446	167	1184	49	1135	579	7	572	640	78	562
Van Buren	3691	986	2705	517	178	339	436	283	153	343	246	97	1376	141	1235	335	12	323	644	118	526
Wapello	16580	4939	11641	2937	886	2051	3347	1787	1560	1754	1241	513	1259	89	1170	2148	47	2101	4433	647	3786
Warren	7341	1999	5342	1127	330	797	1489	862	627	805	583	222	1597	57	1540	864	22	842	1355	99	1256
Washington	7307	2119	5188	1057	320	737	1141	600	541	780	576	204	2413	283	2130	707	31	676	1082	243	839
Wayne	3625	1024	2601	522	165	357	413	218	195	293	235	58	1641	316	1325	259	4	255	405	53	352
Webster	17427	5390	12037	2891	999	1892	3723	2112	1611	1927	1377	550	2329	79	2250	2091	45	2046	3917	541	3376
Winnebago	4727	1294	3433	775	268	507	660	364	296	477	393	84	1598	58	1540	540	3	537	604	176	428
Winneshiek	8193	2357	5836	1200	378	822	1190	742	448	711	522	189	3490	513	2977	630	15	615	901	145	756
Woodbury	39851	13480	26371	8004	2427	5577	9525	5017	4508	4637	3292	1345	2679	129	2550	4484	123	4361	8563	1771	6792
Worth	3733	852	2881	406	135	271	456	244	212	244	214	30	1734	145	1589	325	0	325	506	84	422
Wright	6708	1570	5138	1122	327	795	1040	583	457	585	410	175	2074	77	1997	729	20	709	1073	118	955
State of Iowa	1019002	308318	710684	178352	55103	123249	196998	114194	82804	108601	76727	31874	204651	15320	189331	113646	3222	110424	186702	32147	154555

Table 5. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1950.

County	Employed		Professional, Technical, Mgrs, and Administrators					Sales and Clerical					Service					Farmers, Farm Managers, Farm Laborers/Foremen					Craftsmen and Foremen					Operators and Laborers				
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male					
Adair	4726	873	3853	567	193	374	373	204	169	246	177	69	2705	213	2492	318	11	307	451	35	416											
Adams	3192	518	2674	329	125	204	306	154	152	162	112	50	1827	79	1748	216	3	213	308	29	279											
Allamakee	6066	1274	4792	770	226	544	530	248	282	330	213	117	3138	396	2742	445	13	432	662	112	550											
Appanoose	6532	1502	5030	993	314	679	923	473	450	474	307	167	2062	223	1839	636	13	623	1324	136	1188											
Audubon	4353	794	3559	519	166	353	403	206	197	212	152	60	2372	205	2167	355	8	347	425	38	387											
Benton	8154	1536	6618	1056	268	788	899	455	444	534	368	166	3584	250	3334	748	14	734	1212	130	1082											
Black Hawk	42128	12034	30094	6599	1798	4801	8426	4572	3854	4048	2639	1409	3344	290	3054	6267	147	6120	12937	2387	10550											
Boone	9260	1756	7504	1431	364	1067	1267	646	621	727	476	251	2765	51	2714	1275	12	1263	1588	121	1467											
Bremer	7274	1862	5412	955	288	667	854	483	371	452	291	161	3059	498	2561	684	17	667	1149	225	924											
Buchanan	7137	1469	5668	902	282	620	771	388	383	553	348	205	3009	122	2887	631	16	615	1054	148	906											
Buena Vista	7812	1480	6332	1257	322	935	1119	513	606	564	373	191	2891	112	2779	805	22	783	1057	87	970											
Butler	6626	1388	5238	845	273	572	582	290	292	322	230	92	3428	479	2949	560	15	545	803	75	728											
Calhoun	5811	988	4823	901	265	636	648	306	342	365	262	103	2587	65	2522	548	8	540	643	58	585											
Carroll	8646	2090	6556	1339	429	910	1164	581	583	722	497	225	3353	319	3034	768	17	751	1132	177	955											
Cass	7202	1668	5534	1046	318	728	1045	525	520	533	378	155	2888	255	2633	691	8	683	891	150	741											
Cedar	6806	1474	5332	836	218	618	543	301	242	355	241	114	3493	355	3138	501	14	487	652	33	619											
Cerro Gordo	18329	4895	13434	3128	856	2272	3805	1939	1866	1633	1099	534	2787	186	2601	2454	58	2396	3934	590	3344											
Cherokee	6949	1496	5453	919	252	667	850	423	427	614	438	176	3017	252	2765	640	14	626	845	95	750											
Chickasaw	5680	1180	4500	706	229	477	575	282	293	325	211	114	2829	345	2484	441	14	427	698	63	635											
Clarke	3549	772	2777	427	151	276	361	170	191	219	168	51	1861	198	1663	238	7	231	429	71	358											
Clay	6785	1337	5448	1048	249	799	1067	554	513	465	297	168	2680	104	2576	636	21	615	799	77	722											
Clayton	8421	1638	6783	1017	317	700	781	364	417	479	317	162	4329	443	3886	712	18	694	1007	142	865											
Clinton	19204	4733	14471	3089	894	2195	3318	1813	1505	1565	908	657	3593	108	3485	2634	82	2552	4824	857	3967											
Crawford	7337	1350	5987	966	278	688	670	321	349	460	309	151	3528	120	3408	582	11	571	801	87	714											
Dallas	9029	2018	7011	1423	408	1015	1189	623	566	758	564	194	3066	182	2884	987	19	968	1476	174	1302											
Davis	3792	774	3018	426	131	295	320	150	170	156	108	48	2091	312	1779	245	6	239	454	27	427											
Decatur	4339	809	3530	659	216	443	395	194	201	275	176	99	2106	144	1962	303	7	296	533	48	485											
Delaware	6740	1478	5262	759	247	512	636	282	354	387	285	102	3683	542	3141	496	14	482	650	53	597											
Des Moines	16578	4475	12103	2817	830	1987	3508	1757	1751	1601	889	712	1768	41	1727	2679	67	2612	3726	765	2961											
Dickinson	4628	897	3731	787	192	595	608	286	322	360	228	132	1545	18	1527	580	12	568	626	144	482											
Dubuque	28141	8272	19869	4953	1624	3329	5544	2903	2641	2675	1616	1059	3570	373	3197	3627	123	3504	7461	1533	5928											
Emmet	5172	1111	4061	786	224	562	754	392	362	409	269	140	1671	39	1632	563	10	553	884	145	739											
Fayette	10877	2571	8306	1529	437	1092	1303	671	632	694	445	249	4587	667	3920	1005	39	966	1579	215	1364											
Floyd	8434	2009	6425	1194	353	841	1269	679	590	656	464	192	2586	272	2314	985	31	954	1627	170	1457											
Franklin	6141	1143	4998	758	216	542	652	343	309	403	314	89	3073	155	2920	509	12	497	636	65	571											

Table 5. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1950 (continued).

County	Employed		Professional, Technical, Mgrs, and Administrators			Sales and Clerical			Service			Farmers, Farm Managers, Farm Laborers/Foremen			Craftsmen and Foremen			Operators and Laborers			
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Fremont	4632	941	3691	523	177	346	554	307	247	289	213	76	2130	64	2066	388	7	381	672	146	526
Greene	5849	1175	4674	805	228	577	643	319	324	405	307	98	2770	188	2582	514	11	503	606	65	541
Grundy	4740	685	4055	586	153	433	464	229	235	230	162	68	2441	61	2380	410	11	399	543	54	489
Guthrie	5260	882	4378	803	248	555	487	269	218	315	224	91	2622	33	2589	378	5	373	573	76	497
Hamilton	7331	1459	5872	1013	293	720	966	497	469	536	365	171	2848	73	2775	720	27	693	1080	126	954
Hancock	5318	809	4509	727	181	546	504	256	248	241	165	76	2799	76	2723	414	9	405	491	60	431
Hardin	8351	1746	6605	1231	325	906	1231	585	646	648	466	182	3084	192	2892	913	31	882	1090	108	982
Harrison	6851	1222	5629	895	314	581	732	355	377	512	357	155	3158	95	3063	597	17	580	836	38	798
Henry	6174	1333	4841	989	279	710	824	452	372	643	388	255	2097	22	2075	649	11	638	883	156	727
Howard	4671	878	3793	676	213	463	443	231	212	268	192	76	2378	159	2219	363	8	355	475	56	419
Humboldt	4859	882	3977	697	211	486	539	284	255	334	225	109	2126	43	2083	487	13	474	599	74	525
Ida	4106	657	3449	503	122	381	400	218	182	234	168	66	2220	98	2122	323	9	314	365	25	340
Iowa	5724	1064	4660	698	210	488	560	293	267	296	209	87	2832	123	2709	470	15	455	657	87	570
Jackson	7074	1585	5489	865	295	570	695	347	348	466	307	159	3316	402	2914	633	22	611	1051	192	859
Jasper	12711	2789	9922	1679	491	1188	1868	1062	806	749	436	313	3731	259	3472	1532	48	1484	2897	363	2534
Jefferson	5745	1166	4579	922	267	655	778	384	394	380	227	153	1882	51	1831	617	14	603	1056	175	881
Johnson	16846	5155	11691	4064	1494	2570	2882	1656	1226	2752	1332	1420	3431	280	3151	1586	55	1531	1819	213	1606
Jones	7132	1562	5570	848	250	598	707	377	330	531	333	198	3258	287	2971	599	23	576	1117	257	860
Keokuk	5987	1134	4853	780	220	560	556	267	289	323	213	110	2802	80	2722	483	4	479	622	34	588
Kossuth	9173	1601	7572	1188	326	862	1046	483	563	517	348	169	4379	48	4331	751	11	740	875	118	757
Lee	16477	4531	11946	2575	722	1853	2812	1559	1253	1661	840	821	2149	74	2075	2320	98	2222	4662	1136	3526
Linn	44514	13273	31241	8224	2231	5993	10051	5422	4629	4510	2995	1515	4772	776	3996	6515	205	6310	10143	1519	8624
Louisa	3805	588	3217	513	154	359	347	159	188	209	142	67	1731	43	1688	396	13	383	565	59	506
Lucas	4584	1111	3473	581	197	384	615	274	341	266	184	82	1967	266	1701	374	11	363	709	139	570
Lyon	5335	974	4361	638	192	446	470	223	247	246	173	73	3040	283	2757	391	11	380	437	32	405
Madison	4782	871	3911	560	156	404	507	284	223	278	194	84	2544	181	2363	337	5	332	511	34	477
Mahaska	9431	2249	7182	1344	416	928	1368	702	666	704	487	217	3224	247	2977	1020	26	994	1610	304	1306
Marion	8753	1916	6837	1253	399	854	1091	541	550	1011	447	564	2797	199	2598	777	19	758	1730	279	1451
Marshall	14202	3732	10470	2314	710	1604	2576	1346	1230	1387	949	438	3046	133	2913	1821	58	1763	2910	479	2431
Mills	4412	893	3519	576	201	375	425	214	211	366	263	103	1888	50	1838	415	6	409	671	131	540
Mitchell	5086	969	4117	606	186	420	548	280	268	278	196	82	2331	63	2268	443	12	431	771	177	594
Monona	5598	907	4691	751	214	537	558	291	267	410	286	124	2676	36	2640	562	11	551	560	38	522
Monroe	4207	827	3380	540	189	351	428	215	213	251	131	120	1809	229	1580	263	6	257	869	40	829
Montgomery	5773	1264	4509	838	241	597	849	412	437	347	201	146	1990	95	1895	670	16	654	999	267	732
Muscatine	12323	3203	9120	1873	506	1367	1953	996	957	1005	638	367	2335	111	2224	1493	40	1453	3485	842	2643

Table 5. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1950 (continued).

County	Employed		Professional, Technical, Mgrs, and Administrators		Sales and Clerical		Service		Farmers, Farm Managers, Farm Laborers/Foremen		Craftsmen and Foremen		Operators and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
O'Brien	6684	1204	5480	1075	255	820	848	400	448	418	295	123	2795	98	2697	652	12	640	797	105	692
Osceola	3750	659	3091	463	145	318	410	182	228	198	142	56	1960	121	1839	289	5	284	403	54	349
Page	9036	2348	6688	1361	370	991	1626	943	683	827	539	288	2794	74	2720	869	29	840	1416	328	1088
Palo Alto	5711	1166	4545	795	240	555	562	297	265	351	245	106	2723	129	2594	460	12	448	561	52	509
Plymouth	9043	1807	7236	1068	355	713	974	491	483	605	401	204	4513	313	4200	731	18	713	1012	185	827
Pocahontas	5683	1086	4597	765	239	526	590	284	306	325	250	75	2662	26	2636	459	11	448	556	56	500
Polk	94899	31293	63606	19849	5406	14443	28622	15689	12933	10193	5988	4205	3211	184	3027	13300	513	12787	18570	3033	15537
Pottawattamie	26708	6859	19849	4002	1321	2681	5740	2868	2872	2186	1367	819	4752	256	4496	3810	93	3717	5881	824	5057
Poweshiek	6963	1641	5322	1117	333	784	820	472	348	545	374	171	2807	198	2609	597	17	580	881	160	721
Ringgold	3595	639	2956	420	150	270	273	141	132	163	104	59	2115	160	1955	202	6	196	291	30	261
Sac	6482	1240	5242	985	276	709	732	364	368	420	300	120	2881	154	2727	567	14	553	794	97	697
Scott	40415	11069	29346	7334	1852	5482	9209	4816	4393	4056	2339	1717	2776	173	2603	6606	203	6403	10007	1529	8478
Shelby	5543	836	4707	682	192	490	548	234	314	292	178	114	2958	145	2813	438	8	430	525	60	465
Sioux	8993	1581	7412	1304	372	932	944	463	481	508	353	155	4305	204	4101	831	17	814	998	127	871
Story	16677	4849	11828	4608	1179	3429	3138	1958	1180	2088	1125	963	3262	188	3074	1501	42	1459	1927	304	1623
Tama	8407	1801	6606	1035	303	732	847	451	396	535	390	145	4048	450	3598	705	13	692	1116	135	981
Taylor	4528	753	3775	592	200	392	400	188	212	267	188	79	2424	72	2352	339	11	328	449	78	371
Union	5737	1202	4535	887	249	638	944	405	539	449	290	159	1760	36	1724	616	20	596	994	175	819
Van Buren	4607	1325	3282	579	174	405	317	172	145	181	114	67	2039	205	1834	286	4	282	523	69	454
Wapello	17599	4444	13155	2790	842	1948	3434	1706	1728	1602	987	615	1913	142	1771	2390	51	2339	5236	622	4614
Warren	6383	1313	5070	887	292	595	852	465	387	419	278	141	2719	171	2548	590	15	575	826	55	771
Washington	7363	1661	5702	1049	316	733	982	494	488	508	354	154	3113	246	2867	683	16	667	863	163	700
Wayne	4478	981	3497	577	179	398	380	189	191	193	131	62	2294	275	2019	267	14	253	554	53	501
Webster	17381	4392	12989	2935	859	2076	3384	1669	1715	1396	883	513	3413	201	3212	2019	53	1966	3842	540	3302
Winnebago	4810	885	3925	770	225	545	527	261	266	321	242	79	2177	72	2105	436	10	426	489	54	435
Winneshiek	8075	1665	6410	1095	337	758	881	475	406	527	334	193	4005	335	3670	612	15	597	837	126	711
Woodbury	42088	12564	29524	8286	2495	5791	9535	4692	4843	4305	2585	1720	4038	134	3904	5548	193	5355	9902	2275	7627
Worth	3945	492	3453	520	141	379	285	132	153	191	145	46	2079	28	2051	360	8	352	462	27	435
Wright	6931	1293	5638	1085	288	797	891	422	469	452	321	131	2725	88	2637	730	9	721	911	108	803
State of Iowa	1002180	244745	757435	160329	46549	113780	167630	87603	80027	82852	52174	30678	280741	18711	262030	113281	3223	110058	179839	28585	151254

Table 6. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1940.

County	Employed		Professionals, Semi-profess., Sales Mgrs, Proprietors and Clerical						Service			Farmers, Farm Managers, Farm Laborers/Foremen			Craftsmen and Foremen		Operators and Laborers				
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Adair	4403	530	3873	578	207	371	252	115	137	221	167	54	2745	12	2733	197	2	195	386	14	372
Adams	3463	446	3017	416	136	280	219	100	119	207	147	60	2084	23	2061	134	1	133	370	27	343
Allamakee	5619	765	4854	753	216	537	411	150	261	401	301	100	3204	35	3169	248	7	241	537	34	503
Appanoose	6712	1093	5619	1116	356	760	697	287	410	488	340	148	2176	31	2145	451	9	442	1708	52	1656
Audubon	4129	591	3538	545	197	348	281	115	166	251	194	57	2487	52	2435	218	1	217	325	22	303
Benton	7572	1163	6409	1048	294	754	621	261	360	582	455	127	3847	38	3809	488	12	476	903	63	840
Black Hawk	31338	7483	23855	4582	1162	3420	5810	2553	3257	3231	2257	974	3548	47	3501	5098	48	5050	8802	1336	7466
Boone	9358	1737	7621	1474	414	1060	1068	475	593	892	632	260	3355	60	3295	882	17	865	1645	124	1521
Bremer	6010	911	5099	886	221	665	550	215	335	438	322	116	3005	58	2947	395	4	391	679	63	616
Buchanan	6703	1175	5528	941	302	639	572	250	322	633	462	171	3417	44	3373	410	7	403	689	97	592
Buena Vista	6974	1188	5786	1148	310	838	747	282	465	623	445	178	3122	30	3092	453	5	448	788	76	712
Butler	5971	836	5135	837	270	567	403	169	234	376	301	75	3377	44	3333	346	5	341	559	22	537
Calhoun	5779	895	4884	956	270	686	485	206	279	465	343	122	2934	22	2912	350	3	347	543	35	508
Carroll	7551	1421	6130	1299	421	878	847	326	521	738	540	198	3311	31	3280	470	5	465	797	75	722
Cass	6475	1142	5333	1023	305	718	802	303	499	530	407	123	2929	27	2902	413	8	405	734	76	658
Cedar	5844	768	5076	775	204	571	367	138	229	414	332	82	3420	60	3360	321	4	317	504	16	488
Cerro Gordo	15585	3749	11836	2741	741	2000	3020	1296	1724	1674	1164	510	3110	69	3041	1605	18	1587	3347	430	2917
Cherokee	6085	1045	5040	905	280	625	563	231	332	627	434	193	2893	31	2862	375	3	372	645	35	610
Chickasaw	5305	818	4487	782	257	525	386	179	207	359	261	98	3040	71	2969	262	5	257	444	27	417
Clarke	3192	464	2728	458	156	302	268	104	164	196	140	56	1853	31	1822	156	2	154	240	25	215
Clay	6269	1139	5130	1010	303	707	795	357	438	483	345	138	2846	31	2815	438	7	431	622	59	563
Clayton	8125	1159	6966	1146	328	818	526	219	307	539	409	130	4617	96	4521	443	7	436	785	66	719
Clinton	16167	3309	12858	2472	741	1731	2271	947	1324	1410	903	507	4125	47	4078	1981	33	1948	3827	611	3216
Crawford	6701	931	5770	962	318	644	510	184	326	477	349	128	3903	40	3863	330	3	327	485	24	461
Dallas	8107	1286	6821	1303	392	911	843	327	516	659	471	188	3199	23	3176	683	5	678	1356	45	1311
Davis	3482	457	3025	399	137	262	243	104	139	196	153	43	2197	35	2162	162	1	161	241	16	225
Decatur	4116	626	3490	629	221	408	306	125	181	272	199	73	2255	35	2220	232	6	226	362	28	334
Delaware	6061	895	5166	793	246	547	464	173	291	454	364	90	3413	42	3371	301	2	299	578	36	542
Des Moines	13305	3170	10135	2141	627	1514	2331	943	1388	1298	822	476	2415	52	2363	1753	25	1728	3185	639	2546
Dickinson	4100	669	3431	734	199	535	396	156	240	382	264	118	1829	21	1808	281	3	278	445	18	427
Dubuque	21997	5826	16171	3912	1299	2613	3885	1641	2244	2422	1656	766	3744	98	3646	2521	48	2473	5337	1010	4327
Emmet	4576	774	3802	733	205	528	548	211	337	393	288	105	1928	26	1902	380	4	376	571	32	539
Fayette	9514	1355	8159	1364	396	968	939	370	569	625	441	184	4413	50	4363	902	7	895	1208	71	1137
Floyd	7097	1250	5847	1064	321	743	799	354	445	539	417	122	2681	33	2648	792	8	784	1054	47	1007
Franklin	5569	707	4862	709	219	490	404	160	244	341	256	85	3320	23	3297	282	0	282	449	19	430

Table 6. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1940 (continued).

County	Employed		Professionals, Semi-profess., Mgrs, Proprietors			Sales and Clerical			Service			Farmers, Farm Managers, Farm Laborers/Foremen			Craftsmen and Foremen			Operators and Laborers			
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Fremont	4600	725	3875	654	214	440	381	177	204	333	254	79	2611	40	2571	237	2	235	354	21	333
Greene	5710	922	4788	844	260	584	526	229	297	411	312	99	3051	64	2987	300	8	292	529	28	501
Grundy	4924	657	4267	640	190	450	313	118	195	304	240	64	2953	56	2897	268	3	265	379	29	350
Guthrie	5499	768	4731	828	269	559	401	154	247	349	257	92	3119	38	3081	281	3	278	469	25	444
Hamilton	6704	1077	5627	996	266	730	676	296	380	530	372	158	3180	40	3140	492	10	482	790	84	706
Hancock	5271	699	4572	679	206	473	341	128	213	330	250	80	3175	49	3126	264	4	260	439	40	399
Hardin	7500	1279	6221	1298	355	943	845	325	520	660	473	187	3161	30	3131	566	9	557	899	64	835
Harrison	6723	991	5732	995	334	661	563	227	336	480	331	149	3556	58	3498	418	2	416	667	25	642
Henry	5519	964	4555	886	249	637	507	233	274	506	323	183	2558	37	2521	370	10	360	627	94	533
Howard	4652	710	3942	661	203	458	363	160	203	345	265	80	2633	34	2599	261	7	254	367	30	337
Humboldt	4439	711	3728	727	233	494	354	135	219	339	241	98	2230	38	2192	265	3	262	449	28	421
Ida	3837	587	3250	564	173	391	311	142	169	277	204	73	2115	12	2103	189	4	185	304	25	279
Iowa	5954	820	5134	784	240	544	435	168	267	359	252	107	3380	60	3320	341	1	340	620	86	534
Jackson	6339	979	5360	882	294	588	489	201	288	486	372	114	3397	48	3349	425	11	414	620	37	583
Jasper	10195	1628	8567	1414	426	988	1109	506	603	751	513	238	4008	32	3976	993	19	974	1772	93	1679
Jefferson	5462	943	4519	855	244	611	584	249	335	437	305	132	2247	26	2221	462	6	456	822	90	732
Johnson	12336	3302	9034	3014	1175	1839	1659	845	814	1585	1043	542	3771	46	3725	911	20	891	1301	139	1162
Jones	6708	1237	5471	872	252	620	510	218	292	562	346	216	3527	184	3343	353	7	346	831	212	619
Keokuk	5881	701	5180	857	232	625	401	171	230	331	228	103	3332	27	3305	343	1	342	558	22	536
Kossuth	8752	1262	7490	1258	355	903	747	284	463	678	512	166	4892	36	4856	462	3	459	646	40	606
Lee	13698	3235	10463	2077	550	1527	2030	951	1079	1425	770	655	2630	43	2587	1590	28	1562	3752	814	2938
Linn	33254	8153	25101	5959	1515	4444	7070	3001	4069	3826	2546	1280	4704	89	4615	4315	69	4246	7208	865	6343
Louisa	3509	489	3020	494	153	341	276	116	160	219	154	65	1916	32	1884	180	8	172	381	15	366
Lucas	3936	550	3386	561	181	380	395	146	249	231	166	65	1976	22	1954	228	5	223	476	16	460
Lyon	5054	650	4404	699	223	476	329	127	202	298	229	69	3043	40	3003	238	3	235	417	20	397
Madison	4656	636	4020	555	180	375	381	142	239	325	245	80	2678	43	2635	238	1	237	444	13	431
Mahaska	8589	1572	7017	1361	420	941	989	422	567	635	434	201	3606	59	3547	618	12	606	1298	193	1105
Marion	7913	1294	6619	1198	378	820	707	296	411	824	421	403	3119	42	3077	445	5	440	1484	115	1369
Marshall	12269	2570	9699	2007	615	1392	1759	765	994	1175	820	355	3454	70	3384	1457	23	1434	2276	227	2049
Mills	4335	768	3567	608	215	393	316	133	183	432	330	102	2223	26	2197	277	10	267	457	50	407
Mitchell	4895	819	4076	675	212	463	386	170	216	368	292	76	2649	73	2576	283	5	278	493	57	436
Monona	5841	893	4948	840	255	585	456	189	267	427	328	99	3122	55	3067	331	1	330	615	43	572
Monroe	3981	559	3422	562	174	388	359	160	199	234	171	63	1923	16	1907	172	3	169	670	17	653
Montgomery	5284	960	4324	868	261	607	631	269	362	448	307	141	2245	19	2226	416	17	399	647	71	576
Muscatine	10990	2432	8558	1576	419	1157	1349	553	796	989	651	338	2773	32	2741	1057	18	1039	3160	730	2430

Table 6. General Occupational Categories for Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1940 (continued).

County	Employed		Professionals, Semi-profess., Mgrs, Proprietors			Sales and Clerical			Service			Farmers, Farm Managers, Farm Laborers/Foremen			Craftsmen and Foremen			Operators and Laborers			
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
O'Brien	6644	1126	5518	1040	277	763	692	262	430	582	434	148	3077	40	3037	468	7	461	693	67	626
Osceola	3535	479	3056	476	148	328	257	94	163	228	178	50	2035	32	2003	192	2	190	323	15	308
Page	8613	1959	6654	1373	403	970	1316	704	612	922	635	287	3377	56	3321	559	12	547	993	116	877
Palo Alto	5094	722	4372	760	231	529	432	162	270	345	259	86	2789	38	2751	258	7	251	463	12	451
Plymouth	7860	1142	6718	1055	349	706	659	239	420	583	434	149	4451	41	4410	390	3	387	626	39	587
Pocahontas	5426	771	4655	835	253	582	431	185	246	360	265	95	3028	29	2999	269	1	268	475	27	448
Polk	70003	21173	48830	13786	3616	10170	20474	9337	11137	9982	5430	4552	3562	55	3507	7968	199	7769	13306	2195	11111
Pottawattamie	21079	4517	16562	3458	1182	2276	3971	1565	2406	1995	1270	725	5370	81	5289	2520	38	2482	3602	319	3283
Poweshiek	6248	1032	5216	914	285	629	586	236	350	473	338	135	3041	20	3021	425	13	412	734	114	620
Ringgold	3488	415	3073	476	188	288	232	81	151	145	95	50	2211	32	2179	159	2	157	211	5	206
Sac	5980	966	5014	914	265	649	505	215	290	508	376	132	3068	16	3052	362	7	355	535	46	489
Scott	32654	7808	24846	5288	1343	3945	7071	3006	4065	3693	2269	1424	3387	75	3312	5180	90	5090	7907	981	6926
Shelby	5431	713	4718	682	211	471	379	153	226	344	253	91	3247	47	3200	274	3	271	466	25	441
Sioux	8400	1137	7263	1209	360	849	577	196	381	571	436	135	4774	95	4679	456	3	453	717	15	702
Story	12063	2883	9180	2790	708	2082	1889	1004	885	1331	888	443	3490	52	3438	951	12	939	1389	129	1260
Tama	7668	1125	6543	1093	299	794	530	219	311	539	421	118	4098	75	4023	499	9	490	855	79	776
Taylor	4734	726	4008	645	237	408	362	151	211	325	253	72	2717	40	2677	238	5	233	415	30	385
Union	5162	965	4197	968	274	694	680	279	401	465	313	152	1931	20	1911	452	4	448	601	52	549
Van Buren	3791	534	3257	589	194	395	227	95	132	196	137	59	2204	51	2153	178	1	177	370	43	327
Wapello	14522	2988	11534	2311	635	1676	2477	968	1509	1332	844	488	2197	27	2170	1592	16	1576	4477	455	4022
Warren	5717	764	4953	830	277	553	427	163	264	338	233	105	3126	32	3094	303	3	300	586	24	562
Washington	6824	1234	5590	1042	316	726	712	278	434	548	395	153	3204	53	3151	426	8	418	836	161	675
Wayne	3999	523	3476	601	192	409	301	119	182	230	158	72	2165	24	2141	209	3	206	454	18	436
Webster	14190	3037	11153	2432	713	1719	2511	1026	1485	1339	878	461	3706	47	3659	1283	20	1263	2774	293	2481
Winnebago	4740	748	3992	723	220	503	385	161	224	353	275	78	2487	35	2452	307	5	302	453	43	410
Winneshiek	7608	1044	6564	1043	293	750	558	231	327	530	383	147	4381	66	4315	395	2	393	623	42	581
Woodbury	36179	9903	26276	7144	2096	5048	7926	3135	4791	4590	2909	1681	4826	444	4382	3979	79	3900	7392	1032	6360
Worth	3932	534	3398	519	156	363	240	105	135	247	197	50	2286	47	2239	252	2	250	345	14	331
Wright	6734	1067	5667	1013	298	715	674	252	422	530	408	122	3173	43	3130	548	1	547	724	40	684
State of Iowa	862781	170350	692431	138391	40611	97780	120058	51053	69005	79369	53302	26067	305107	4797	300310	75891	1223	74668	135716	16259	119457

Table 7. Percentages in Occupational Categories for Total Employed and Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1990.

County	Total						Females						Males					
	MPS*	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL
Adair	16.4	22.7	12.4	21.0	8.9	18.6	21.6	36.1	22.7	4.8	1.6	13.2	12.4	12.7	4.6	33.1	14.4	22.8
Adams	15.0	23.8	14.6	20.6	7.4	18.6	16.9	41.2	25.1	5.0	1.9	10.0	13.6	10.5	6.7	32.5	11.6	25.1
Allamakee	14.8	19.5	14.9	19.4	12.1	19.3	18.3	28.5	26.6	7.0	3.3	16.3	11.9	12.1	5.3	29.6	19.4	21.8
Appanoose	19.3	25.0	16.1	8.4	10.4	20.9	21.7	37.7	24.7	0.8	1.3	13.7	17.3	14.6	9.0	14.6	17.9	26.7
Audubon	15.7	24.3	17.4	21.4	7.1	14.1	18.3	37.1	30.6	5.9	1.8	6.3	13.6	14.0	6.7	33.9	11.4	20.4
Benton	16.2	24.9	14.4	11.9	13.5	19.1	20.1	36.2	23.3	3.0	5.0	12.4	13.0	15.6	7.0	19.2	20.5	24.7
Black Hawk	23.2	31.1	16.9	2.2	11.0	15.4	24.5	43.3	22.9	0.9	1.9	6.4	22.1	20.1	11.5	3.4	19.3	23.6
Boone	18.6	27.8	16.9	6.7	12.2	17.8	21.2	40.3	25.2	2.7	1.1	9.5	16.2	16.6	9.4	10.4	22.1	25.3
Bremer	21.9	25.1	15.2	8.9	12.1	16.9	26.3	36.4	24.2	3.4	1.1	8.7	18.3	16.1	8.0	13.2	20.8	23.5
Buchanan	17.9	23.2	15.0	13.6	13.8	16.7	22.4	38.7	25.2	4.5	2.8	6.3	14.3	11.2	7.1	20.6	22.2	24.6
Buena Vista	20.0	25.6	14.7	10.6	14.2	14.8	22.7	38.9	24.2	2.4	4.8	7.1	18.0	15.5	7.5	16.9	21.4	20.7
Butler	15.8	22.2	14.7	18.5	11.0	17.8	18.2	35.9	27.6	5.6	1.8	10.9	13.9	11.7	4.9	28.5	17.9	23.1
Calhoun	19.2	23.5	17.9	15.3	10.0	14.0	22.3	33.1	31.7	3.8	2.1	6.8	16.7	15.5	6.5	24.8	16.5	20.0
Carroll	18.3	27.2	15.5	13.3	10.4	15.2	21.5	38.4	27.0	2.3	3.1	7.7	15.7	17.9	5.9	22.5	16.6	21.5
Cass	20.1	27.7	14.1	13.1	10.8	14.1	21.1	40.5	24.5	3.4	1.4	9.1	19.2	16.9	5.4	21.4	18.7	18.4
Cedar	17.1	26.7	12.3	12.9	10.7	20.3	21.1	39.1	19.6	4.5	3.5	12.2	13.9	16.5	6.3	19.7	16.6	26.9
Cerro Gordo	22.7	29.9	16.3	3.8	9.3	18.0	24.1	39.3	22.6	1.2	2.9	9.9	21.4	21.0	10.5	6.2	15.4	25.5
Cherokee	15.9	23.7	15.7	13.7	11.3	19.6	18.6	37.4	26.1	2.7	2.9	12.3	13.8	12.8	7.4	22.5	18.1	25.4
Chickasaw	15.2	21.2	14.8	14.8	11.8	22.1	17.1	32.6	26.1	5.0	2.8	16.4	13.7	12.3	5.8	22.5	18.9	26.7
Clarke	17.2	23.7	14.8	11.2	12.5	20.6	21.6	30.4	23.4	2.3	5.4	16.8	13.2	17.9	7.3	19.0	18.7	23.9
Clay	20.0	29.2	12.1	9.4	11.1	18.2	24.0	42.1	18.6	3.2	2.4	9.6	16.6	18.1	6.7	14.6	18.5	25.4
Clayton	14.4	19.4	11.4	22.2	12.2	20.4	18.0	30.4	21.9	9.8	5.0	14.8	11.7	10.8	3.3	31.7	17.7	24.7
Clinton	18.0	28.5	14.3	5.2	12.5	21.6	20.3	45.0	20.7	1.5	2.0	10.5	16.2	15.3	9.2	8.1	20.9	30.3
Crawford	17.0	24.4	14.8	14.3	11.5	18.1	21.2	39.4	26.1	3.8	2.9	6.6	13.9	13.3	6.5	22.0	17.7	26.6
Dallas	20.9	33.3	15.1	6.7	10.4	13.7	24.4	45.1	22.7	1.4	1.4	5.0	17.8	22.9	8.4	11.3	18.2	21.3
Davis	16.2	20.9	13.0	17.7	10.2	22.1	19.6	34.7	26.1	7.6	3.9	8.1	13.5	10.4	3.2	25.3	14.9	32.8
Decatur	20.3	21.8	16.3	13.4	8.9	19.3	22.6	28.7	26.9	3.6	3.2	15.0	18.3	16.1	7.4	21.5	13.7	23.0
Delaware	14.3	22.3	12.9	19.8	12.5	18.3	16.3	34.0	23.6	8.9	5.2	12.0	12.7	13.4	4.8	28.0	18.0	23.0
Des Moines	21.6	26.3	14.3	2.5	13.9	21.5	24.5	37.7	18.8	0.5	4.9	13.6	19.0	16.4	10.3	4.3	21.7	28.3
Dickinson	22.8	27.0	13.3	8.5	11.3	17.1	23.7	38.1	20.1	2.2	3.1	13.0	22.1	17.6	7.6	13.8	18.3	20.6
Dubuque	22.6	28.3	16.3	5.5	10.5	16.8	24.1	41.0	22.6	2.2	1.6	8.5	21.2	17.2	10.7	8.5	18.3	24.1
Emmet	18.6	26.9	16.7	10.5	10.4	16.9	22.4	40.8	26.7	3.3	1.1	5.6	15.5	15.6	8.6	16.3	18.0	26.0
Fayette	17.6	22.8	13.5	18.8	10.7	16.7	20.5	34.1	24.2	6.5	3.7	11.1	15.4	14.3	5.4	28.1	15.9	20.9
Floyd	19.1	24.9	17.2	11.5	9.2	18.1	21.0	35.7	29.4	2.8	2.2	8.9	17.4	15.8	7.0	18.8	15.1	25.9
Franklin	18.7	22.2	14.8	19.0	8.5	16.9	23.3	34.7	24.4	8.2	1.6	7.8	14.9	12.1	7.0	27.7	14.0	24.2
Fremont	17.7	23.4	14.2	16.3	12.3	16.2	26.0	36.9	24.1	2.6	2.8	7.6	10.9	12.4	6.1	27.3	20.1	23.2
Greene	20.8	23.2	14.6	16.5	9.9	15.1	25.8	34.9	24.7	5.0	2.0	7.6	16.6	13.5	6.2	26.0	16.4	21.3
Grundy	19.4	23.4	14.6	15.7	10.5	16.5	23.3	36.0	26.8	3.1	1.7	9.2	16.4	13.7	5.3	25.3	17.2	22.1
Guthrie	17.8	27.0	13.9	11.7	13.1	16.5	22.3	41.7	24.0	2.9	3.5	5.6	14.1	15.2	5.8	18.9	20.7	25.3
Hamilton	17.3	25.9	14.0	12.5	11.2	19.1	19.2	40.2	21.3	2.0	3.7	13.6	15.8	14.1	8.0	21.1	17.4	23.6
Hancock	17.6	22.2	15.3	16.6	10.7	17.7	20.4	34.3	26.1	4.5	3.3	11.4	15.5	12.6	6.8	26.1	16.5	22.5
Hardin	20.8	26.3	14.1	11.4	10.4	16.9	22.7	36.0	24.6	3.9	2.3	10.4	19.3	18.3	5.5	17.6	17.1	22.2
Harrison	16.7	26.3	16.3	11.9	11.2	17.5	21.1	39.5	26.8	1.7	2.0	8.8	12.9	14.9	7.4	20.7	19.1	24.9
Henry	18.3	24.8	16.5	7.5	11.7	21.2	19.5	36.8	25.0	1.8	2.5	14.4	17.4	14.5	9.3	12.3	19.6	27.0
Howard	16.2	17.1	15.2	22.5	9.5	19.6	19.1	27.2	29.0	10.3	2.0	12.4	14.1	9.7	5.0	31.5	14.9	24.8
Humboldt	18.0	27.9	12.2	11.7	11.9	18.3	23.4	40.1	22.9	3.2	2.1	8.4	14.0	18.8	4.4	18.0	19.1	25.7
Ida	17.8	23.7	12.8	20.4	10.9	14.3	22.8	36.3	25.7	7.4	2.0	5.8	14.1	14.3	3.1	30.2	17.6	20.7
Iowa	17.3	22.5	16.4	13.3	12.2	18.3	20.4	32.4	26.9	4.5	5.6	10.2	14.7	13.9	7.5	20.8	17.9	25.2
Jackson	16.1	21.8	13.7	12.6	14.4	21.5	18.8	33.2	22.7	3.9	6.5	15.0	13.9	12.5	6.3	19.7	20.9	26.8
Jasper	18.2	28.0	13.4	7.1	13.8	19.6	20.7	43.1	21.5	2.0	3.0	9.7	16.1	15.5	6.7	11.4	22.6	27.7

*See Table 1 for the category titles; generally, first letters of occupations have been used.

Table 7. Percentages in Occupational Categories for Total Employed and Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1990 (continued).

County	Total						Females						Males					
	MPS*	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL
Jefferson	27.7	28.0	12.0	6.7	11.8	13.8	29.3	36.6	19.4	1.7	3.6	9.4	26.5	21.3	6.1	10.5	18.3	17.3
Johnson	34.7	31.4	16.5	2.6	6.3	8.5	34.3	39.8	19.2	0.8	1.6	4.2	35.0	23.6	14.0	4.3	10.7	12.4
Jones	16.1	22.4	14.2	16.1	12.2	19.1	20.3	33.9	22.4	5.7	4.9	12.9	12.8	13.2	7.7	24.3	17.9	24.0
Keokuk	15.6	21.2	14.3	17.4	12.2	19.3	22.6	31.6	25.3	3.9	4.6	12.0	10.3	13.2	5.9	27.7	18.1	24.8
Kossuth	17.8	22.8	14.1	19.5	9.3	16.6	22.7	35.4	26.3	4.7	1.7	9.2	14.0	13.0	4.7	30.9	15.2	22.2
Lee	17.6	24.5	15.8	4.6	12.3	25.3	19.7	36.5	22.3	1.2	3.1	17.2	15.8	14.5	10.3	7.4	20.0	31.9
Linn	26.8	33.5	13.0	1.8	10.8	14.2	26.0	43.9	17.6	0.7	3.5	8.2	27.5	24.2	8.9	2.7	17.2	19.4
Louisa	14.5	19.3	14.7	10.4	14.7	26.4	17.9	31.6	26.8	2.2	4.8	16.8	12.1	10.8	6.3	16.1	21.6	33.1
Lucas	15.3	25.9	13.3	12.3	8.8	24.4	17.1	38.6	23.3	5.3	1.6	14.1	13.8	15.4	5.1	18.1	14.6	33.0
Lyon	16.4	20.3	13.5	20.9	9.6	19.4	18.4	33.8	26.2	4.6	1.8	15.2	14.8	10.1	3.8	33.2	15.4	22.6
Madison	19.3	28.8	13.2	10.7	13.4	14.6	23.7	43.2	21.6	2.7	3.4	5.4	15.6	16.5	6.1	17.5	21.9	22.3
Mahaska	18.8	23.7	15.0	11.1	10.2	21.3	22.2	36.6	23.5	4.7	1.6	11.5	16.2	13.8	8.4	16.0	16.8	28.8
Marion	21.1	25.7	16.1	5.5	9.9	21.8	24.5	37.4	22.9	1.0	1.9	12.2	18.0	15.2	10.0	9.5	16.9	30.3
Marshall	22.3	28.1	16.1	5.0	11.8	16.7	23.9	40.0	24.5	1.7	2.9	7.1	21.0	17.9	9.0	7.9	19.3	24.8
Mills	20.3	25.1	22.0	8.2	11.4	13.0	25.5	34.5	30.8	1.9	1.4	5.9	15.7	16.7	14.2	13.8	20.3	19.3
Mitchell	16.1	21.9	12.3	15.4	10.9	23.4	20.8	31.8	24.1	4.8	3.3	15.3	12.4	14.1	2.9	23.8	16.9	29.9
Monona	18.7	24.2	16.1	17.6	10.6	12.9	20.8	38.8	28.9	3.8	2.3	5.3	17.0	12.5	5.8	28.5	17.1	19.0
Monroe	14.7	23.5	14.9	12.1	12.4	22.4	15.6	40.1	23.5	3.9	2.7	14.2	14.0	10.7	8.2	18.4	20.1	28.7
Montgomery	18.2	27.4	12.9	10.2	10.6	20.7	21.2	39.7	20.6	1.2	4.6	12.8	15.8	17.2	6.5	17.7	15.6	27.3
Muscatine	18.0	24.4	15.2	3.9	12.8	25.7	18.8	37.8	24.2	1.2	3.0	15.0	17.4	13.8	8.1	6.0	20.6	34.1
O'Brien	20.4	23.3	15.6	14.6	10.4	15.8	22.9	33.1	27.6	4.8	1.5	10.0	18.5	15.5	6.2	22.2	17.3	20.4
Osceola	16.8	19.4	12.5	19.7	9.3	22.2	20.8	33.4	22.3	4.2	2.1	17.3	13.9	9.4	5.4	30.9	14.6	25.9
Page	18.9	25.7	15.4	11.2	10.9	17.8	20.0	38.7	24.4	3.3	2.1	11.6	18.1	15.2	8.0	17.7	18.2	22.8
Palo Alto	17.6	20.9	17.7	16.5	10.1	17.2	23.2	30.3	29.5	4.0	3.9	9.1	13.1	13.6	8.6	26.2	14.9	23.5
Plymouth	18.6	25.7	14.2	14.2	10.1	17.1	22.5	38.0	22.7	3.3	3.2	10.4	15.7	16.2	7.8	22.6	15.4	22.2
Pocahontas	18.6	22.9	14.0	18.6	9.3	16.6	23.4	35.1	26.9	5.5	1.5	7.6	14.9	13.5	4.1	28.7	15.4	23.4
Polk	27.7	38.9	12.6	1.0	8.2	11.7	28.1	50.2	15.4	0.3	1.4	4.6	27.3	28.0	9.9	1.6	14.7	18.6
Pottawattamie	18.8	34.0	13.8	3.9	11.7	17.9	21.4	48.0	18.3	1.3	2.2	8.8	16.4	21.3	9.7	6.2	20.3	26.2
Poweshiek	21.1	27.3	14.6	9.6	10.8	16.6	21.8	40.3	21.9	4.0	1.1	10.8	20.5	16.0	8.2	14.6	19.2	21.6
Ringgold	17.4	20.2	14.8	22.0	10.2	15.4	24.4	31.8	28.4	3.8	2.5	9.1	12.0	11.5	4.6	35.7	15.9	20.1
Sac	16.9	21.3	14.8	19.4	10.9	16.7	22.5	33.7	27.4	4.3	3.3	8.8	12.6	11.9	5.3	30.8	16.6	22.7
Scott	26.1	32.4	13.8	1.5	10.8	15.4	27.8	43.1	18.7	0.5	2.5	7.3	24.5	23.0	9.6	2.3	18.1	22.6
Shelby	17.8	26.4	15.0	18.0	9.5	13.2	22.5	41.1	27.2	3.6	2.0	3.6	14.1	14.6	5.1	29.6	15.6	21.0
Sioux	18.9	25.3	14.9	14.1	10.0	16.7	21.5	36.6	25.9	3.2	2.4	10.5	16.8	16.2	6.0	23.0	16.2	21.7
Story	33.1	31.8	14.6	3.8	6.8	9.9	31.5	42.7	18.9	0.8	1.5	4.7	34.4	22.9	11.0	6.2	11.2	14.2
Tama	16.3	22.9	15.7	13.7	12.5	19.0	20.8	37.3	27.5	4.0	2.4	7.9	12.6	11.2	6.1	21.4	20.7	28.0
Taylor	13.8	20.9	13.9	19.7	10.8	20.9	20.0	32.2	25.4	4.9	2.8	14.7	9.3	12.8	5.7	30.3	16.5	25.4
Union	19.2	24.1	14.1	7.7	11.5	23.4	21.3	35.0	18.6	2.5	5.1	17.5	17.5	15.2	10.4	12.0	16.7	28.2
Van Buren	16.7	19.1	12.2	15.8	14.5	21.7	23.6	31.0	22.7	5.1	3.5	14.1	11.7	10.6	4.6	23.5	22.4	27.2
Wapello	18.8	27.6	16.5	3.8	12.3	21.0	22.2	38.6	25.9	1.9	2.1	9.4	16.0	18.3	8.6	5.4	20.9	30.8
Warren	21.6	36.9	13.0	4.5	10.9	13.0	24.1	51.9	16.5	1.5	1.5	4.6	19.3	23.5	9.9	7.2	19.4	20.6
Washington	16.1	26.0	17.3	10.9	10.8	18.8	19.6	35.7	27.9	2.8	2.3	11.8	13.1	17.7	8.3	17.9	18.2	24.8
Wayne	15.9	21.7	14.2	18.8	9.2	20.3	21.7	34.6	24.5	1.0	2.2	9.1	19.3	18.7	9.8	8.5	19.1	24.7
Webster	21.2	28.4	16.5	5.0	11.3	17.5	23.3	39.8	24.5	1.9	2.9	15.1	20.8	13.8	8.6	17.8	15.4	23.5
Winnebago	22.2	22.9	14.7	10.7	9.8	19.7	23.9	33.9	22.3	1.9	2.9	15.1	20.8	13.8	8.6	17.8	15.4	23.5
Winneshiek	18.9	22.9	17.5	17.1	9.7	13.9	19.3	31.7	28.5	7.0	5.2	8.2	18.6	15.3	8.1	25.8	13.5	18.8
Woodbury	22.3	31.7	15.4	2.8	12.3	15.4	25.1	42.9	21.1	0.5	3.4	7.0	20.0	22.0	10.5	4.9	20.0	22.6
Worth	14.3	25.0	13.7	14.5	10.8	21.7	17.5	37.0	25.9	2.8	4.0	12.8	11.6	15.0	3.7	24.2	16.4	29.1
Wright	17.5	26.3	12.4	11.5	10.0	22.3	20.7	39.7	22.0	2.2	2.5	12.9	14.9	15.3	4.4	19.1	16.2	30.1
State of Iowa	22.3	29.4	14.6	7.0	10.5	16.2	24.3	41.3	21.3	2.0	2.5	8.5	20.6	19.2	8.7	11.3	17.4	22.8

Table 8. Percentages in Occupational Categories for Total Employed and Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1980.

County	Total						Females						Males					
	MPS*	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL
Adair	13.7	18.8	12.9	29.2	10.2	15.2	17.6	36.4	27.2	10.0	1.6	7.1	11.4	8.3	4.3	40.7	15.4	20.0
Adams	20.9	20.8	10.0	26.0	8.4	13.9	24.7	33.0	19.6	12.1	1.4	9.0	18.0	11.8	3.0	36.2	13.5	17.5
Allamakee	16.9	16.1	13.3	27.0	11.5	15.3	18.3	25.5	25.7	13.0	2.0	15.4	15.9	9.4	4.6	36.8	18.1	15.2
Appanoose	17.9	23.6	15.8	12.1	13.3	17.3	18.0	35.4	28.0	5.1	2.0	11.5	17.7	15.0	6.9	17.3	21.5	21.5
Audubon	14.7	20.2	14.3	27.8	9.1	13.8	16.9	38.8	30.1	5.7	3.3	5.3	13.4	9.0	4.8	41.2	12.6	19.0
Benton	13.0	20.5	13.7	16.6	13.1	23.0	13.7	34.0	28.5	5.3	3.5	15.0	12.6	11.6	4.1	23.9	19.5	28.3
Black Hawk	20.4	27.8	14.4	2.3	13.7	21.4	21.0	44.4	22.9	1.2	2.6	7.9	19.9	15.9	8.2	3.1	21.7	31.0
Boone	17.7	24.8	15.9	10.5	11.5	19.6	18.7	39.1	26.2	3.0	2.0	11.0	16.9	14.1	8.3	16.0	18.6	26.0
Bremer	17.9	24.7	13.7	11.3	12.3	20.1	18.1	43.4	26.4	4.8	2.1	5.1	17.8	12.8	5.7	15.4	18.8	29.5
Buchanan	14.1	19.9	13.5	16.9	12.8	22.7	17.5	34.8	29.2	8.5	1.4	8.7	12.1	11.1	4.2	21.9	19.5	31.1
Buena Vista	18.8	24.6	14.9	16.3	11.3	14.1	18.6	39.5	27.2	5.3	2.4	7.1	18.9	14.6	6.7	23.6	17.3	18.9
Butler	14.0	19.6	12.2	21.8	12.7	19.7	16.2	37.4	27.5	11.2	1.5	6.2	12.7	9.0	3.0	28.2	19.4	27.7
Calhoun	17.0	21.2	14.4	22.3	10.7	14.4	19.6	37.3	30.8	2.9	2.7	6.7	15.5	11.5	4.5	34.0	15.5	19.0
Carroll	16.6	22.9	14.2	17.8	11.8	16.8	17.4	38.5	26.8	3.5	1.3	12.5	16.1	12.2	5.5	27.6	18.9	19.7
Cass	17.8	25.9	16.1	16.2	10.2	13.8	18.4	40.0	30.3	4.7	1.1	5.4	17.4	15.6	5.7	24.5	16.8	20.0
Cedar	17.8	19.6	12.5	18.5	13.5	18.2	19.9	35.0	24.3	6.6	3.6	10.6	16.4	9.6	4.8	26.2	19.8	23.1
Cerro Gordo	21.9	28.2	14.6	5.8	11.3	18.1	20.4	42.6	22.9	2.0	1.6	10.4	23.1	16.6	7.9	9.0	19.1	24.3
Cherokee	17.8	19.7	14.9	20.0	13.4	14.3	22.7	37.5	29.6	3.0	2.1	5.1	14.8	9.0	5.9	30.3	20.2	19.8
Chickasaw	14.9	19.8	12.1	18.4	12.3	22.4	14.6	34.8	24.8	8.9	2.1	14.8	15.1	10.5	4.2	24.4	18.7	27.0
Clarke	15.0	21.5	11.2	20.9	11.8	19.6	16.8	36.3	21.2	6.7	2.3	16.7	13.7	11.1	4.3	30.9	18.4	21.6
Clay	18.0	27.7	11.8	12.4	12.7	17.4	19.4	42.4	19.6	3.2	2.0	13.4	16.9	17.4	6.4	19.0	20.2	20.1
Clayton	13.9	17.3	10.9	28.3	10.6	19.0	15.1	28.2	22.5	15.7	3.0	15.5	13.2	10.2	3.3	36.4	15.6	21.3
Clinton	17.3	25.0	12.6	7.2	13.6	24.4	18.7	42.2	19.7	2.6	2.3	14.6	16.3	13.5	7.8	10.3	21.1	31.0
Crawford	14.5	18.6	14.6	20.1	15.0	17.2	14.3	35.6	29.2	6.4	4.5	9.9	14.6	8.6	5.9	28.1	21.2	21.5
Dallas	19.7	27.6	14.4	8.2	13.5	16.6	20.3	44.9	24.0	2.4	2.1	6.3	19.3	14.9	7.3	12.5	21.9	24.2
Davis	13.1	18.1	15.4	20.8	13.3	19.3	17.6	33.3	30.7	10.4	2.8	5.3	10.4	8.9	6.1	27.2	19.6	27.8
Decatur	18.3	21.0	19.1	16.1	9.2	16.3	19.1	34.2	30.6	3.1	1.9	11.1	17.7	10.8	10.2	26.2	14.8	20.3
Delaware	12.9	17.5	12.6	24.8	12.2	20.0	14.0	31.5	26.7	13.0	1.7	13.1	12.2	8.8	3.9	32.1	18.7	24.2
Des Moines	19.5	25.9	12.3	3.8	13.4	25.0	19.6	39.9	18.3	0.9	3.8	17.6	19.5	15.8	8.0	6.0	20.4	30.3
Dickinson	19.3	24.1	13.9	12.1	13.7	17.0	17.6	38.3	25.1	3.4	2.7	12.7	20.4	14.3	6.3	17.9	21.2	19.9
Dubuque	20.4	24.6	15.8	5.5	12.5	21.1	20.4	39.9	25.6	2.0	2.6	9.4	20.5	13.4	8.6	8.1	19.7	29.7
Emmet	16.5	23.4	13.3	12.7	13.4	20.8	16.4	40.3	25.6	3.4	3.1	11.2	16.5	12.6	5.5	18.5	20.0	26.9
Fayette	17.2	20.3	13.2	20.1	10.9	18.2	18.5	36.2	24.7	7.8	2.0	10.8	16.4	10.4	6.1	27.9	16.5	22.8
Floyd	17.5	22.4	15.1	15.1	11.0	18.9	19.5	36.8	28.6	6.3	1.6	7.2	16.2	13.1	6.3	20.9	17.1	26.6
Franklin	15.9	19.2	15.3	23.4	11.4	14.9	18.3	32.4	31.2	8.2	1.9	7.9	14.5	11.5	6.0	32.2	16.9	18.9
Fremont	15.1	17.6	12.8	21.9	11.3	21.3	19.9	33.8	24.3	6.8	2.1	13.1	12.0	6.8	5.2	32.0	17.4	26.8
Greene	19.8	20.1	14.2	21.4	9.1	15.3	22.5	35.1	27.1	6.7	0.8	7.8	17.9	9.6	5.1	31.9	15.0	20.6
Grundy	17.0	20.0	11.3	19.1	12.1	20.5	19.1	36.4	24.9	7.1	2.4	10.1	15.8	10.3	3.2	26.2	17.8	26.7
Guthrie	15.0	20.6	13.7	23.7	12.5	14.5	18.3	39.9	27.4	6.4	1.4	6.6	12.8	8.0	4.8	35.0	19.8	19.7
Hamilton	16.4	24.6	12.2	15.9	12.2	18.7	17.0	42.2	22.9	3.7	1.6	12.6	16.0	12.6	4.9	24.1	19.3	22.9
Hancock	15.9	21.0	14.1	23.3	12.7	13.0	17.6	35.9	27.5	7.1	3.2	8.8	14.9	11.9	5.9	33.2	18.6	15.5
Hardin	18.8	24.2	13.4	13.9	11.2	18.5	17.3	41.4	26.4	2.8	2.4	9.8	19.8	13.0	4.9	21.2	17.0	24.2
Harrison	15.3	22.3	15.2	19.1	12.6	15.5	19.0	38.9	29.1	4.6	1.5	6.9	12.9	11.7	6.3	28.4	19.7	20.9
Henry	17.5	24.0	15.8	11.3	12.7	18.7	16.4	37.6	25.7	3.8	2.2	14.4	18.4	13.4	8.2	17.1	20.9	22.0
Howard	14.0	17.6	13.0	25.8	11.8	17.8	13.3	28.0	29.7	13.5	2.0	13.5	14.4	11.2	2.5	33.5	17.9	20.5
Humboldt	16.1	23.1	13.7	18.6	12.6	15.9	18.8	42.6	26.7	6.4	0.3	5.2	14.6	11.6	6.0	25.7	19.8	22.2
Ida	17.6	19.3	11.5	27.9	10.4	13.2	23.1	34.6	25.5	8.2	1.6	6.9	14.3	10.3	3.3	39.5	15.6	17.0
Iowa	14.8	22.3	16.4	16.8	10.5	19.3	13.8	34.6	29.7	4.9	3.2	13.8	15.5	12.8	6.0	26.1	16.1	23.5
Jackson	15.2	18.8	12.5	15.3	12.9	25.4	17.4	30.2	24.2	7.4	4.1	16.7	13.7	11.2	4.6	20.6	18.7	31.2
Jasper	17.5	25.1	14.0	10.5	11.0	21.9	16.8	41.9	23.7	3.9	2.0	11.7	18.0	12.9	7.0	15.3	17.5	29.4

*See Table 2 for the category titles; generally, first letters of occupations have been used.

Table 8. Percentages in Occupational Categories for Total Employed and Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1980 (continued).

County	Total						Females						Males					
	MPS*	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL	MPS	TSA	Ser	FFF	PPCR	OFL
Jefferson	20.6	24.9	11.7	10.9	11.8	20.0	22.2	41.3	19.1	2.2	2.4	13.0	19.6	13.9	6.6	16.9	18.2	24.8
Johnson	31.2	30.4	16.4	3.9	8.1	9.9	29.9	41.7	20.7	1.2	1.6	5.0	32.5	20.1	12.6	6.5	14.0	14.3
Jones	15.1	20.1	12.1	17.7	13.2	21.7	17.3	33.5	21.2	5.4	5.1	17.4	13.6	11.4	6.2	25.6	18.5	24.6
Keokuk	14.6	18.1	14.4	23.3	10.0	19.7	17.2	31.7	28.9	6.7	1.7	13.7	12.9	9.5	5.3	33.7	15.1	23.4
Kossuth	14.7	19.9	12.2	24.0	10.8	18.4	15.1	36.8	25.8	7.4	2.7	12.2	14.5	9.8	4.2	33.8	15.6	22.1
Lee	16.7	23.8	12.8	6.2	14.0	26.4	15.1	39.5	19.9	1.9	2.2	21.2	17.9	12.7	7.8	9.3	22.3	30.1
Linn	22.5	31.1	12.2	2.2	12.1	19.9	19.3	45.4	17.7	0.8	3.0	13.8	24.9	20.0	7.9	3.3	19.1	24.7
Louisa	13.0	19.8	12.9	13.9	14.0	26.3	14.4	32.5	23.7	4.0	2.7	22.5	12.2	11.8	6.2	20.1	21.1	28.7
Lucas	16.3	24.5	13.8	13.1	12.8	19.5	17.7	43.9	26.1	2.3	2.6	7.3	15.3	11.5	5.6	20.3	19.6	27.6
Lyon	15.0	16.3	13.7	29.4	7.9	17.6	13.9	31.6	30.4	10.3	1.3	12.6	15.7	6.9	3.5	41.2	12.0	20.7
Madison	15.8	25.0	12.9	17.5	13.1	15.7	16.1	42.7	28.1	5.1	3.0	5.1	15.6	13.7	3.2	25.4	19.6	22.5
Mahaska	17.3	22.1	14.1	13.2	10.6	22.7	17.6	40.0	24.5	3.8	1.7	12.5	17.1	10.5	7.4	19.2	16.5	29.3
Marion	18.1	22.6	16.0	8.4	9.9	24.9	17.3	36.4	25.5	2.6	2.4	15.9	18.7	12.6	9.2	12.6	15.3	31.5
Marshall	21.0	27.0	14.5	7.5	12.4	17.6	21.6	40.8	24.1	2.6	2.8	8.1	20.5	17.0	7.5	11.0	19.4	24.5
Mills	21.1	19.4	20.5	12.7	11.4	14.9	22.6	32.6	34.6	2.4	2.0	5.7	19.9	9.5	10.0	20.4	18.4	21.8
Mitchell	15.8	16.4	16.3	23.6	11.9	16.0	19.7	26.1	34.6	7.8	2.0	9.9	13.4	10.3	4.6	33.6	18.3	19.9
Monona	14.5	19.3	15.2	27.9	10.2	13.0	16.7	35.1	34.2	5.8	3.2	5.0	13.2	10.3	4.3	40.4	14.1	17.6
Monroe	12.6	22.4	14.5	16.5	11.4	22.6	10.8	37.5	27.3	2.5	5.1	16.7	13.9	11.6	5.4	26.5	15.9	26.8
Montgomery	16.3	22.5	13.7	14.9	10.7	22.0	13.8	35.4	24.9	2.7	3.0	20.2	18.0	13.2	5.8	23.6	16.2	23.2
Muscatine	18.4	23.6	13.3	6.3	13.9	24.5	17.7	40.3	22.2	2.5	2.5	14.9	18.8	12.3	7.3	8.9	21.6	31.0
O'Brien	16.6	21.7	14.7	20.9	11.4	14.7	17.3	37.7	29.2	4.1	2.5	9.2	16.3	12.2	6.1	30.8	16.7	18.0
Osceola	14.4	16.4	12.5	26.7	9.4	20.6	14.0	32.5	27.3	5.1	3.2	18.0	14.7	6.7	3.6	39.6	13.2	22.2
Page	18.9	24.5	14.2	14.6	9.9	17.8	19.6	39.3	23.9	4.3	1.3	11.6	18.4	14.3	7.4	21.9	15.9	22.2
Palo Alto	17.6	20.9	13.6	20.3	11.4	16.2	18.1	37.7	27.6	5.0	2.0	9.6	17.2	10.1	4.6	30.1	17.4	20.5
Plymouth	16.6	23.9	13.3	21.2	11.2	13.8	18.2	40.7	27.2	3.7	3.6	6.6	15.7	13.3	4.5	32.2	16.0	18.3
Pocahontas	18.0	18.3	15.2	23.1	10.2	15.1	19.1	32.8	32.6	6.3	2.1	7.1	17.3	9.5	4.8	33.3	15.1	20.0
Polk	25.4	37.2	12.8	0.9	10.2	13.6	23.2	53.5	16.1	0.3	1.9	5.1	27.4	22.8	9.9	1.4	17.4	21.2
Pottawattamie	17.7	31.7	13.2	5.8	12.7	18.9	18.6	49.1	19.5	1.7	2.7	8.4	17.1	18.4	8.3	9.0	20.4	26.9
Poweshiek	19.2	25.2	14.0	13.9	9.4	18.3	18.6	40.3	24.8	2.7	1.8	11.7	19.6	13.9	5.9	22.3	15.1	23.2
Ringgold	15.9	16.2	15.2	30.1	8.6	14.0	20.1	27.1	31.5	7.7	1.9	11.7	13.3	9.2	4.7	44.5	12.8	15.5
Sac	16.5	18.3	13.1	23.0	12.5	16.6	18.0	33.5	29.1	4.9	2.3	12.1	15.5	9.3	3.7	33.7	18.5	19.3
Scott	22.7	30.5	13.1	1.9	13.3	18.7	21.1	47.0	19.4	0.9	2.7	8.9	23.8	18.7	8.5	2.5	20.8	25.6
Shelby	16.8	20.9	13.0	22.7	12.1	14.6	22.1	37.6	27.6	5.2	1.9	5.6	13.8	11.6	4.8	32.4	17.8	19.7
Sioux	16.8	19.8	14.8	18.9	11.8	18.1	16.2	33.5	28.9	4.4	2.3	14.6	17.1	11.0	5.7	28.1	17.8	20.3
Story	29.0	30.8	15.1	5.0	9.3	10.8	24.1	44.3	20.7	1.6	1.7	7.4	32.9	19.9	10.6	7.8	15.4	13.5
Tama	15.6	18.7	13.9	20.5	12.1	19.1	17.1	35.1	30.0	6.7	2.5	8.7	14.8	9.1	4.4	28.6	17.8	25.2
Taylor	12.7	19.4	14.2	25.6	10.1	18.0	15.0	33.2	28.8	6.5	2.3	14.3	11.2	10.3	4.6	38.3	15.2	20.4
Union	17.5	27.5	13.7	12.3	11.1	17.8	19.1	41.5	23.9	4.6	2.1	8.8	16.4	17.3	6.3	18.0	17.7	24.4
Van Buren	11.3	18.7	10.8	25.2	9.9	24.0	15.0	32.1	22.2	8.8	3.4	18.5	9.1	10.6	4.0	35.1	13.9	27.3
Wapello	18.6	25.5	14.8	4.5	13.5	23.1	18.8	42.1	25.9	1.9	1.8	9.5	18.4	14.3	7.4	6.3	21.4	32.3
Warren	19.3	34.0	11.1	6.7	12.5	16.5	20.2	53.4	17.6	1.5	1.7	5.7	18.6	19.8	6.3	10.5	20.3	24.4
Washington	17.2	22.0	13.9	15.2	13.0	18.7	18.0	36.3	25.1	4.0	2.0	14.5	16.6	11.7	5.8	23.2	20.9	21.7
Wayne	14.9	20.4	14.5	23.0	10.9	16.5	17.8	37.2	29.1	4.7	2.5	8.6	13.0	9.7	5.2	34.6	16.2	21.4
Webster	17.9	28.2	17.0	6.9	12.7	17.3	18.7	42.1	27.0	2.6	2.1	7.5	17.2	17.3	9.2	10.4	21.0	25.0
Winnebago	18.3	20.5	15.9	15.7	13.1	16.4	19.2	32.8	30.3	2.7	1.8	13.2	17.7	11.6	5.5	25.1	21.3	18.8
Winneshiek	15.8	19.8	15.5	23.0	12.2	13.6	18.1	32.3	26.6	10.5	1.9	10.6	14.2	10.7	7.2	32.3	19.8	15.9
Woodbury	22.6	30.6	14.2	3.9	13.0	15.7	21.7	45.9	21.8	0.9	3.1	6.6	23.3	19.2	8.6	6.1	20.3	22.6
Worth	14.8	22.1	12.9	19.4	13.2	17.6	15.8	39.9	25.5	4.4	2.4	12.0	14.2	10.1	4.4	29.5	20.5	21.4
Wright	18.0	20.7	12.3	17.3	11.8	19.9	18.9	35.1	25.3	6.1	1.3	13.4	17.4	11.6	4.1	24.4	18.5	24.1
State of Iowa	20.0	26.7	13.8	9.6	11.8	18.0	19.9	42.4	22.6	3.0	2.3	9.8	20.1	15.4	7.4	14.5	18.7	24.0

Table 9. Percentages in Occupational Categories for Total Employed and Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1970.

County	Total						Females						Males					
	PTMA*	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL
Adair	14.4	12.0	12.6	39.8	7.8	13.4	22.3	20.3	34.1	19.1	0.4	3.8	10.8	8.2	2.7	49.3	11.1	17.8
Adams	17.1	12.8	12.8	32.7	9.4	15.2	22.0	27.8	34.5	3.1	2.7	9.8	15.0	6.2	3.3	45.7	12.3	17.6
Allamakee	15.7	13.8	14.5	29.0	9.5	17.5	16.9	25.5	33.7	4.1	1.2	18.5	15.1	7.4	4.1	42.6	13.9	16.9
Appanoose	18.2	19.3	11.9	14.7	12.6	23.4	19.0	36.6	25.2	1.5	2.4	15.2	17.7	10.1	4.7	21.7	18.1	27.7
Audubon	16.1	13.6	12.0	33.8	8.6	15.9	25.5	25.5	33.2	1.7	1.3	12.7	12.1	8.4	3.0	47.5	11.7	17.3
Benton	14.5	17.0	14.0	22.3	11.1	21.0	14.5	33.4	33.6	3.6	1.2	13.8	14.6	9.1	4.7	31.3	15.9	24.4
Black Hawk	21.9	24.0	14.9	2.7	13.3	23.1	19.7	41.7	26.5	0.4	1.7	10.1	23.3	12.7	7.6	4.2	20.8	31.4
Boone	18.4	19.2	17.5	12.3	12.5	20.1	16.0	33.5	36.5	0.8	1.7	11.5	19.8	11.0	6.5	18.9	18.8	25.0
Bremer	22.8	17.5	14.7	16.0	10.9	18.1	21.8	36.6	27.8	5.7	2.7	5.4	23.4	7.2	7.7	21.6	15.2	24.9
Buchanan	15.7	13.7	16.0	22.4	10.5	21.7	18.3	28.9	37.5	5.5	0.7	9.1	14.4	6.0	5.0	31.1	15.4	28.1
Buena Vista	20.6	19.4	14.8	18.9	6.9	19.5	25.1	36.8	29.4	0.3	1.5	6.9	18.3	10.4	7.3	28.4	9.6	26.0
Butler	16.3	13.9	11.1	26.9	11.7	20.1	20.6	31.9	32.2	2.9	2.9	9.5	14.7	7.2	3.4	35.7	15.0	24.0
Calhoun	22.6	16.2	12.2	24.8	10.1	14.2	26.5	35.6	29.2	1.2	2.0	5.5	20.8	7.2	4.3	35.7	13.8	18.2
Carroll	19.6	18.2	14.5	21.8	10.4	15.5	21.6	33.3	34.4	2.9	1.3	6.6	18.5	10.3	4.2	31.7	15.2	20.1
Cass	19.5	20.6	11.8	23.7	9.5	14.9	19.8	41.7	26.8	3.6	1.9	6.1	19.4	10.1	4.3	33.7	13.2	19.3
Cedar	17.4	13.8	14.2	24.6	12.1	17.9	19.5	29.8	35.8	2.0	2.6	10.3	16.5	6.8	4.7	34.4	16.2	21.2
Cerro Gordo	22.6	23.9	15.2	5.7	13.5	19.1	20.1	40.4	28.5	0.4	1.5	9.0	24.2	13.7	6.9	8.9	21.0	25.4
Cherokee	20.2	18.4	14.2	22.1	10.5	14.4	22.8	37.0	32.7	1.6	1.4	4.3	19.0	9.5	5.3	32.0	14.9	19.3
Chickasaw	17.3	15.4	10.0	28.5	10.3	18.5	20.8	37.1	29.1	5.1	0.7	7.2	15.8	6.7	2.5	37.9	14.1	23.1
Clarke	12.7	16.4	12.6	32.3	10.8	15.2	13.7	37.9	31.0	1.3	3.8	12.4	12.2	6.7	4.3	46.4	14.0	16.5
Clay	20.4	21.8	13.3	17.1	9.6	17.8	17.1	39.0	27.3	2.0	1.9	12.7	22.2	12.2	5.5	25.5	13.9	20.7
Clayton	13.7	12.9	11.3	31.7	11.0	19.4	16.1	27.9	29.6	11.1	2.3	12.9	12.7	6.3	3.3	40.7	14.8	22.2
Clinton	19.4	19.8	11.7	8.9	14.4	25.8	18.9	39.7	21.8	1.4	1.6	16.5	19.7	9.1	6.2	12.9	21.3	30.8
Crawford	16.1	16.1	13.2	27.3	9.2	18.2	18.4	31.0	34.0	6.4	2.3	7.9	15.0	9.2	3.6	36.9	12.3	22.9
Dallas	18.4	22.6	14.6	12.8	12.5	19.1	19.4	42.2	30.3	0.9	0.6	6.5	17.9	11.6	5.8	19.4	19.1	26.3
Davis	16.2	12.9	14.1	24.5	10.8	21.5	21.0	23.4	34.8	6.3	2.0	12.5	14.0	8.0	4.5	32.9	14.9	25.6
Decatur	18.5	16.1	18.3	22.4	8.4	16.3	18.0	31.3	33.9	3.9	0.7	12.2	18.8	6.7	8.7	33.8	13.2	18.7
Delaware	17.3	13.2	12.0	29.9	9.7	17.9	17.9	29.8	33.6	3.5	1.3	13.8	17.1	6.5	3.2	40.5	13.1	19.5
Des Moines	21.3	21.3	13.0	4.2	15.1	25.1	18.6	36.2	20.7	0.3	2.6	21.6	23.1	11.6	7.9	6.8	23.2	27.4
Dickinson	17.9	18.9	13.5	19.3	10.3	20.2	15.7	33.1	27.8	1.9	1.7	19.9	19.2	10.6	5.2	29.4	15.2	20.3
Dubuque	21.7	20.9	14.4	6.0	12.2	24.9	21.9	37.6	26.7	0.6	1.5	11.8	21.6	11.5	7.4	9.0	18.2	32.2
Emmet	21.8	17.4	13.5	15.9	10.8	20.6	20.8	35.7	28.0	3.2	1.4	10.8	22.3	8.1	6.2	22.4	15.5	25.5
Fayette	18.1	19.3	13.0	21.0	11.4	17.2	17.9	37.2	31.2	5.6	1.3	6.8	18.2	10.3	3.9	28.7	16.5	22.4
Floyd	20.4	17.6	13.4	15.0	14.0	19.6	21.6	39.1	31.2	1.8	1.0	5.3	19.7	6.9	4.6	21.6	20.4	26.8
Franklin	16.7	15.1	11.7	33.4	9.9	13.1	22.0	33.9	32.2	4.6	1.8	5.6	14.4	7.0	2.8	46.0	13.4	16.4
Fremont	17.5	17.0	12.5	28.8	9.4	14.8	19.4	33.3	28.2	5.0	1.2	13.0	16.5	8.2	4.2	41.6	13.7	15.7
Greene	17.8	15.6	12.7	25.4	11.8	16.7	21.8	31.3	31.5	3.4	1.2	10.8	15.8	7.9	3.4	36.2	17.0	19.6
Grundy	17.9	14.3	12.0	27.9	10.5	17.4	20.9	31.3	33.0	1.3	1.7	11.9	16.6	7.1	3.1	39.3	14.2	19.7
Guthrie	15.5	15.0	13.2	29.4	10.5	16.3	16.8	32.3	30.7	13.0	1.1	6.2	14.9	6.7	4.8	37.4	15.1	21.2
Hamilton	18.3	19.6	13.6	17.7	10.9	19.8	17.0	37.2	29.7	1.4	1.5	13.2	19.0	10.6	5.4	26.1	15.8	23.1
Hancock	15.2	15.3	12.1	29.0	11.2	17.2	21.1	31.4	30.9	3.5	2.4	10.7	12.5	8.0	3.5	40.6	15.2	20.2
Hardin	22.0	18.6	14.3	17.3	10.2	17.7	22.1	33.6	30.9	1.7	2.1	9.6	21.9	10.9	5.7	25.4	14.3	21.8
Harrison	17.1	15.0	14.5	24.1	9.6	19.8	19.0	32.7	35.7	1.3	1.2	10.1	16.2	6.6	4.5	34.8	13.6	24.4
Henry	22.9	18.8	14.8	13.3	11.8	18.3	24.1	33.4	26.5	0.9	1.4	13.6	22.2	9.7	7.5	21.1	18.3	21.3
Howard	16.5	16.7	11.0	32.9	9.0	13.9	21.0	36.4	26.5	7.7	1.5	6.9	14.4	7.9	4.1	44.1	12.4	17.1
Humboldt	22.0	19.2	11.8	22.7	10.2	14.1	20.1	41.3	28.9	3.2	1.0	5.5	22.8	9.2	4.0	31.5	14.4	18.0
Ida	19.3	15.0	12.2	33.4	8.4	11.7	24.4	33.5	28.8	7.6	1.5	4.1	16.9	6.5	4.5	45.2	11.6	15.2
Iowa	15.1	16.7	13.0	24.7	10.8	19.7	14.4	31.4	28.3	8.8	2.3	14.7	15.5	8.4	4.4	33.5	15.5	22.5
Jackson	16.2	13.6	13.0	23.0	11.3	23.0	17.7	27.9	29.0	8.8	1.5	15.0	15.4	6.1	4.6	30.4	16.5	27.1
Jasper	19.4	20.0	13.1	12.6	12.1	22.8	15.8	39.5	27.1	1.8	2.4	13.4	21.5	8.8	5.1	18.7	17.7	28.1

*See Table 3 for the category titles; generally, first letters of occupations have been used.

Table 9. Percentages in Occupational Categories for Total Employed and Employed Females and Males 16 Years of Age and Older in Iowa Counties, 1970 (continued).

County	Total						Females						Males					
	PTMA*	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL
Jefferson	20.9	18.1	15.8	13.7	11.4	20.0	19.3	29.2	29.5	1.1	2.6	18.3	21.9	11.8	8.1	20.9	16.4	21.0
Johnson	36.6	21.2	19.0	5.5	7.6	10.2	33.5	33.6	26.6	0.7	0.9	4.7	38.9	11.9	13.2	9.1	12.6	14.3
Jones	17.2	15.7	13.1	22.5	11.4	20.1	21.6	30.2	28.5	3.2	2.1	14.4	15.0	8.8	5.8	31.7	15.8	22.8
Keokuk	15.9	15.0	12.0	29.3	11.7	16.1	20.7	32.5	28.2	4.1	4.2	10.3	13.6	6.7	4.3	41.3	15.2	18.8
Kossuth	19.2	15.6	11.6	29.3	10.1	14.3	23.9	32.8	28.6	4.0	2.3	8.5	16.9	7.3	3.4	41.4	13.9	17.1
Lee	21.6	19.5	12.8	5.7	15.1	25.3	19.8	38.2	21.1	0.7	1.8	18.4	22.6	9.2	8.2	8.4	22.4	29.2
Linn	24.2	25.4	12.0	2.9	13.1	22.3	18.1	42.8	20.5	0.5	2.2	15.8	28.0	14.7	6.7	4.4	19.9	26.3
Louisa	17.3	15.9	12.9	16.1	13.8	24.0	16.7	30.9	31.4	0.7	4.2	16.1	17.5	8.1	3.3	24.1	18.8	28.1
Lucas	18.0	18.4	13.8	19.1	9.1	21.6	17.0	38.7	28.7	2.9	0.7	12.1	18.6	7.7	5.9	27.6	13.5	26.7
Lyon	16.7	14.1	12.3	34.8	8.0	14.1	20.4	30.2	35.2	4.5	1.3	8.4	15.1	7.3	2.6	47.6	10.9	16.6
Madison	15.4	18.7	11.1	25.9	14.0	15.0	18.7	41.2	28.3	2.3	2.5	6.9	13.9	8.1	3.0	36.9	19.3	18.8
Mahaska	18.3	19.9	16.1	16.7	10.2	18.8	16.8	36.1	30.7	2.0	1.6	12.8	19.2	11.1	8.1	24.7	14.9	22.0
Marion	18.2	19.1	18.8	11.4	10.0	22.4	16.5	33.9	33.9	1.8	1.4	12.6	19.2	10.4	10.0	17.0	15.1	28.2
Marshall	20.3	20.3	13.8	9.4	13.4	22.8	18.0	37.4	27.6	1.7	2.7	12.7	21.6	10.8	6.1	13.7	19.4	28.5
Mills	18.8	14.8	15.2	22.4	13.4	15.3	23.8	29.2	36.5	1.2	1.1	8.2	16.4	7.9	4.9	32.7	19.4	18.8
Mitchell	17.7	13.8	14.9	28.5	10.1	15.0	21.9	27.8	37.3	4.6	0.6	7.8	15.6	6.8	3.8	40.4	14.8	18.5
Monona	19.2	16.5	11.9	27.7	10.6	14.1	23.9	37.0	29.5	1.6	1.1	6.8	17.1	7.1	3.9	39.6	14.9	17.4
Monroe	17.7	14.2	15.4	16.0	10.1	26.6	22.2	27.4	33.3	2.5	3.0	11.7	15.3	7.2	5.9	23.3	13.8	34.5
Montgomery	17.9	18.5	13.6	21.5	12.5	16.0	18.5	33.1	29.3	1.9	1.5	15.8	17.6	10.7	5.3	31.8	18.3	16.1
Muscatine	20.0	19.5	12.1	7.6	13.6	27.3	17.5	37.0	23.6	1.0	1.7	19.3	21.4	9.8	5.8	11.2	20.2	31.6
O'Brien	19.7	16.8	15.4	23.2	9.9	15.1	21.9	32.9	34.1	1.5	0.8	8.8	18.6	8.2	5.4	34.6	14.8	18.4
Osceola	16.7	16.1	11.4	33.1	7.5	15.2	16.4	36.0	31.9	1.6	2.2	11.9	16.8	7.4	2.4	46.9	9.8	16.7
Page	18.4	19.8	14.7	20.6	10.9	15.6	17.1	38.7	28.3	4.1	1.4	10.4	19.1	8.9	6.9	30.2	16.4	18.7
Palo Alto	18.1	16.6	15.7	24.2	9.9	15.5	19.1	27.6	37.8	3.1	2.8	9.6	17.6	11.0	4.6	34.8	13.5	18.5
Plymouth	18.1	15.8	13.8	26.7	9.9	15.8	22.7	31.6	32.1	3.5	0.7	9.3	16.0	8.6	5.4	37.2	14.0	18.7
Pocahontas	18.4	14.8	11.8	29.7	9.5	15.8	24.2	33.6	34.3	1.7	0.7	5.5	16.1	7.3	3.0	40.7	13.0	19.9
Polk	25.6	32.6	12.8	1.0	11.7	16.3	19.9	52.1	19.2	0.2	2.1	6.4	29.5	19.0	8.4	1.5	18.3	23.3
Pottawattamie	17.4	24.8	13.2	6.7	15.9	22.0	18.7	41.7	24.1	1.1	2.3	12.1	16.6	14.7	6.8	10.0	24.1	27.9
Poweshiek	19.4	20.3	15.9	19.8	9.0	15.6	18.6	35.0	33.8	3.9	2.5	6.3	19.9	12.0	5.8	28.8	12.7	20.9
Ringgold	15.0	12.5	14.0	40.7	8.4	9.4	14.8	29.6	32.9	13.9	1.2	7.6	15.0	4.8	5.5	52.8	11.6	10.3
Sac	19.0	14.2	11.6	31.1	8.8	15.2	19.6	31.0	33.8	3.9	2.1	9.6	18.8	7.0	2.1	42.8	11.7	17.7
Scott	23.6	25.4	12.9	2.5	14.6	21.0	19.9	45.2	23.0	0.4	1.4	10.1	25.6	14.4	7.3	3.7	21.9	27.0
Shelby	19.0	14.5	14.7	28.9	9.6	13.3	23.5	28.3	37.8	2.1	1.2	7.2	17.1	8.7	4.9	40.2	13.2	15.8
Sioux	17.5	14.9	14.4	27.1	9.3	16.7	17.9	29.5	36.5	3.6	0.5	11.9	17.4	8.2	4.2	38.0	13.4	18.9
Story	36.0	21.8	15.4	7.4	8.4	11.0	28.6	39.2	24.1	0.6	1.2	6.4	40.6	10.9	10.0	11.7	13.0	13.8
Tama	16.0	16.5	12.9	27.5	11.0	16.0	18.2	36.7	32.8	3.2	0.7	8.4	15.1	7.8	4.3	38.0	15.5	19.3
Taylor	14.3	13.0	12.5	36.6	9.2	14.5	19.3	29.0	30.3	6.4	1.9	13.1	12.2	6.4	5.2	49.0	12.2	15.1
Union	21.2	20.0	16.5	15.3	8.6	18.4	18.6	36.2	32.9	2.4	2.1	7.8	22.7	10.9	7.2	22.6	12.2	24.4
Van Buren	13.8	13.9	14.2	23.3	10.0	24.7	17.2	29.7	33.4	0.5	1.4	17.8	12.2	6.1	4.9	34.5	14.2	28.1
Vapello	21.0	21.8	15.7	4.6	12.0	24.9	20.2	36.2	30.2	0.2	1.4	11.7	21.5	13.0	6.9	7.3	18.4	32.8
Warren	20.4	24.5	11.8	9.3	14.2	19.8	20.3	46.3	23.8	1.4	3.1	5.0	20.5	12.7	5.4	13.5	20.2	27.7
Washington	18.2	17.0	15.2	19.6	12.8	17.2	19.9	33.2	32.4	2.2	2.3	9.9	17.4	9.0	6.7	28.2	17.9	20.8
Wayne	17.2	14.7	11.1	31.9	8.0	17.2	20.3	31.4	27.8	5.7	1.5	13.2	15.8	7.3	3.7	43.4	10.8	18.9
Webster	21.4	22.5	15.7	7.6	11.2	21.5	20.1	38.4	30.1	0.4	1.5	9.5	22.2	13.0	7.1	11.9	17.1	28.7
Winnebago	19.4	16.2	13.3	17.1	14.4	19.6	18.3	32.0	27.0	0.5	4.2	17.9	20.1	7.3	5.5	26.5	20.1	20.5
Winneshiek	18.1	16.2	14.7	29.5	8.7	12.8	17.1	35.0	29.5	6.7	2.0	9.8	18.7	5.8	6.4	42.2	12.4	14.5
Woodbury	23.6	25.0	15.3	4.3	12.5	19.1	21.1	39.7	26.2	0.3	1.8	10.9	25.2	15.9	8.6	6.9	19.2	24.2
Worth	12.9	17.7	9.2	28.7	9.8	21.8	15.6	35.4	25.0	1.6	2.5	19.9	11.6	9.6	2.1	41.0	13.1	22.6
Wright	21.4	15.7	11.7	22.3	11.1	17.8	24.7	32.8	31.2	2.5	0.3	8.5	19.9	8.2	3.1	31.0	15.9	21.9
State of Iowa	21.4	21.4	13.7	12.5	11.8	19.1	20.3	39.0	26.6	1.7	1.8	10.6	22.1	11.5	6.5	18.6	17.4	24.0

Table 10. Percentages in Occupational Categories for Total Employed and Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1960.

County	Total						Females						Males					
	PTMA*	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL
Adair	11.1	12.8	9.7	46.2	8.7	9.9	13.0	31.2	29.1	17.9	1.3	5.3	10.5	6.6	3.0	56.0	11.2	11.5
Adams	13.8	11.3	7.5	47.0	7.5	11.0	23.8	22.7	22.0	19.8	0.6	6.1	10.5	7.5	2.7	56.0	9.8	12.6
Allamakee	12.7	11.0	8.2	45.1	9.3	12.6	15.8	24.1	25.6	22.5	1.1	8.2	11.6	6.3	2.0	53.1	12.3	14.1
Appanoose	17.1	14.3	8.6	25.2	9.4	19.3	22.0	31.7	22.9	6.9	1.5	4.9	15.4	7.8	3.3	32.0	12.3	24.6
Audubon	13.2	10.8	9.1	46.8	7.7	10.2	15.2	22.2	30.1	20.8	0.9	7.3	12.5	6.9	1.8	55.8	10.0	11.2
Benton	15.7	14.4	8.8	32.5	9.3	17.8	17.8	32.0	27.2	7.6	0.4	12.5	15.0	8.2	2.3	41.3	12.5	19.7
Black Hawk	18.6	22.7	11.8	5.1	14.1	25.5	17.6	40.3	25.5	0.9	0.8	12.6	19.0	14.2	5.3	7.1	20.4	31.6
Boone	17.2	17.5	11.8	20.7	12.2	18.1	18.3	32.9	30.9	4.4	1.7	8.8	16.8	11.4	4.3	27.1	16.3	21.7
Bremer	16.8	16.7	10.4	27.9	9.6	17.0	15.1	33.8	24.6	13.6	0.5	10.5	17.6	9.3	4.3	34.1	13.6	19.9
Buchanan	15.1	14.4	9.1	33.4	8.8	18.2	18.7	29.1	22.4	16.4	0.5	12.2	13.5	7.9	3.4	40.8	12.4	20.8
Buena Vista	16.3	16.8	9.6	29.8	9.2	16.0	20.0	35.2	26.6	4.3	1.3	8.1	15.0	10.2	3.5	39.0	12.0	18.9
Butler	14.0	12.3	6.7	41.8	10.2	13.5	19.9	33.5	25.5	13.2	1.0	3.8	12.4	6.4	1.5	49.8	12.8	16.2
Calhoun	16.7	15.8	9.2	34.7	8.1	14.5	20.0	38.3	30.7	5.4	0.2	4.8	15.7	8.2	1.9	44.6	10.8	17.7
Carroll	15.5	15.5	12.1	30.1	9.8	13.5	20.3	27.7	33.1	4.9	1.4	7.5	13.6	10.8	4.0	39.7	12.9	15.7
Cass	16.4	18.9	10.4	31.8	9.2	11.5	17.2	34.9	28.6	10.8	1.0	4.7	16.0	12.1	2.6	40.9	12.7	14.5
Cedar	14.9	13.4	9.4	37.9	9.4	13.7	18.7	31.4	27.3	13.5	1.0	6.5	13.6	7.3	3.3	46.2	12.3	16.1
Cerro Gordo	18.3	22.1	12.0	12.0	12.4	20.3	17.8	38.3	28.6	2.0	1.1	9.0	18.4	14.7	4.5	16.5	17.6	25.5
Cherokee	18.0	14.9	12.5	34.3	8.0	11.0	23.9	29.9	33.2	5.9	0.7	5.3	15.8	9.1	4.5	45.4	10.8	13.3
Chickasaw	14.0	13.6	9.2	41.4	7.4	12.2	17.9	30.5	25.5	14.9	1.6	6.1	12.6	7.7	3.4	50.8	9.5	14.4
Clarke	14.9	14.0	10.5	34.4	7.4	16.0	21.1	29.1	31.5	1.0	0.0	13.7	12.7	8.6	2.9	46.4	10.1	16.9
Clay	16.8	17.9	9.9	27.7	7.9	14.1	15.0	36.5	25.7	4.9	1.3	8.2	17.5	10.7	3.8	36.5	10.4	16.4
Clayton	12.1	11.9	7.7	43.0	8.0	14.9	15.2	28.0	23.8	15.6	1.1	11.8	11.1	6.3	2.1	52.5	10.4	16.0
Clinton	16.7	19.5	9.7	13.8	13.2	25.1	16.5	39.7	22.6	2.4	1.2	15.0	16.7	10.9	4.3	18.6	18.3	29.3
Crawford	13.3	12.4	10.3	42.7	7.7	10.7	19.4	29.5	31.2	11.2	0.8	4.5	11.4	7.1	3.8	52.4	9.8	12.6
Dallas	16.1	16.9	13.2	22.6	12.0	16.9	17.7	34.2	34.3	5.2	1.0	5.3	15.4	9.3	3.9	30.3	16.9	22.1
Davis	12.7	12.2	9.3	39.6	8.1	15.8	14.8	26.4	27.0	25.2	0.0	3.4	11.8	6.3	2.0	45.5	11.5	20.9
Decatur	17.5	13.1	15.2	32.0	6.8	12.5	19.6	24.2	34.8	9.3	1.4	6.3	16.5	8.2	6.4	42.3	9.3	15.2
Delaware	12.1	10.3	9.0	45.5	7.2	14.6	15.2	20.2	24.5	30.0	0.6	7.9	10.9	6.2	2.7	51.9	9.9	17.3
Des Moines	17.4	21.1	11.1	7.2	15.2	22.7	15.4	34.2	21.9	1.4	1.4	20.4	18.4	14.4	5.6	10.2	22.2	23.9
Dickinson	16.9	15.0	10.9	27.0	10.4	17.3	15.6	27.5	30.3	9.7	1.4	13.3	17.4	10.0	3.2	33.9	14.0	18.9
Dubuque	17.5	19.9	13.1	9.5	12.3	24.2	19.2	33.6	27.6	3.2	1.1	11.2	16.7	13.3	6.0	12.5	17.7	30.5
Emmet	18.1	17.9	11.3	24.4	9.7	17.7	19.3	38.8	30.1	3.0	0.0	7.7	17.7	10.1	4.3	32.4	13.3	21.4
Fayette	15.7	16.0	9.1	31.3	9.6	16.4	19.8	33.8	26.1	8.4	0.4	8.4	14.2	9.6	3.0	39.7	12.9	19.2
Floyd	16.3	17.5	10.1	23.0	11.9	19.4	16.8	38.1	28.4	5.3	1.1	7.1	16.0	9.0	2.6	30.3	16.3	24.5
Franklin	13.7	11.9	9.4	42.9	8.8	12.1	18.2	28.7	30.2	10.3	1.0	9.1	12.3	6.3	2.6	53.6	11.4	13.1
Fremont	11.7	15.4	10.1	35.4	7.5	17.6	14.6	34.6	26.7	3.7	1.1	16.0	10.5	7.6	3.2	48.5	10.1	18.3
Greene	15.6	14.7	10.9	36.7	8.6	12.1	18.7	30.8	33.8	7.0	1.0	5.5	14.5	8.8	2.6	47.5	11.4	14.6
Grundy	11.3	12.6	8.0	44.3	8.5	14.3	12.9	32.1	25.8	20.7	1.2	5.8	10.8	6.2	2.2	52.1	10.9	17.1
Guthrie	15.4	12.5	9.1	41.2	8.5	11.8	19.2	29.9	24.1	17.2	0.6	6.3	14.0	6.1	3.6	49.9	11.3	13.8
Hamilton	16.9	17.4	10.6	27.0	9.0	17.5	18.7	37.4	30.2	2.3	0.6	8.1	16.2	9.4	2.7	36.9	12.4	21.3
Hancock	13.8	13.4	9.1	43.1	8.8	10.3	15.0	33.1	29.1	12.0	0.9	5.6	13.4	7.1	2.7	53.0	11.3	11.8
Hardin	17.6	17.5	10.5	29.1	10.8	13.1	21.4	37.9	27.8	5.2	0.8	5.8	16.2	9.9	3.9	38.0	14.5	15.9
Harrison	16.6	15.1	9.8	31.7	10.5	14.2	21.3	34.7	28.7	7.2	0.6	5.1	15.0	8.2	3.1	40.4	14.1	17.5
Henry	16.1	17.0	14.5	21.1	10.9	14.4	16.9	29.8	32.9	2.0	0.8	10.8	15.8	11.2	6.1	29.8	15.5	16.1
Howard	13.9	11.2	8.3	45.5	8.2	10.9	16.9	23.7	24.0	28.0	0.0	4.4	12.8	6.3	2.3	52.2	11.4	13.5
Humboldt	16.5	14.8	9.6	34.6	10.2	12.7	18.9	36.9	30.2	5.2	0.7	6.0	15.7	7.6	3.0	44.1	13.3	14.8
Ida	12.6	13.5	7.3	44.4	8.3	12.1	16.6	41.1	26.4	2.3	2.2	7.9	11.5	6.1	2.2	55.7	10.0	13.2
Iowa	13.0	12.8	9.9	36.5	8.5	16.8	17.4	26.9	30.5	10.1	0.0	11.4	11.4	7.5	2.2	46.4	11.8	18.9
Jackson	13.1	11.4	8.8	29.8	11.0	20.0	14.8	23.5	23.5	12.1	1.5	13.5	12.5	6.4	2.8	37.0	14.8	22.7
Jasper	15.6	17.9	8.6	19.2	12.0	23.5	14.9	40.3	21.4	3.8	1.7	13.4	15.9	9.3	3.7	25.1	15.9	27.4

*See Table 4 for the category titles; generally, first letters of occupations have been used.

Table 10. Percentages in Occupational Categories for Total Employed and Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1960 (continued).

County	Total						Females						Males					
	PTMA*	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL
Jefferson	17.9	19.1	11.0	22.3	9.9	17.9	18.5	37.1	25.4	3.9	0.4	11.2	17.6	11.1	4.6	30.4	14.1	20.8
Johnson	29.7	19.0	18.9	11.4	7.7	11.1	29.0	31.0	29.3	2.6	0.4	5.3	30.2	11.9	12.9	16.6	11.9	14.5
Jones	14.8	12.3	8.8	30.6	8.4	19.1	18.9	27.8	22.0	5.8	1.2	17.2	13.2	6.4	3.8	40.0	11.1	19.8
Keokuk	16.5	12.5	8.4	36.5	8.8	15.6	21.6	30.8	23.2	14.2	1.2	5.4	14.6	5.5	2.8	45.1	11.8	19.5
Kossuth	15.4	12.2	8.5	42.4	7.7	12.4	19.1	27.5	26.5	14.7	0.9	7.9	14.1	6.9	2.3	51.9	10.0	13.9
Lee	17.1	20.2	11.8	9.7	13.3	24.2	16.2	37.3	22.5	1.3	1.1	17.4	17.5	12.2	6.7	13.6	19.1	27.4
Linn	19.8	23.4	10.2	5.3	14.0	22.8	15.0	39.9	20.1	2.0	1.2	16.4	22.3	14.6	5.0	7.1	20.8	26.3
Louisa	13.6	11.6	10.0	34.6	10.2	17.0	16.7	29.4	30.0	5.4	0.8	12.9	12.6	5.5	3.1	44.5	13.4	18.4
Lucas	12.8	15.9	10.9	28.0	9.2	20.3	17.0	31.1	25.9	4.1	0.0	16.8	11.3	10.2	5.4	36.9	12.6	21.6
Lyon	14.0	11.9	8.1	47.1	7.0	10.6	22.8	26.3	28.7	14.6	0.4	5.4	11.4	7.6	1.8	56.9	8.9	12.2
Madison	13.4	14.7	9.6	37.0	8.9	15.3	18.0	37.2	26.7	10.9	1.0	4.7	11.7	6.3	3.2	46.8	11.9	19.3
Mahaska	14.9	16.8	10.0	26.3	11.7	18.2	16.1	34.1	26.1	5.7	1.4	12.8	14.3	9.5	3.2	34.9	16.1	20.4
Marion	15.5	15.5	13.5	19.3	11.8	22.6	19.0	33.8	24.3	2.6	1.0	16.3	14.2	8.6	9.4	25.6	15.8	24.9
Marshall	17.7	18.6	11.6	16.6	12.1	21.9	16.6	34.7	28.0	4.7	2.1	12.0	18.2	11.5	4.3	21.9	16.5	26.3
Mills	14.3	14.7	12.9	29.5	9.4	17.4	17.2	30.9	31.1	3.0	0.7	14.8	13.1	8.1	5.4	40.4	13.0	18.5
Mitchell	13.6	12.4	9.9	38.2	9.1	14.8	16.4	28.9	28.7	12.5	0.3	9.2	12.5	6.2	2.8	47.8	12.4	16.9
Monona	13.0	13.7	11.2	40.1	9.3	10.7	20.7	30.6	33.4	7.8	1.0	3.2	10.3	7.9	3.5	51.3	12.2	13.3
Monroe	14.8	16.1	10.1	26.7	8.4	21.2	22.7	36.7	24.9	6.8	0.5	6.6	12.2	9.5	5.3	33.2	10.9	25.9
Montgomery	16.4	19.2	10.5	26.5	10.2	15.5	16.0	37.4	24.3	3.2	0.7	16.0	16.6	11.6	4.7	36.3	14.2	15.3
Muscatine	16.3	17.6	10.3	13.7	13.9	24.8	15.3	34.9	23.9	2.7	1.5	18.7	16.7	10.1	4.4	18.4	19.3	27.5
O'Brien	17.7	14.0	8.9	35.7	8.4	14.7	24.0	29.0	29.8	5.6	0.8	9.7	15.7	9.1	2.0	45.6	10.8	16.3
Osceola	14.3	10.3	8.1	46.5	8.3	10.5	17.8	24.2	23.4	14.9	0.0	13.0	13.3	6.2	3.5	56.0	10.8	9.8
Page	16.4	20.4	12.4	24.9	9.4	14.4	16.2	38.4	27.4	4.7	0.4	10.0	16.5	11.5	4.9	35.0	13.8	16.6
Palo Alto	16.2	14.6	9.5	38.1	6.6	13.6	23.0	33.9	29.0	6.3	0.2	4.5	13.9	8.1	2.9	48.8	8.8	16.7
Plymouth	13.4	12.5	12.3	36.9	7.9	15.0	18.2	23.3	33.7	5.1	0.8	15.2	11.7	8.8	4.9	47.9	10.4	15.0
Pocahontas	14.9	12.8	7.7	42.1	7.1	11.4	19.9	30.9	24.4	9.4	1.3	7.1	13.3	7.2	2.5	52.4	8.9	12.8
Polk	21.7	31.0	10.5	1.8	13.0	17.9	16.8	51.0	18.7	0.3	1.6	7.4	24.5	19.5	5.8	2.6	19.6	24.0
Pottawattamie	15.0	24.6	9.7	10.9	14.9	22.7	17.3	42.0	21.3	2.9	1.4	12.4	14.0	16.5	4.3	14.6	21.2	27.5
Poweshiek	16.0	15.9	11.6	29.7	8.0	15.5	15.4	34.3	28.2	6.5	0.4	11.0	16.3	8.7	5.1	38.9	11.0	17.2
Ringgold	15.1	10.0	7.3	52.6	5.3	8.6	27.4	27.4	30.8	6.5	1.3	3.5	11.9	5.5	1.3	64.5	6.3	9.9
Sac	13.3	13.2	10.3	38.3	7.4	16.7	17.1	30.0	33.3	7.8	1.5	8.1	12.2	8.4	3.6	47.1	9.1	19.2
Scott	19.2	23.5	10.5	5.0	14.3	22.2	17.0	41.7	22.2	1.6	1.1	10.8	20.2	15.1	5.0	6.6	20.4	27.5
Shelby	14.1	12.3	8.6	43.6	7.8	11.9	20.4	27.5	27.8	14.3	0.9	6.2	12.2	7.5	2.6	52.7	9.9	13.6
Sioux	14.8	12.3	8.5	38.6	9.1	14.2	20.5	28.6	28.7	8.4	0.8	9.2	13.1	7.6	2.7	47.2	11.5	15.6
Story	29.5	20.3	13.4	12.6	9.1	12.2	22.8	39.7	23.9	1.9	0.7	8.6	32.7	11.0	8.4	17.7	13.2	13.9
Tama	13.4	10.6	8.5	41.3	9.1	16.0	17.8	31.3	28.0	12.6	0.8	6.8	12.2	4.7	3.0	49.4	11.4	18.5
Taylor	15.4	10.8	9.7	44.7	6.9	11.2	20.7	28.8	32.3	8.9	0.5	6.0	13.8	5.5	3.0	55.3	8.8	12.8
Union	16.6	19.0	12.6	24.3	11.9	13.1	19.7	35.3	31.7	3.5	0.5	5.6	15.4	12.4	4.8	32.7	16.5	16.2
Van Buren	14.0	11.8	9.3	37.3	9.1	17.4	18.1	28.7	24.9	14.3	1.2	12.0	12.5	5.7	3.6	45.7	11.9	19.4
Wapello	17.7	20.2	10.6	7.6	13.0	26.7	17.9	36.2	25.1	1.8	1.0	13.1	17.6	13.4	4.4	10.1	18.0	32.5
Warren	15.4	20.3	11.0	21.8	11.8	18.5	16.5	43.1	29.2	2.9	1.1	5.0	14.9	11.7	4.2	28.8	15.8	23.5
Washington	14.5	15.6	10.7	33.0	9.7	14.8	15.1	28.3	27.2	13.4	1.5	11.5	14.2	10.4	3.9	41.1	13.0	16.2
Wayne	14.4	11.4	8.1	45.3	7.1	11.2	16.1	21.3	22.9	30.9	0.4	5.2	13.7	7.5	2.2	50.9	9.8	13.5
Webster	16.6	21.4	11.1	13.4	12.0	22.5	18.5	39.2	25.5	1.5	0.8	10.0	15.7	13.4	4.6	18.7	17.0	28.0
Winnebago	16.4	14.0	10.1	33.8	11.4	12.8	20.7	28.1	30.4	4.5	0.2	13.6	14.8	8.6	2.4	44.9	15.6	12.5
Winneshiek	14.6	14.5	8.7	42.6	7.7	11.0	16.0	31.5	22.1	21.8	0.6	6.2	14.1	7.7	3.2	51.0	10.5	13.0
Woodbury	20.1	23.9	11.6	6.7	11.3	21.5	18.0	37.2	24.4	1.0	0.9	13.1	21.1	17.1	5.1	9.7	16.5	25.8
Worth	10.9	12.2	6.5	46.5	8.7	13.6	15.8	28.6	25.1	17.0	0.0	9.9	9.4	7.4	1.0	55.2	11.3	14.6
Wright	16.7	15.5	8.7	30.9	10.9	16.0	20.8	37.1	26.1	4.9	1.3	7.5	15.5	8.9	3.4	38.9	13.8	18.6
State of Iowa	17.5	19.3	10.7	20.1	11.2	18.3	17.9	37.0	24.9	5.0	1.0	10.4	17.3	11.7	4.5	26.6	15.5	21.7

Table 11. Percentages in Occupational Categories for Total Employed and Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1950.

County	Total						Females						Males					
	PTMA*	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL
Adair	12.0	7.9	5.2	57.2	6.7	9.5	22.1	23.4	20.3	24.4	1.3	4.0	9.7	4.4	1.8	64.7	8.0	10.8
Adams	10.3	9.6	5.1	57.2	6.8	9.6	24.1	29.7	21.6	15.3	0.6	5.6	7.6	5.7	1.9	65.4	8.0	10.4
Allamakee	12.7	8.7	5.4	51.7	7.3	10.9	17.7	19.5	16.7	31.1	1.0	8.8	11.4	5.9	2.4	57.2	9.0	11.5
Appanoose	15.2	14.1	7.3	31.6	9.7	20.3	20.9	31.5	20.4	14.8	0.9	9.1	13.5	8.9	3.3	36.6	12.4	23.6
Audubon	11.9	9.3	4.9	54.5	8.2	9.8	20.9	25.9	19.1	25.8	1.0	4.8	9.9	5.5	1.7	60.9	9.7	10.9
Benton	13.0	11.0	6.5	44.0	9.2	14.9	17.4	29.6	24.0	16.3	0.9	8.5	11.9	6.7	2.5	50.4	11.1	16.3
Black Hawk	15.7	20.0	9.6	7.9	14.9	30.7	14.9	38.0	21.9	2.4	1.2	19.8	16.0	12.8	4.7	10.1	20.3	35.1
Boone	15.5	13.7	7.9	29.9	13.8	17.1	20.7	36.8	27.1	2.9	0.7	6.9	14.2	8.3	3.3	36.2	16.8	19.5
Bremer	13.1	11.7	6.2	42.1	9.4	15.8	15.5	25.9	15.6	26.7	0.9	12.1	12.3	6.9	3.0	47.3	12.3	17.1
Buchanan	12.6	10.8	7.7	42.2	8.8	14.8	19.2	26.4	23.7	8.3	1.1	10.1	10.9	6.8	3.6	50.9	10.9	16.0
Buena Vista	16.1	14.3	7.2	37.0	10.3	13.5	21.8	34.7	25.2	7.6	1.5	5.9	14.8	9.6	3.0	43.9	12.4	15.3
Butler	12.8	8.8	4.9	51.7	8.5	12.1	19.7	20.9	16.6	34.5	1.1	5.4	10.9	5.6	1.8	56.3	10.4	13.9
Calhoun	15.5	11.2	6.3	44.5	9.4	11.1	26.8	31.0	26.5	6.6	0.8	5.9	13.2	7.1	2.1	52.3	11.2	12.1
Carroll	15.5	13.5	8.4	38.8	8.9	13.1	20.5	27.8	23.8	15.3	0.8	8.5	13.9	8.9	3.4	46.3	11.5	14.6
Cass	14.5	14.5	7.4	40.1	9.6	12.4	19.1	31.5	22.7	15.3	0.5	9.0	13.2	9.4	2.8	47.6	12.3	13.4
Cedar	12.3	8.0	5.2	51.3	7.4	9.6	14.8	20.4	16.4	24.1	0.9	2.2	11.6	4.5	2.1	58.9	9.1	11.6
Cerro Gordo	17.1	20.8	8.9	15.2	13.4	21.5	17.5	39.6	22.5	3.8	1.2	12.1	16.9	13.9	4.0	19.4	17.8	24.9
Cherokee	13.2	12.2	8.8	43.4	9.2	12.2	16.8	28.3	29.3	16.8	0.9	6.4	12.2	7.8	3.2	50.7	11.5	13.8
Chickasaw	12.4	10.1	5.7	49.8	7.8	12.3	19.4	23.9	17.9	29.2	1.2	5.3	10.6	6.5	2.5	55.2	9.5	14.1
Clarke	12.0	10.2	6.2	52.4	6.7	12.1	19.6	22.0	21.8	25.6	0.9	9.2	9.9	6.9	1.8	59.9	8.3	12.9
Clay	15.4	15.7	6.9	39.5	9.4	11.8	18.6	41.4	22.2	7.8	1.6	5.8	14.7	9.4	3.1	47.3	11.3	13.3
Clayton	12.1	9.3	5.7	51.4	8.5	12.0	19.4	22.2	19.4	27.0	1.1	8.7	10.3	6.1	2.4	57.3	10.2	12.8
Clinton	16.1	17.3	8.1	18.7	13.7	25.1	18.9	38.3	19.2	2.3	1.7	18.1	15.2	10.4	4.5	24.1	17.6	27.4
Crawford	13.2	9.1	6.3	48.1	7.9	10.9	20.6	23.8	22.9	8.9	0.8	6.4	11.5	5.8	2.5	56.9	9.5	11.9
Dallas	15.8	13.2	8.4	34.0	10.9	16.3	20.2	30.9	27.9	9.0	0.9	8.6	14.5	8.1	2.8	41.1	13.8	18.6
Davis	11.2	8.4	4.1	55.1	6.5	12.0	16.9	19.4	14.0	40.3	0.8	3.5	9.8	5.6	1.6	58.9	7.9	14.1
Decatur	15.2	9.1	6.3	48.5	7.0	12.3	26.7	24.0	21.8	17.8	0.9	5.9	12.5	5.7	2.8	55.6	8.4	13.7
Delaware	11.3	9.4	5.7	54.6	7.4	9.6	16.7	19.1	19.3	36.7	0.9	3.6	9.7	6.7	1.9	59.7	9.2	11.3
Des Moines	17.0	21.2	9.7	10.7	16.2	22.5	18.5	39.3	19.9	0.9	1.5	17.1	16.4	14.5	5.9	14.3	21.6	24.5
Dickinson	17.0	13.1	7.8	33.4	12.5	13.5	21.4	31.9	25.4	2.0	1.3	16.1	15.9	8.6	3.5	40.9	15.2	12.9
Dubuque	17.6	19.7	9.5	12.7	12.9	26.5	19.6	35.1	19.5	4.5	1.5	18.5	16.8	13.3	5.3	16.1	17.6	29.8
Emmet	15.2	14.6	7.9	32.3	10.9	17.1	20.2	35.3	24.2	3.5	0.9	13.1	13.8	8.9	3.4	40.2	13.6	18.2
Fayette	14.1	12.0	6.4	42.2	9.2	14.5	17.0	26.1	17.3	25.9	1.5	8.4	13.1	7.6	3.0	47.2	11.6	16.4
Floyd	14.2	15.0	7.8	30.7	11.7	19.3	17.6	33.8	23.1	13.5	1.5	8.5	13.1	9.2	3.0	36.0	14.8	22.7
Franklin	12.3	10.6	6.6	50.1	8.3	10.4	18.9	30.0	27.5	13.6	1.0	5.7	10.8	6.2	1.8	58.4	9.9	11.4
Fremont	11.3	12.0	6.2	46.0	8.4	14.5	18.8	32.6	22.6	6.8	0.7	15.5	9.4	6.7	2.1	56.0	10.3	14.3
Greene	13.8	11.0	6.9	47.4	8.8	10.4	19.4	27.1	26.1	16.0	0.9	5.5	12.3	6.9	2.1	55.2	10.8	11.6
Grundy	12.4	9.8	4.9	51.5	8.6	11.5	22.3	33.4	23.6	8.9	1.6	7.9	10.7	5.8	1.7	58.7	9.8	12.1
Guthrie	15.3	9.3	6.0	49.8	7.2	10.9	28.1	30.5	25.4	3.7	0.6	8.6	12.7	5.0	2.1	59.1	8.5	11.4
Hamilton	13.8	13.2	7.3	38.8	9.8	14.7	20.1	34.1	25.0	5.0	1.9	8.6	12.3	8.0	2.9	47.3	11.8	16.2
Hancock	13.7	9.5	4.5	52.6	7.8	9.2	22.4	31.6	20.4	9.4	1.1	7.4	12.1	5.5	1.7	60.4	9.0	9.6
Hardin	14.7	14.7	7.8	36.9	10.9	13.1	18.6	33.5	26.7	11.0	1.8	6.2	13.7	9.8	2.8	43.8	13.4	14.9
Harrison	13.1	10.7	7.5	46.1	8.7	12.2	25.7	29.1	29.2	7.8	1.4	3.1	10.3	6.7	2.8	54.4	10.3	14.2
Henry	16.0	13.3	10.4	34.0	10.5	14.3	20.9	33.9	29.1	1.7	0.8	11.7	14.7	7.7	5.3	42.9	13.2	15.0
Howard	14.5	9.5	5.7	50.9	7.8	10.2	24.3	26.3	21.9	18.1	0.9	6.4	12.2	5.6	2.0	58.5	9.4	11.0
Humboldt	14.3	11.1	6.9	43.8	10.0	12.3	23.9	32.2	25.5	4.9	1.5	8.4	12.2	6.4	2.7	52.4	11.9	13.2
Ida	12.3	9.7	5.7	54.1	7.9	8.9	18.6	33.2	25.6	14.9	1.4	3.8	11.0	5.3	1.9	61.5	9.1	9.9
Iowa	12.2	9.8	5.2	49.5	8.2	11.5	19.7	27.5	19.6	11.6	1.4	8.2	10.5	5.7	1.9	58.1	9.8	12.2
Jackson	12.2	9.8	6.6	46.9	8.9	14.9	18.6	21.9	19.4	25.4	1.4	12.1	10.4	6.3	2.9	53.1	11.1	15.6
Jasper	13.2	14.7	5.9	29.4	12.1	22.8	17.6	38.1	15.6	9.3	1.7	13.0	12.0	8.1	3.2	35.0	15.0	25.5

*See Table 5 for the category titles; generally, first letters of occupations have been used.

Table 11. Percentages in Occupational Categories for Total Employed and Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1950 (continued).

County	Total						Females					Males						
	PTMA*	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL	PTMA	SC	Ser	FFFF	CF	OL
Jefferson	16.0	13.5	6.6	32.8	10.7	18.4	22.9	32.9	19.5	4.4	1.2	15.0	14.3	8.6	3.3	40.0	13.2	19.2
Johnson	24.1	17.1	16.3	20.4	9.4	10.8	29.0	32.1	25.8	5.4	1.1	4.1	22.0	10.5	12.1	27.0	13.1	13.7
Jones	11.9	9.9	7.4	45.7	8.4	15.7	16.0	24.1	21.3	18.4	1.5	16.5	10.7	5.9	3.6	53.3	10.3	15.4
Keokuk	13.0	9.3	5.4	46.8	8.1	10.4	19.4	23.5	18.8	7.1	0.4	3.0	11.5	6.0	2.3	56.1	9.9	12.1
Kossuth	13.0	11.4	5.6	47.7	8.2	9.5	20.4	30.2	21.7	3.0	0.7	7.4	11.4	7.4	2.2	57.2	9.8	10.0
Lee	15.6	17.1	10.1	13.0	14.1	28.3	15.9	34.4	18.5	1.6	2.2	25.1	15.5	10.5	6.9	17.4	18.6	29.5
Linn	18.5	22.6	10.1	10.7	14.6	22.8	16.8	40.8	22.6	5.8	1.5	11.4	19.2	14.8	4.8	12.8	20.2	27.6
Louisa	13.5	9.1	5.5	45.5	10.4	14.8	26.2	27.0	24.1	7.3	2.2	10.0	11.2	5.8	2.1	52.5	11.9	15.7
Lucas	12.7	13.4	5.8	42.9	8.2	15.5	17.7	24.7	16.6	23.9	1.0	12.5	11.1	9.8	2.4	49.0	10.5	16.4
Lyon	12.0	8.8	4.6	57.0	7.3	8.2	19.7	22.9	17.8	29.1	1.1	3.3	10.2	5.7	1.7	63.2	8.7	9.3
Madison	11.7	10.6	5.8	53.2	7.0	10.7	17.9	32.6	22.3	20.8	0.6	3.9	10.3	5.7	2.1	60.4	8.5	12.2
Mahaska	14.3	14.5	7.5	34.2	10.8	17.1	18.5	31.2	21.7	11.0	1.2	13.5	12.9	9.3	3.0	41.5	13.8	18.2
Marion	14.3	12.5	11.6	32.0	8.9	19.8	20.8	28.2	23.3	10.4	1.0	14.6	12.5	8.0	8.2	38.0	11.1	21.2
Marshall	16.3	18.1	9.8	21.4	12.8	20.5	19.0	36.1	25.4	3.6	1.6	12.8	15.3	11.7	4.2	27.8	16.8	23.2
Mills	13.1	9.6	8.3	42.8	9.4	15.2	22.5	24.0	29.5	5.6	0.7	14.7	10.7	6.0	2.9	52.2	11.6	15.3
Mitchell	11.9	10.8	5.5	45.8	8.7	15.2	19.2	28.9	20.2	6.5	1.2	18.3	10.2	6.5	2.0	55.1	10.5	14.4
Monona	13.4	10.0	7.3	47.8	10.0	10.0	23.6	32.1	31.5	4.0	1.2	4.2	11.4	5.7	2.6	56.3	11.7	11.1
Monroe	12.8	10.2	6.0	43.0	6.3	20.7	22.9	26.0	15.8	27.7	0.7	4.8	10.4	6.3	3.6	46.7	7.6	24.5
Montgomery	14.5	14.7	6.0	34.5	11.6	17.3	19.1	32.6	15.9	7.5	1.3	21.1	13.2	9.7	3.2	42.0	14.5	16.2
Muscatine	15.2	15.8	8.2	18.9	12.1	28.3	15.8	31.1	19.9	3.5	1.2	26.3	15.0	10.5	4.0	24.4	15.9	29.0
O'Brien	16.1	12.7	6.3	41.8	9.8	11.9	21.2	33.2	24.5	8.1	1.0	8.7	15.0	8.2	2.2	49.2	11.7	12.6
Osceola	12.3	10.9	5.3	52.3	7.7	10.7	22.0	27.6	21.5	18.4	0.8	8.2	10.3	7.4	1.8	59.5	9.2	11.3
Page	15.1	18.0	9.2	30.9	9.6	15.7	15.8	40.2	23.0	3.2	1.2	14.0	14.8	10.2	4.3	40.7	12.6	16.3
Palo Alto	13.9	9.8	6.1	47.7	8.1	9.8	20.6	25.5	21.0	11.1	1.0	4.5	12.2	5.8	2.3	57.1	9.9	11.2
Plymouth	11.8	10.8	6.7	49.9	8.1	11.2	19.6	27.2	22.2	17.3	1.0	10.2	9.9	6.7	2.8	58.0	9.9	11.4
Pocahontas	13.5	10.4	5.7	46.8	8.1	9.8	22.0	26.2	23.0	2.4	1.0	5.2	11.4	6.7	1.6	57.3	9.7	10.9
Polk	20.9	30.2	10.7	3.4	14.0	19.6	17.3	50.1	19.1	0.6	1.6	9.7	22.7	20.3	6.6	4.8	20.1	24.4
Pottawattamie	15.0	21.5	8.2	17.8	14.3	22.0	19.3	41.8	19.9	3.7	1.4	12.0	13.5	14.5	4.1	22.7	18.7	25.5
Poweshiek	16.0	11.8	7.8	40.3	8.6	12.7	20.3	28.8	22.8	12.1	1.0	9.8	14.7	6.5	3.2	49.0	10.9	13.5
Ringgold	11.7	7.6	4.5	58.8	5.6	8.1	23.5	22.1	16.3	25.0	0.9	4.7	9.1	4.5	2.0	66.1	6.6	8.8
Sac	15.2	11.3	6.5	44.4	8.7	12.2	22.3	29.4	24.2	12.4	1.1	7.8	13.5	7.0	2.3	52.0	10.5	13.3
Scott	18.1	22.8	10.0	6.9	16.3	24.8	16.7	43.5	21.1	1.6	1.8	13.8	18.7	15.0	5.9	8.9	21.8	28.9
Shelby	12.3	9.9	5.3	53.4	7.9	9.5	23.0	28.0	21.3	17.3	1.0	7.2	10.4	6.7	2.4	59.8	9.1	9.9
Sioux	14.5	10.5	5.6	47.9	9.2	11.1	23.5	29.3	22.3	12.9	1.1	8.0	12.6	6.5	2.1	55.3	11.0	11.8
Story	27.6	18.8	12.5	19.6	9.0	11.6	24.3	40.4	23.2	3.9	0.9	6.3	29.0	10.0	8.1	26.0	12.3	13.7
Tama	12.3	10.1	6.4	48.2	8.4	13.3	16.8	25.0	21.7	25.0	0.7	7.5	11.1	6.0	2.2	54.5	10.5	14.9
Taylor	13.1	8.8	5.9	53.5	7.5	9.9	26.6	25.0	25.0	9.6	1.5	10.4	10.4	5.6	2.1	62.3	8.7	9.8
Union	15.5	16.5	7.8	30.7	10.7	17.3	20.7	33.7	24.1	3.0	1.7	14.6	14.1	11.9	3.5	38.0	13.1	18.1
Van Buren	12.6	6.9	3.9	44.3	6.2	11.4	13.1	13.0	8.6	15.5	0.3	5.2	12.3	4.4	2.0	55.9	8.6	13.8
Wapello	15.9	19.5	9.1	10.9	13.6	29.8	18.9	38.4	22.2	3.2	1.1	14.0	14.8	13.1	4.7	13.5	17.8	35.1
Warren	13.9	13.3	6.6	42.6	9.2	12.9	22.2	35.4	21.2	13.0	1.1	4.2	11.7	7.6	2.8	50.3	11.3	15.2
Washington	14.2	13.3	6.9	42.3	9.3	11.7	19.0	29.7	21.3	14.8	1.0	9.8	12.9	8.6	2.7	50.3	11.7	12.3
Wayne	12.9	8.5	4.3	51.2	6.0	12.4	18.2	19.3	13.4	28.0	1.4	5.4	11.4	5.5	1.8	57.7	7.2	14.3
Webster	16.9	19.5	8.0	19.6	11.6	22.1	19.6	38.0	20.1	4.6	1.2	12.3	16.0	13.2	3.9	24.7	15.1	25.4
Winnebago	16.0	11.0	6.7	45.3	9.1	10.2	25.4	29.5	27.3	8.1	1.1	6.1	13.9	6.8	2.0	53.6	10.9	11.1
Winneshiek	13.6	10.9	6.5	49.6	7.6	10.4	20.2	28.5	20.1	20.1	0.9	7.6	11.8	6.3	3.0	57.3	9.3	11.1
Woodbury	19.7	22.7	10.2	9.6	13.2	23.5	19.9	37.3	20.6	1.1	1.5	18.1	19.6	16.4	5.8	13.2	18.1	25.8
Worth	13.2	7.2	4.8	52.7	9.1	11.7	28.7	26.8	29.5	5.7	1.6	5.5	11.0	4.4	1.3	59.4	10.2	12.6
Wright	15.7	12.9	6.5	39.3	10.5	13.1	22.3	32.6	24.8	6.8	0.7	8.4	14.1	8.3	2.3	46.8	12.8	14.2
State of Iowa	16.0	16.7	8.3	28.0	11.3	17.9	19.0	35.8	21.3	7.6	1.3	11.7	15.0	10.6	4.1	34.6	14.5	20.0

Table 12. Percentages in Occupational Categories for Total Employed and Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1940.

County	Total						Females						Males					
	PSMP*	SC	Ser	FFFF	CF	OL	PSMP	SC	Ser	FFFF	CF	OL	PSMP	SC	Ser	FFFF	CF	OL
Adair	13.1	5.7	5.0	62.3	4.5	8.8	39.1	21.7	31.5	2.3	0.4	2.6	9.6	3.5	1.4	70.6	5.0	9.6
Adams	12.0	6.3	6.0	60.2	3.9	10.7	30.5	22.4	33.0	5.2	0.2	6.1	9.3	3.9	2.0	68.3	4.4	11.4
Allamakee	13.4	7.3	7.1	57.0	4.4	9.6	28.2	19.6	39.3	4.6	0.9	4.4	11.1	5.4	2.1	65.3	5.0	10.4
Appanoose	16.6	10.4	7.3	32.4	6.7	25.4	32.6	26.3	31.1	2.8	0.8	4.8	13.5	7.3	2.6	38.2	7.9	29.5
Audubon	13.2	6.8	6.1	60.2	5.3	7.9	33.3	19.5	32.8	8.8	0.2	3.7	9.8	4.7	1.6	68.8	6.1	8.6
Benton	13.8	8.2	7.7	50.8	6.4	11.9	25.3	22.4	39.1	3.3	1.0	5.4	11.8	5.6	2.0	59.4	7.4	13.1
Black Hawk	14.6	18.5	10.3	11.3	16.3	28.1	15.5	34.1	30.2	0.6	0.6	17.9	14.3	13.7	4.1	14.7	21.2	31.3
Boone	15.8	11.4	9.5	35.9	9.4	17.6	23.8	27.3	36.4	3.5	1.0	7.1	13.9	7.8	3.4	43.2	11.4	20.0
Bremer	14.7	9.2	7.3	50.0	6.6	11.3	24.3	23.6	35.3	6.4	0.4	6.9	13.0	6.6	2.3	57.8	7.7	12.1
Buchanan	14.0	8.5	9.4	51.0	6.1	10.3	25.7	21.3	39.3	3.7	0.6	8.3	11.6	5.8	3.1	61.0	7.3	10.7
Buena Vista	16.5	10.7	8.9	44.8	6.5	11.3	26.1	23.7	37.5	2.5	0.4	6.4	14.5	8.0	3.1	53.4	7.7	12.3
Butler	14.0	6.7	6.3	56.6	5.8	9.4	32.3	20.2	36.0	5.3	0.6	2.6	11.0	4.6	1.5	64.9	6.6	10.5
Calhoun	16.5	8.4	8.0	50.8	6.1	9.4	30.2	23.0	38.3	2.5	0.3	3.9	14.0	5.7	2.5	59.6	7.1	10.4
Carroll	17.2	11.2	9.8	43.8	6.2	10.6	29.6	22.9	38.0	2.2	0.4	5.3	14.3	8.5	3.2	53.5	7.6	11.8
Cass	15.8	12.4	8.2	45.2	6.4	11.3	26.7	26.5	35.6	2.4	0.7	6.7	13.5	9.4	2.3	54.4	7.6	12.3
Cedar	13.3	6.3	7.1	58.5	5.5	8.6	26.6	18.0	43.2	7.8	0.5	2.1	11.2	4.5	1.6	66.2	6.2	9.6
Cerro Gordo	17.6	19.4	10.7	20.0	10.3	21.5	19.8	34.6	31.0	1.8	0.5	11.5	16.9	14.6	4.3	25.7	13.4	24.6
Cherokee	14.9	9.3	10.3	47.5	6.2	10.6	26.8	22.1	41.5	3.0	0.3	3.3	12.4	6.6	3.8	56.8	7.4	12.1
Chickasaw	14.7	7.3	6.8	57.3	4.9	8.4	31.4	21.9	31.9	8.7	0.6	3.3	11.7	4.6	2.2	66.2	5.7	9.3
Clarke	14.3	8.4	6.1	58.1	4.9	7.5	33.6	22.4	30.2	6.7	0.4	5.4	11.1	6.0	2.1	66.8	5.6	7.9
Clay	16.1	12.7	7.7	45.4	7.0	9.9	26.6	31.3	30.3	2.7	0.6	5.2	13.8	8.5	2.7	54.9	8.4	11.0
Clayton	14.1	6.5	6.6	56.8	5.5	9.7	28.3	18.9	35.3	8.3	0.6	5.7	11.7	4.4	1.9	64.9	6.3	10.3
Clinton	15.3	14.0	8.7	25.5	12.3	23.7	22.4	28.6	27.3	1.4	1.0	18.5	13.5	10.3	3.9	31.7	15.2	25.0
Crawford	14.4	7.6	7.1	58.2	4.9	7.2	34.2	19.8	37.5	4.3	0.3	2.6	11.2	5.6	2.2	66.9	5.7	8.0
Dallas	16.1	10.4	8.1	39.5	8.4	16.7	30.5	25.4	36.6	1.8	0.4	3.5	13.4	7.6	2.8	46.6	9.9	19.2
Davis	11.5	7.0	5.6	63.1	4.7	6.9	30.0	22.8	33.5	7.7	0.2	3.5	8.7	4.6	1.4	71.5	5.3	7.4
Decatur	15.3	7.4	6.6	54.8	5.6	8.8	35.3	20.0	31.8	5.6	1.0	4.5	11.7	5.2	2.1	63.6	6.5	9.6
Delaware	13.1	7.7	7.5	56.3	5.0	9.5	27.5	19.3	40.7	4.7	0.2	4.0	10.6	5.6	1.7	65.3	5.8	10.5
Des Moines	16.1	17.5	9.8	18.2	13.2	23.9	19.8	29.7	25.9	1.6	0.8	20.2	14.9	13.7	4.7	23.3	17.0	25.1
Dickinson	17.9	9.7	9.3	44.6	6.9	10.9	29.7	23.3	39.5	3.1	0.4	2.7	15.6	7.0	3.4	52.7	8.1	12.4
Dubuque	17.8	17.7	11.0	17.0	11.5	24.3	22.3	28.2	28.4	1.7	0.8	17.3	16.2	13.9	4.7	22.5	15.3	26.8
Emmet	16.0	12.0	8.6	42.1	8.3	12.5	26.5	27.3	37.2	3.4	0.5	4.1	13.9	8.9	2.8	50.0	9.9	14.2
Fayette	14.3	9.9	6.6	46.4	9.5	12.7	29.2	27.3	32.5	3.7	0.5	5.2	11.9	7.0	2.3	53.5	11.0	13.9
Floyd	15.0	11.3	7.6	37.8	11.2	14.9	25.7	28.3	33.4	2.6	0.6	3.8	12.7	7.6	2.1	45.3	13.4	17.2
Franklin	12.7	7.3	6.1	59.6	5.1	8.1	31.0	22.6	36.2	3.3	0.0	2.7	10.1	5.0	1.7	67.8	5.8	8.8
Fremont	14.2	8.3	7.2	56.8	5.2	7.7	29.5	24.4	35.0	5.5	0.3	2.9	11.4	5.3	2.0	66.3	6.1	8.6
Greene	14.8	9.2	7.2	53.4	5.3	9.3	28.2	24.8	33.8	6.9	0.9	3.0	12.2	6.2	2.1	62.4	6.1	10.5
Grundy	13.0	6.4	6.2	60.0	5.4	7.7	28.9	18.0	36.5	8.5	0.5	4.4	10.5	4.6	1.5	67.9	6.2	8.2
Guthrie	15.1	7.3	6.3	56.7	5.1	8.5	35.0	20.1	33.5	4.9	0.4	3.3	11.8	5.2	1.9	65.1	5.9	9.4
Hamilton	14.9	10.1	7.9	47.4	7.3	11.8	24.7	27.5	34.5	3.7	0.9	7.8	13.0	6.8	2.8	55.8	8.6	12.5
Hancock	12.9	6.5	6.3	60.2	5.0	8.3	29.5	18.3	35.8	7.0	0.6	5.7	10.3	4.7	1.7	68.4	5.7	8.7
Hardin	17.3	11.3	8.8	42.1	7.5	12.0	27.8	25.4	37.0	2.3	0.7	5.0	15.2	8.4	3.0	50.3	9.0	13.4
Harrison	14.8	8.4	7.1	52.9	6.2	9.9	33.7	22.9	33.4	5.9	0.2	2.5	11.5	5.9	2.6	61.0	7.3	11.2
Henry	16.1	9.2	9.2	46.3	6.7	11.4	25.8	24.2	33.5	3.8	1.0	9.8	14.0	6.0	4.0	55.3	7.9	11.7
Howard	14.2	7.8	7.4	56.6	5.6	7.9	28.6	22.5	37.3	4.8	1.0	4.2	11.6	5.1	2.0	65.9	6.4	8.5
Humboldt	16.4	8.0	7.6	50.2	6.0	10.1	32.8	19.0	33.9	5.3	0.4	3.9	13.3	5.9	2.6	58.8	7.0	11.3
Ida	14.7	8.1	7.2	55.1	4.9	7.9	29.5	24.2	34.8	2.0	0.7	4.3	12.0	5.2	2.2	64.7	5.7	8.6
Iowa	13.2	7.3	6.0	56.8	5.7	10.4	29.3	20.5	30.7	7.3	0.1	10.5	10.6	5.2	2.1	64.7	6.6	10.4
Jackson	13.9	7.7	7.7	53.6	6.7	9.8	30.0	20.5	38.0	4.9	1.1	3.8	11.0	5.4	2.1	62.5	7.7	10.9
Jasper	13.9	10.9	7.4	39.3	9.7	17.4	26.2	31.1	31.5	2.0	1.2	5.7	11.5	7.0	2.8	46.4	11.4	19.6

*See Table 6 for the category titles; generally, first letters of occupations have been used.

Table 12. Percentages in Occupational Categories for Total Employed and Employed Females and Males 14 Years of Age and Older in Iowa Counties, 1940 (continued).

County	Total						Females						Males					
	PSMP*	SC	Ser	FFFF	CF	OL	PSMP	SC	Ser	FFFF	CF	OL	PSMP	SC	Ser	FFFF	CF	OL
Jefferson	15.7	10.7	8.0	41.1	8.5	15.0	25.9	26.4	32.3	2.8	0.6	9.5	13.5	7.4	2.9	49.1	10.1	16.2
Johnson	24.4	13.4	12.8	30.6	7.4	10.5	35.6	25.6	31.6	1.4	0.6	4.2	20.4	9.0	6.0	41.2	9.9	12.9
Jones	13.0	7.6	8.4	52.6	5.3	12.4	20.4	17.6	28.0	14.9	0.6	17.1	11.3	5.3	3.9	61.1	6.3	11.3
Keokuk	14.6	6.8	5.6	56.7	5.8	9.5	33.1	24.4	32.5	3.9	0.1	3.1	12.1	4.4	2.0	63.8	6.6	10.3
Kossuth	14.4	8.5	7.7	55.9	5.3	7.4	28.1	22.5	40.6	2.9	0.2	3.2	12.1	6.2	2.2	64.8	6.1	8.1
Lee	15.2	14.8	10.4	19.2	11.6	27.4	17.0	29.4	23.8	1.3	0.9	25.2	14.6	10.3	6.3	24.7	14.9	28.1
Linn	17.9	21.3	11.5	14.1	13.0	21.7	18.6	36.8	31.2	1.1	0.8	10.6	17.7	16.2	5.1	18.4	16.9	25.3
Louisa	14.1	7.9	6.2	54.6	5.1	10.9	31.3	23.7	31.5	6.5	1.6	3.1	11.3	5.3	2.2	62.4	5.7	12.1
Lucas	14.3	10.0	5.9	50.2	5.8	12.1	32.9	26.5	30.2	4.0	0.9	2.9	11.2	7.4	1.9	57.7	6.6	13.6
Lyon	13.8	6.5	5.9	60.2	4.7	8.3	34.3	19.5	35.2	6.2	0.5	3.1	10.8	4.6	1.6	68.2	5.3	9.0
Madison	11.9	8.2	7.0	57.5	5.1	9.5	28.3	22.3	38.5	6.8	0.2	2.0	9.3	5.9	2.0	65.5	5.9	10.7
Mahaska	15.8	11.5	7.4	42.0	7.2	15.1	26.7	26.8	27.6	3.8	0.8	12.3	13.4	8.1	2.9	50.5	8.6	15.7
Marion	15.1	8.9	10.4	39.4	5.6	18.8	29.2	22.9	32.5	3.2	0.4	8.9	12.4	6.2	6.1	46.5	6.6	20.7
Marshall	16.4	14.3	9.6	28.2	11.9	18.6	23.9	29.8	31.9	2.7	0.9	8.8	14.4	10.2	3.7	34.9	14.8	21.1
Mills	14.0	7.3	10.0	51.3	6.4	10.5	28.0	17.3	43.0	3.4	1.3	6.5	11.0	5.1	2.9	61.6	7.5	11.4
Mitchell	13.8	7.9	7.5	54.1	5.8	10.1	25.9	20.8	35.7	8.9	0.6	7.0	11.4	5.3	1.9	63.2	6.8	10.7
Monona	14.4	7.8	7.3	53.4	5.7	10.5	28.6	21.2	36.7	6.2	0.1	4.8	11.8	5.4	2.0	62.0	6.7	11.6
Monroe	14.1	9.0	5.9	48.3	4.3	16.8	31.1	28.6	30.6	2.9	0.5	3.0	11.3	5.8	1.8	55.7	4.9	19.1
Montgomery	16.4	11.9	8.5	42.5	7.9	12.2	27.2	28.0	32.0	2.0	1.8	7.4	14.0	8.4	3.3	51.5	9.2	13.3
Muscataine	14.3	12.3	9.0	25.2	9.6	28.8	17.2	22.7	26.8	1.3	0.7	30.0	13.5	9.3	3.9	32.0	12.1	28.4
O'Brien	15.7	10.4	8.8	46.3	7.0	10.4	24.6	23.3	38.5	3.6	0.6	6.0	13.8	7.8	2.7	55.0	8.4	11.3
Osceola	13.5	7.3	6.4	57.6	5.4	9.1	30.9	19.6	37.2	6.7	0.4	3.1	10.7	5.3	1.6	65.5	6.2	10.1
Page	15.9	15.3	10.7	39.2	6.5	11.5	20.6	35.9	32.4	2.9	0.6	5.9	14.6	9.2	4.3	49.9	8.2	13.2
Palo Alto	14.9	8.5	6.8	54.8	5.1	9.1	32.0	22.4	35.9	5.3	1.0	1.7	12.1	6.2	2.0	62.9	5.7	10.3
Plymouth	13.4	8.4	7.4	56.6	5.0	8.0	30.6	20.9	38.0	3.6	0.3	3.4	10.5	6.3	2.2	65.6	5.8	8.7
Pocahontas	15.4	7.9	6.6	55.8	5.0	8.8	32.8	24.0	34.4	3.8	0.1	3.5	12.5	5.3	2.0	64.4	5.8	9.6
Polk	19.7	29.2	14.3	5.1	11.4	19.0	17.1	44.1	25.6	0.3	0.9	10.4	20.8	22.8	9.3	7.2	15.9	22.8
Pottawattamie	16.4	18.8	9.5	25.5	12.0	17.1	26.2	34.6	28.1	1.8	0.8	7.1	13.7	14.5	4.4	31.9	15.0	19.8
Poweshiek	14.6	9.4	7.6	48.7	6.8	11.7	27.6	22.9	32.8	1.9	1.3	11.0	12.1	6.7	2.6	57.9	7.9	11.9
Ringgold	13.6	6.7	4.2	63.4	4.6	6.0	45.3	19.5	22.9	7.7	0.5	1.2	9.4	4.9	1.6	70.9	5.1	6.7
Sac	15.3	8.4	8.5	51.3	6.1	8.9	27.4	22.3	38.9	1.7	0.7	4.8	12.9	5.8	2.6	60.9	7.1	9.8
Scott	16.2	21.7	11.3	10.4	15.9	24.2	17.2	38.5	29.1	1.0	1.2	12.6	15.9	16.4	5.7	13.3	20.5	27.9
Shelby	12.6	7.0	6.3	59.8	5.0	8.6	29.6	21.5	35.5	6.6	0.4	3.5	10.0	4.8	1.9	67.8	5.7	9.3
Sioux	14.4	6.9	6.8	56.8	5.4	8.5	31.7	17.2	38.3	8.4	0.3	1.3	11.7	5.2	1.9	64.4	6.2	9.7
Story	23.1	15.7	11.0	28.9	7.9	11.5	24.6	34.8	30.8	1.8	0.4	4.5	22.7	9.6	4.8	37.5	10.2	13.7
Tama	14.3	6.9	7.0	53.4	6.5	11.2	26.6	19.5	37.4	6.7	0.8	7.0	12.1	4.8	1.8	61.5	7.5	11.9
Taylor	13.6	7.6	6.9	57.4	5.0	8.8	32.6	20.8	34.8	5.5	0.7	4.1	10.2	5.3	1.8	66.8	5.8	9.6
Union	18.8	13.2	9.0	37.4	8.8	11.6	28.4	28.9	32.4	2.1	0.4	5.4	16.5	9.6	3.6	45.5	10.7	13.1
Van Buren	15.5	6.0	5.2	58.1	4.7	9.8	36.3	17.8	25.7	9.6	0.2	8.1	12.1	4.1	1.8	66.1	5.4	10.0
Wapello	15.9	17.1	9.2	15.1	11.0	30.8	21.3	32.4	28.2	0.9	0.5	15.2	14.5	13.1	4.2	18.8	13.7	34.9
Warren	14.5	7.5	5.9	54.7	5.3	10.3	36.3	21.3	30.5	4.2	0.4	3.1	11.2	5.3	2.1	62.5	6.1	11.3
Washington	15.3	10.4	8.0	47.0	6.2	12.3	25.6	22.5	32.0	4.3	0.6	13.0	13.0	7.8	2.7	56.4	7.5	12.1
Wayne	15.0	7.5	5.8	54.1	5.2	11.4	36.7	22.8	30.2	4.6	0.6	3.4	11.8	5.2	2.1	61.6	5.9	12.5
Webster	17.1	17.7	9.4	26.1	9.0	19.5	23.5	33.8	28.9	1.5	0.7	9.6	15.4	13.3	4.1	32.8	11.3	22.2
Winnebago	15.3	8.1	7.4	52.5	6.5	9.6	29.4	21.5	36.8	4.7	0.7	5.7	12.6	5.6	2.0	61.4	7.6	10.3
Winneshiok	13.7	7.3	7.0	57.6	5.2	8.2	28.1	22.1	36.7	6.3	0.2	4.0	11.4	5.0	2.2	65.7	6.0	8.9
Woodbury	19.7	21.9	12.7	13.3	11.0	20.4	21.2	31.7	29.4	4.5	0.8	10.4	19.2	18.2	6.4	16.7	14.8	24.2
Worth	13.2	6.1	6.3	58.1	6.4	8.8	29.2	19.7	36.9	8.8	0.4	2.6	10.7	4.0	1.5	65.9	7.4	9.7
Wright	15.0	10.0	7.9	47.1	8.1	10.8	27.9	23.6	38.2	4.0	0.1	3.7	12.6	7.4	2.2	55.2	9.7	12.1
State of Iowa	16.0	13.9	9.2	35.4	8.8	15.7	23.8	30.0	31.3	2.8	0.7	9.5	14.1	10.0	3.8	43.4	10.8	17.3

Table 13. Percentage Change in Employment in General Occupational Categories of Females and Males 16 Years of Age and Older, 1980 to 1990.

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
Adair	-3.7	10.1	-11.9	15.0	35.2	-3.9	16.1	9.0	35.0	-7.4	-7.9	-5.6	-30.7	-47.3	-28.3	-15.5	12.5	-17.2	18.1	102.8	0.0
Adams	-12.3	-10.6	-13.6	-37.0	-39.0	-35.0	0.2	11.4	-22.9	27.9	14.1	95.6	-30.5	-63.2	-22.4	-22.6	18.8	-25.9	17.2	-1.0	24.1
Allamakee	3.6	13.5	-3.4	-9.2	13.5	-27.5	25.7	26.8	23.6	16.4	17.6	11.9	-25.7	-39.1	-22.3	9.3	83.0	3.5	30.8	20.1	38.4
Appanoose	1.0	8.4	-4.3	9.2	30.6	-6.6	7.0	15.3	-7.2	3.1	-4.1	24.1	-30.4	-82.4	-19.4	-21.2	-31.9	-20.5	21.6	29.5	18.6
Audubon	-6.6	10.1	-16.7	-0.2	19.5	-15.2	12.1	5.3	30.0	13.1	11.9	17.6	-28.0	14.1	-31.5	-27.2	-40.0	-25.2	-4.6	31.9	-10.7
Benton	0.3	14.7	-9.1	24.6	67.9	-6.2	22.0	22.0	21.9	5.0	-6.1	55.8	-28.0	-35.2	-26.9	3.0	64.5	-4.2	-16.9	-5.3	-20.9
Black Hawk	-9.3	2.9	-18.1	3.5	20.5	-9.3	1.4	0.4	3.6	6.6	2.9	14.1	-13.2	-21.5	-10.9	-27.1	-23.5	-27.4	-34.5	-17.1	-37.7
Boone	3.8	15.1	-4.6	9.0	30.7	-8.8	16.6	18.9	11.8	10.1	10.9	8.3	-33.1	1.4	-38.0	9.8	-37.4	13.7	-5.8	-0.9	-7.3
Bremer	1.9	16.9	-7.7	24.3	70.0	-5.1	3.8	-2.1	16.5	12.6	6.9	29.4	-20.1	-17.2	-20.6	-0.4	-39.1	2.4	-14.2	97.2	-26.5
Buchanan	-3.9	11.8	-13.3	21.4	43.2	2.6	11.6	24.5	-12.3	6.2	-3.4	45.9	-22.7	-40.4	-18.6	3.5	125.5	-1.6	-29.6	-18.0	-31.5
Buena Vista	3.2	11.0	-2.1	10.0	35.9	-7.1	7.4	9.2	4.2	1.5	-1.5	9.8	-32.5	-50.0	-29.8	29.6	122.5	20.9	8.2	11.0	7.5
Butler	-3.6	12.0	-12.9	8.9	26.4	-4.4	9.3	7.6	13.4	16.7	12.2	40.7	-18.2	-44.1	-12.0	-17.0	34.1	-19.4	-12.8	95.8	-27.3
Calhoun	-9.5	9.2	-20.8	2.5	24.5	-14.4	0.3	-3.0	6.6	12.6	12.6	12.8	-38.1	43.1	-42.3	-15.2	-14.8	-15.2	-11.5	12.1	-16.5
Carroll	-1.9	9.7	-9.8	8.4	35.8	-11.8	16.7	9.5	32.4	7.3	10.7	-4.0	-26.7	-28.7	-26.6	-13.0	153.7	-21.0	-11.1	-32.8	-1.6
Cass	-7.9	0.1	-13.8	3.7	14.9	-5.0	-1.5	1.2	-6.6	-19.1	-19.2	-18.8	-25.1	-28.2	-24.7	-2.5	29.4	-4.0	-5.8	68.2	-20.5
Cedar	2.3	17.3	-7.4	-1.6	24.3	-21.8	39.8	31.3	59.6	0.9	-5.5	21.7	-28.8	-20.4	-30.2	-18.6	13.6	-22.4	13.9	35.2	7.6
Cerro Gordo	3.4	11.8	-3.4	7.3	32.1	-10.5	9.4	3.2	22.3	15.6	10.1	28.8	-33.0	-32.3	-33.1	-14.5	96.9	-22.2	2.5	6.3	1.2
Cherokee	-8.8	7.6	-18.7	-18.5	-12.2	-24.3	9.7	7.5	15.3	-3.6	-5.3	1.5	-37.4	-2.5	-39.5	-22.6	51.9	-27.2	25.3	158.5	4.4
Chickasaw	-3.7	10.4	-12.5	-1.8	29.6	-20.6	3.0	3.2	2.7	17.3	16.4	20.7	-22.7	-37.5	-19.3	-7.6	49.0	-11.5	-4.6	21.9	-13.6
Clarke	9.2	24.2	-1.4	24.8	59.4	-4.9	20.7	4.0	59.0	44.3	37.5	68.2	-41.7	-56.7	-39.4	15.7	193.9	0.3	14.8	25.2	9.2
Clay	-3.4	7.0	-10.8	7.5	32.2	-12.6	1.5	6.4	-6.9	-1.1	1.7	-7.0	-27.0	7.7	-31.2	-15.0	28.4	-18.1	1.2	-23.2	12.7
Clayton	-4.1	5.8	-10.5	-0.6	25.9	-20.4	7.4	14.0	-4.5	0.5	3.0	-10.5	-24.7	-33.8	-22.2	10.3	79.8	1.8	3.0	1.1	3.9
Clinton	-9.6	-0.4	-15.7	-5.6	8.3	-16.2	2.8	6.2	-4.4	2.8	4.7	-0.4	-35.0	-42.8	-33.7	-16.6	-13.9	-16.8	-20.1	-28.0	-17.6
Crawford	-3.6	10.0	-11.7	12.9	62.9	-16.0	26.2	21.8	36.9	-2.3	-1.8	-3.7	-31.5	-35.3	-31.0	-26.5	-28.9	-26.2	1.6	-27.0	9.4
Dallas	13.1	24.4	4.8	19.9	49.9	-3.2	36.4	24.9	61.9	18.8	17.4	22.1	-7.7	-26.5	-5.0	-13.1	-17.4	-12.9	-6.8	-1.7	-7.8
Davis	2.3	17.1	-6.7	26.1	30.6	21.5	18.0	22.3	8.2	-13.2	-0.5	-51.5	-13.4	-14.6	-13.1	-21.7	64.9	-29.1	17.1	78.6	10.0
Decatur	-6.5	-2.5	-9.5	3.5	15.5	-6.6	-3.0	-18.4	34.7	-20.0	-14.1	-33.8	-22.4	15.1	-25.8	-9.4	60.6	-16.4	11.3	31.4	2.7
Delaware	4.0	17.0	-4.2	14.8	36.9	-0.8	32.5	26.3	46.1	6.3	3.4	18.4	-17.1	-19.9	-16.4	6.5	251.9	-7.6	-4.8	7.1	-8.8
Des Moines	-3.0	7.8	-10.8	7.1	34.9	-13.0	-1.3	1.8	-7.1	12.1	10.4	15.0	-36.2	-35.1	-36.3	0.0	40.2	-5.3	-16.7	-16.6	-16.7
Dickinson	3.0	16.5	-6.2	22.1	56.2	1.9	15.4	15.6	14.9	-1.6	-7.0	13.3	-27.5	-26.3	-27.7	-14.8	32.0	-18.9	3.5	18.7	-3.1
Dubuque	0.7	11.0	-6.9	11.2	31.7	-3.8	15.7	14.0	19.4	3.3	-2.3	15.6	0.7	19.2	-2.7	-14.8	-29.8	-13.4	-19.9	-0.7	-24.4
Emmet	-9.0	5.0	-17.9	2.7	43.5	-23.0	4.7	6.3	1.6	14.2	9.5	28.2	-24.5	1.3	-27.5	-29.3	-61.2	-26.1	-26.2	-47.3	-20.6
Fayette	-9.1	1.6	-15.8	-7.1	12.3	-20.9	2.1	-4.4	16.4	-7.3	-0.5	-24.6	-15.3	-15.4	-15.2	-11.4	89.0	-19.0	-16.7	4.3	-22.9
Floyd	-3.6	11.2	-13.3	5.3	20.2	-6.4	7.0	8.1	5.1	9.8	14.2	-3.2	-26.8	-51.7	-21.9	-19.2	50.9	-23.6	-7.5	37.1	-15.4
Franklin	-4.4	16.4	-16.5	12.6	48.4	-13.7	10.6	24.8	-12.6	-7.3	-9.1	-1.9	-22.4	16.4	-28.2	-29.0	-5.1	-30.6	8.5	14.5	7.1

Table 13. Percentage Change in Employment in General Occupational Categories of Females and Males 16 Years of Age and Older, 1980 to 1990 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male	Total	Female Male							
Fremont	-10.7	0.1	-17.9	4.1	30.9	-25.5	18.5	9.1	50.0	-1.0	-0.5	-2.4	-33.6	-61.1	-29.8	-2.2	33.3	-5.1	-32.2	-42.1	-29.0
Greene	-12.9	-4.4	-18.9	-8.7	9.4	-24.9	0.4	-5.0	14.3	-10.6	-12.9	-1.9	-33.1	-28.3	-33.8	-5.7	147.1	-11.3	-14.0	-7.1	-15.9
Grundy	-11.7	3.2	-20.5	0.4	26.0	-17.8	3.3	1.9	6.0	14.5	10.7	31.5	-27.6	-55.3	-23.2	-23.7	-29.1	-23.2	-29.0	-5.7	-34.2
Guthrie	3.2	16.2	-5.4	22.3	41.2	4.6	35.4	21.6	80.4	4.3	1.5	14.5	-48.9	-47.9	-49.0	7.9	200.0	-0.9	17.4	-1.6	21.6
Hamilton	-3.5	8.4	-11.6	1.7	22.0	-13.0	1.9	3.3	-1.3	11.1	0.8	43.4	-24.3	-40.8	-22.6	-11.4	151.9	-20.6	-1.8	17.3	-8.9
Hancock	1.0	16.9	-8.7	11.9	35.6	-5.3	6.5	11.8	-3.3	9.7	11.2	5.3	-28.1	-26.0	-28.4	-15.0	20.3	-18.7	37.5	51.6	32.5
Hardin	-8.6	4.4	-17.1	1.1	36.9	-19.4	-0.5	-9.1	17.3	-3.2	-2.4	-6.2	-25.0	46.5	-31.0	-15.2	1.1	-16.7	-16.5	11.5	-23.9
Harrison	4.1	23.1	-8.1	13.7	37.0	-8.1	22.5	25.1	17.0	11.9	13.5	7.3	-34.9	-53.0	-33.0	-7.5	60.5	-10.9	17.8	56.9	9.5
Henry	10.5	17.0	5.4	15.8	39.4	-0.5	14.4	14.7	13.9	15.5	13.8	19.7	-27.2	-43.8	-24.3	1.5	34.2	-1.1	25.2	17.0	29.3
Howard	-3.2	6.5	-9.3	12.1	52.2	-11.2	-6.0	3.6	-21.0	12.8	3.9	78.3	-15.7	-19.0	-14.8	-22.5	8.8	-24.7	6.6	-1.7	10.0
Humboldt	-9.3	4.4	-17.4	1.1	30.0	-20.7	9.6	-1.6	33.7	-18.8	-10.6	-40.2	-43.1	-48.8	-42.3	-14.4	720.0	-20.1	4.1	67.3	-4.6
Ida	-0.6	15.0	-9.9	0.6	13.2	-11.4	22.1	20.6	24.9	10.5	16.3	-15.4	-27.3	2.7	-31.0	4.1	40.9	1.9	7.3	-3.2	9.8
Iowa	-0.5	5.0	-4.8	16.9	54.6	-9.3	0.1	-1.7	3.9	0.0	-4.8	18.5	-21.5	-3.7	-24.2	16.2	84.6	5.7	-5.6	-22.0	1.8
Jackson	-1.7	10.1	-9.6	3.9	18.5	-8.6	13.9	20.9	1.3	8.0	3.2	24.7	-19.2	-42.1	-13.8	10.0	73.0	0.7	-16.8	-0.8	-22.5
Jasper	2.6	10.7	-3.2	6.8	36.6	-13.3	14.6	13.9	16.3	-2.0	0.3	-7.7	-30.4	-43.5	-27.9	28.5	68.4	25.2	-8.5	-8.0	-8.6
Jefferson	6.4	15.5	0.3	43.0	53.0	35.4	19.5	2.3	54.3	9.1	17.6	-7.4	-35.2	-7.7	-37.5	6.6	74.6	0.6	-26.6	-16.4	-30.2
Johnson	23.9	25.9	22.1	37.4	44.6	31.4	28.2	20.2	43.0	24.6	17.3	35.5	-17.2	-11.6	-18.1	-3.7	25.4	-6.8	6.1	6.0	6.1
Jones	0.9	13.2	-7.1	7.6	32.4	-12.8	12.1	14.2	8.1	17.8	19.3	14.5	-8.2	18.5	-11.8	-7.3	8.7	-10.1	-11.2	-15.8	-9.1
Keokuk	-3.2	8.4	-10.5	3.6	42.2	-28.8	13.0	8.0	23.5	-3.5	-4.9	1.2	-27.8	-37.6	-26.6	18.9	188.2	6.8	-5.1	-5.2	-5.1
Kossuth	-8.6	6.2	-17.5	10.2	59.5	-20.5	4.5	2.2	9.7	4.9	8.1	-6.9	-25.6	-32.0	-24.7	-20.8	-33.3	-19.5	-17.8	-20.0	-17.1
Lee	-7.2	1.9	-13.6	-2.5	32.4	-23.4	-4.5	-6.1	-1.2	14.6	14.5	14.9	-32.0	-37.8	-31.1	-18.4	39.8	-22.5	-11.4	-17.3	-8.5
Linn	5.3	13.2	-0.8	25.7	52.3	9.6	13.3	9.6	20.0	12.6	13.1	11.6	-16.3	-1.3	-19.1	-6.0	31.5	-10.6	-25.2	-32.4	-22.0
Louisa	4.2	11.0	0.0	15.6	37.6	-0.8	1.6	7.7	-9.0	18.7	25.4	2.6	-22.0	-40.0	-19.8	9.5	94.4	2.7	4.6	-17.4	15.4
Lucas	-9.3	2.2	-17.0	-14.9	-1.3	-25.3	-4.3	-10.2	10.7	-12.5	-8.8	-24.0	-14.6	135.0	-25.9	-37.9	-37.0	-38.0	13.8	96.1	-0.8
Lyon	1.1	14.3	-7.0	10.3	51.2	-12.1	25.8	22.3	35.8	-0.8	-1.5	2.6	-28.2	-48.3	-25.1	21.9	61.5	19.3	11.5	37.8	1.6
Madison	11.5	30.7	-0.8	36.6	92.5	-0.4	28.2	32.5	19.6	13.6	0.5	87.5	-31.4	-30.2	-31.5	14.3	47.6	11.0	3.5	37.7	-1.5
Mahaska	2.0	12.8	-5.0	11.0	42.6	-10.1	9.4	3.2	24.7	8.5	8.3	8.8	-14.3	36.7	-21.0	-2.5	6.3	-3.1	-4.5	4.0	-6.8
Marion	11.5	24.9	1.7	29.4	76.2	-2.0	26.7	28.5	23.0	11.7	12.4	10.4	-27.2	-49.6	-23.9	11.3	0.8	12.5	-2.5	-3.7	-2.1
Marshall	-3.3	5.8	-9.8	3.0	17.0	-7.6	.5	3.7	-5.1	7.8	7.4	8.7	-34.9	-31.8	-35.5	-8.4	8.4	-10.2	-8.4	-6.9	-8.8
Mills	9.1	20.5	0.5	5.1	35.6	-20.8	41.5	27.6	77.1	17.1	7.1	43.0	-29.9	-1.8	-32.3	8.5	-16.7	10.6	-5.0	23.5	-10.6
Mitchell	0.3	14.1	-8.5	1.9	20.4	-15.4	33.9	39.1	25.6	-24.1	-20.4	-42.2	-34.6	-30.4	-35.3	-8.3	91.9	-15.1	47.2	77.0	37.7
Monona	-8.2	12.1	-19.8	18.6	39.7	3.4	14.8	24.1	-3.0	-2.9	-5.1	7.1	-42.1	-26.0	-43.4	-4.5	-18.9	-2.7	-8.8	18.1	-13.1
Monroe	-11.3	-6.8	-14.6	3.5	35.3	-13.9	-6.7	-0.3	-21.4	-9.1	-20.0	30.3	-35.2	45.0	-40.7	-3.2	-51.9	8.0	-12.2	-20.8	-8.4
Montgomery	-2.9	5.4	-8.8	8.7	61.5	-20.4	18.6	18.5	18.9	-9.0	-12.7	2.6	-33.4	-55.2	-31.6	-3.7	61.6	-12.3	-8.5	-33.5	7.2
Muscatine	5.5	15.5	-1.2	3.5	22.4	-8.5	9.2	8.5	10.8	20.1	25.9	8.3	-34.5	-42.2	-33.1	-2.9	39.6	-6.2	10.7	16.5	8.8

Table 13. Percentage Change in Employment in General Occupational Categories of Females and Males 16 Years of Age and Older, 1980 to 1990 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers								
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male						
O'Brien	0.6	18.9	-10.2	23.3	57.2	2.0	8.0	4.4	14.6	6.8	12.4	-9.1	-29.7	41.3	-35.2	-9.0	-27.7	-7.3	8.5	30.2	1.9
Osceola	-4.2	7.4	-11.2	11.6	59.3	-15.7	13.7	10.2	24.0	-4.2	-12.4	33.3	-29.3	-10.6	-30.8	-5.2	-26.8	-2.1	3.4	3.0	3.5
Page	-7.9	0.6	-13.9	-7.8	2.4	-15.3	-3.5	-1.0	-8.2	-0.1	2.9	-6.9	-29.3	-23.1	-30.1	1.5	57.8	-1.8	-8.2	0.5	-11.4
Palo Alto	-8.2	2.5	-15.1	-8.4	31.5	-35.3	-8.1	-17.6	14.6	19.3	9.6	56.3	-25.3	-19.2	-26.0	-18.7	100.0	-27.4	-2.5	-2.7	-2.4
Plymouth	4.7	17.4	-3.3	17.4	45.1	-2.9	12.6	9.6	18.2	12.1	-2.0	65.2	-29.7	3.3	-32.0	-5.4	3.4	-6.6	29.7	85.0	17.2
Pocahontas	-8.0	5.6	-16.7	-5.2	30.2	-28.6	15.3	13.8	18.2	-15.3	-12.1	-28.1	-26.0	-6.6	-28.1	-15.7	-22.9	-15.1	0.7	15.0	-2.3
Polk	15.8	21.6	10.7	26.2	47.7	10.2	21.2	14.1	36.0	14.2	16.3	11.3	30.0	27.5	30.4	-7.1	-8.7	-6.9	-0.8	9.4	-3.0
Pottawattamie	5.2	16.1	-3.1	11.4	33.5	-6.9	13.0	13.5	12.1	10.3	8.8	13.0	-30.0	-10.1	-32.9	-3.6	-4.0	-3.5	-0.4	21.2	-5.6
Poweshiek	7.3	16.4	0.5	18.1	36.5	5.0	16.1	16.5	15.3	11.7	2.7	39.9	-25.6	69.3	-34.3	23.3	-26.9	27.8	-2.6	7.9	-6.6
Ringgold	-6.4	2.8	-12.2	2.0	25.1	-20.5	16.8	20.4	9.9	-8.6	-7.4	-13.7	-31.5	-48.7	-29.5	11.1	31.6	9.1	3.1	-19.8	14.2
Sac	-7.4	8.2	-16.5	-5.0	35.2	-32.2	8.3	8.9	6.9	5.2	1.7	21.3	-22.2	-3.8	-23.8	-19.8	51.0	-25.0	-6.9	-22.0	-1.4
Scott	-2.4	10.3	-11.3	12.2	45.4	-8.7	3.8	1.1	8.6	3.5	6.1	-0.8	-22.9	-34.1	-20.2	-20.5	4.0	-22.8	-19.3	-9.4	-21.8
Shelby	-2.0	22.7	-15.6	4.3	24.8	-13.9	24.2	34.1	6.2	13.6	21.0	-10.1	-22.4	-15.8	-22.9	-22.7	29.3	-25.7	-11.3	-20.7	-9.9
Sioux	11.6	28.0	1.2	25.9	69.4	-0.5	43.1	39.7	49.8	12.6	14.8	5.7	-16.4	-9.2	-17.1	-4.8	34.7	-8.1	3.1	-8.4	8.4
Story	15.1	15.5	14.7	31.4	50.9	19.9	18.8	11.2	32.5	10.7	5.3	19.2	-13.0	-44.1	-7.7	-15.4	-1.5	-16.6	6.0	-27.7	21.0
Tama	-1.3	18.7	-13.1	2.7	44.7	-26.0	20.5	26.4	7.0	11.2	9.1	19.4	-34.1	-28.0	-35.0	1.7	12.3	0.8	-1.6	7.5	-3.5
Taylor	-12.9	-8.9	-15.6	-5.6	21.8	-29.8	-6.2	-11.6	5.2	-14.9	-19.5	4.3	-33.1	-31.8	-33.3	-6.5	12.9	-8.4	1.3	-6.2	4.8
Union	-1.2	5.9	-6.4	8.3	18.0	0.0	-13.4	-10.8	-17.9	1.4	-17.6	53.3	-38.3	-43.2	-37.4	2.2	160.0	-11.3	29.7	111.8	8.3
Van Buren	-2.1	8.6	-8.6	44.2	70.9	17.7	0.2	5.0	-8.7	10.1	11.4	5.8	-38.5	-37.4	-38.7	42.8	11.1	47.5	-11.6	-17.4	-9.3
Wapello	-3.2	10.3	-12.2	-2.0	29.6	-23.8	4.9	1.0	12.7	7.9	10.1	2.7	-19.2	10.0	-25.1	-12.0	29.8	-14.3	-11.8	9.9	-16.1
Warren	17.9	32.4	7.3	31.8	57.6	11.4	28.3	28.5	27.8	38.8	24.5	67.6	-20.8	34.7	-26.5	3.1	16.7	2.3	-6.8	7.5	-9.3
Washington	6.0	17.0	-1.9	-0.7	27.4	-22.6	25.3	15.0	48.1	32.1	29.8	39.3	-24.0	-20.3	-24.4	-11.8	29.9	-14.8	6.9	-4.6	12.3
Wayne	-3.8	11.5	-13.6	2.8	35.5	-25.7	2.4	3.5	-0.5	-5.7	-6.2	-4.0	-21.4	36.8	-26.4	-18.8	-3.2	-20.3	18.6	46.7	11.4
Webster	-12.7	-8.5	-16.0	3.4	14.2	-5.8	-11.9	-13.5	-8.9	-15.1	-17.1	-10.4	-36.7	-62.8	-31.6	-22.3	-2.1	-23.8	-11.7	10.8	-17.1
Winnebago	4.6	11.8	-0.5	26.5	38.7	16.9	16.6	15.6	18.6	-3.3	-17.8	54.1	-28.8	-21.7	-29.3	-21.7	85.0	-28.1	25.7	27.6	24.7
Winneshiek	8.9	18.5	1.9	30.3	26.8	33.6	25.5	16.5	45.9	23.2	26.7	13.8	-19.0	-20.4	-18.6	-13.8	221.8	-30.5	11.3	-7.9	20.8
Woodbury	5.7	14.5	-0.8	4.5	32.4	-14.9	9.6	7.2	13.9	14.4	11.0	20.9	-22.8	-42.6	-20.5	0.5	25.3	-2.3	3.3	21.0	-0.6
Worth	-3.6	8.3	-11.7	-7.0	20.1	-27.4	8.8	0.5	30.8	2.7	9.8	-25.5	-28.0	-31.3	-27.6	-21.3	83.3	-29.5	19.1	15.5	20.4
Wright	-3.1	13.7	-13.7	-5.5	24.7	-26.1	23.4	28.5	13.7	-2.4	-1.1	-7.6	-35.8	-58.5	-32.2	-18.0	127.3	-24.3	8.4	9.4	8.0
State of Iowa	2.7	13.0	-4.7	14.6	38.0	-2.2	12.9	10.0	18.5	8.6	6.7	12.8	-25.4	-23.7	-25.7	-8.6	20.5	-11.3	-7.5	-1.0	-9.4

Table 14. Percentage of Females of Total Employed in General Occupational Categories for Persons 16 Years of Age and Older in Iowa Counties, 1980-1990.

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers	
	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980
Adair	42.9	37.5	56.7	48.2	68.2	72.6	78.8	79.2	9.8	12.9	7.8	5.9	30.3	17.6
Adams	43.3	42.4	48.7	50.3	74.9	67.4	74.0	83.0	10.5	19.8	11.1	7.2	23.3	27.5
Allamakee	45.2	41.3	55.9	44.7	66.1	65.6	80.6	79.9	16.4	20.0	12.3	7.4	38.2	41.6
Appanoose	45.1	42.1	50.8	42.5	68.0	63.1	69.5	74.6	4.4	17.5	5.5	6.3	29.7	27.9
Audubon	44.5	37.7	51.9	43.3	67.9	72.3	78.4	79.3	12.2	7.7	11.2	13.6	19.8	14.3
Benton	45.2	39.6	56.0	41.6	65.7	65.7	73.5	82.1	11.5	12.7	16.8	10.5	29.3	25.7
Black Hawk	47.5	41.9	50.2	43.1	66.1	66.8	64.4	66.7	19.4	21.5	8.3	7.9	19.7	15.6
Boone	47.3	42.6	54.0	45.1	68.6	67.2	70.5	70.0	18.6	12.2	4.3	7.5	25.1	23.9
Bremer	44.5	38.8	53.5	39.1	64.5	68.3	70.8	74.6	17.1	16.5	4.1	6.7	22.9	10.0
Buchanan	43.4	37.3	54.5	46.2	72.6	65.2	73.1	80.4	14.4	18.7	8.8	4.0	16.5	14.2
Buena Vista	43.3	40.2	49.1	39.8	65.6	64.6	71.2	73.4	9.7	13.1	14.6	8.5	20.6	20.1
Butler	43.3	37.3	50.0	43.1	70.2	71.2	81.3	84.5	13.0	19.1	7.3	4.5	26.4	11.8
Calhoun	45.4	37.6	52.7	43.4	64.0	66.2	80.4	80.4	11.4	4.9	9.7	9.6	22.1	17.5
Carroll	45.4	40.6	53.3	42.6	64.1	68.3	79.3	76.9	7.8	8.0	13.4	4.6	22.9	30.3
Cass	45.9	42.2	48.3	43.6	67.0	65.2	79.4	79.5	11.9	12.4	6.0	4.5	29.5	16.5
Cedar	45.0	39.3	55.4	43.9	66.0	70.2	71.6	76.5	15.7	14.0	14.7	10.5	27.2	22.9
Cerro Gordo	48.4	44.8	51.4	41.8	63.8	67.6	66.9	70.3	15.3	15.1	15.0	6.5	26.7	25.8
Cherokee	44.4	37.6	51.8	48.1	70.0	71.5	73.7	75.0	8.8	5.6	11.3	5.8	28.0	13.6
Chickasaw	44.1	38.4	49.5	37.5	67.6	67.5	78.0	78.6	15.0	18.5	10.5	6.5	32.6	25.5
Clarke	46.9	41.2	59.0	46.2	60.0	69.7	74.0	77.7	9.8	13.2	20.3	8.0	38.3	35.1
Clay	45.9	41.5	55.1	44.8	66.4	63.3	70.3	68.5	15.8	10.7	10.0	6.6	24.4	32.1
Clayton	43.5	39.5	54.2	42.8	68.4	64.4	83.5	81.4	19.3	21.9	17.9	11.0	31.6	32.2
Clinton	44.3	40.2	49.9	43.6	70.1	67.8	64.1	62.9	12.7	14.5	7.1	6.9	21.7	24.1
Crawford	42.3	37.1	52.9	36.6	68.5	70.9	74.7	74.4	11.2	11.8	10.8	11.2	15.4	21.4
Dallas	46.6	42.4	54.4	43.6	63.2	69.0	70.1	70.9	9.9	12.5	6.1	6.4	17.0	16.1
Davis	43.1	37.6	52.2	50.4	71.7	69.1	86.1	75.1	18.5	18.7	16.7	7.9	15.7	10.3
Decatur	45.5	43.7	50.8	45.5	59.9	71.1	75.2	70.0	12.4	8.4	16.2	9.1	35.3	29.8
Delaware	43.1	38.3	49.4	41.5	65.8	69.0	78.7	80.8	19.4	20.1	17.9	5.4	28.4	25.2
Des Moines	46.6	41.9	52.9	42.0	66.7	64.6	61.3	62.3	9.5	9.3	16.5	11.8	29.6	29.6
Dickinson	45.8	40.5	47.5	37.1	64.7	64.5	69.1	73.1	11.7	11.5	12.4	8.0	34.8	30.3
Dubuque	46.7	42.3	50.0	42.2	67.6	68.6	64.8	68.6	18.4	15.6	7.2	8.8	23.5	18.9
Emmet	44.9	38.9	54.1	38.7	68.1	67.1	71.7	74.8	14.2	10.6	4.9	9.0	14.9	20.9
Fayette	43.0	38.5	50.1	41.4	64.3	68.6	77.1	71.8	14.9	14.9	15.1	7.1	28.6	22.9
Floyd	45.6	39.5	50.2	44.0	65.4	64.8	77.9	74.9	10.9	16.6	11.0	5.9	22.2	15.0

Table 14. Percentage of Females of Total Employed in General Occupational Categories for Persons 16 Years of Age and Older in Iowa Counties, 1980-1990 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers	
	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980
Franklin	44.8	36.8	55.9	42.4	70.1	62.1	73.8	75.2	19.4	13.0	8.4	6.3	20.8	19.7
Fremont	44.9	40.0	66.1	52.6	70.8	76.9	76.2	75.9	7.3	12.4	10.0	7.4	21.0	24.6
Greene	45.5	41.4	56.5	47.1	68.3	72.2	77.0	79.0	13.9	12.9	9.3	3.6	22.9	21.2
Grundy	43.4	37.1	52.2	41.6	66.7	67.6	79.4	82.1	8.5	13.7	6.9	7.4	24.2	18.3
Guthrie	44.6	39.6	55.9	48.4	68.8	76.6	76.9	79.0	10.9	10.7	12.1	4.3	15.1	18.0
Hamilton	45.4	40.4	50.2	41.9	70.3	69.3	68.9	75.9	7.4	9.4	15.2	5.3	32.3	27.0
Hancock	44.0	38.0	50.9	42.0	68.1	64.8	75.2	74.2	11.9	11.6	13.4	9.5	28.5	25.9
Hardin	45.0	39.4	49.2	36.3	61.7	67.5	78.5	77.8	15.2	7.8	9.9	8.3	27.8	20.8
Harrison	46.2	39.1	58.4	48.5	69.4	68.0	75.6	74.6	6.8	9.4	8.2	4.7	23.4	17.5
Henry	46.2	43.6	49.0	40.7	68.5	68.4	69.8	70.8	11.3	14.7	9.9	7.5	31.3	33.5
Howard	42.4	38.5	49.9	36.8	67.3	61.0	81.1	88.0	19.3	20.1	9.1	6.5	26.9	29.2
Humboldt	42.5	36.9	55.2	42.9	61.1	68.1	79.5	72.1	11.5	12.8	7.5	0.8	19.4	12.1
Ida	42.8	37.0	54.8	48.7	65.6	66.3	86.0	81.7	15.4	10.9	7.7	5.7	17.5	19.3
Iowa	46.2	43.7	54.3	41.0	66.6	67.8	75.5	79.3	15.7	12.8	21.1	13.3	25.8	31.2
Jackson	45.0	40.1	52.5	46.0	68.4	64.4	74.7	78.1	13.8	19.3	20.2	12.8	31.4	26.4
Jasper	45.3	42.0	51.6	40.4	69.7	70.2	72.7	71.0	12.7	15.6	9.9	7.6	22.5	22.4
Jefferson	43.8	40.4	46.3	43.3	57.2	66.9	71.2	66.0	11.3	8.0	13.2	8.0	29.8	26.2
Johnson	48.3	47.5	47.8	45.5	61.2	65.2	56.2	59.7	14.8	13.9	12.5	9.6	24.1	24.1
Jones	44.2	39.4	55.6	45.2	67.0	65.7	69.8	69.0	15.6	12.1	17.7	15.1	29.9	31.5
Keokuk	43.3	38.7	62.7	45.7	64.7	67.7	76.5	77.6	9.7	11.2	16.3	6.7	27.0	27.0
Kossuth	43.4	37.4	55.5	38.4	67.6	69.1	81.2	78.8	10.6	11.6	7.9	9.4	24.1	24.7
Lee	45.4	41.3	50.8	37.4	67.6	68.7	64.3	64.4	11.8	12.9	11.4	6.6	31.0	33.2
Linn	47.1	43.9	45.7	37.7	61.8	63.9	64.0	63.7	18.8	16.0	15.4	11.0	27.5	30.4
Louisa	41.0	38.5	50.8	42.6	67.1	63.2	74.7	70.7	8.6	11.2	13.3	7.5	26.0	33.0
Lucas	45.2	40.1	50.5	43.6	67.5	71.9	78.9	75.7	19.4	7.0	8.4	8.3	26.1	15.1
Lyon	43.1	38.1	48.5	35.3	71.7	73.8	83.8	84.3	9.6	13.3	8.2	6.2	33.7	27.2
Madison	45.8	39.1	56.1	39.8	68.9	66.6	75.1	84.9	11.6	11.4	11.6	9.0	16.9	12.7
Mahaska	43.6	39.4	51.5	40.1	67.1	71.2	68.3	68.4	18.4	11.5	6.8	6.2	23.7	21.8
Marion	47.1	42.0	54.7	40.1	68.6	67.6	67.0	66.6	8.8	12.8	9.3	10.2	26.4	26.7
Marshall	45.9	42.0	49.1	43.2	65.4	63.4	69.8	70.0	15.4	14.7	11.2	9.5	19.6	19.3
Mills	47.3	42.8	59.3	46.0	64.9	71.9	66.0	72.2	11.2	8.0	5.8	7.6	21.4	16.5
Mitchell	44.4	39.0	57.2	48.4	64.2	61.8	87.0	82.9	13.8	12.9	13.4	6.4	29.0	24.1
Monona	44.3	36.3	49.4	41.9	71.2	65.9	79.9	81.8	9.6	7.5	9.7	11.4	18.1	14.0
Monroe	43.7	41.6	46.4	35.5	74.5	69.7	69.0	78.4	14.3	6.4	9.3	18.7	27.8	30.8

Table 14. Percentage of Females of Total Employed in General Occupational Categories for Persons 16 Years of Age and Older in Iowa Counties, 1980-1990 (continued).

County	Employed		Managerial and Professional Speciality		Technical, Sales, and Administrative Support		Service		Farming, Forestry, and Fishing		Precision Production, Craft, and Repair		Operators, Fabricators, and Laborers	
	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980	1990	1980
Montgomery	45.4	41.8	52.8	35.5	65.7	65.8	72.5	75.6	5.2	7.7	19.6	11.7	28.0	38.6
Muscatine	44.1	40.3	45.9	38.8	68.3	68.8	70.3	67.0	13.9	15.8	10.4	7.2	25.7	24.5
O'Brien	43.9	37.1	49.2	38.6	62.5	64.7	77.8	74.0	14.5	7.2	6.5	8.2	27.8	23.1
Osceola	42.0	37.4	51.9	36.3	72.0	74.3	74.9	82.0	9.0	7.1	9.6	12.5	32.6	32.7
Page	44.9	41.1	47.4	42.7	67.5	65.8	71.3	69.2	13.1	12.1	8.5	5.5	29.3	26.7
Palo Alto	43.7	39.1	57.8	40.3	63.3	70.5	72.8	79.3	10.5	9.7	16.8	6.8	23.1	23.1
Plymouth	43.3	38.6	52.1	42.2	64.1	65.8	69.0	79.0	9.9	6.7	13.6	12.4	26.3	18.4
Pocahontas	43.4	37.5	54.7	39.9	66.6	67.4	83.3	80.3	12.8	10.2	7.0	7.6	20.1	17.6
Polk	49.2	46.8	49.9	42.6	63.5	67.4	59.9	58.9	15.8	16.1	8.7	8.9	19.2	17.4
Pottawattamie	47.7	43.3	54.4	45.4	67.3	67.1	63.3	64.2	15.9	12.4	9.1	9.2	23.5	19.3
Poweshiek	46.4	42.7	48.0	41.5	68.6	68.3	69.7	75.8	19.1	8.4	4.9	8.2	30.2	27.3
Ringgold	42.9	39.1	60.4	49.3	67.5	65.5	82.1	81.0	7.5	10.0	10.4	8.8	25.4	32.7
Sac	43.2	37.0	57.5	40.5	68.2	67.8	79.6	82.3	9.7	7.8	13.0	6.9	22.6	27.0
Scott	46.9	41.5	50.1	38.6	62.4	64.1	63.3	61.7	16.6	19.4	11.0	8.4	22.2	19.8
Shelby	44.7	35.7	56.2	47.0	69.5	64.4	81.1	76.2	8.9	8.2	9.3	5.6	12.2	13.6
Sioux	44.7	39.0	50.8	37.7	64.6	66.2	77.7	76.3	10.0	9.2	10.8	7.6	28.0	31.6
Story	44.7	44.6	42.6	37.1	60.1	64.2	58.1	61.0	9.2	14.4	9.7	8.3	21.0	30.8
Tama	44.7	37.2	57.2	40.6	73.0	69.6	78.5	80.0	13.2	12.1	8.5	7.7	18.6	17.0
Taylor	41.7	39.8	60.6	47.0	64.2	68.1	76.2	80.5	10.3	10.1	11.0	9.1	29.3	31.6
Union	45.1	42.0	50.0	45.8	65.4	63.5	59.5	73.2	14.4	15.7	20.0	7.9	33.8	20.7
Van Buren	41.7	37.6	59.0	49.7	67.6	64.5	78.0	77.1	13.4	13.1	10.1	13.0	27.1	28.9
Wapello	45.8	40.3	54.0	40.8	64.1	66.6	71.8	70.4	22.8	16.7	7.9	5.3	20.6	16.5
Warren	47.4	42.2	52.8	44.2	66.5	66.4	60.0	66.9	15.8	9.3	6.4	5.7	16.7	14.5
Washington	46.1	41.8	56.2	43.8	63.3	69.0	74.2	75.6	11.7	11.1	9.6	6.5	28.9	32.4
Wayne	45.0	38.8	61.4	46.6	71.8	71.0	77.8	78.1	13.8	7.9	10.8	9.1	25.2	20.3
Webster	46.0	43.9	50.8	46.0	64.5	65.6	68.1	69.7	9.6	16.3	9.0	7.1	24.0	19.1
Winnebago	44.9	42.0	48.3	44.0	66.6	67.2	67.8	79.8	7.9	7.2	13.5	5.7	34.3	33.8
Winneshiek	46.1	42.4	47.2	48.5	64.1	69.1	75.2	73.1	18.9	19.3	24.8	6.6	27.3	33.0
Woodbury	46.3	42.8	52.0	41.1	62.7	64.1	63.4	65.4	7.7	10.3	12.8	10.3	21.1	18.0
Worth	45.3	40.3	55.4	42.9	67.1	72.7	85.3	79.8	8.8	9.2	16.9	7.2	26.6	27.4
Wright	45.4	38.7	53.6	40.6	68.3	65.6	80.6	79.5	8.8	13.6	11.4	4.1	26.3	26.1
State of Iowa	46.2	42.0	50.4	41.9	64.9	66.6	67.7	68.9	13.2	12.9	11.0	8.3	24.3	22.8

Table 15. Percentage of Females of Total Employed in General Occupational Categories for Persons 14 or 16 Years of Age and Older in Iowa Counties, 1940-1970.

County	Employed				Professional, Technical, Mgrs, and Administrators				Sales and Clerical				Service				Farmers, Farm Managers, Farm Laborers/Foremen				Craftsmen and Foremen				Operators and Laborers			
	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940
Adair	31.4	25.5	18.5	12.0	48.6	29.8	34.0	35.8	53.1	62.0	54.7	45.6	85.2	76.7	72.0	75.6	15.1	9.9	7.9	0.4	1.7	3.9	3.5	1.0	8.8	13.6	7.8	3.6
Adams	30.4	24.9	16.2	12.9	39.1	42.9	38.0	32.7	66.2	50.0	50.3	45.7	82.1	72.9	69.1	71.0	2.9	10.5	4.3	1.1	8.8	1.8	1.4	0.7	19.6	13.8	9.4	7.3
Allamakee	35.2	26.2	21.0	13.6	37.7	32.6	29.4	28.7	65.2	57.8	46.8	36.5	81.6	82.3	64.5	75.1	5.0	13.1	12.6	1.1	4.6	3.1	2.9	2.8	37.3	17.2	16.9	6.3
Appanoose	34.9	27.0	23.0	16.3	36.5	34.7	31.6	31.9	66.1	60.1	51.2	41.2	73.9	71.8	64.8	69.7	3.6	7.4	10.8	1.4	6.7	4.2	2.0	2.0	22.7	6.9	10.3	3.0
Audubon	29.9	25.7	18.2	14.3	47.4	29.6	32.0	36.1	56.4	52.8	51.1	40.9	82.7	85.0	71.7	77.3	1.5	11.4	8.6	2.1	4.7	3.0	2.3	0.5	23.8	18.3	8.9	6.8
Benton	32.4	26.0	18.8	15.4	32.3	29.4	25.4	28.1	63.8	57.7	50.6	42.0	77.4	80.7	68.9	78.2	5.1	6.1	7.0	1.0	3.5	1.0	1.9	2.5	21.2	18.3	10.7	7.0
Black Hawk	38.8	32.4	28.6	23.9	34.9	30.8	27.2	25.4	67.6	57.7	54.3	43.9	68.9	70.0	65.2	69.9	5.8	5.5	8.7	1.3	4.8	1.8	2.3	0.9	16.9	16.1	18.5	15.2
Boone	36.4	28.4	19.0	18.6	31.7	30.2	25.4	28.1	63.5	53.5	51.0	44.5	76.3	74.2	65.5	70.9	2.4	6.0	1.8	1.8	4.9	4.0	0.9	1.9	20.8	13.8	7.6	7.5
Bremer	35.0	30.3	25.6	15.2	33.4	27.2	30.2	24.9	73.3	61.2	56.6	39.1	66.1	71.3	64.4	73.5	12.5	14.7	16.3	1.9	8.8	1.6	2.5	1.0	10.5	18.6	19.6	9.3
Buchanan	33.8	30.3	20.6	17.5	39.4	37.7	31.3	32.1	71.2	61.5	50.3	43.7	79.2	74.4	62.9	73.0	8.3	14.9	4.1	1.3	2.3	1.8	2.5	1.7	14.1	20.4	14.0	14.1
Buena Vista	33.9	26.5	18.9	17.0	41.3	32.5	25.6	27.0	64.4	55.4	45.8	37.8	67.4	73.4	66.1	71.4	0.5	3.8	3.9	1.0	7.6	3.8	2.7	1.1	12.1	13.4	8.2	9.6
Butler	26.9	21.8	20.9	14.0	33.9	31.0	32.3	32.3	61.9	59.3	49.8	41.9	77.9	82.7	71.4	80.1	2.9	6.9	14.0	1.3	6.7	2.2	2.7	1.4	12.8	6.2	9.3	3.9
Calhoun	31.5	25.2	17.0	15.5	37.1	30.1	29.4	28.2	69.4	61.1	47.2	42.5	75.7	84.3	71.8	73.8	1.6	3.9	2.5	0.7	6.1	0.7	1.5	0.9	12.2	8.4	9.0	6.4
Carroll	34.3	27.7	24.2	18.8	38.0	36.3	32.0	32.4	62.8	49.5	49.9	38.5	81.1	76.0	68.8	73.2	4.5	4.5	9.5	0.9	4.2	4.1	2.2	1.1	14.6	15.4	15.6	9.4
Cass	33.2	30.0	23.2	17.6	33.6	31.6	30.4	29.8	67.3	55.3	50.2	37.8	75.6	82.8	70.9	76.8	5.1	10.2	8.8	0.9	6.7	3.2	1.2	1.9	13.6	12.1	16.8	10.4
Cedar	30.5	25.4	21.7	13.1	34.0	31.9	26.1	26.3	65.6	59.4	55.4	37.6	76.8	73.7	67.9	80.2	2.5	9.0	10.2	1.8	6.5	2.6	2.8	1.2	17.6	12.1	5.1	3.2
Cerro Gordo	38.3	31.2	26.7	24.1	34.1	30.5	27.4	27.0	64.8	54.1	51.0	42.9	72.1	74.1	67.3	69.5	2.9	5.3	6.7	2.2	4.4	2.7	2.4	1.1	18.0	13.8	15.0	12.8
Cherokee	32.5	27.9	21.5	17.2	36.7	37.0	27.4	30.9	65.3	56.1	49.8	41.0	74.7	74.2	71.3	69.2	2.4	4.8	8.4	1.1	4.5	2.3	2.2	0.8	9.7	13.5	11.2	5.4
Chickasaw	28.6	26.3	20.8	15.4	34.5	33.6	32.4	32.9	68.9	58.6	49.0	46.4	82.6	72.7	64.9	72.7	5.1	9.5	12.2	2.3	2.0	5.7	3.2	1.9	11.1	13.1	9.0	6.1
Clarke	31.2	26.6	21.8	14.5	33.7	37.5	35.4	34.1	72.0	55.0	47.1	38.8	76.8	79.8	76.7	71.4	1.2	0.8	10.6	1.7	10.9	0.0	2.9	1.3	25.4	22.6	16.6	10.4
Clay	35.8	27.9	19.7	18.2	30.1	24.9	23.8	30.0	64.1	56.8	51.9	44.9	73.5	72.2	63.9	71.4	4.2	4.9	3.9	1.1	7.1	4.6	3.3	1.6	25.5	16.2	9.6	9.5
Clayton	30.3	25.7	19.5	14.3	35.6	32.1	31.2	28.6	65.8	60.6	46.6	41.6	79.4	79.3	66.2	75.9	10.6	9.3	10.2	2.1	6.4	3.5	2.5	1.6	20.2	20.3	14.1	8.4
Clinton	34.9	29.8	24.6	20.5	33.9	29.5	28.9	30.0	70.2	60.7	54.6	41.7	65.4	69.3	58.0	64.0	5.6	5.2	3.0	1.1	3.9	2.7	3.1	1.7	22.4	17.9	17.8	16.0
Crawford	31.5	23.5	18.4	13.9	36.0	34.3	28.8	33.1	60.7	56.0	47.9	36.1	81.1	71.5	67.2	73.2	7.4	6.2	3.4	1.0	7.9	2.5	1.9	0.9	13.7	9.8	10.9	4.9
Dallas	35.9	30.6	22.4	15.9	37.9	33.6	28.7	30.1	67.2	61.7	52.4	38.8	74.5	79.5	74.4	71.5	2.7	7.0	5.9	0.7	1.8	2.5	1.9	0.7	12.1	9.5	11.8	3.3
Davis	31.6	29.3	20.4	13.1	40.8	34.3	30.8	34.3	57.6	63.4	46.9	42.8	78.1	85.0	69.2	78.1	8.1	18.7	14.9	1.6	5.9	0.0	2.4	0.6	18.4	6.3	5.9	6.6
Decatur	38.2	31.2	18.6	15.2	37.1	34.9	32.8	35.1	74.2	57.3	49.1	40.8	70.7	71.2	64.0	73.2	6.6	9.1	6.8	1.6	3.0	6.4	2.3	2.6	28.7	15.8	9.0	7.7
Delaware	28.7	29.1	21.9	14.8	29.7	36.4	32.5	31.0	64.9	57.3	44.3	37.3	80.7	79.0	73.6	80.2	3.4	19.2	14.7	1.2	3.9	2.5	2.8	0.7	22.2	15.7	8.2	6.2
Des Moines	39.3	33.8	27.0	23.8	34.2	30.1	29.5	29.3	66.9	54.9	50.1	40.5	63.0	66.8	55.5	63.3	2.6	6.7	2.3	2.2	6.9	3.1	2.5	1.4	33.8	30.4	20.5	20.1
Dickinson	36.7	28.6	19.4	16.3	32.2	26.5	24.4	27.1	64.4	52.3	47.0	39.4	75.7	79.1	63.3	69.1	3.6	10.3	1.2	1.1	5.9	3.8	2.1	1.1	36.2	21.9	23.0	4.0
Dubuque	36.0	32.7	29.4	26.5	36.3	35.8	32.8	33.2	64.7	55.2	52.4	42.2	66.9	69.0	60.4	68.4	3.7	11.0	10.4	2.6	4.4	2.8	3.4	1.9	17.0	15.2	20.5	18.9
Emmet	33.6	27.2	21.5	16.9	32.0	29.0	28.5	28.0	69.0	59.0	52.0	38.5	69.4	72.3	65.8	73.3	6.8	3.3	2.3	1.3	4.5	0.0	1.8	1.1	17.7	11.8	16.4	5.6
Fayette	33.4	26.7	23.6	14.2	33.1	33.6	28.6	29.0	64.4	56.2	51.5	39.4	80.0	76.3	64.1	70.6	8.9	7.1	14.5	1.1	3.8	1.1	3.9	0.8	13.2	13.7	13.6	5.9
Floyd	33.1	29.2	23.8	17.6	35.2	30.1	29.6	30.2	73.6	63.5	53.5	44.3	77.1	81.9	70.7	77.4	4.1	6.7	10.5	1.2	2.4	2.7	3.1	1.0	8.9	10.6	10.4	4.5

Table 15. Percentage of Females of Total Employed in General Occupational Categories for Persons 14 or 16 Years of Age and Older in Iowa Counties, 1940-1970 (continued).

County	Employed				Professional, Technical, Mgrs, and Administrators				Sales and Clerical				Service				Farmers, Farm Managers, Farm Laborers/Foremen				Craftsmen and Foremen				Operators and Laborers			
	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940
Franklin	30.3	24.8	18.6	12.7	39.9	32.9	28.5	30.9	67.9	60.0	52.6	39.6	83.3	79.6	77.9	75.1	4.1	6.0	5.0	0.7	5.5	2.7	2.4	0.0	13.0	18.7	10.2	4.2
Fremont	34.8	29.2	20.3	15.8	38.4	36.5	33.8	32.7	68.3	65.3	55.4	46.5	78.1	77.4	73.7	76.3	6.0	3.0	3.0	1.5	4.4	4.1	1.8	0.8	30.5	26.4	21.7	5.9
Greene	32.9	26.7	20.1	16.1	40.5	32.0	28.3	30.8	66.2	56.0	49.6	43.5	81.8	82.6	75.8	75.9	4.4	5.1	6.8	2.1	3.3	3.0	2.1	2.7	21.2	12.0	10.7	5.3
Grundy	29.9	24.7	14.5	13.3	35.0	28.2	26.1	29.7	65.4	62.9	49.4	37.7	82.2	79.3	70.4	78.9	1.4	11.5	2.5	1.9	4.9	3.5	2.7	1.1	20.5	10.1	9.9	7.7
Guthrie	32.6	26.8	16.8	14.0	35.4	33.4	30.9	32.5	70.1	64.2	55.2	38.4	75.7	70.8	71.1	73.6	14.4	11.2	1.3	1.2	3.3	1.9	1.3	1.1	12.3	14.3	13.3	5.3
Hamilton	33.9	28.7	19.9	16.1	31.5	31.8	28.9	26.7	64.3	61.7	51.4	43.8	73.9	81.8	68.1	70.2	2.6	2.4	2.6	1.3	4.5	1.8	3.8	2.0	22.7	13.3	11.7	10.6
Hancock	31.4	24.2	15.2	13.3	43.7	26.3	24.9	30.3	64.4	59.7	50.8	37.5	80.2	77.6	68.5	75.8	3.7	6.7	2.7	1.5	6.8	2.6	2.2	1.5	19.5	13.1	12.2	9.1
Nardin	33.9	27.3	20.9	17.1	34.0	33.1	26.4	27.3	61.4	59.0	47.5	38.5	73.4	72.6	71.9	71.7	3.3	4.9	6.2	0.9	7.0	1.9	3.4	1.6	18.4	12.0	9.9	7.1
Harrison	32.2	26.1	17.8	14.7	35.7	33.4	35.1	33.6	70.2	59.9	48.5	40.3	79.2	76.9	69.7	69.0	1.8	5.9	3.0	1.6	4.0	1.4	2.8	0.5	16.5	9.3	4.5	3.7
Henry	38.6	31.2	21.6	17.5	40.6	32.8	28.2	28.1	68.5	54.9	54.9	46.0	69.0	71.0	60.3	63.8	2.6	3.0	1.0	1.4	4.7	2.2	1.7	2.7	28.7	23.3	17.7	15.0
Howard	30.9	27.8	18.8	15.3	39.6	33.7	31.5	30.7	67.4	58.9	52.1	44.1	74.4	80.1	71.6	76.8	7.3	17.1	6.7	1.3	5.0	0.0	2.2	2.7	15.2	11.0	11.8	8.2
Humboldt	31.0	24.4	18.2	16.0	28.4	27.9	30.3	32.0	66.7	61.1	52.7	38.1	76.3	76.7	67.4	71.1	4.3	3.6	2.0	1.7	3.1	1.7	2.7	1.1	12.0	11.6	12.4	6.2
Ida	31.4	21.1	16.0	15.3	39.8	27.9	24.3	30.7	70.2	64.3	54.5	45.7	74.4	76.4	71.8	73.6	7.2	1.1	4.4	0.6	5.5	5.5	2.8	2.1	11.1	13.7	6.8	8.2
Iowa	35.9	27.4	18.6	13.8	34.2	36.6	30.1	30.6	67.6	57.7	52.3	38.6	78.2	84.2	70.6	70.2	12.9	7.6	4.3	1.8	7.6	0.0	3.2	0.3	26.8	18.6	13.2	13.9
Jackson	34.4	29.1	22.4	15.4	37.6	32.7	34.1	33.3	70.7	60.2	49.9	41.1	76.9	77.6	65.9	76.5	13.2	11.9	12.1	1.4	4.7	4.1	3.5	2.6	22.6	19.6	18.3	6.0
Jasper	36.3	27.7	21.9	16.0	29.5	26.5	29.2	30.1	71.8	62.5	56.9	45.6	75.2	68.7	58.2	68.3	5.2	5.4	6.9	0.8	7.1	4.0	3.1	1.9	21.4	15.8	12.5	5.2
Jefferson	36.2	30.6	20.3	17.3	33.3	31.8	29.0	28.5	58.5	59.6	49.4	42.6	67.4	70.8	59.7	69.8	3.0	5.3	2.7	1.2	8.3	1.3	2.3	1.3	33.0	19.2	16.6	10.9
Johnson	42.9	36.9	30.6	26.8	39.3	36.0	36.8	39.0	67.9	60.3	57.5	50.9	60.2	57.2	48.4	65.8	5.5	8.4	8.2	1.2	5.2	2.1	3.5	2.2	19.9	17.6	11.7	10.7
Jones	32.3	27.5	21.9	18.4	40.6	35.1	29.5	28.9	61.9	62.3	53.3	42.7	70.3	68.9	62.7	61.6	4.6	5.2	8.8	5.2	6.0	4.0	3.8	2.0	23.1	24.8	23.0	25.5
Keokuk	32.2	27.8	18.9	11.9	41.9	36.3	28.2	27.1	69.6	68.4	48.0	42.6	75.6	76.4	65.9	68.9	4.5	10.8	2.9	0.8	11.6	3.8	0.8	0.3	20.7	9.5	5.5	3.9
Kossuth	32.5	25.6	17.5	14.4	40.5	31.7	27.4	28.2	68.5	57.7	46.2	38.0	80.3	79.8	67.3	75.5	4.5	8.9	1.1	0.7	7.3	3.0	1.5	0.6	19.2	16.4	13.5	6.2
Lee	35.5	32.0	27.5	23.6	32.5	30.4	28.0	26.5	69.7	59.1	55.4	46.8	58.7	61.1	50.6	54.0	4.6	4.4	3.4	1.6	4.3	2.6	4.2	1.8	25.7	23.1	24.4	21.7
Linn	38.1	34.8	29.8	24.5	28.5	26.3	27.1	25.4	64.2	59.2	53.9	42.4	65.5	68.1	66.4	66.5	6.9	12.9	16.3	1.9	6.3	3.1	3.1	1.6	27.0	24.9	15.0	12.0
Louisa	34.1	25.5	15.5	13.9	33.0	31.2	30.0	31.0	66.4	64.5	45.8	42.0	82.9	76.8	67.9	70.3	1.5	4.0	2.5	1.7	10.4	2.0	3.3	4.4	22.8	19.4	10.4	3.9
Lucas	34.6	27.0	24.2	14.0	32.5	35.8	33.9	32.3	72.6	53.0	44.6	37.0	71.9	64.2	69.2	71.9	5.3	4.0	13.5	1.1	2.6	0.0	2.9	2.2	19.3	22.3	19.6	3.4
Lyon	29.7	23.2	18.3	12.9	36.3	37.6	30.1	31.9	63.7	51.0	47.4	38.6	85.0	82.6	70.3	76.8	3.8	7.2	9.3	1.3	4.8	1.2	2.8	1.3	17.6	11.7	7.3	4.8
Madison	31.9	27.2	18.2	13.7	38.7	36.5	27.9	32.4	70.4	68.8	56.0	37.3	81.5	75.5	69.8	75.4	2.8	8.0	7.1	1.6	5.8	3.0	1.5	0.4	14.6	8.4	6.7	2.9
Mahaska	35.3	29.6	23.8	18.3	32.3	32.1	31.0	30.9	64.0	60.1	51.3	42.7	67.4	77.6	69.2	68.3	4.2	6.4	7.7	1.6	5.4	3.4	2.5	1.9	24.1	20.8	18.9	14.9
Marion	37.0	27.2	21.9	16.4	33.5	33.4	31.8	31.6	65.6	59.4	49.6	41.9	66.7	49.0	44.2	51.1	5.8	3.7	7.1	1.3	5.1	2.3	2.4	1.1	20.7	19.7	16.1	7.7
Marshall	36.0	30.7	26.3	20.9	31.9	28.8	30.7	30.6	66.2	57.2	52.3	43.5	71.9	74.3	68.4	69.8	6.4	8.7	4.4	2.0	7.3	5.2	3.2	1.6	20.1	16.9	16.5	10.0
Mills	32.6	29.0	20.2	17.7	41.3	34.9	34.9	35.4	64.2	61.1	50.4	42.1	78.4	70.3	71.9	76.4	1.7	3.0	2.6	1.2	2.6	2.3	1.4	3.6	17.5	24.7	19.5	10.9
Mitchell	33.1	27.3	19.1	16.7	41.0	32.9	30.7	31.4	66.9	63.7	51.1	44.0	82.8	79.5	70.5	79.3	5.4	9.0	2.7	2.8	1.9	0.9	2.7	1.8	17.3	17.0	23.0	11.6
Monona	31.2	25.7	16.2	15.3	38.9	41.1	28.5	30.4	70.3	57.4	52.2	41.4	77.6	76.7	69.8	76.8	1.8	5.0	1.3	1.8	3.3	2.7	2.0	0.3	15.0	7.7	6.8	7.0
Monroe	34.8	24.4	19.7	14.0	43.7	37.5	35.0	31.0	67.0	55.5	50.2	44.6	75.2	60.3	52.2	73.1	5.3	6.2	12.7	0.8	10.3	1.4	2.3	1.7	15.3	7.6	4.6	2.5

Table 15. Percentage of Females of Total Employed in General Occupational Categories for Persons 14 or 16 Years of Age and Older in Iowa Counties, 1940-1970 (continued).

County	Employed				Professional, Technical, Mgrs, and Administrators				Sales and Clerical				Service				Farmers, Farm Managers, Farm Laborers/Foremen				Craftsmen and Foremen				Operators and Laborers						
	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940	1970	1960	1950	1940
Montgomery	34.6	29.6	21.9	18.2	35.7	28.9	28.8	30.1	61.9	57.6	48.5	42.6	74.4	68.7	57.9	68.5	3.1	3.5	4.8	0.8	4.1	2.0	2.4	4.1	34.1	30.5	26.7	11.0			
Muscatine	35.5	30.1	26.0	22.1	31.1	28.3	27.0	26.6	67.5	59.8	51.0	41.0	69.1	69.8	63.5	65.8	4.5	6.0	4.8	1.2	4.4	3.2	2.7	1.7	25.2	22.6	24.2	23.1			
O'Brien	34.6	24.7	18.0	16.9	38.3	33.4	23.7	26.6	67.9	51.2	47.2	37.9	76.8	82.8	70.6	74.6	2.2	3.8	3.5	1.3	2.8	2.3	1.8	1.5	20.3	16.3	13.2	9.7			
Osceola	30.5	23.1	17.6	13.6	30.0	28.7	31.3	31.1	68.2	54.1	44.4	36.6	85.5	66.8	71.7	78.1	1.5	7.4	6.2	1.6	9.1	0.0	1.7	1.0	23.8	28.5	13.4	4.6			
Page	36.5	33.3	26.0	22.7	34.1	32.9	27.2	29.4	71.4	62.6	58.0	53.5	70.4	73.5	65.2	68.9	7.2	6.3	2.6	1.7	4.7	1.4	3.3	2.1	24.2	23.0	23.2	11.7			
Palo Alto	33.4	25.2	20.4	14.2	35.3	35.8	30.2	30.4	55.7	58.5	52.8	37.5	80.4	76.9	69.8	75.1	4.3	4.2	4.7	1.4	9.5	0.9	2.6	2.7	20.6	8.2	9.3	2.6			
Plymouth	31.3	25.6	20.0	14.5	39.3	34.8	33.2	33.1	62.5	47.6	50.4	36.3	72.9	70.4	66.3	74.4	4.1	3.5	6.9	0.9	2.3	2.5	2.5	0.8	18.4	26.0	18.3	6.2			
Pocahontas	28.3	23.8	19.1	14.2	37.3	31.9	31.2	30.3	64.3	57.4	48.1	42.9	81.9	75.1	76.9	73.6	1.6	5.3	1.0	1.0	2.2	4.3	2.4	0.4	9.8	14.9	10.1	5.7			
Polk	41.1	36.5	33.0	30.2	32.0	28.4	27.2	26.2	65.7	60.1	54.8	45.6	61.5	65.0	58.7	54.4	6.6	5.7	5.7	1.5	7.5	4.4	3.9	2.5	16.1	15.0	16.3	16.5			
Pottawattamie	37.2	31.8	25.7	21.4	40.2	36.6	33.0	34.2	62.8	54.3	50.0	39.4	67.8	69.7	62.5	63.7	5.9	8.5	5.4	1.5	5.3	3.0	2.4	1.5	20.4	17.4	14.0	8.9			
Poweshiek	36.2	28.3	23.6	16.5	34.6	27.3	29.8	31.2	62.3	61.0	57.6	40.3	76.8	68.7	68.6	71.5	7.1	6.2	7.1	0.7	9.9	1.4	2.8	3.1	14.6	20.1	18.2	15.5			
Ringgold	31.1	20.5	17.8	11.9	30.9	37.2	35.7	39.5	73.7	56.3	51.6	34.9	73.0	85.9	63.8	65.5	10.6	2.5	7.6	1.4	4.5	5.1	3.0	1.3	25.1	8.4	10.3	2.4			
Sac	29.9	22.4	19.1	16.2	30.8	28.9	28.0	29.0	65.4	50.9	49.7	42.6	87.6	72.7	71.4	74.0	3.7	4.6	5.3	0.5	7.0	4.4	2.5	1.9	18.8	10.9	12.2	8.6			
Scott	35.8	31.7	27.4	23.9	30.2	28.2	25.3	25.4	63.6	56.3	52.3	42.5	63.7	67.3	57.7	61.4	5.0	10.1	6.2	2.2	3.5	2.3	3.1	1.7	17.3	15.4	15.3	12.4			
Shelby	29.6	23.7	15.1	13.1	36.6	34.1	28.2	30.9	57.7	53.1	42.7	40.4	76.3	76.7	61.0	73.5	2.1	7.8	4.9	1.4	3.6	2.9	1.8	1.1	16.0	12.3	11.4	5.4			
Sioux	31.6	22.3	17.6	13.5	32.3	30.9	28.5	29.8	62.5	52.0	49.0	34.0	80.1	75.2	69.5	76.4	4.3	4.8	4.7	2.0	1.8	2.0	2.0	0.7	22.6	14.5	12.7	2.1			
Story	38.5	32.5	29.1	23.9	30.6	25.1	25.6	25.4	69.3	63.6	62.4	53.1	60.2	57.6	53.9	66.7	3.2	4.9	5.8	1.5	5.4	2.5	2.8	1.3	22.4	23.0	15.8	9.3			
Tama	30.2	22.0	21.4	14.7	34.2	29.2	29.3	27.4	67.1	65.1	53.2	41.3	76.6	72.6	72.9	78.1	3.5	6.7	11.1	1.8	1.9	2.0	1.8	1.8	15.8	9.4	12.1	9.2			
Taylor	29.1	22.8	16.6	15.3	39.5	30.7	33.8	36.7	65.0	60.7	47.0	41.7	70.6	76.1	70.4	77.8	5.1	4.6	3.0	1.5	5.9	1.6	3.2	2.1	26.4	12.1	17.4	7.2			
Union	36.1	28.8	21.0	18.7	31.7	34.2	28.1	28.3	65.2	53.4	42.9	41.0	72.0	72.8	64.6	67.3	5.7	4.1	2.0	1.0	8.7	1.2	3.2	0.9	15.3	12.2	17.6	8.7			
Van Buren	32.9	26.7	28.8	14.1	41.0	34.4	30.1	32.9	70.4	64.9	54.3	41.9	77.1	71.7	63.0	69.9	0.7	10.2	10.1	2.3	4.5	3.6	1.4	0.6	23.7	18.3	13.2	11.6			
Wapello	37.7	29.8	25.3	20.6	36.2	30.2	30.2	27.5	62.7	53.4	49.7	39.1	72.6	70.8	61.6	63.4	1.9	7.1	7.4	1.2	4.5	2.2	2.1	1.0	17.8	14.6	11.9	10.2			
Warren	35.0	27.2	20.6	13.4	34.8	29.3	32.9	33.4	66.3	57.9	54.6	38.2	70.6	72.4	66.3	68.9	5.1	3.6	6.3	1.0	7.7	2.5	2.5	1.0	8.9	7.3	6.7	4.1			
Washington	33.0	29.0	22.6	18.1	36.1	30.3	30.1	30.3	64.6	52.6	50.3	39.0	70.4	73.8	69.7	72.1	3.8	11.7	7.9	1.7	5.9	4.4	2.3	1.9	19.1	22.5	18.9	19.3			
Wayne	30.6	28.2	21.9	13.1	36.2	31.6	31.0	31.9	65.5	52.8	49.7	39.5	76.9	80.2	67.9	68.7	5.5	19.3	12.0	1.1	5.9	1.5	5.2	1.4	23.5	13.1	9.6	4.0			
Webster	37.6	30.9	25.3	21.4	35.3	34.6	29.3	29.3	64.1	56.7	49.3	40.9	71.9	71.5	63.3	65.6	2.2	3.4	5.9	1.3	5.0	2.2	2.6	1.6	16.6	13.8	14.1	10.6			
Winnebago	36.1	27.4	18.4	15.8	34.0	34.6	29.2	30.4	71.3	55.2	49.5	41.8	73.5	82.4	75.4	77.9	1.1	3.6	3.3	1.4	10.6	0.6	2.3	1.6	33.0	29.1	11.0	9.5			
Winneshiek	35.8	28.8	20.6	13.7	33.8	31.5	30.8	28.1	77.2	62.4	53.9	41.4	72.1	73.4	63.4	72.3	8.1	14.7	8.4	1.5	8.2	2.4	2.5	0.5	27.4	16.1	15.1	6.7			
Woodbury	38.3	33.8	29.9	27.4	34.2	30.3	30.1	29.3	60.8	52.7	49.2	39.6	65.5	71.0	60.0	63.4	2.4	4.8	3.3	9.2	5.6	2.7	3.5	2.0	21.9	20.7	23.0	14.0			
Worth	31.2	22.8	12.5	13.6	37.7	33.3	27.1	30.1	62.5	53.5	46.3	43.8	84.5	87.7	75.9	79.8	1.7	8.4	1.3	2.1	8.1	0.0	2.2	0.8	28.4	16.6	5.8	4.1			
Wright	30.5	23.4	18.7	15.8	35.3	29.1	26.5	29.4	63.9	56.1	47.4	37.4	81.4	70.1	71.0	77.0	3.5	3.7	3.2	1.4	0.7	2.7	1.2	0.2	14.5	11.0	11.9	5.5			
State of Iowa	36.1	30.3	24.4	19.7	34.1	30.9	29.0	29.3	65.7	58.0	52.3	42.5	69.9	70.7	63.0	67.2	5.0	7.5	6.7	1.6	5.5	2.8	2.8	1.6	20.0	17.2	15.9	12.0			

(553,000). Although blue-collar jobs experienced growth across the 50-year period, it was not at the rate at which white-collar jobs increased.

Counties

Among Iowa's counties in 1990, employed persons ranged from 2,314 in Adams to 176,499 in Polk (Table 1). From 1980 to 1990, 56 counties experienced employment declines, seven (Adams, Fremont, Greene, Grundy, Monroe, Taylor, Webster) of which had decreases of at least 10% (Table 13). The largest percentage decline was in Taylor (-12.9%). In contrast, of the 43 counties that gained, nine (Dallas, Henry, Johnson, Madison, Marion, Polk, Sioux, Story, Warren) saw increases of at least 10%, with Johnson (+23.9%) reporting the greatest percentage gain.

Although managers and professionals constituted 22.3% of employed Iowans statewide in 1990, that figure ranged from a low of 13.8% in Taylor to a high of 34.7% in Johnson (Table 7). Six counties (Allamakee, Clayton, Delaware, Louisa, Monroe, Worth), in addition to Taylor, were below 15%, while five (Jefferson, Linn, Polk, Scott, Story) besides Johnson were above 25%. For both Johnson and Story, managers and professionals constituted the greatest percentage of those employed across the six occupational groups. More than three-quarters (78) of the counties had more managers and professionals in 1990 than in 1980 (Table 13). For Jefferson, Johnson, Madison, and Van Buren, the increases were more than 35%. Workers in this category declined in 21 counties, with Adams' 37% loss substantially higher than the next two highest (Cherokee, Lucas). The other 18 counties noted losses of less than 10%.

Only 17.1% of employed persons in Howard county were in technical, sales, and administrative support jobs, which was substantially below the state figure (29.4%). Allamakee, Clayton, Louisa, Osceola, and Van Buren also were below 20%. The highest percentages occurred in Polk (38.9%) and Warren (36.9%). This occupational group had the greatest percentage of those employed in 84 counties. Relatively few counties (13) experienced employment decreases in the technical, sales, and administrative support category between 1980 and 1990. Of those, two (Union, Webster) declined more than 10%. The largest gains came in five counties (Cedar, Dallas, Guthrie, Mills, Sioux) that increased 35% or more, with Sioux (+43.1%) the highest.

Percentages employed in service occupations ranged from 11.4% (Clayton) to 22.0% (Mills). Mills was the only one above 18%, although six others (Audubon, Calhoun, Floyd, Palo Alto, Washington, Winneshiek) were between 17.0% and 17.9%. Following the state trend (+8.6%), 67 counties had more service jobs in 1990 than in 1980. Twelve of these counties increased by more than double the state rate, with the three largest gains in Clarke, Warren, and Washington. Those employed in service occupations declined in 31 counties, with six (Cass, Decatur, Humboldt, Mitchell, Pocahontas, Webster) decreasing by at least 15%.

Farming, forestry, and fishing employed only 7% of Iowans, but 77 counties experienced proportions higher than the 1990 state level. Indeed, percentages were more than double that of the state in 39 counties; for five of these (Adair, Audubon, Clayton, Howard, Ringgold) it was at least three times higher. There were counties, however, with very low proportions of farm-based occupations. Black Hawk, Des Moines, Johnson, Linn, Polk, Scott, and Woodbury, all highly urbanized, had less than half the state's level. Polk, the lowest, had only 1.0% in farming, forestry, or fishing. This was the occupational category with the highest percentage of those employed in four counties (Clayton, Howard, Lyon, Ringgold). The change in farming, forestry, and fishing between 1980 and 1990 was dramatic for the state (-25.4%) and most counties. Ninety-seven counties had fewer of these jobs in 1990 than in 1980; 60 recorded percentage declines greater than the state figure, and four (Clarke, Guthrie, Humboldt, Monona) lost more than 40%. Two counties (Dubuque, Polk) reported increases in farming, forestry, and fishing. Dubuque's percentage gain (+0.7%) was small, but Polk's (+30.3%) was much larger. Polk had 1,308 persons in these occupations in 1980 and 1,700 in 1990.

Only Johnson and Story counties had fewer than 7% of their workers in precision production, craft, or repair occupations. The statewide percentage (10.5%) was exceeded in 61 counties with the four highest (Buena Vista, Jackson, Louisa, Van Buren) above 14.0%. There was wide variation among

the counties in changes in precision production, craft, and repair employment. Sixty-nine counties had fewer persons in these jobs in 1990 than in 1980. Six counties (Audubon, Black Hawk, Crawford, Emmet, Franklin, Lucas) lost more than 25%. Increases were recorded in 30 counties; three (Buena Vista, Jasper, Van Buren) gained more than 25%.

Three-fourths (74) of Iowa's counties had higher percentages of persons working as operators, fabricators, and laborers than the state's figure of 16.2%. Twenty-seven counties reported at least 20% in these occupations, of which three (Lee, Louisa, Muscatine) exceeded 25%. Among counties below the state level, two (Johnson, Story) were under 10%. Operators, fabricators, and laborers constituted the largest occupational group in eight counties (Chickasaw, Davis, Lee, Louisa, Mitchell, Muscatine, Osceola, Van Buren). More than half the counties (53) had fewer operators, fabricators, and laborers in 1990 than in 1980. Seven (Black Hawk, Buchanan, Emmet, Fremont, Grundy, Jefferson, Linn) of these decreased by more than three times the state's (-7.5%) level of decline. These types of jobs increased in 46 counties, with gains exceeding 30% in Allamakee, Hancock, and Mitchell.

State: Occupation by Sex

Even though there were more females than males in the state in 1990, about 100,000 more males than females were employed (Table 1). The most substantial difference between the sexes in regard to occupation, however, was in the kinds of jobs each held. Females were much more concentrated in the first three occupational categories (87%) in contrast to a relatively infrequent presence (13%) in the last three groups (Table 7). Fully 41% of employed women were in just one category (technical, sales, and administrative support). Fewer than 3% were in either the farming, fishing, and forestry group or precision production, craft, and repair occupations.

Males were more evenly distributed across the six occupational groups (Table 7). More men (22.8%) worked as operators, fabricators and laborers than in any other category, but managers and professionals (20.6%) and technical, sales, and administrative support (19.2%) followed closely behind. The service occupations had the fewest (8.7%) men.

The only occupational category for which there were similar changes from 1980 to 1990 for both men and women was in farming, forestry, and fishing (Table 13). Both males and females showed similar and substantial percentage declines. Across the other job groups, as well as with total employment, there were important differences by sex. Operator, fabricator, and laborer jobs declined for both men and women, but the percentage decrease was much higher for men than for women. Occupations in both the technical, sales, and administrative support and the service group increased, but in these cases the proportional increase for males was greater than that for females.

The 1980-to-1990 trends for men and women diverged significantly for total employment, managers and professionals, and those in precision production, crafts, and repair. Females recorded a 38.0% increase in managers and professionals compared with a 2.2% loss for males. There was a 20.5% increase for women in precision production, crafts, and repair in contrast to an 11.3% decrease for men. Finally, overall employment for females went up 13.0% while it was down 4.7% for males.

Comparisons of 1990 with earlier decades reveals that employment for females increased significantly at each census since 1940 (Tables 1-6). At that time, 170,000 females were employed in Iowa, compared with 819,000 in 1990, a 264% increase. Males recorded increased employment between 1940 and 1950, although the number declined to 1960 and again to 1970. Employment for men rose in 1980 but declined again to 1990. For the 50-year period, male employment increased 4.1% from 692,000 to 721,000. Even though the gain in employment for women was dramatic during this half century, the number of women employed in Iowa in 1990 did not reach the number of men employed in 1940.

Regardless of the larger numbers of females employed in 1990 than in 1940, women still have much the same kinds of jobs that they had 50 years ago. The sum of the percentages in the first three occupational categories in 1940 yields 85.1% of females who were employed (Table 12). That is essentially no change from the 1990 percentage total of 86.9% (Table 7).

For employed males in Iowa, the 50-year trends center on changes in farming. In 1940, 43.4% of men worked in that category (Table 12). With each successive census, the percentage of men in farming, forestry, and fishing declined to the 1990 figure of 11.3% (Table 7). None of the other five occupation groups exhibited such significant change for men, nor was there anything equivalent for women. As males have shifted out of farming, forestry, and fishing, there has been growth in the other categories, although no single occupational group has had percentage growth to the extent that farming declined.

Counties: Occupation by Sex

The ranges of county figures for the percentage of managers and professionals were fairly similar for men and women in 1990 (Table 7). The same two counties had the highest percentages of both females (Johnson, 34.3%; Story, 31.5%) and males (Johnson, 35.0%; Story, 34.4%) in these occupations. The three counties lowest (Fremont, Keokuk, Taylor) for men as managers and professionals were somewhat below the three lowest (Adams, Delaware, Monroe) for women. Managers and professionals constituted the largest occupational group for men in six counties (Dickinson, Jefferson, Johnson, Linn, Scott, Story); in no county did that occur for women.

County levels for males and females in technical, sales, and administrative support occupations varied substantially. Howard and Osceola had percentages of males in these occupations below 10, while Polk was the only county above 25%. For men, this job category held more than any of the other five in three counties (Dallas, Polk, Warren). At least 27% of employed women were in this occupational group in all counties; three (Allamakee, Decatur, Howard) were under 30% and two (Polk, Warren) exceeded 50%. Taking into account the percentage in Dallas county (45.1%) as well, about half of all jobs held by women in the Des Moines metropolitan area were in technical, sales, and administrative support. The dominance of this occupational group for women's work is obvious throughout the state; it has the highest percentage of the six categories of occupations for females in 98 of the 99 counties (Figure 1).

Service jobs at the county level also showed great differences between males and females. Fewer than 4% of men were in service occupations in six counties (Clayton, Davis, Ida, Lyon, Mitchell, Worth); the highest two (Johnson, Mills) were at 14%. All of the county percentages for females were above 15%, with Linn, Polk, and Warren the only ones below 18%. Three exceeded 30% (Audubon, Calhoun, Mills) for women, which was more than double the highest figure for men. There were more females in the service group in Howard county than in any other occupational category (Figure 1).

Farming, forestry, and fishing occupations showed significant variation by sex in the county figures. Only Howard had as many as 10% of its employed females in the farm-based group. At the other extreme, nine had percentages below 1.0%. Eighty counties reported at least 10% of men employed in farming, forestry, and fishing. In four of these counties (Adair, Audubon, Lyon, Ringgold) approximately one-third of the employed males were in farm-based jobs. Polk county (1.6%) had the lowest proportion of men in this group. Thirty-five counties recorded farming, forestry, and fishing as its largest occupational group for males (Figure 2).

For females, precision production, craft, and repair occupations had the smallest range of county values of any of the six job categories. Jackson county was the only one reaching 6%; 27 were below 2%. In contrast to females, all of the counties had at least 10% of males employed in precision production, craft, and repair jobs; percentages ranged from 10.7% (Johnson) to 22.6% (Jasper). In Buena Vista and Mills, more males were employed in this occupational category than any other.

Percentages of women employed as operators, fabricators, and laborers ranged from a low of 3.6% in Shelby to a high of 17.5% in Union. Two-thirds of the counties (67) surpassed the state's 8.5% level. For men, only three counties (Jefferson, Johnson, Story) were below the highest figure for women in this job category. Sixty-two counties exceeded the state's 22.8% level, with three (Louisa, Lucas, Muscatine) reporting about a third of their employed males in this category. This occupational group had more men than any other in 53 of the counties (Figure 2).

State and Counties: Percentages of Females in General Occupational Categories

There were substantial differences across the six occupational categories in the percentage of each that was held by females. In 1990, more than two-thirds (67.7%) of service jobs were held by women and they held nearly that percentage of technical, sales, and administrative support positions (64.9%) (Table 14). In contrast, only 11.0% of precision production, craft, and repair jobs were held by females; the percentages were 13.2 for farming, forestry, and fishing, and 24.3 for operator, fabricator, and laborer positions. Manager and professional jobs were held nearly evenly by women (50.4%) and men (49.6%).

Females had slightly lower percentages of the jobs in both the technical, sales, and administrative support and service categories in 1990 than they did in 1980 (Table 14). In the other four groups, women had a larger percentage in the more recent year. The increase in the percentage of managers and professionals was substantially larger than that for the other three categories in which females increased. In 1990, females constituted 46.2% of the total employed compared with 42.0% in 1980. In 1940, women made up only 19.7% of those employed (Table 15). With the exception of the service category, females had significantly higher percentages in each of the occupational groups in 1990 than in 1940.

In 1990, the percentage of females of the total number employed ranged from 41.0% in Louisa to 49.2% in Polk. In the manager and professional occupations, women held 42.6% of the jobs in Story to 66.1% in Fremont; four other counties (Keokuk, Ringgold, Taylor, Wayne) also exceeded 60%. Females held a majority of the technical, sales, and administrative support positions in all the counties; the percentages were less than 60 in Jefferson and Decatur. In two others (Adams, Monroe), nearly three of every four persons employed in technical, sales and administrative support occupations were female.

Women had less than 6 of every 10 jobs in service occupations in four counties but at least 8 of 10 of these jobs in 15 other counties. Dallas, Ida, Mitchell, and Worth reported at least 85% of service positions held by females. Women held less than 10% of the farming, forestry, and fishing occupations in 29 counties and at least 15% in 29 others. Less than 10% of the precision production, craft, and repair occupations were held by females in 45 counties; in contrast, at least 20% of all employed in this group were females in Clarke, Iowa, Jackson, Union, and Winneshiek. Finally, more than a third of the operator, fabricator, and laborer jobs were held by women in seven counties (Allamakee, Clarke, Decatur, Dickinson, Lyon, Union, Winnebago), while less than 20% of those employed in this occupational group were females in 17 others.

Notes: Questions on occupation are included on the census bureau's long form, which is completed in a sample of housing units. In 1990, that sample was based on one of every two housing units in incorporated places with fewer than 2,500 residents; in other areas (incorporated places with at least 2,500 residents and open country areas of all Iowa counties), one of every six housing units was sampled. In densely settled urban areas, the rate was raised to 1-in-8 housing units. For persons living in group quarters, the sampling unit was the person; persons in group quarters were sampled at a 1-in-6 rate. In general, the sampling rate selected about one of every six housing units or persons in group quarters in Iowa. The results were then weighted to represent the total population of counties and the state.

For occupation, the data refer to the person's job during the reference week, which means the week preceding the date on which the census questionnaire was completed (generally about 1 April 1990). For those who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. Anyone at work (paid employees, working in own business or profession, working on own farm, or working 15 hours or more as unpaid workers on a family farm or in a family business) or were with a job but not at work (temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons) was counted no matter the number of hours worked (with the exception noted); thus, both full- and part-time workers are included in the occupational totals.

although only one occupation is reported for those individuals employed at two or more jobs. Excluded from the employed were persons whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded were persons on active duty in the U.S. Armed Forces.

Additional information on the occupations included in each of the general categories reported in these tables is available in publications from each census. Reports on "General Social and Economic Characteristics," "Detailed Characteristics," or other volumes from 1940 through 1990, some of which contain much greater detail for the state as a whole, can be reviewed at major libraries throughout Iowa.

Figure 1. Highest percentage of occupations for females, 1990.

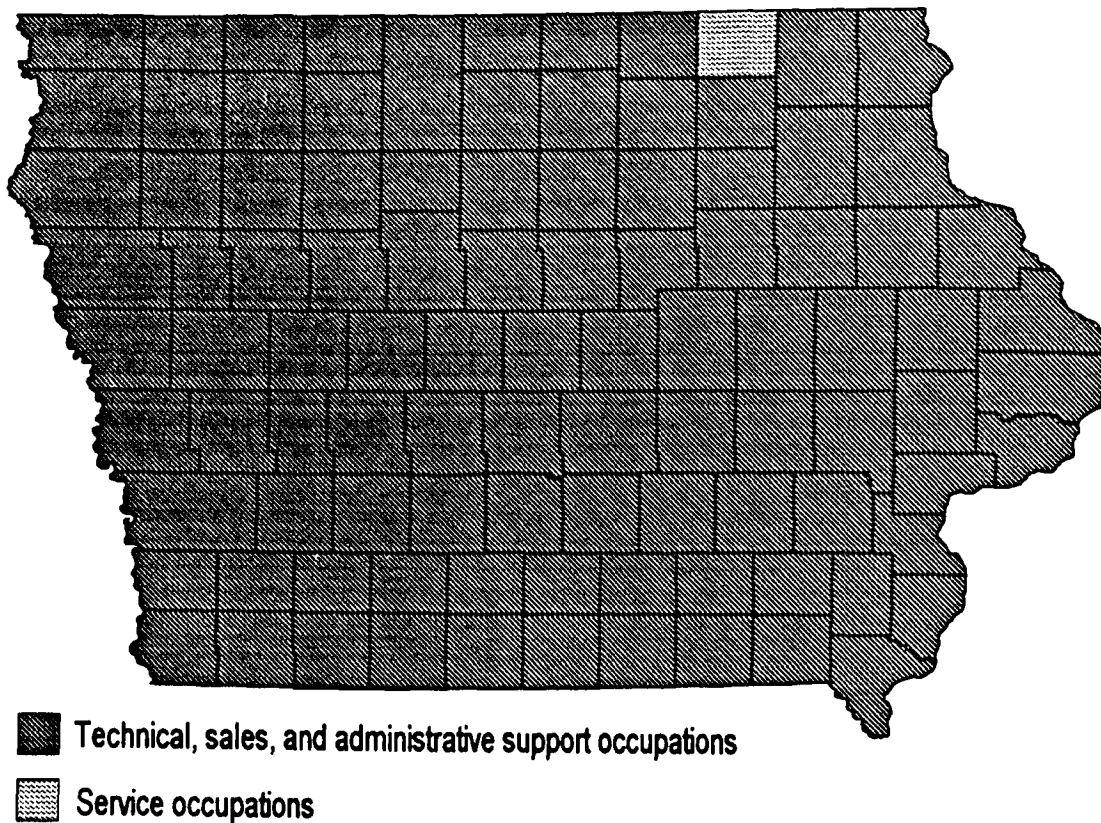
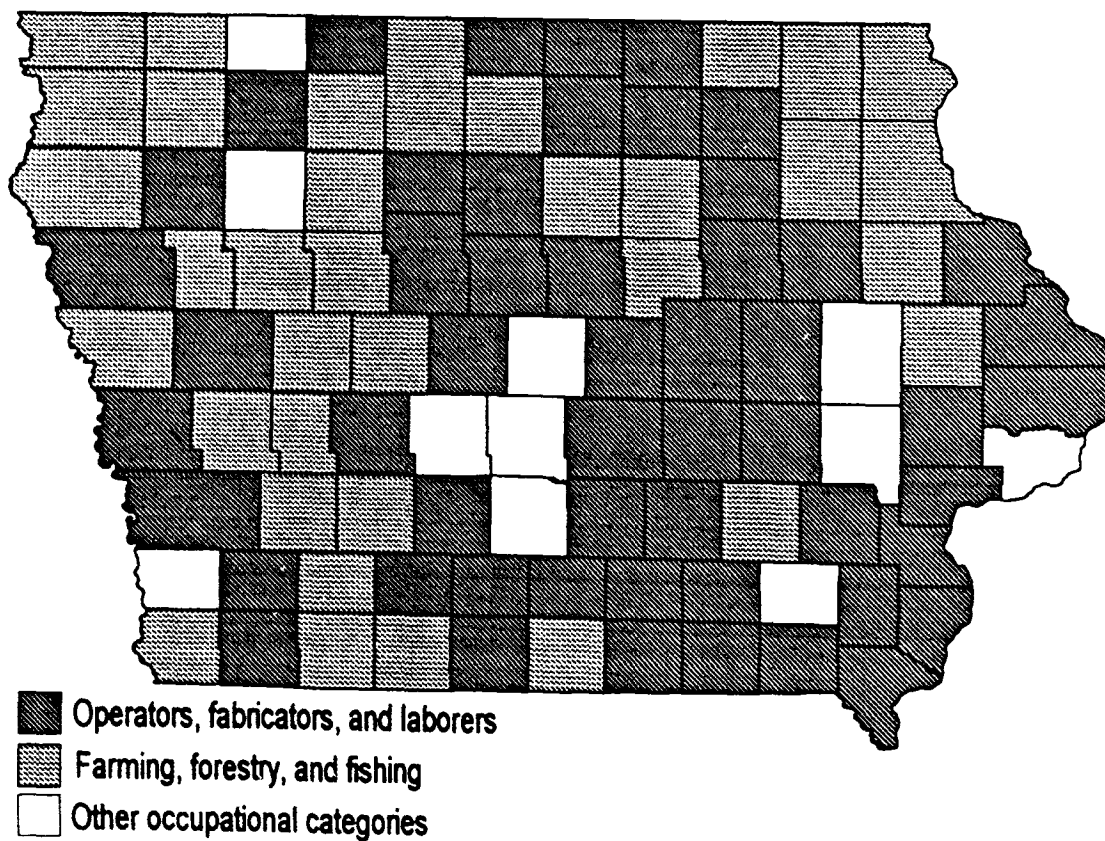


Figure 2. Highest percentage of occupations for males, 1990.



Income of Employed Females and Males in Iowa's Counties: 1979-1989

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A series of questions on income is included in the decennial census. In the 1990 census, information on money income received in the calendar year 1989 was requested from persons 15 years old and over. Responses were summed across amounts reported separately for wage or salary income; net nonfarm self-employment income; net farm self-employment income; interest, dividend, or net rental or royalty income; Social Security or railroad retirement income; public assistance or welfare income; retirement or disability income; and all other income. It does not include money received from the sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employer contributions for persons, and so on; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Income from all Sources for Persons Employed Full Time

Full-time workers are defined by the U.S. Bureau of the Census as persons 16 years of age or older who usually worked 35 hours or more per week for 50 to 52 weeks (including paid vacation and paid sick leave) per year. Those working without pay on a family farm or in a family business are included if they work the required number of hours per week and weeks per year; weeks of active service in the Armed Forces also are included.

In 1989, more females employed full time were in the \$10,000-\$14,999 income category than any other (Table 1), while more males were in the \$25,000-\$34,999 category than others (Table 2). Differences also occur in the figures for median income, which were \$16,465 for females and \$25,391 for males. When some of the income categories are collapsed and percentages calculated, females again differ from males. For example, more than two-fifths (42.4%) of females employed full time reported incomes of less than \$15,000 in 1989 compared with less than two-fifths of males (17.8%) (Table 3). At the other extreme, more than one in four males (27.0%) employed full time had incomes above \$35,000 while only one in twenty (5.9%) females reached this level of income.

Similar results occurred in 1979. The median income for females employed full time that year was \$9,846 and more females had income under \$5,000 than any other category (Table 4). In contrast, more males were in the \$15,000-\$19,999 category than the others listed; their median income was \$17,297 (Table 5). Again, females were far more likely to be located at the lower end of the income scale than were males (Table 6); in 1979, 39.1% of males working full time had incomes under \$15,000; the figure for females was 83.2%, or more than twice the proportion of males.

In 1989, the median income of females employed full time was 64.8% of that of males employed full time (Table 13). Stated another way, for those employed full time, for every \$1.00 of income reported by males, females reported \$0.65. This gap narrowed somewhat between 1979 and 1989 (Table 13); in 1979, the median income of females employed full time was 56.9% of that of males.

Differences exist across Iowa's 99 counties, of course. In 1989, for example, in only one county (Johnson) did more than 10 percent of females employed full time report incomes of at least \$35,000. In that year, only one county (Van Buren) had fewer than 10% of males employed full time with incomes of

Table 1. Income of Females Employed Full Time in Iowa Counties, 1989.

County	Total	No Income	\$1-\$4999 or Loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income
Adair	837	7	31	169	247	195	92	67	20	7	2	14398
Adams	484	11	15	122	168	99	33	31	2	0	3	12554
Allamakee	1382	24	113	269	555	183	148	68	17	5	0	12285
Appanoose	1125	7	54	229	385	217	100	120	6	7	0	13275
Audubon	700	8	26	189	226	129	77	31	8	4	2	12306
Benton	2298	10	136	284	555	447	403	343	81	31	8	16553
Black Hawk	11823	37	217	1479	3191	2844	1587	1708	601	118	41	16568
Boone	2914	2	74	346	835	766	428	338	109	11	5	16069
Bremer	2023	23	78	271	615	462	259	183	102	14	16	15331
Buchanan	1716	27	74	352	422	337	231	203	59	9	2	14946
Buena Vista	1660	31	78	375	420	399	183	99	66	9	0	14242
Butler	1363	24	93	247	404	265	152	158	16	4	0	13885
Calhoun	995	5	44	216	327	173	136	57	22	6	9	13321
Carroll	2101	23	101	399	689	345	304	160	36	25	19	13601
Cass	1357	7	62	332	369	321	116	110	11	14	15	12944
Cedar	2164	2	66	382	578	484	308	267	46	24	7	15507
Cerro Gordo	5703	13	115	643	1861	1442	815	603	144	50	17	15620
Cherokee	1356	13	64	248	358	271	239	123	39	0	1	15021
Chickasaw	1426	42	54	270	411	346	151	130	18	2	2	14409
Clarke	1077	8	49	181	315	212	174	113	25	0	0	14819
Clay	1847	4	52	288	590	448	243	172	25	17	8	14899
Clayton	1839	47	96	454	544	389	190	91	24	2	2	12996
Clinton	5259	43	113	857	1622	1092	557	730	204	35	6	15064
Crawford	1527	24	104	291	499	290	196	106	10	2	5	12656
Dallas	3975	26	61	372	1020	1017	774	477	211	11	6	17256
Davis	781	10	61	149	152	154	118	115	22	0	0	15660
Decatur	787	0	33	177	251	141	112	45	18	10	0	13533
Delaware	1771	10	86	435	420	413	158	163	41	25	20	13650
Des Moines	4708	13	99	619	1385	1038	594	774	90	76	20	16027
Dickinson	1568	2	72	272	412	399	219	114	44	25	9	15311
Dubuque	9451	41	261	1559	2699	1863	1306	1175	375	101	71	15427
Emmet	939	7	45	193	364	155	102	56	17	0	0	13172
Fayette	1855	26	125	357	540	373	205	183	30	5	11	13856
Floyd	1637	19	75	228	448	450	200	195	15	7	0	15466
Franklin	1071	21	70	211	334	180	133	72	34	6	10	13500
Fremont	836	3	60	169	219	137	155	60	18	8	7	14220
Greene	960	5	68	154	310	175	103	102	39	2	2	14040
Grundy	1014	13	37	195	301	217	124	113	14	0	0	14435
Guthrie	1229	2	71	251	293	239	197	110	59	7	0	14970
Hamilton	1768	16	63	300	493	485	195	170	30	14	2	15193
Hancock	1200	7	58	274	333	196	162	139	16	11	4	13785
Hardin	1762	6	64	293	691	384	142	126	34	11	11	13184
Harrison	1580	15	55	285	496	324	194	159	32	18	2	14231
Henry	1960	0	15	271	448	554	351	245	65	6	5	16708
Howard	833	19	48	155	256	144	152	30	12	17	0	13471
Humboldt	887	10	41	159	234	246	100	75	11	11	0	15065
Ida	701	21	59	142	213	124	67	38	11	22	4	13131
Iowa	1846	0	64	307	485	423	286	198	58	11	14	15614
Jackson	2222	23	93	503	721	392	244	173	59	5	9	12901
Jasper	4123	25	81	474	1125	916	596	757	125	22	2	16680

Table 1. Income of Females Employed Full Time in Iowa Counties, 1989 (continued).

County	Total	No Income	\$1-\$4999 or Loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income
Jefferson	1357	2	77	260	368	258	187	129	61	15	0	14535
Johnson	12709	28	167	932	2042	2764	2285	2955	1024	361	151	20805
Jones	1918	22	89	339	506	385	290	207	48	32	0	15158
Keokuk	1128	21	44	200	384	251	120	73	26	9	0	13936
Kossuth	1575	18	106	268	511	289	181	174	16	3	9	13434
Lee	3926	16	77	583	1072	900	599	513	114	21	31	16250
Linn	23168	49	323	2208	5189	5646	4224	4088	1057	246	138	18098
Louisa	1094	14	50	171	311	245	108	132	49	9	5	15136
Lucas	865	0	33	169	209	169	157	106	22	0	0	15611
Lyon	965	28	41	221	325	190	90	61	9	0	0	12721
Madison	1377	11	37	202	360	366	221	113	53	14	0	16014
Mahaska	1843	6	36	323	576	339	253	256	47	7	0	14830
Marion	3122	5	71	451	667	577	599	598	107	39	8	18496
Marshall	4377	22	97	519	1055	1056	752	709	142	19	6	17245
Mills	1812	2	33	246	360	544	316	250	43	18	0	17481
Mitchell	981	4	63	166	377	183	81	88	19	0	0	13509
Monona	806	7	29	222	280	101	91	53	9	9	5	12528
Monroe	683	0	31	121	217	157	65	84	8	0	0	14095
Montgomery	1501	5	45	248	442	444	206	85	26	0	0	15138
Muscatine	4256	8	178	766	835	926	696	566	223	56	2	16524
O'Brien	1308	30	68	231	443	275	139	77	38	7	0	13328
Osceola	668	8	45	147	244	138	48	33	3	2	0	12315
Page	1573	7	69	249	438	333	293	153	31	0	0	15367
Palo Alto	783	13	48	192	256	140	81	42	7	2	2	12003
Plymouth	2302	31	80	483	665	482	254	232	66	9	0	14093
Pocahontas	869	26	58	149	287	193	68	51	30	4	3	13502
Polk	51966	48	569	3349	11556	12761	9018	9837	3722	810	296	18946
Pottawattamie	11046	42	193	1472	2960	2598	1663	1468	577	66	7	16372
Poweshiek	2180	41	56	300	589	427	384	259	87	20	17	16496
Ringgold	456	7	14	109	137	93	41	37	2	14	2	13635
Sec	982	2	61	244	309	180	101	62	16	2	5	12360
Scott	17977	7	247	1619	4000	4317	2732	3283	1412	226	134	18385
Shelby	1237	8	63	236	432	265	117	99	15	2	0	13373
Sioux	2284	24	159	412	763	506	187	189	14	22	8	13436
Story	7693	12	225	734	1713	1798	1282	1247	497	134	51	17853
Tama	1654	10	68	315	466	316	222	194	48	11	4	14699
Taylor	607	0	42	168	128	166	54	33	10	6	0	12487
Union	1290	0	25	208	458	323	152	75	15	34	0	14458
Van Buren	612	0	25	161	190	120	69	44	0	3	0	12892
Wapello	3090	0	91	564	836	686	399	381	103	19	11	15311
Warren	5174	7	87	439	1339	1366	858	803	252	18	5	17159
Washington	2313	6	92	360	602	645	328	220	52	8	0	15727
Wayne	646	14	45	132	214	144	54	34	4	5	0	12447
Webster	3998	22	69	725	1140	1032	516	382	67	39	6	15234
Winnebago	1251	2	46	174	406	326	156	112	15	5	9	14976
Winneshiek	1952	28	101	303	606	510	233	119	44	0	8	14533
Woodbury	11075	40	232	1532	3445	2415	1440	1405	432	105	29	15536
Worth	794	0	42	121	237	216	89	83	4	2	0	14932
Wright	1312	2	88	240	432	263	177	78	27	0	5	13474
State of Iowa	314995	1487	8499	41380	82206	72119	46787	44147	13864	3260	1336	16465

Table 2. Income of Males Employed Full Time in Iowa Counties, 1989.

County	Total	No Income	\$1-\$4999 or Loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income
Adair	1713	24	62	150	231	378	255	348	180	50	35	20417
Adams	1054	23	69	99	153	194	204	161	81	37	33	20012
Allamakee	2588	39	138	187	500	433	425	382	280	119	85	20176
Appanoose	2086	2	124	162	267	339	298	374	365	102	53	22005
Audubon	1440	5	59	118	260	279	250	217	112	80	60	20022
Benton	4311	21	150	214	438	591	878	1116	588	239	76	23967
Black Hawk	20668	14	211	846	1768	2342	2571	4905	4908	2213	890	30176
Boone	4595	7	38	193	499	660	855	1244	733	271	95	25302
Bremer	4476	7	123	202	517	492	670	1111	882	355	117	26505
Buchanan	3637	19	82	172	468	567	565	763	630	280	91	24496
Buena Vista	3867	6	70	144	469	690	868	821	486	176	137	22936
Butler	2826	7	146	120	392	492	427	604	422	145	71	22796
Calhoun	1975	2	51	122	262	378	380	403	213	111	53	21618
Carroll	4115	16	142	287	511	710	783	921	425	211	109	22107
Cass	2939	7	78	162	389	562	658	534	339	125	85	21538
Cedar	3642	15	114	149	403	558	689	884	546	174	110	23985
Cerro Gordo	8712	6	96	425	977	1367	1748	2125	1164	485	319	24065
Cherokee	2556	14	84	174	303	398	570	601	194	142	76	22254
Chickasaw	2661	13	80	163	349	466	471	617	315	128	59	22605
Clarke	1502	6	55	96	218	300	290	221	180	51	85	21148
Clay	3411	1	63	188	336	526	674	835	409	225	154	24326
Clayton	3643	21	244	368	594	694	518	626	346	123	109	19334
Clinton	9591	32	154	459	885	1293	1373	2438	2101	607	249	27180
Crawford	3186	13	106	152	461	573	651	711	311	147	61	21640
Dallas	6059	7	73	191	517	951	1093	1483	1002	475	267	26030
Davis	1545	14	101	153	305	294	252	245	109	49	23	17917
Decatur	1334	3	84	128	233	244	219	218	145	38	22	19548
Delaware	3351	34	197	159	433	575	636	709	325	174	109	21979
Des Moines	7817	9	51	296	806	898	1221	2352	1638	342	204	27376
Dickinson	2803	0	51	145	312	506	533	629	273	159	195	23432
Dubuque	16114	31	249	829	1539	2465	2617	3870	2688	1138	688	25655
Emmet	1982	11	57	102	254	405	400	411	179	124	39	21829
Fayette	4089	32	164	368	627	697	698	754	453	188	108	21060
Floyd	3123	5	153	163	340	577	586	770	321	113	95	22355
Franklin	2175	2	44	132	208	411	401	551	230	142	54	23199
Fremont	1438	4	35	87	197	279	302	280	175	44	35	21549
Greene	1829	4	42	106	199	415	333	423	159	100	48	21588
Grundy	2394	2	67	105	217	349	429	609	382	162	72	25342
Guthrie	2033	2	90	158	250	411	349	334	249	122	68	21280
Hamilton	3211	8	41	179	340	670	646	703	422	135	67	22406
Hancock	2530	10	59	128	316	488	529	646	238	62	54	22095
Hardin	3521	14	120	188	440	629	668	782	419	174	87	22230
Harrison	2799	15	64	201	331	635	441	673	288	83	68	21453
Henry	3626	0	83	127	423	653	711	1002	411	116	100	23487
Howard	1924	7	88	195	253	345	397	352	153	85	49	20804
Humboldt	2020	0	37	104	223	371	428	467	175	100	115	22921
Ida	1698	5	100	107	168	350	315	324	184	97	48	21756
Iowa	3149	8	129	163	346	624	714	627	327	123	88	21669
Jackson	3777	30	169	240	495	647	598	827	537	164	70	22026
Jasper	7075	14	110	294	631	774	1020	2452	1038	503	239	27648

Table 2. Income of Males Employed Full Time in Iowa Counties, 1989 (continued).

County	Total	No Income	\$1-\$4999 or Loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income
Jefferson	2956	6	129	206	232	455	535	574	531	186	102	24208
Johnson	16683	29	217	894	1767	2038	2337	3809	2628	1706	1258	27251
Jones	3854	45	179	207	596	619	761	814	384	172	77	21521
Keokuk	2131	5	110	148	340	377	368	459	187	90	47	20940
Kossuth	3481	13	124	253	381	563	738	825	322	161	101	22216
Lee	6923	6	106	356	648	927	1241	1783	1219	474	163	25830
Linn	35614	5	305	1261	2642	3792	4977	9323	8116	3423	1770	30118
Louisa	2385	15	52	134	268	338	441	626	363	99	49	24344
Lucas	1646	12	72	127	184	277	215	401	244	98	16	22958
Lyon	2336	0	134	171	395	513	351	394	174	130	74	19546
Madison	2350	18	60	103	261	362	360	656	308	171	51	25218
Mahaska	4055	0	82	174	396	680	757	1198	436	207	125	24472
Marion	5657	0	133	186	360	667	970	2081	728	328	204	26996
Marshall	7776	10	124	286	690	903	1085	2385	1467	560	266	28050
Mills	2334	10	46	148	197	526	334	506	347	165	55	23399
Mitchell	2096	23	63	86	344	317	363	500	253	101	46	22981
Monona	1726	8	64	129	236	383	297	333	173	43	60	20635
Monroe	1363	0	44	81	200	254	219	292	177	66	30	21805
Montgomery	2397	11	44	107	291	575	490	432	255	97	95	21438
Muscatine	8223	14	146	303	549	908	1124	2673	1626	605	275	29157
O'Brien	2960	11	134	128	308	481	636	662	354	162	84	22445
Osceola	1420	7	42	52	235	240	303	279	132	77	53	21555
Page	3135	0	104	205	388	447	724	629	410	142	86	22327
Palo Alto	1761	2	53	101	315	328	358	304	207	53	40	20764
Plymouth	4689	33	115	209	564	710	678	1257	667	282	174	25345
Pocahontas	1816	29	65	83	194	312	357	420	217	92	47	22931
Polk	66980	14	496	2385	6472	8696	8761	17051	12534	6261	4310	28514
Pottawattamie	15825	0	165	763	2042	2755	2657	3957	2219	816	451	23820
Poweshiek	3462	2	111	148	384	561	605	873	468	204	106	24167
Ringgold	935	8	43	50	178	189	147	165	105	26	24	20082
Sec	2288	7	60	108	354	495	474	404	211	104	71	20974
Scott	28784	14	204	1000	2313	3214	3675	6808	6769	3375	1412	30756
Shelby	2559	25	121	161	395	475	485	482	207	91	117	20890
Sioux	5929	28	174	314	707	992	1316	1279	616	254	249	22283
Story	12101	13	188	561	1258	1593	1736	2994	1990	1126	642	26806
Tama	3270	7	79	184	416	581	620	718	358	189	118	22412
Taylor	1218	7	91	131	237	220	208	188	87	45	4	18216
Union	2241	16	78	138	302	419	407	414	319	109	39	21590
Van Buren	1430	6	100	157	217	285	272	254	83	43	13	19155
Wapello	5929	11	116	247	610	997	1063	1291	1036	335	223	24591
Warren	7452	0	157	281	702	841	1153	2263	1407	448	200	27434
Washington	4022	0	65	215	523	780	838	885	445	194	77	21766
Wayne	1138	13	76	68	232	221	183	168	100	52	25	19063
Webster	7110	12	80	411	625	1275	1317	1947	888	356	199	24326
Winnebago	2278	7	153	78	344	408	526	373	247	85	57	21030
Winneshiek	3877	28	260	302	555	596	657	718	392	200	169	21345
Woodbury	17825	30	190	875	1995	3045	3183	4071	2533	1096	807	24263
Worth	1422	0	43	75	161	283	291	275	156	104	34	22047
Wright	2645	7	57	128	306	449	481	648	332	135	102	23686
State of Iowa	527097	1158	10851	25318	56362	78307	85681	127296	84157	36946	21021	25391

Table 3. Percentages of Females and Males Employed Full Time With Incomes in Selected Categories in Iowa Counties, 1989.

County	Females				Males			
	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more
Adair	54.2	34.3	8.0	3.5	27.3	37.0	20.3	15.5
Adams	65.3	27.3	6.4	1.0	32.6	37.8	15.3	14.3
Allamakee	69.5	24.0	4.9	1.6	33.4	33.2	14.8	18.7
Appanoose	60.0	28.2	10.7	1.2	26.6	30.5	17.9	24.9
Audubon	64.1	29.4	4.4	2.0	30.7	36.7	15.1	17.5
Benton	42.9	37.0	14.9	5.2	19.1	34.1	25.9	20.9
Black Hawk	41.6	37.5	14.4	6.4	13.7	23.8	23.7	38.8
Boone	43.1	41.0	11.6	4.3	16.0	33.0	27.1	23.9
Bremer	48.8	35.6	9.0	6.5	19.0	26.0	24.8	30.3
Buchanan	51.0	33.1	11.8	4.1	20.4	31.1	21.0	27.5
Buena Vista	54.5	35.1	6.0	4.5	17.8	40.3	21.2	20.7
Butler	56.3	30.6	11.6	1.5	23.5	32.5	21.4	22.6
Calhoun	59.5	31.1	5.7	3.7	22.1	38.4	20.4	19.1
Carroll	57.7	30.9	7.6	3.8	23.2	36.3	22.4	18.1
Cass	56.7	32.2	8.1	2.9	21.6	41.5	18.2	18.7
Cedar	47.5	36.6	12.3	3.6	18.7	34.2	24.3	22.8
Cerro Gordo	46.2	39.6	10.6	3.7	17.3	35.8	24.4	22.6
Cherokee	50.4	37.6	9.1	2.9	22.5	37.9	23.5	16.1
Chickasaw	54.5	34.9	9.1	1.5	22.7	35.2	23.2	18.9
Clarke	51.3	35.8	10.5	2.3	25.0	39.3	14.7	21.0
Clay	50.6	37.4	9.3	2.7	17.2	35.2	24.5	23.1
Clayton	62.0	31.5	4.9	1.5	33.7	33.3	17.2	15.9
Clinton	50.1	31.4	13.9	4.7	16.0	27.8	25.4	30.8
Crawford	60.1	31.8	6.9	1.1	23.0	38.4	22.3	16.3
Dallas	37.2	45.1	12.0	5.7	13.0	33.7	24.5	28.8
Davis	47.6	34.8	14.7	2.8	37.1	35.3	15.9	11.7
Decatur	58.6	32.1	5.7	3.6	33.6	34.7	16.3	15.4
Delaware	53.7	32.2	9.2	4.9	24.6	36.1	21.2	18.1
Des Moines	44.9	34.7	16.4	4.0	14.9	27.1	30.1	27.9
Dickinson	48.3	39.4	7.3	5.0	18.1	37.1	22.4	22.4
Dubuque	48.2	33.5	12.4	5.8	16.4	31.5	24.0	28.0
Emmet	64.9	27.4	6.0	1.8	21.4	40.6	20.7	17.3
Fayette	56.5	31.2	9.9	2.5	29.1	34.1	18.4	18.3
Floyd	47.0	39.7	11.9	1.3	21.2	37.2	24.7	16.9
Franklin	59.4	29.2	6.7	4.7	17.7	37.3	25.3	19.6
Fremont	53.9	34.9	7.2	3.9	22.5	40.4	19.5	17.7
Greene	55.9	29.0	10.6	4.5	19.2	40.9	23.1	16.8
Grundy	53.8	33.6	11.1	1.4	16.3	32.5	25.4	25.7
Guthrie	50.2	35.5	9.0	5.4	24.6	37.4	16.4	21.6
Hamilton	49.3	38.5	9.6	2.6	17.7	41.0	21.9	19.4
Hancock	56.0	29.8	11.6	2.6	20.3	40.2	25.5	14.0
Hardin	59.8	29.9	7.2	3.2	21.6	36.8	22.2	19.3
Harrison	53.9	32.8	10.1	3.3	21.8	38.4	24.0	15.7
Henry	37.4	46.2	12.5	3.9	17.5	37.6	27.6	17.3
Howard	57.4	35.5	3.6	3.5	28.2	38.6	18.3	14.9
Humboldt	50.1	39.0	8.5	2.5	18.0	39.6	23.1	19.3
Ide	62.1	27.2	5.4	5.3	22.4	39.2	19.1	19.4
Iowa	46.4	38.4	10.7	4.5	20.5	42.5	19.9	17.1
Jackson	60.3	28.6	7.8	3.3	24.7	33.0	21.9	20.4
Jasper	41.4	36.7	18.4	3.6	14.8	25.4	34.7	25.2

Table 3. Percentages of Females and Males Employed Full Time With Incomes in Selected Categories in Iowa Counties, 1989 (continued).

County	Females				Males			
	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more
Jefferson	52.1	32.8	9.5	5.6	19.4	33.5	19.4	27.7
Johnson	24.9	39.7	23.3	12.1	17.4	26.2	22.8	33.5
Jones	49.8	35.2	10.8	4.2	26.6	35.8	21.1	16.4
Keokuk	57.5	32.9	6.5	3.1	28.3	35.0	21.5	15.2
Kossuth	57.3	29.8	11.0	1.8	22.1	37.4	23.7	16.8
Lee	44.5	38.2	13.1	4.2	16.1	31.3	25.8	26.8
Linn	33.5	42.6	17.6	6.2	11.8	24.6	26.2	37.4
Louisa	49.9	32.3	12.1	5.8	19.7	32.7	26.2	21.4
Lucas	47.5	37.7	12.3	2.5	24.0	29.9	24.4	21.7
Lyon	63.7	29.0	6.3	0.9	30.0	37.0	16.9	16.2
Madison	44.3	42.6	8.2	4.9	18.8	30.7	27.9	22.6
Mahaska	51.1	32.1	13.9	2.9	16.1	35.4	29.5	18.9
Marion	38.2	37.7	19.2	4.9	12.0	28.9	36.8	22.3
Marshall	38.7	41.3	16.2	3.8	14.3	25.6	30.7	29.5
Mills	35.4	47.5	13.8	3.4	17.2	36.8	21.7	24.3
Mitchell	62.2	26.9	9.0	1.9	24.6	32.4	23.9	19.1
Monona	66.7	23.8	6.6	2.9	25.3	39.4	19.3	16.0
Monroe	54.0	32.5	12.3	1.2	23.8	34.7	21.4	20.0
Montgomery	49.3	43.3	5.7	1.7	18.9	44.4	18.0	18.6
Muscatine	42.0	38.1	13.3	6.6	12.3	24.7	32.5	30.5
O'Brien	59.0	31.7	5.9	3.4	19.6	37.7	22.4	20.3
Osceola	66.5	27.8	4.9	0.7	23.7	38.2	19.6	18.5
Page	48.5	39.8	9.7	2.0	22.2	37.4	20.1	20.4
Palo Alto	65.0	28.2	5.4	1.4	26.7	39.0	17.3	17.0
Plymouth	54.7	32.0	10.1	3.3	19.6	29.6	26.8	23.9
Pocahontas	59.8	30.0	5.9	4.3	20.4	36.8	23.1	19.6
Polk	29.9	41.9	18.9	9.3	14.0	26.1	25.5	34.5
Pottawattamie	42.3	38.6	13.3	5.9	18.8	34.2	25.0	22.0
Poweshiek	45.2	37.2	11.9	5.7	18.6	33.7	25.2	22.5
Ringgold	58.6	29.4	8.1	3.9	29.8	35.9	17.6	16.6
Sac	62.7	28.6	6.3	2.3	23.1	42.4	17.7	16.9
Scott	32.7	39.2	18.3	9.9	12.3	23.9	23.7	40.1
Shelby	59.7	30.9	8.0	1.4	27.4	37.5	18.8	16.2
Sioux	59.5	30.3	8.3	1.9	20.6	38.9	21.6	18.9
Story	34.9	40.0	16.2	8.9	16.7	27.5	24.7	31.1
Tama	51.9	32.5	11.7	3.8	21.0	36.7	22.0	20.3
Taylor	55.7	36.2	5.4	2.6	38.3	35.1	15.4	11.2
Union	53.6	36.8	5.8	3.8	23.8	36.9	18.5	20.8
Van Buren	61.4	30.9	7.2	0.5	33.6	39.0	17.8	9.7
Wapello	48.3	35.1	12.3	4.3	16.6	34.7	21.8	26.9
Warren	36.2	43.0	15.5	5.3	15.3	26.8	30.4	27.6
Washington	45.8	42.1	9.5	2.6	20.0	40.2	22.0	17.8
Wayne	62.7	30.7	5.3	1.4	34.2	35.5	14.8	15.6
Webster	48.9	38.7	9.6	2.8	15.9	36.5	27.4	20.3
Winnebago	50.2	38.5	9.0	2.3	25.5	41.0	16.4	17.1
Winneshiek	53.2	38.1	6.1	2.7	29.5	32.3	18.5	19.6
Woodbury	47.4	34.8	12.7	5.1	17.3	34.9	22.8	24.9
Worth	50.4	38.4	10.5	0.8	19.6	40.4	19.3	20.7
Wright	58.1	33.5	5.9	2.4	18.8	35.2	24.5	21.5
State of Iowa	42.4	37.7	14.0	5.9	17.8	31.1	24.2	27.0

Table 4. Income of Females Employed Full Time in Iowa Counties, 1979.

County	Total	No Income	\$1-\$4999 or less	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Adair	684	445	970	288	194	17	6	9	0	2	8255
Adams	535	304	579	257	79	42	2	7	0	7	8189
Allamakee	1186	602	1524	619	192	62	31	2	6	2	7426
Appanoose	855	829	1697	488	210	34	8	0	0	4	8622
Audubon	566	375	855	273	84	47	20	6	7	0	7609
Benton	1789	1121	2338	611	607	220	26	39	7	0	10140
Black Hawk	11312	6714	15498	4270	3573	1739	632	234	41	20	10753
Boone	2096	1305	2630	1029	645	142	54	31	2	12	9348
Bremer	1622	1281	2773	751	402	152	22	16	9	10	8682
Buchanan	1479	1271	2209	517	437	175	46	27	12	0	9890
Buena Vista	1432	952	2613	726	280	101	23	23	0	13	8049
Butler	1046	988	1922	542	225	76	7	21	7	6	8200
Calhoun	810	628	1397	386	203	58	26	4	4	2	8494
Carroll	1791	937	2290	773	603	164	21	15	6	9	9651
Cass	1292	758	1856	657	295	64	18	7	0	0	7956
Cedar	1511	670	1804	660	444	139	57	7	9	2	9298
Cerro Gordo	4512	2140	4781	2248	1264	349	109	52	7	17	9082
Cherokee	1208	732	1488	557	324	100	31	27	0	2	8975
Chickasaw	1127	749	1284	487	326	81	20	8	0	0	9037
Clarke	710	419	866	379	166	51	15	10	0	0	8680
Clay	1565	858	1917	745	430	149	24	31	5	49	9368
Clayton	1541	1249	1945	679	318	93	40	40	2	12	8076
Clinton	4620	2958	5397	2099	1404	533	118	49	20	20	9644
Crawford	1245	909	2070	441	325	108	65	2	0	2	8881
Dallas	2858	1304	2678	1299	1031	211	55	61	12	6	9889
Davis	629	564	986	290	145	55	20	5	0	0	8574
Decatur	679	553	1103	380	130	37	2	0	0	0	7511
Delaware	1302	1236	1884	579	349	91	13	17	6	6	8783
Des Moines	4355	2146	4116	1655	1558	563	145	108	18	24	10679
Dickinson	1292	630	1619	656	403	68	25	11	7	0	9016
Dubuque	7481	5158	8790	3382	2010	890	310	141	31	18	9453
Emmet	865	633	1432	423	214	61	32	28	0	6	8832
Fayette	1652	1303	2551	862	370	123	43	14	5	7	8222
Floyd	1276	862	1991	606	378	89	29	24	3	0	9119
Franklin	848	572	1425	410	196	59	22	15	0	5	8320
Fremont	733	406	973	435	138	42	11	4	2	0	8283
Greene	917	478	1208	440	254	73	18	3	0	0	8886
Grundy	896	677	1461	411	223	95	23	33	13	5	9452
Guthrie	828	569	1200	381	235	57	23	2	5	5	8870
Hamilton	1357	760	1640	724	348	62	18	17	2	2	8383
Hancock	853	664	1304	395	238	77	12	10	7	2	8848
Hardin	1600	932	2326	927	297	101	50	16	9	10	8020
Harrison	1093	800	1619	535	246	58	52	15	24	0	8491
Henry	1743	887	2130	742	585	120	47	31	5	13	9639
Howard	707	590	1159	242	160	83	11	5	0	20	8227
Humboldt	853	621	1309	370	265	74	8	17	0	5	9364
Ida	602	513	1019	280	107	45	22	10	3	0	8228
Iowa	1455	584	1297	663	550	52	22	4	2	2	9183
Jackson	1659	1217	1979	875	399	112	16	13	15	2	8158
Jasper	3247	1843	3287	1316	1128	370	42	27	5	0	9945

Table 4. Income of Females Employed Full Time in Iowa Counties, 1979 (continued).

County	Total	No Income	\$1-\$4999 or less	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Jefferson	1206	965	1824	519	369	105	14	6	0	2	8873
Johnson	8971	3731	11369	2817	3573	1437	353	150	34	53	11424
Jones	1523	1033	1987	546	470	169	34	45	0	0	9878
Keokuk	919	757	1241	390	250	43	15	17	1	0	8358
Kossuth	1428	1063	2118	627	389	80	23	25	6	17	8662
Lee	3654	2347	4007	1527	1342	320	101	31	3	8	10006
Linn	17939	8135	15636	6059	7115	2704	669	203	52	84	11139
Louisa	891	766	1229	304	287	105	39	10	0	0	10254
Lucas	758	472	1119	330	226	56	11	0	6	0	9027
Lyon	769	770	1352	367	111	24	40	2	0	7	7492
Madison	935	617	1281	473	178	85	13	19	2	6	8625
Mahaska	1633	1324	2664	832	421	103	37	9	3	0	8215
Marion	2374	1356	3707	751	953	277	68	14	13	5	10755
Marshall	4092	1831	3602	1631	1297	621	155	42	10	6	10288
Mills	1260	660	1252	598	382	83	47	0	4	6	9337
Mitchell	700	552	1276	358	119	51	15	16	8	0	8690
Monona	669	589	1318	338	144	41	14	9	0	4	8039
Monroe	695	461	1010	310	230	46	23	0	0	0	9386
Montgomery	1108	478	1404	470	430	78	9	13	0	6	9901
Muscatine	3100	2187	3901	1234	1028	446	71	63	13	7	10376
O'Brien	1027	958	1716	468	235	50	18	18	9	0	8155
Osceola	705	495	730	394	101	19	10	41	13	8	7923
Page	1678	789	1910	902	459	67	25	6	0	8	8467
Palo Alto	929	470	1392	494	176	70	19	15	0	0	7803
Plymouth	1773	1300	2489	798	447	140	44	41	5	19	8668
Pocahontas	646	524	1108	241	202	39	8	22	0	0	8800
Polk	37236	12261	27812	13949	13133	5605	1748	710	182	137	10899
Pottawattamie	8531	3849	7528	3918	2626	904	321	117	22	36	9782
Poweshiek	1600	923	2430	830	446	135	29	5	0	0	8889
Ringgold	393	303	718	154	118	15	11	0	0	4	8068
Sac	880	687	1409	361	287	53	28	2	11	5	9058
Scott	14601	8443	14069	5526	4637	2358	821	285	58	33	10816
Shelby	850	721	1518	407	171	74	12	17	4	7	8456
Sioux	1643	1549	3910	855	335	79	11	35	12	7	8126
Story	6150	3047	9756	2404	2237	789	163	122	16	21	10512
Tama	1287	928	2121	560	328	161	30	10	0	0	8868
Taylor	598	502	900	251	150	16	16	24	2	0	8477
Union	1087	785	1422	589	252	84	11	14	0	0	8451
Van Buren	593	488	894	351	126	35	2	2	5	0	8260
Wapello	2901	2568	4194	1506	716	296	111	28	16	18	9166
Warren	3345	1605	3320	1458	1094	362	104	44	0	11	9856
Washington	1600	1110	1941	615	526	137	51	26	10	16	9814
Wayne	590	438	977	256	117	47	12	7	6	0	7734
Webster	3921	1904	4456	1915	1072	348	93	48	24	20	9170
Winnebago	933	505	1477	465	260	46	20	7	2	9	8978
Winneshiek	1614	1044	2899	846	266	102	185	73	7	42	9451
Woodbury	8303	4571	10467	3943	2408	917	185	73	0	7	8172
Worth	623	406	947	370	106	31	14	0	0	2	8765
Wright	1110	671	1632	563	279	89	17	21	8	2	8765
State of Iowa	250085	139634	294628	105630	77611	28306	8208	3747	897	950	9846

Table 5. Income of Males Employed Full Time in Iowa Counties, 1979.

County	Total	No Income	\$1-\$4999 or less	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Adair	1860	130	290	292	530	296	151	150	69	43	12433
Adams	1072	82	177	223	288	163	144	63	26	17	12490
Allamakee	2742	268	542	591	721	450	259	181	57	41	11733
Appanoose	2438	269	780	391	686	571	290	226	43	46	14714
Audubon	1717	80	239	351	484	292	128	160	86	51	13146
Benton	4621	400	929	419	1066	1188	722	539	149	98	16662
Black Hawk	24778	2138	7154	1458	3954	6273	5545	4392	1472	902	19938
Boone	5042	382	1118	577	1228	1105	955	559	216	127	17029
Bremer	4549	375	1317	319	926	1163	905	578	288	125	18390
Buchanan	4278	401	955	563	846	969	813	461	142	119	16925
Buena Vista	4117	261	926	458	1071	728	657	584	192	168	16882
Butler	3343	193	762	344	850	856	448	342	93	109	16031
Calhoun	2577	239	406	368	671	484	308	288	154	115	15635
Carroll	4642	301	844	732	1395	985	521	367	184	172	14663
Cass	3304	269	487	414	1062	639	388	270	193	79	14657
Cedar	3855	238	614	390	815	873	694	400	222	99	17065
Cerro Gordo	8897	518	1836	877	2254	2088	1520	1103	353	395	17431
Cherokee	3449	215	549	424	823	729	560	315	141	165	16272
Chickasaw	2933	197	592	376	732	704	391	246	133	67	15621
Clarke	1489	107	378	239	422	319	152	71	46	18	13500
Clay	3784	186	705	461	885	922	485	511	178	158	16963
Clayton	4058	330	806	710	1073	702	461	302	123	125	13524
Clinton	11098	928	2024	983	2079	2737	2279	1818	430	238	18595
Crawford	3834	286	735	558	850	755	648	451	152	90	16212
Dallas	5905	423	1111	528	1367	1272	1110	861	289	173	17958
Davis	1689	121	377	301	371	325	211	111	29	56	13622
Decatur	1435	231	639	295	439	274	93	142	57	2	13169
Delaware	3813	316	704	623	929	920	468	272	136	82	14879
Des Moines	9053	868	1842	701	1978	2293	1854	1302	333	247	18288
Dickinson	3090	100	628	440	925	696	368	230	140	129	15154
Dubuque	17356	1482	4237	1628	3026	3873	3908	2697	859	621	19255
Emmet	2515	175	621	336	522	661	483	222	84	88	17144
Fayette	4936	346	1146	819	1240	978	668	484	180	156	15028
Floyd	3296	195	747	377	808	831	514	376	91	115	16679
Franklin	2720	121	568	390	663	573	378	241	108	75	15131
Fremont	1800	143	366	393	499	339	163	139	76	42	13521
Greene	2295	137	392	351	678	488	243	228	90	40	14576
Grundy	2890	125	468	275	617	728	540	394	101	96	17902
Guthrie	2275	179	437	380	620	448	276	203	63	47	14131
Hamilton	3615	178	625	386	1093	933	414	274	173	122	15581
Hancock	2740	168	425	336	801	633	340	187	157	75	15174
Hardin	4165	252	1010	518	1122	986	642	356	133	112	15743
Harrison	2914	280	545	411	818	611	379	212	90	71	14495
Henry	3606	443	1120	456	1042	974	445	308	136	80	15734
Howard	2011	176	432	345	499	382	187	178	96	60	13990
Humboldt	2428	148	340	249	775	554	288	220	141	49	15343
Ia	1852	121	329	312	497	349	250	95	91	53	14043
Iowa	3302	149	539	391	1044	746	419	271	119	88	14963
Jackson	3992	435	930	479	964	926	570	411	153	160	16210
Jasper	7457	565	1423	687	1608	2467	1073	711	231	230	17000

Table 5. Income of Males Employed Full Time in Iowa Counties, 1979 (continued).

County	Total	No Income	\$1-\$4999 or less	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Jefferson	2889	295	889	417	763	657	326	188	108	88	14503
Johnson	13698	1626	8787	1684	2961	3157	2056	1742	773	785	17657
Jones	4065	772	1009	583	1027	911	574	362	96	116	15198
Keokuk	2341	187	484	382	837	417	195	148	74	84	13559
Kossuth	4171	325	682	435	1294	869	491	437	132	130	14910
Lee	8027	761	1965	810	1833	2016	1422	915	430	215	17453
Linn	34619	2461	7189	2138	6313	9625	7551	5367	1415	1291	19131
Louisa	2249	163	553	210	523	616	396	244	76	37	16985
Lucas	1883	200	357	301	453	453	218	142	42	60	14702
Lyon	2680	158	427	411	741	493	329	130	124	128	14217
Madison	2292	280	460	283	474	490	392	205	130	30	16031
Mahaska	4339	336	1066	658	1229	1051	587	263	180	101	15095
Marion	5653	539	1584	554	1395	1683	865	557	203	72	16661
Marshall	8567	562	1514	817	1535	2484	1859	920	356	174	18055
Mills	2381	232	771	341	598	525	428	197	77	76	16071
Mitchell	2194	150	418	306	540	378	238	186	136	117	14618
Monona	2153	180	364	343	612	380	214	137	72	83	13404
Monroe	1597	163	365	225	502	275	223	115	39	28	13864
Montgomery	2606	167	500	311	793	618	293	202	134	47	14935
Muscatine	8127	697	1433	688	1424	2338	1449	1176	408	244	18318
O'Brien	3236	172	665	511	802	718	415	321	124	135	15662
Osceola	1640	88	268	234	444	346	192	150	71	39	14768
Page	3732	296	845	619	1152	846	370	238	118	86	14212
Palo Alto	2198	144	609	331	607	448	213	208	105	82	14655
Plymouth	4811	304	937	679	1169	1000	606	474	206	175	15360
Pocahontas	2229	121	302	332	681	388	237	221	124	81	14508
Polk	59227	4421	13201	4948	11397	14805	11541	9254	3146	2450	18913
Pottawattamie	15921	1465	3448	1821	3756	4147	2641	1893	576	354	17006
Poweshiek	3613	337	1109	495	931	865	444	359	111	99	15413
Ringgold	1137	92	256	313	189	187	80	61	41	24	10262
Sac	2806	187	401	381	850	556	306	228	114	91	14303
Scott	31137	3106	6543	1877	4317	7199	6977	6584	2184	1127	20934
Shelby	2964	261	512	447	830	543	331	252	112	127	14366
Sioux	5722	308	1459	660	1596	1379	785	439	263	205	15803
Story	11554	1314	9133	1196	2479	2998	1874	1605	641	388	17884
Tama	3765	245	720	465	938	898	566	376	140	82	16011
Taylor	1514	151	293	383	365	184	123	95	72	29	11552
Union	2376	215	592	332	613	534	363	206	87	40	15393
Van Buren	1582	97	355	278	439	301	114	68	49	24	12786
Wapello	6713	837	1804	690	1307	1804	1289	859	297	198	18031
Warren	6939	587	1636	586	1273	1934	1496	984	257	132	18455
Washington	3829	335	737	610	1041	804	440	281	183	131	14661
Wayne	1499	175	311	340	448	226	98	93	44	30	11723
Webster	8528	656	1619	848	2030	2068	1456	1114	334	312	17469
Winnebago	2297	151	618	328	740	483	223	223	41	90	14368
Winneshiek	3848	305	1531	754	983	702	351	253	168	103	13175
Woodbury	18110	1555	4462	1749	4487	4756	2939	1894	823	675	17139
Worth	1689	133	315	179	516	357	245	196	65	43	15861
Wright	3173	166	553	373	811	725	485	286	141	119	16169
State of Iowa	551947	45148	133217	59581	123694	131888	93014	68350	24940	18013	17297

Table 6. Percentages of Females and Males Employed Full Time With Incomes in Selected Categories in Iowa Counties, 1979.

County	Females				Males			
	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more
Adair	95.0	3.4	1.3	0.3	61.9	24.0	8.1	6.0
Adams	89.2	8.2	1.3	1.3	61.5	28.6	5.9	4.0
Allamakee	91.3	7.8	0.2	0.7	64.0	25.9	6.6	3.6
Appanoose	94.6	4.9	0.0	0.5	51.8	35.3	9.3	3.7
Audubon	85.9	11.8	1.1	1.2	58.2	24.5	9.3	8.0
Benton	83.7	13.8	2.2	0.4	41.7	41.3	11.7	5.3
Black Hawk	76.4	21.0	2.1	0.5	25.0	47.7	17.7	9.6
Boone	88.5	9.4	1.5	0.7	41.3	40.9	11.1	6.8
Bremer	87.1	10.7	1.0	1.2	32.8	45.5	12.7	9.1
Buchanan	82.4	14.9	1.8	0.8	41.5	41.7	10.8	6.1
Buena Vista	88.8	8.7	1.6	0.9	43.4	33.6	14.2	8.7
Butler	88.8	7.9	2.0	1.2	44.7	39.0	10.2	6.0
Calhoun	88.4	10.4	0.5	0.7	47.7	30.7	11.2	10.4
Carroll	88.0	10.3	0.8	0.8	52.0	32.4	7.9	7.7
Cass	93.1	6.3	0.5	0.0	52.5	31.1	8.2	8.2
Cedar	85.8	13.0	0.5	0.7	40.6	40.6	10.4	8.3
Cerro Gordo	88.2	10.2	1.2	0.5	38.6	40.6	12.4	8.4
Cherokee	86.8	10.8	2.2	0.2	44.6	37.4	9.1	8.9
Chickasaw	90.3	9.0	0.7	0.0	47.5	37.3	8.4	6.8
Clarke	89.3	9.3	1.4	0.0	59.3	31.6	4.8	4.3
Clay	83.5	11.1	2.0	3.5	40.4	37.2	13.5	8.9
Clayton	87.9	8.6	2.6	0.9	57.8	28.7	7.4	6.1
Clinton	84.0	14.1	1.1	0.9	32.4	45.2	16.4	6.0
Crawford	85.8	13.9	0.2	0.2	45.3	36.6	11.8	6.3
Dallas	87.9	9.3	2.1	0.6	37.3	40.3	14.6	7.8
Davis	87.3	11.9	0.8	0.0	56.7	31.7	6.6	5.0
Decatur	94.3	5.7	0.0	0.0	60.4	25.6	9.9	4.1
Delaware	89.8	8.0	1.3	0.9	50.7	36.4	7.1	5.7
Des Moines	80.3	16.3	2.5	1.0	33.4	45.8	14.4	6.4
Dickinson	91.4	7.2	0.9	0.5	49.4	34.4	7.4	8.7
Dubuque	81.4	16.0	1.9	0.7	31.1	44.8	15.5	8.5
Emmet	85.3	10.8	3.2	0.7	38.8	45.5	8.8	6.8
Fayette	88.4	10.0	0.8	0.7	50.0	33.3	9.8	6.8
Floyd	88.6	9.2	1.9	0.2	41.5	40.8	11.4	6.3
Franklin	88.1	9.6	1.8	0.6	49.4	35.0	8.9	6.7
Fremont	92.0	7.2	0.5	0.3	57.8	27.9	7.7	6.6
Greene	89.7	9.9	0.3	0.0	52.5	31.9	9.9	5.7
Grundy	81.1	13.2	3.7	2.0	35.7	43.9	13.6	6.8
Guthrie	88.9	9.7	0.2	1.2	54.4	31.8	8.9	4.8
Hamilton	92.6	5.9	1.3	0.3	47.0	37.3	7.6	8.2
Hancock	87.3	10.4	1.2	1.1	49.2	35.5	6.8	8.5
Hardin	88.4	9.4	1.0	1.2	46.5	39.1	8.5	5.9
Harrison	86.4	10.1	1.4	2.2	53.2	34.0	7.3	5.5
Henry	87.6	9.6	1.8	1.0	46.1	39.4	8.5	6.0
Howard	83.2	13.3	0.7	2.8	55.1	28.3	8.9	7.8
Humboldt	87.8	9.6	2.0	0.6	48.4	34.7	9.1	7.8
Ida	86.7	11.1	1.7	0.5	54.8	32.3	5.1	7.8
Iowa	94.4	5.1	0.3	0.3	50.2	35.3	8.2	6.3
Jackson	90.5	7.7	0.8	1.0	44.4	37.5	10.3	7.8
Jasper	86.3	12.7	0.8	0.2	36.8	47.5	9.5	6.2

Table 6. Percentages of Females and Males Employed Full Time With Incomes in Selected Categories in Iowa Counties, 1979 (continued).

County	Females				Males			
	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more	Less than \$15000	\$15000-\$24999	\$25000-\$34999	\$35000 or more
Jefferson	89.5	9.9	0.5	0.2	52.7	34.0	6.5	6.8
Johnson	77.4	20.0	1.7	1.0	37.9	38.1	12.7	11.4
Jones	83.7	13.3	3.0	0.0	49.3	36.5	8.9	5.2
Keokuk	91.7	6.3	1.8	0.1	60.8	26.1	6.3	6.7
Kossuth	89.4	7.2	1.8	1.6	50.6	32.6	10.5	6.3
Lee	87.3	11.5	0.8	0.3	37.7	42.8	11.4	8.0
Linn	79.3	18.8	1.1	0.8	27.1	49.6	15.5	7.8
Louisa	82.7	16.2	1.1	0.0	39.1	45.0	10.8	5.0
Lucas	90.4	8.8	0.0	0.8	51.4	35.6	7.5	5.4
Lyon	90.5	8.3	0.3	0.9	55.1	30.7	4.9	9.4
Madison	86.6	10.5	2.0	0.9	45.6	38.5	8.9	7.0
Mahaska	90.7	8.6	0.6	0.2	49.7	37.8	6.1	6.5
Marion	84.1	14.5	0.6	0.8	40.2	45.1	9.9	4.9
Marshall	79.6	19.0	1.0	0.4	32.4	50.7	10.7	6.2
Mills	88.9	10.3	0.0	0.8	45.3	40.0	8.3	6.4
Mitchell	87.1	9.4	2.3	1.1	51.9	28.1	8.5	11.5
Monona	89.8	8.2	1.3	0.6	58.8	27.6	6.4	7.2
Monroe	90.1	9.9	0.0	0.0	57.4	31.2	7.2	4.2
Montgomery	90.4	7.9	1.2	0.5	50.3	35.0	7.8	6.9
Muscatine	80.6	16.7	2.0	0.6	30.9	46.6	14.5	8.0
O'Brien	90.7	6.6	1.8	0.9	47.1	35.0	9.9	8.0
Osceola	87.1	4.1	5.8	3.0	51.3	32.8	9.1	6.7
Page	93.7	5.5	0.4	0.5	55.6	32.6	6.4	5.5
Palo Alto	88.8	9.6	1.6	0.0	52.0	30.1	9.5	8.5
Plymouth	86.0	10.4	2.3	1.4	48.8	33.4	9.9	7.9
Pocahontas	89.3	7.3	3.4	0.0	52.8	28.0	9.9	9.2
Polk	77.5	19.7	1.9	0.9	30.4	44.5	15.6	9.4
Pottawattamie	83.6	14.4	1.4	0.7	39.6	42.6	11.9	5.8
Poweshiek	89.4	10.3	0.3	0.0	48.0	36.2	9.9	5.8
Ringgold	92.4	6.6	0.0	1.0	65.4	23.5	5.4	5.7
Sac	88.8	9.2	0.2	1.8	53.8	30.7	8.1	7.3
Scott	75.7	21.8	2.0	0.6	22.7	45.5	21.1	10.6
Shelby	86.6	10.1	2.0	1.3	53.9	29.5	8.5	8.1
Sioux	91.2	5.5	2.1	1.2	46.3	37.8	7.7	8.2
Story	81.9	15.5	2.0	0.6	35.0	42.2	13.9	8.9
Tama	84.4	14.8	0.8	0.0	45.2	38.9	10.0	5.9
Taylor	90.3	5.4	4.0	0.3	66.8	20.3	6.3	6.7
Union	90.0	8.7	1.3	0.0	48.2	37.8	8.7	5.3
Van Buren	92.6	6.2	0.3	0.8	64.9	26.2	4.3	4.6
Vapello	83.8	14.0	1.0	1.2	33.8	46.1	12.8	7.4
Warren	84.4	13.9	1.3	0.3	30.8	49.4	14.2	5.6
Washington	85.0	11.8	1.6	1.6	52.0	32.5	7.3	8.2
Wayne	87.8	10.0	1.2	1.0	67.2	21.6	6.2	4.9
Webster	86.4	11.2	1.2	1.1	38.0	41.3	13.1	7.6
Winnebago	91.0	7.1	0.8	1.2	53.9	30.7	9.7	5.7
Winneshieki	88.8	8.2	2.2	0.7	59.0	27.4	6.6	7.0
Woodbury	85.3	13.3	0.9	0.6	38.8	42.5	10.5	8.3
Worth	91.7	7.2	0.0	1.1	46.4	35.6	11.6	6.4
Wright	87.7	9.5	1.9	0.9	44.7	38.1	9.0	8.2
State of Iowa	83.2	14.6	1.5	0.7	39.1	40.7	12.4	7.8

Table 7. Income of Females Employed Other Than Full Time in Iowa Counties, 1989.

County	Total	No Income	\$1-\$4999 or Loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income
Adair	2649	445	970	649	288	133	88	57	15	4	0	5833
Adams	1528	304	579	377	135	48	49	30	4	0	2	5377
Allamakee	4145	602	1524	1070	478	189	112	127	31	12	0	5915
Appanoose	4629	829	1697	1235	439	193	65	102	41	19	9	5681
Audubon	2339	375	855	600	264	118	66	31	28	2	0	5760
Benton	6582	1121	2338	1683	665	262	234	156	75	28	20	5904
Black Hawk	40207	6714	15498	9748	3653	1974	1064	1046	339	162	9	5497
Boone	7615	1305	2630	1946	828	298	310	208	50	33	7	6051
Bremer	7363	1281	2773	1685	787	281	231	237	69	10	9	5633
Buchanan	6247	1271	2209	1475	594	267	195	170	31	27	8	5688
Buena Vista	6476	952	2613	1555	611	246	199	209	74	17	0	5374
Butler	5040	988	1922	1203	453	204	97	118	26	9	20	5342
Calhoun	3837	628	1397	888	335	193	185	123	45	33	10	5947
Carroll	6293	937	2290	1674	713	294	177	174	28	2	4	5846
Cass	4971	758	1856	1274	406	269	184	145	39	40	0	5707
Cedar	4769	670	1804	1122	490	262	160	187	67	7	0	5895
Cerro Gordo	14182	2140	4781	3864	1599	800	393	383	117	96	9	6243
Cherokee	4367	732	1488	1114	450	250	139	141	53	0	0	6125
Chickasaw	3774	749	1284	1026	304	167	82	131	22	0	9	5849
Clarke	2347	419	866	573	206	113	96	54	4	11	5	5673
Clay	5276	858	1917	1186	643	238	172	155	55	25	27	6046
Clayton	5647	1249	1945	1404	482	259	144	125	18	16	5	5691
Clinton	15643	2958	5397	3892	1747	656	475	390	107	9	12	5871
Crawford	5144	909	2070	1159	495	187	148	119	46	4	7	5164
Dallas	7883	1304	2678	1917	892	435	273	280	66	20	18	6284
Davis	2562	564	986	537	250	80	52	64	12	11	6	5096
Decatur	2718	553	1103	636	185	108	81	37	6	7	2	4921
Delaware	5073	1236	1884	909	436	217	168	134	32	37	20	5153
Des Moines	12969	2146	4116	3570	1390	732	337	393	212	55	18	6506
Dickinson	4719	630	1619	1290	502	210	158	185	71	22	32	6403
Dubuque	25630	5158	8790	5805	2822	1369	630	713	237	47	59	5975
Emmet	3825	633	1432	985	359	121	123	110	49	7	6	5698
Fayette	6940	1303	2551	1678	731	307	134	176	38	7	15	5646
Floyd	5467	862	1991	1470	499	263	131	179	31	39	2	5924
Franklin	3566	572	1425	780	331	153	157	100	33	15	0	5386
Fremont	2604	406	973	613	265	141	96	69	26	2	13	5784
Greene	3284	478	1208	755	356	166	164	107	25	18	7	6024
Grundy	3978	677	1461	965	349	199	104	164	44	7	8	5824
Guthrie	3332	569	1200	814	314	188	115	77	43	12	0	5810
Hamilton	4829	760	1640	1205	501	318	157	163	58	27	0	6333
Hancock	3822	664	1304	1024	375	178	82	126	42	18	9	6056
Hardin	6228	932	2326	1550	605	272	222	214	61	33	13	5804
Harrison	4488	800	1619	1193	436	149	118	88	53	17	15	5726
Henry	5659	887	2130	1285	700	275	191	141	33	10	7	5772
Howard	3097	590	1159	756	333	108	52	60	19	12	8	5504
Humboldt	3533	621	1309	774	403	152	119	73	67	4	11	5726
Ida	2664	513	1019	648	167	127	88	72	17	11	2	5332
Iowa	4094	584	1297	1068	517	274	141	138	57	10	8	6745
Jackson	5729	1217	1979	1479	415	291	139	131	33	13	32	5851
Jasper	10072	1843	3287	2414	1135	553	386	301	130	23	0	6351

Table 7. Income of Females Employed Other Than Full Time in Iowa Counties, 1989 (continued).

County	No Total	\$1-\$4999 Income or Loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income	
Jefferson	5312	965	1824	1241	694	271	157	104	42	6	8	6133
Johnson	27539	3731	11369	5916	2902	1288	741	946	408	144	94	5352
Jones	5403	1033	1987	1169	550	266	151	204	32	5	6	5616
Keokuk	3634	757	1241	789	354	224	125	95	33	10	6	5959
Kossuth	5881	1063	2118	1395	542	353	215	117	43	27	8	5769
Lee	11904	2347	4007	3025	1203	671	277	246	92	30	6	6015
Linn	46499	8135	15636	11253	4955	2567	1468	1647	512	187	139	6345
Louisa	3411	766	1229	789	244	153	79	109	24	14	4	5454
Lucas	2955	472	1119	764	303	130	83	63	10	5	6	5704
Lyon	3683	770	1352	747	372	181	131	81	30	8	11	5512
Madison	3635	617	1281	916	341	207	102	144	19	6	2	6009
Mahaska	6916	1324	2664	1570	619	291	190	187	41	30	0	5306
Marion	9078	1356	3707	2171	832	484	258	195	43	24	8	5291
Marshall	11333	1831	3602	3086	1248	618	325	400	151	49	23	6491
Mills	3463	660	1252	848	321	144	88	96	37	13	4	5688
Mitchell	3496	552	1276	901	350	202	97	97	17	2	2	5916
Monona	3425	589	1318	804	366	111	124	86	19	2	6	5450
Monroe	2689	461	1010	718	255	120	69	25	21	5	5	5518
Montgomery	3672	478	1404	894	439	206	113	82	35	15	6	5811
Muscatine	11593	2187	3901	2960	1190	514	336	314	112	64	15	5988
O'Brien	5000	958	1716	1257	496	233	158	107	59	16	0	5877
Osceola	2248	495	730	570	172	95	98	63	5	17	3	6110
Page	5390	789	1910	1444	470	271	212	216	36	34	8	6044
Palo Alto	3555	470	1392	819	380	216	85	111	52	23	7	5773
Plymouth	6845	1300	2489	1503	707	322	217	215	63	28	1	5677
Pocahontas	3034	524	1108	712	288	131	130	93	38	6	4	5777
Polk	85229	12261	27812	20587	10542	5548	3301	3262	1270	431	215	6664
Pottawattamie	22611	3849	7528	6025	2499	1113	736	537	230	79	15	6175
Poweshiek	5797	923	2430	1199	579	343	154	111	45	4	9	5023
Ringgold	1874	303	718	462	214	96	49	21	9	2	0	5576
Sac	4015	687	1409	973	373	218	178	128	37	4	8	5981
Scott	42426	8443	14069	9870	4613	2168	1145	1407	446	187	78	6174
Shelby	4080	721	1518	1029	295	169	127	159	34	28	0	5630
Sioux	9363	1549	3910	2155	865	302	192	261	83	40	6	4996
Story	22080	3047	9756	4444	2125	1015	568	594	331	165	35	4870
Tama	5472	928	2121	1210	522	290	186	148	44	15	8	5501
Taylor	2406	502	900	559	222	119	53	41	7	3	0	5379
Union	4119	785	1422	890	445	260	159	113	31	6	8	6151
Van Buren	2488	488	894	600	199	142	89	42	8	15	11	5751
Wapello	12097	2568	4194	3100	1125	502	202	254	84	55	13	5731
Warren	9154	1605	3320	2169	948	454	250	285	79	28	16	5823
Washington	5698	1110	1941	1267	614	312	188	182	65	4	15	6090
Wayne	2373	438	977	571	202	83	59	35	2	6	0	4957
Webster	12741	1904	4456	3418	1289	654	421	357	168	47	27	6060
Winnebago	3732	505	1477	902	403	224	99	87	13	15	7	5649
Winneshiek	6561	1044	2899	1386	572	271	108	172	98	11	0	4747
Woodbury	28669	4571	10467	7386	2855	1264	821	800	323	128	54	5843
Worth	2526	406	947	617	242	125	85	68	26	8	2	5736
Wright	4699	671	1632	1297	499	207	159	130	66	31	7	6128
State of Iowa	821638	139634	294628	198899	85168	41435	24841	24150	8352	3132	1399	5918

Table 8. Income of Males Employed Other Than Full Time in Iowa Counties, 1989.

County	Total	No Income	\$1-\$4999 or Loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income
Adair	1417	130	290	350	228	162	99	101	36	7	14	10059
Adams	818	82	177	186	128	75	72	71	15	12	0	10164
Allamakee	2561	268	542	592	399	246	178	165	116	29	26	10144
Appanoose	3025	269	780	753	499	260	186	162	80	27	9	8902
Audubon	1282	80	239	299	256	136	55	117	52	38	10	10865
Benton	3961	400	929	843	568	363	287	297	129	80	65	10061
Black Hawk	24696	2138	7154	4840	3198	2407	1502	1638	1125	493	201	9113
Boone	4784	382	1118	1075	647	480	328	359	252	78	65	10051
Bremer	4187	375	1317	729	597	372	249	296	197	42	13	8997
Buchanan	3832	401	955	864	539	385	199	260	160	40	29	9095
Buena Vista	3563	261	926	623	459	396	299	319	138	77	65	10901
Butler	3058	193	762	581	451	357	204	272	140	66	32	10925
Calhoun	2263	239	406	459	385	251	180	162	103	41	37	11525
Carroll	3459	301	844	703	426	333	292	229	187	105	39	10319
Cass	2599	269	487	568	340	346	187	202	158	28	14	11303
Cedar	2875	238	614	521	446	310	230	345	118	43	10	11705
Cerro Gordo	8322	518	1836	1833	1315	944	614	699	333	123	107	10803
Cherokee	2644	215	549	608	407	293	200	211	106	41	14	10773
Chickasaw	2323	197	592	415	368	304	180	157	85	16	9	10664
Clarke	1538	107	378	301	274	185	130	105	34	12	12	10475
Clay	2926	186	705	714	469	261	184	224	124	34	25	9506
Clayton	3498	330	806	777	510	353	258	266	112	60	26	10008
Clinton	9136	928	2024	1705	1544	1115	641	631	390	101	57	11107
Crawford	3138	286	735	790	426	299	218	213	105	41	25	9301
Dallas	4806	423	1111	897	778	539	387	351	167	104	49	11026
Davis	1529	121	377	384	253	125	106	110	35	12	6	8960
Decatur	1891	231	639	447	229	119	81	86	40	8	11	6675
Delaware	3123	316	704	465	494	331	312	300	112	39	50	12029
Des Moines	7908	868	1842	1384	1306	836	535	605	366	72	94	11000
Dickinson	2889	100	628	613	439	276	251	279	137	104	62	11395
Dubuque	15607	1482	4237	2962	2085	1599	968	1279	631	167	197	9725
Emmet	2297	175	621	437	315	251	153	171	116	33	25	10049
Fayette	4127	346	1146	875	565	435	202	325	147	31	55	9229
Floyd	3138	195	747	714	440	378	193	249	127	70	25	10109
Franklin	2083	121	568	426	293	211	138	176	101	32	17	9822
Fremont	1555	143	366	358	261	164	102	105	41	6	9	9688
Greene	1875	137	392	404	291	211	156	164	75	27	18	11225
Grundy	2071	125	468	375	276	235	180	204	155	34	19	12152
Guthrie	2071	179	437	436	334	211	180	209	51	27	7	10895
Hamilton	2858	178	625	632	506	240	235	230	115	60	37	10820
Hancock	2084	168	425	403	345	268	143	200	71	37	24	11693
Hardin	3739	252	1010	709	476	382	306	375	124	76	29	10251
Harrison	2545	280	545	676	393	250	137	176	58	23	7	9336
Henry	3939	443	1120	943	443	353	227	226	117	20	47	8335
Howard	1733	176	432	340	283	185	137	119	38	18	5	10126
Humboldt	1999	148	340	401	293	270	149	210	116	46	26	12365
Ide	1338	121	329	269	203	126	76	98	58	35	23	10217
Iowa	2343	149	539	552	326	322	182	171	56	31	15	10069
Jackson	3584	435	930	810	486	311	191	234	120	51	16	8939
Jasper	6125	565	1423	1062	962	686	462	537	303	92	33	11301

Table B. Income of Males Employed Other Than Full Time in Iowa Counties, 1989 (continued).

County	No Total	\$1-\$4999 Income	\$5000- or Loss \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000- \$74999	\$75000 or more	Median Income	
Jefferson	3317	295	889	631	477	361	186	227	187	19	45	9907
Johnson	22434	1626	8787	4719	2778	1462	919	837	592	300	414	6317
Jones	4095	772	1009	840	552	311	198	258	113	31	11	8502
Keokuk	2172	187	484	508	305	221	180	174	62	40	11	10009
Kossuth	3288	325	682	596	463	417	257	302	152	60	34	11760
Lee	7551	761	1965	1492	1151	732	481	559	234	126	50	9750
Linn	27772	2461	7189	5088	3702	2721	2199	2485	1254	394	279	10428
Louisa	2071	163	553	439	303	245	144	139	73	12	0	9527
Lucas	1730	200	357	358	274	212	113	141	32	11	32	10817
Lyon	1905	158	427	349	373	201	146	167	55	21	8	11231
Madison	2276	280	460	382	404	239	176	193	91	31	20	11554
Mahaska	3958	336	1066	923	545	433	246	242	83	48	36	8838
Marion	5651	539	1584	1028	881	556	419	342	193	50	59	9654
Marshall	6821	562	1514	1466	1092	847	440	444	276	118	62	10560
Mills	2620	232	771	569	382	236	140	185	72	17	16	8413
Mitchell	1997	150	418	420	300	234	167	188	87	28	5	11344
Monona	2033	180	364	494	330	244	183	98	63	38	39	10911
Monroe	1652	163	365	356	296	177	146	53	41	39	16	10397
Montgomery	2016	167	500	399	271	234	158	178	57	39	13	10414
Muscatine	6448	697	1433	1245	918	680	485	602	262	106	20	10913
O'Brien	2689	172	665	500	410	321	185	243	110	64	19	11034
Osceola	1266	88	268	295	161	83	145	113	78	11	24	10844
Page	3273	296	845	888	446	206	221	211	108	46	6	8197
Palo Alto	2190	144	609	464	310	177	136	162	99	43	46	9349
Plymouth	3814	304	937	821	551	354	307	300	174	24	42	9976
Pocahontas	1711	121	302	423	212	227	151	125	76	46	28	11259
Polk	52781	4421	13201	10265	7597	5362	3638	4245	2322	935	795	10401
Pottawattamie	14217	1465	3448	2876	2064	1647	1048	1032	441	122	74	10122
Poweshiek	3727	337	1109	611	435	386	322	292	128	49	58	9803
Ringgold	1071	92	256	249	182	94	97	72	11	17	1	9539
Sac	2250	187	401	497	393	274	170	176	96	34	22	11517
Scott	26015	3106	6543	4633	3334	2681	1642	2040	1301	485	250	10393
Shelby	2366	261	512	459	398	242	219	155	66	33	21	10906
Sioux	4674	308	1459	994	584	427	284	346	134	91	47	8171
Story	19850	1314	9133	3847	1976	1058	646	778	665	263	170	5133
Tama	3225	245	720	673	526	338	253	258	146	35	31	10785
Taylor	1373	151	293	311	216	137	105	91	48	18	3	10130
Union	2390	215	592	650	340	218	129	175	35	21	15	8564
Van Buren	1436	97	355	364	221	132	83	123	34	21	6	9293
Wapello	7413	837	1804	1561	1140	687	498	508	275	86	17	9714
Warren	5749	587	1636	1019	666	562	412	505	225	78	59	9505
Washington	3132	335	737	626	514	359	203	183	100	57	18	10293
Wayne	1513	175	311	399	210	126	86	108	66	27	5	9397
Webster	7588	656	1619	1755	1294	857	436	536	269	111	55	10285
Winnebago	2262	151	618	444	354	213	137	198	81	50	16	9913
Winneshiek	4113	305	1531	701	489	409	207	254	145	46	26	7269
Woodbury	17407	1555	4462	3829	2614	1855	994	1002	580	273	243	9471
Worth	1584	133	315	271	312	206	91	143	55	26	32	12564
Wright	2683	166	553	539	380	360	205	272	108	71	29	11756
State of Iowa	506731	45148	133217	102369	72080	50708	33594	37150	19727	7600	5138	9726

Table 9. Percentages of Females and Males Employed Other Than Full Time With Incomes in Selected Categories in Iowa counties, 1989.

County	Females				Males			
	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more
Adair	53.4	24.5	15.9	6.2	29.6	24.7	27.5	18.1
Adams	57.8	24.7	12.0	5.6	31.7	22.7	24.8	20.8
Allamakee	51.3	25.8	16.1	6.8	31.6	23.1	25.2	20.1
Appanoose	54.6	26.7	13.7	5.1	34.7	24.9	25.1	15.3
Audubon	52.6	25.7	16.3	5.4	24.9	23.3	30.6	21.2
Benton	52.6	25.6	14.1	7.8	33.6	21.3	23.5	21.7
Black Hawk	55.2	24.2	14.0	6.5	37.6	19.6	22.7	20.1
Boone	51.7	25.6	14.8	8.0	31.4	22.5	23.6	22.6
Bremer	55.1	22.9	14.5	7.6	40.4	17.4	23.1	19.0
Buchanan	55.7	23.6	13.8	6.9	35.4	22.5	24.1	18.0
Buena Vista	55.0	24.0	13.2	7.7	33.3	17.5	24.0	25.2
Butler	57.7	23.9	13.0	5.4	31.2	19.0	26.4	23.3
Calhoun	52.8	23.1	13.8	10.3	28.5	20.3	28.1	23.1
Carroll	51.3	26.6	16.0	6.1	33.1	20.3	21.9	24.6
Cass	52.6	25.6	13.6	8.2	29.1	21.9	26.4	22.7
Cedar	51.9	23.5	15.8	8.8	29.6	18.1	26.3	25.9
Cerro Gordo	48.8	27.2	16.9	7.0	28.3	22.0	27.1	22.5
Cherokee	50.8	25.5	16.0	7.6	28.9	23.0	26.5	21.6
Chickasaw	53.9	27.2	12.5	6.5	34.0	17.9	28.9	19.2
Clarke	54.8	24.4	13.6	7.2	31.5	19.6	29.8	19.1
Clay	52.6	22.5	16.7	8.2	30.5	24.4	24.9	20.2
Clayton	56.6	24.9	13.1	5.5	32.5	22.2	24.7	20.6
Clinton	53.4	24.9	15.4	6.3	32.3	18.7	29.1	19.9
Crawford	57.9	22.5	13.3	6.3	32.5	25.2	23.1	19.2
Dallas	50.5	24.3	16.8	8.3	31.9	18.7	27.4	22.0
Davis	60.5	21.0	12.9	5.7	32.6	25.1	24.7	17.6
Decatur	60.9	23.4	10.8	4.9	46.0	23.6	18.4	12.0
Delaware	61.5	17.9	12.9	7.7	32.7	14.9	26.4	26.0
Des Moines	48.3	27.5	16.4	7.8	34.3	17.5	27.1	21.1
Dickinson	47.7	27.3	15.1	9.9	25.2	21.2	24.7	28.8
Dubuque	54.4	22.6	16.4	6.6	36.6	19.0	23.6	20.8
Emmet	54.0	25.8	12.5	7.7	34.7	19.0	24.6	21.7
Fayette	55.5	24.2	15.0	5.3	36.2	21.2	24.2	18.4
Floyd	52.2	26.9	13.9	7.0	30.0	22.8	26.1	21.2
Franklin	56.0	21.9	13.6	8.6	33.1	20.5	24.2	22.3
Fremont	53.0	23.5	15.6	7.9	32.7	23.0	27.3	16.9
Greene	51.3	23.0	15.9	9.8	28.2	21.5	26.8	23.5
Grundy	53.7	24.3	13.8	8.2	28.6	18.1	24.7	28.6
Guthrie	53.1	24.4	15.1	7.4	29.7	21.1	26.3	22.9
Hamilton	49.7	25.0	17.0	8.4	28.1	22.1	26.1	23.7
Hancock	51.5	26.8	14.5	7.2	28.5	19.3	29.4	22.8
Hardin	52.3	24.9	14.1	8.7	33.8	19.0	22.9	24.3
Harrison	53.9	26.6	13.0	6.5	32.4	26.6	25.3	15.8
Henry	53.3	22.7	17.2	6.8	39.7	23.9	20.2	16.2
Howard	56.5	24.4	14.2	4.9	35.1	19.6	27.0	18.3
Humboldt	54.6	21.9	15.7	7.8	24.4	20.1	28.2	27.4
Ida	57.5	24.3	11.0	7.1	33.6	20.1	24.6	21.7
Iowa	45.9	26.1	19.3	8.6	29.4	23.6	27.7	19.4
Jackson	55.8	25.8	12.3	6.1	38.1	22.6	22.2	17.1
Jasper	50.9	24.0	16.8	8.3	32.5	17.3	26.9	23.3

Table 9. Percentages of Females and Males Employed Other Than Full Time With Incomes in Selected Categories in Iowa Counties, 1989 (continued).

County	Females				Males			
	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more
Jefferson	52.5	23.4	18.2	6.0	35.7	19.0	25.3	20.0
Johnson	54.8	21.5	15.2	8.5	46.4	21.0	18.9	13.6
Jones	55.9	21.6	15.1	7.4	43.5	20.5	21.1	14.9
Keokuk	55.0	21.7	15.9	7.4	30.9	23.4	24.2	21.5
Kossuth	54.1	23.7	15.2	7.0	30.6	18.1	26.8	24.5
Lee	53.4	25.4	15.7	5.5	36.1	19.8	24.9	19.2
Linn	51.1	24.2	16.2	8.5	34.7	18.3	23.1	23.8
Louisa	58.5	23.1	11.6	6.7	34.6	21.2	26.5	17.8
Lucas	53.8	25.9	14.7	5.7	32.2	20.7	28.1	19.0
Lyon	57.6	20.3	15.0	7.1	30.7	18.3	30.1	20.8
Madison	52.2	25.2	15.1	7.5	32.5	16.8	28.3	22.5
Mahaska	57.7	22.7	13.2	6.5	35.4	23.3	24.7	16.5
Marion	55.8	23.9	14.5	5.8	37.6	18.2	25.4	18.8
Marshall	47.9	27.2	16.5	8.4	30.4	21.5	28.4	19.6
Mills	55.2	24.5	13.4	6.9	38.3	21.7	23.6	16.4
Mitchell	52.3	25.8	15.8	6.1	28.4	21.0	26.7	23.8
Monona	55.7	23.5	13.9	6.9	26.8	24.3	28.2	20.7
Monroe	54.7	26.7	13.9	4.6	32.0	21.5	28.6	17.9
Montgomery	51.3	24.3	17.6	6.8	33.1	19.8	25.0	22.1
Muscatine	52.5	25.5	14.7	7.3	33.0	19.3	24.8	22.9
O'Brien	53.5	25.1	14.6	6.8	31.1	18.6	27.2	23.1
Osceola	54.5	25.4	11.9	8.3	28.1	23.3	19.3	29.3
Page	50.1	26.8	13.7	9.4	34.9	27.1	19.9	18.1
Palo Alto	52.4	23.0	16.8	7.8	34.4	21.2	22.2	22.2
Plymouth	55.4	22.0	15.0	7.7	32.5	21.5	23.7	22.2
Pocahontas	53.8	23.5	13.8	8.9	24.7	24.7	25.7	24.9
Polk	47.0	24.2	18.9	9.9	33.4	19.4	24.6	22.6
Pottawattamie	50.3	26.6	16.0	7.1	34.6	20.2	26.1	19.1
Poweshiek	57.8	20.7	15.9	5.6	38.8	16.4	22.0	22.8
Ringgold	54.5	24.7	16.5	4.3	32.5	23.2	25.8	18.5
Sac	52.2	24.2	14.7	8.8	26.1	22.1	29.6	22.1
Scott	53.1	23.3	16.0	7.7	37.1	17.8	23.1	22.0
Shelby	54.9	25.2	11.4	8.5	32.7	19.4	27.0	20.9
Sioux	54.9	25.2	11.4	8.5	37.8	21.3	21.6	19.3
Sioux	58.3	23.0	12.5	6.2	52.6	19.4	15.3	12.7
Story	58.0	20.1	14.2	7.7	29.9	20.9	26.8	22.4
Tama	55.7	22.1	14.8	7.3	32.3	22.7	25.7	19.3
Taylor	58.3	23.2	14.2	4.3	33.8	27.2	23.3	15.7
Union	53.6	21.6	17.1	7.7	31.5	25.3	24.6	18.6
Van Buren	55.5	24.1	13.7	6.6	35.6	21.1	24.6	18.7
Wapello	55.9	25.6	13.4	5.0	38.7	17.7	21.4	22.2
Warren	53.8	23.7	15.3	7.2	34.2	20.0	27.9	17.9
Washington	53.5	22.2	16.3	8.0	32.1	26.4	22.2	19.3
Wayne	59.6	24.1	12.0	4.3	30.0	23.1	28.3	18.5
Webster	49.9	26.8	15.2	8.0	34.0	19.6	25.1	21.3
Winnebago	53.1	24.2	16.8	5.9	44.6	17.0	21.8	16.5
Winneshiek	60.1	21.1	12.8	5.9	34.6	22.0	25.7	17.8
Woodbury	52.5	25.8	14.4	7.4	28.3	17.1	32.7	21.9
Worth	53.6	24.4	14.5	7.5	26.8	20.1	27.6	25.5
Wright	49.0	27.6	15.0	8.4				
State of Iowa	52.9	24.2	15.4	7.5	35.2	20.2	24.2	20.4

Table 10. Income of Females Employed Other Than Full Time in Iowa Counties, 1979.

County	Total	No Income	\$1-\$4999 or less	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Adair	3130	864	1557	484	127	55	18	13	10	2	3135
Adams	1788	519	892	230	101	20	12	14	0	0	3085
Allamakee	4693	1212	2456	774	181	46	19	3	2	0	3101
Appanoose	5560	1502	2838	875	267	61	5	4	2	6	3449
Audubon	2939	869	1480	416	102	35	8	12	4	13	2931
Benton	7503	2194	3405	1291	380	107	81	14	20	11	3616
Black Hawk	44427	11127	22676	6778	2161	1028	376	166	78	37	3277
Boone	8848	1950	4634	1531	455	150	52	49	27	0	3329
Bremer	8184	2515	3965	1053	390	178	31	22	23	7	3033
Buchanan	7041	2505	3055	1024	311	81	21	39	4	1	3405
Buena Vista	7164	1940	3553	1041	272	177	81	63	27	10	3200
Butler	5886	1897	2815	743	253	122	28	13	2	13	2980
Calhoun	4907	1407	2294	693	294	93	44	61	16	5	3294
Carroll	7173	2065	3469	972	434	109	41	65	12	6	3177
Casa	5721	1484	2994	728	323	93	26	37	31	5	3202
Cedar	5819	1816	2679	889	293	104	19	10	9	0	3426
Cerro Gordo	16134	3892	8265	2642	799	337	115	47	11	26	3398
Cherokee	5302	1547	2546	776	267	114	29	9	9	5	3285
Chickasaw	4775	1606	2188	677	221	54	7	17	2	3	3193
Clarke	2757	874	1223	464	122	21	26	14	0	13	3537
Clay	6384	1672	3037	1031	342	173	29	45	14	41	3493
Clayton	6616	2062	3208	917	305	63	32	7	18	4	2931
Clinton	18096	5212	8544	2795	951	377	124	70	17	6	3548
Crawford	6067	1813	3056	676	353	118	26	4	12	9	2897
Dallas	8837	2249	4177	1556	484	241	49	39	34	8	3724
Davis	2956	1092	1273	358	162	46	19	6	0	0	3225
Decatur	3450	836	1902	509	163	35	2	2	1	0	2878
Delaware	5803	1981	2725	714	193	111	54	13	9	3	3134
Des Moines	14615	3946	7128	2259	773	348	91	35	16	19	3612
Dickinson	5110	1242	2568	786	258	143	35	50	13	15	3342
Dubuque	29297	8699	13905	4751	1199	454	153	92	13	31	3448
Emmet	4479	1261	2310	559	200	82	35	16	0	16	3066
Fayette	8410	2519	4138	1155	327	186	27	30	17	11	3068
Floyd	6624	1911	3208	976	289	157	25	45	5	8	3260
Franklin	4476	1378	2113	632	194	79	32	36	7	5	3155
Fremont	3119	835	1537	443	199	54	19	12	16	4	3270
Greene	4110	1064	2038	591	208	111	38	39	15	6	3372
Grundy	4861	1443	2302	720	163	104	50	51	18	10	3088
Guthrie	4119	1196	2045	546	199	79	29	12	3	10	3028
Hamilton	5874	1523	2701	1004	326	112	74	72	41	21	3676
Hancock	4519	1269	2108	711	286	76	31	25	4	9	3485
Hardin	7365	1730	3809	1177	389	150	47	34	20	9	3269
Harrison	5485	1727	2734	712	200	50	29	14	9	10	2929
Henry	6002	1393	2995	1110	320	90	48	15	18	13	3465
Howard	3697	1292	1672	400	175	69	30	30	14	15	2926
Humboldt	4081	1217	1891	601	219	59	40	32	22	0	3473
Ida	2973	982	1339	392	158	60	9	19	14	0	3092
Iowa	4828	1055	2496	880	255	72	47	12	4	7	3401
Jackson	6903	2096	3250	1014	357	87	75	19	3	2	3160
Jasper	11377	3096	5526	1746	639	227	95	41	7	0	3443

Table 10. Income of Females Employed Other Than Full Time in Iowa Counties, 1979 (continued).

County	Total	No Income	\$1-\$4999 or loss	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Jefferson	5473	1211	3001	812	250	115	48	24	6	6	3385
Johnson	25382	3908	14028	4930	1609	552	158	124	44	29	3377
Jones	6095	1828	2842	943	290	141	40	11	0	0	3424
Keokuk	4334	1349	2091	576	190	90	17	8	2	11	3227
Kossuth	7060	2228	3197	1038	371	105	74	26	21	0	3118
Lee	13546	3798	6441	2266	654	255	67	30	2	33	3514
Linn	50121	12259	24243	8981	2806	1089	418	171	59	95	3695
Louisa	3733	1229	1673	494	195	83	26	19	14	0	3259
Lucas	3547	998	1847	505	119	67	11	0	0	0	2979
Lyon	4162	1416	1892	586	119	77	46	10	11	5	3138
Madison	4047	1125	1917	686	177	86	22	32	0	2	3487
Mahaska	7740	2152	4001	1007	379	118	32	27	0	24	3129
Marion	9384	2540	4628	1499	437	184	64	23	5	4	3139
Marshall	12716	3157	6286	2129	734	250	61	60	16	23	3565
Mills	3926	1050	1940	640	174	72	32	12	6	0	3463
Mitchell	4283	1210	2116	551	216	92	46	20	11	21	3255
Monona	4133	1388	1943	507	168	67	17	20	21	2	3149
Monroe	3084	779	1569	577	99	46	8	6	0	0	3181
Montgomery	4529	1126	2262	789	225	72	8	29	12	6	3493
Muscatine	12601	3246	6192	2056	643	302	46	67	16	33	3544
O'Brien	5921	1781	2892	819	235	103	37	26	5	23	3139
Osceola	2631	864	1289	277	137	11	22	31	0	0	2947
Page	6348	1590	3196	899	434	144	38	30	13	4	3377
Palo Alto	4125	1223	2018	501	195	104	31	24	22	7	3015
Plymouth	7876	2524	3774	1010	332	139	32	41	11	13	3002
Pocahontas	3976	1110	1983	504	177	85	49	38	15	15	2928
Polk	88529	18806	43223	17585	5225	2085	736	493	197	179	3842
Pottawattamie	26086	7615	12116	4389	1183	542	104	79	44	14	3619
Poweshiek	6372	1524	3332	1010	316	115	50	13	9	3	3089
Ringgold	2207	541	1254	301	75	16	12	8	0	0	2699
Sac	4884	1373	2336	677	304	92	51	34	9	8	3201
Scott	46932	13028	21517	7933	2738	1083	329	182	84	38	3693
Shelby	5015	1604	2311	653	265	109	19	44	8	2	3082
Sioux	10395	3184	5187	1302	397	171	70	48	25	11	2768
Story	22947	3767	13726	3542	1090	415	203	106	67	31	2790
Tama	6506	1861	3295	770	388	109	55	24	4	0	2960
Taylor	2923	882	1425	389	151	33	25	14	2	2	3147
Union	4683	1215	2401	709	190	85	48	11	12	12	3246
Van Buren	2851	1011	1285	393	109	33	9	8	0	3	3358
Wapello	13976	4071	7031	2097	479	211	52	30	5	0	3339
Warren	9921	2872	4860	1484	414	190	39	21	18	6	3580
Washington	6578	1685	3157	1184	315	153	39	6	0	0	2771
Wayne	2891	858	1523	355	116	24	9	65	50	21	3405
Webster	15192	3620	7880	2193	902	328	133	20	6	5	3540
Winnebago	4360	1081	2097	747	274	112	18	20	0	2	2627
Winneshiek	7200	1740	4093	965	254	82	44	126	49	59	3538
Woodbury	32913	8538	16391	5396	1547	632	175	22	14	7	3737
Worth	3077	791	1413	565	191	54	20	31	8	9	3235
Wright	5641	1662	2751	776	245	113	46	6	8	9	3235
State of Iowa	923136	243994	454584	146799	46572	18234	6181	3937	1607	1228	3398

Table 11. Income of Males Employed Other Than Full Time in Iowa Counties, 1979.

County	Total	No Income	\$1-\$4999 or less	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Adair	1775	154	662	416	277	147	48	39	15	17	6226
Adams	1167	161	424	303	123	89	38	11	8	10	6149
Allamakee	2857	306	1037	812	347	207	72	46	16	14	6128
Appanoose	3208	299	1266	916	391	169	99	55	11	2	5782
Audubon	1470	133	516	373	227	132	36	31	2	20	6689
Benton	4105	493	1380	804	585	397	202	125	85	34	7079
Black Hawk	25798	2513	9300	5767	3016	2151	1645	891	268	247	6707
Boone	4794	413	1842	1120	612	359	224	147	66	11	6330
Bremer	4634	461	1741	896	555	377	294	202	67	41	6603
Buchanan	3921	589	1266	894	482	274	233	111	36	36	6776
Buena Vista	3753	321	1597	703	496	259	166	82	89	40	5580
Butler	3219	339	1073	790	437	240	157	115	43	25	7299
Calhoun	2416	269	906	522	317	179	102	76	14	31	6355
Carroll	3522	452	1315	762	405	234	140	115	46	53	6340
Cass	3017	282	1129	713	446	164	136	99	15	33	6330
Cedar	3119	303	1154	620	443	266	157	74	62	40	6465
Cerro Gordo	8897	686	3250	2120	1245	777	387	243	105	84	6579
Cherokee	2658	245	1030	544	366	175	117	106	39	36	6278
Chickasaw	2739	393	964	572	339	233	129	75	23	11	6239
Clarke	1711	226	636	403	231	85	55	30	34	11	6201
Clay	3310	280	1241	718	505	224	124	139	62	17	6657
Clayton	3902	428	1509	993	482	270	112	79	16	13	6016
Clinton	9641	1153	3057	2172	1356	980	572	250	65	36	7479
Crawford	3193	377	1278	632	380	259	103	101	37	26	5722
Dallas	4767	478	1655	1104	673	370	223	135	81	48	6865
Davis	1728	282	553	412	251	107	70	33	7	13	6873
Decatur	2300	127	1244	532	185	117	51	27	15	2	3976
Delaware	2933	547	871	676	363	195	126	90	24	41	6975
Des Moines	7634	822	2741	1807	984	704	326	163	60	27	6423
Dickinson	2759	205	862	779	383	272	121	49	62	26	7309
Dubuque	15880	2480	5760	3312	1828	1055	797	413	110	125	6077
Emmet	2352	237	861	511	340	121	124	99	26	33	7054
Fayette	4580	539	1756	1072	567	328	155	93	35	35	5848
Floyd	3797	360	1180	895	478	455	274	99	24	32	7915
Franklin	2187	158	751	505	363	217	64	80	25	24	7350
Fremont	1680	158	628	479	169	106	57	63	12	8	6102
Greene	2169	188	732	519	331	160	61	93	37	48	6954
Grundy	2454	233	750	514	368	269	103	104	77	36	8105
Guthrie	2203	284	809	503	291	149	66	54	38	9	6070
Hamilton	3122	383	1073	775	366	249	111	121	31	13	6296
Hancock	2432	234	788	595	359	181	116	81	52	26	7579
Hardin	4139	557	1535	839	500	308	165	100	41	94	6221
Harrison	3055	359	1173	628	408	236	104	98	19	30	6059
Henry	3431	318	1485	819	484	152	84	58	25	6	5436
Howard	2191	257	758	524	259	172	98	69	25	29	6652
Humboldt	2227	145	770	494	367	155	129	73	80	14	7455
Ida	1524	209	555	316	209	110	35	47	18	25	6282
Iowa	2515	304	936	515	387	184	84	45	35	25	6335
Jackson	4176	633	1376	979	487	279	296	79	29	18	6757
Jasper	6069	648	2012	1609	865	453	238	135	73	36	6944

Table 11. Income of Males Employed Other Than Full Time in Iowa Counties, 1979 (continued).

County	Total	No Income	\$1-\$4999 or less	\$5000- \$9999	\$10000- \$14999	\$15000- \$19999	\$20000- \$24999	\$25000- \$34999	\$35000- \$49999	\$50000 or more	Median Income
Jefferson	3452	284	1605	852	389	129	73	62	51	7	4933
Johnson	18872	1344	9702	4078	1604	863	537	355	208	181	4349
Jones	3960	694	1545	819	348	278	167	78	21	10	5425
Keokuk	2567	338	891	603	318	174	82	95	48	18	6594
Kossuth	3979	367	1520	824	554	249	209	133	74	49	6455
Lee	8197	1442	2550	1871	1091	628	305	191	63	56	6861
Linn	27308	2959	9751	5834	3860	2367	1241	860	186	250	6810
Louisa	2191	221	785	541	276	173	106	46	23	20	6538
Lucas	1917	136	735	562	206	191	39	29	1	18	6074
Lyon	2021	350	696	377	299	155	50	51	43	0	6522
Madison	2368	190	888	589	274	206	121	82	15	3	6487
Mahaska	4213	409	1691	1021	503	307	108	135	6	33	5725
Marion	5568	647	2215	1232	786	394	140	68	55	31	5899
Marshall	6835	696	2488	1814	777	518	268	146	82	46	6368
Mills	2585	254	1228	510	255	152	111	24	13	38	4578
Mitchell	2404	263	868	524	299	201	117	50	56	26	6974
Monona	2329	175	861	549	392	162	87	68	18	17	6354
Monroe	1865	178	608	550	267	129	91	27	15	0	7041
Montgomery	2326	135	834	593	392	141	105	79	47	0	6970
Muscatine	6453	645	2513	1466	764	485	315	156	53	56	6190
O'Brien	3103	329	1164	736	353	197	142	71	80	31	6314
Osceola	1465	51	547	377	202	123	59	59	29	18	6583
Page	3288	346	1356	757	435	192	110	40	44	8	5556
Palo Alto	2617	238	1085	518	310	183	123	95	44	21	6015
Plymouth	4323	574	1542	939	522	297	185	112	54	98	6633
Pocahontas	2073	241	778	390	286	153	99	54	42	30	6447
Polk	50472	4785	18563	12282	6415	3770	2370	1403	375	509	6445
Pottawattamie	15028	1986	4999	3690	2089	1213	513	361	56	121	6690
Poweshiek	3662	258	1690	741	501	271	80	74	17	30	5071
Ringgold	1164	87	518	294	155	55	17	16	5	17	5193
Sac	2493	260	847	600	377	164	118	69	44	14	6786
Scott	26958	3152	8545	5562	3371	2746	1939	1114	305	224	7682
Shelby	2658	355	871	616	401	189	150	64	6	6	6563
Sioux	5354	513	2195	1028	813	357	224	128	47	49	6135
Story	19401	1263	11276	3879	1174	611	474	489	157	78	3796
Tama	3473	395	1323	716	490	238	159	106	25	21	6174
Taylor	1609	178	630	423	213	66	47	35	7	10	5663
Union	2640	173	1049	677	397	212	51	71	6	4	5927
Van Buren	1635	138	727	375	245	83	23	32	7	5	5217
Wapello	8132	733	2589	2427	1190	501	326	268	48	50	7122
Warren	5332	619	1944	1085	678	449	297	150	78	32	6387
Washington	3490	389	1246	887	484	222	74	106	57	25	6437
Wayne	1634	202	640	417	180	107	43	21	11	13	5639
Webster	8217	815	3150	2046	991	530	281	220	99	85	6011
Winnebago	2667	236	995	592	419	193	106	62	49	15	6696
Winnesiek	4509	449	2050	961	543	214	152	75	40	25	4939
Woodbury	17723	1966	6980	4018	2116	1338	600	385	159	161	5794
Worth	1755	162	515	478	304	137	63	49	44	3	7586
Wright	2946	171	1053	674	425	274	103	128	43	75	6920
State of Iowa	524361	55212	198028	119672	66061	38738	22626	14335	5341	4348	6219

Table 12. Percentages of Females and Males Employed Other Than Full Time With Incomes in Selected Categories in Iowa Counties, 1979.

County	Females				Males			
	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more
Adair	77.3	15.5	5.8	1.4	46.0	23.4	23.9	6.7
Adams	78.9	12.9	6.8	1.5	50.1	26.0	18.2	5.7
Allamakee	78.2	16.5	4.8	0.5	47.0	28.4	19.4	5.2
Appanoose	78.1	15.7	5.9	0.3	48.8	28.6	17.5	5.2
Audubon	79.9	14.2	4.7	1.3	44.1	25.4	24.4	6.1
Benton	74.6	17.2	6.5	1.7	45.6	19.6	23.9	10.9
Black Hawk	76.1	15.3	7.2	1.5	45.8	22.4	20.0	11.8
Boone	74.4	17.3	6.8	1.4	47.0	23.4	20.3	9.3
Bremer	79.2	12.9	6.9	1.0	47.5	19.3	20.1	13.0
Buchanan	79.0	14.5	5.6	0.9	47.3	22.8	19.3	10.6
Buena Vista	76.7	14.5	6.3	2.5	51.1	18.7	20.1	10.0
Butler	80.1	12.6	6.4	1.0	43.9	24.5	21.0	10.6
Calhoun	75.4	14.1	7.9	2.6	48.6	21.6	20.5	9.2
Carroll	77.2	13.6	7.6	1.7	50.2	21.6	18.1	10.1
Cass	78.3	12.7	7.3	1.7	46.8	23.6	20.2	9.4
Cedar	77.2	15.3	6.8	0.7	46.7	19.9	22.7	10.7
Cerro Gordo	75.4	16.4	7.0	1.2	44.2	23.8	22.7	9.2
Cherokee	77.2	14.6	7.2	1.0	48.0	20.5	20.4	11.2
Chickasaw	79.5	14.2	5.8	0.6	49.5	20.9	20.9	8.7
Clarke	76.1	16.8	5.2	1.9	50.4	23.6	18.5	7.6
Clay	73.8	16.1	8.1	2.0	46.0	21.7	22.0	10.3
Clayton	79.7	13.9	5.6	0.9	49.6	25.4	19.3	5.6
Clinton	76.0	15.4	7.3	1.2	43.7	22.5	24.2	9.6
Crawford	80.3	11.1	7.8	0.8	51.8	19.8	20.0	8.4
Dallas	72.7	17.6	8.2	1.5	44.7	23.2	21.9	10.2
Davis	80.0	12.1	7.0	0.8	48.3	23.8	20.7	7.1
Decatur	79.4	14.8	5.7	0.1	59.6	23.1	13.1	4.1
Delaware	81.1	12.3	5.2	1.4	48.3	23.0	19.0	9.6
Des Moines	75.8	15.5	7.7	1.1	46.7	23.7	22.1	7.5
Dickinson	74.6	15.4	7.8	2.2	38.7	28.2	23.7	9.4
Dubuque	77.2	16.2	5.6	1.0	51.9	20.9	18.2	9.1
Emmet	79.7	12.5	6.3	1.5	46.7	21.7	19.6	12.0
Fayette	79.2	13.7	6.1	1.0	50.1	23.4	19.5	6.9
Floyd	77.3	14.7	6.7	1.3	40.6	23.6	24.6	11.3
Franklin	78.0	14.1	6.1	1.8	41.6	23.1	26.5	8.8
Fremont	76.1	14.2	8.1	1.6	46.8	28.5	16.4	8.3
Greene	75.5	14.4	7.8	2.4	42.4	23.9	22.6	11.0
Grundy	77.0	14.8	5.5	2.7	40.1	20.9	26.0	13.0
Guthrie	78.7	13.3	6.7	1.3	49.6	22.8	20.0	7.6
Hamilton	71.9	17.1	7.5	3.5	46.6	24.8	19.7	8.8
Hancock	74.7	15.7	8.0	1.5	42.0	24.5	22.2	11.3
Hardin	75.2	16.0	7.3	1.5	50.5	20.3	19.5	9.7
Harrison	81.3	13.0	4.6	1.1	50.1	20.6	21.1	8.2
Henry	73.1	18.5	6.8	1.6	52.6	23.9	18.5	5.0
Howard	80.2	10.8	6.6	2.4	46.3	23.9	19.7	10.1
Humboldt	76.2	14.7	6.8	2.3	41.1	22.2	23.4	13.3
Ida	78.1	13.2	7.3	1.4	50.1	20.7	20.9	8.2
Iowa	73.6	18.2	6.8	1.4	49.3	20.5	22.7	7.5
Jackson	77.4	14.7	6.4	1.4	48.1	23.4	18.3	10.1
Jasper	75.8	15.3	7.6	1.3	43.8	26.5	21.7	7.9

Table 12. Percentages of Females and Males Employed Other Than Full Time With Incomes in Selected Categories in Iowa Counties, 1979 (continued).

County	Females				Males			
	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more	Less than \$5000	\$5000-\$9999	\$10000-\$19999	\$20000 or more
Jefferson	77.0	14.8	6.7	1.5	54.7	24.7	15.0	5.6
Johnson	70.7	19.4	8.5	1.4	58.5	21.6	13.1	6.8
Jones	76.6	15.5	7.1	0.8	56.5	20.7	15.8	7.0
Keokuk	79.4	13.3	6.5	0.9	47.9	23.5	19.2	9.5
Kossuth	76.8	14.7	6.7	1.7	47.4	20.7	20.2	11.7
Lee	75.6	16.7	6.7	1.0	48.7	22.8	21.0	7.5
Linn	72.8	17.9	7.8	1.5	46.5	21.4	22.8	9.3
Louisa	77.7	13.2	7.4	1.6	45.9	24.7	20.5	8.9
Lucas	80.2	14.2	5.2	0.3	45.4	29.3	20.7	4.5
Lyon	79.5	14.1	4.7	1.7	51.8	18.7	22.5	7.1
Madison	75.2	17.0	6.5	1.4	45.5	24.9	20.3	9.3
Mahaska	79.5	13.0	6.4	1.1	49.8	24.2	19.2	6.7
Marion	76.4	16.0	6.6	1.0	51.4	22.1	21.2	5.3
Marshall	74.3	16.7	7.7	1.3	46.6	26.5	18.9	7.9
Mills	76.2	16.3	6.3	1.3	57.3	19.7	15.7	7.2
Mitchell	77.7	12.9	7.2	2.3	47.0	21.8	20.8	10.4
Monona	80.6	12.3	5.7	1.5	44.5	23.6	23.8	8.2
Monroe	76.1	18.7	4.7	0.5	42.1	29.5	21.2	7.1
Montgomery	74.8	17.4	6.6	1.2	41.7	25.5	22.9	9.9
Muscatine	74.9	16.3	7.5	1.3	48.9	22.7	19.4	9.0
O'Brien	78.9	13.8	5.7	1.5	48.1	23.7	17.7	10.4
Osceola	81.8	10.5	5.6	2.0	40.8	25.7	22.2	11.3
Page	75.4	14.2	9.1	1.3	51.8	23.0	19.1	6.1
Palo Alto	78.6	12.1	7.2	2.0	50.6	19.8	18.8	10.8
Plymouth	80.0	12.8	6.0	1.2	48.9	21.7	18.9	10.4
Pocahontas	77.8	12.7	6.6	2.9	49.2	18.8	21.2	10.9
Polk	70.1	19.9	8.3	1.8	46.3	24.3	20.2	9.2
Pottawattamie	75.6	16.8	6.6	0.9	46.5	24.6	22.0	7.0
Poweshiek	76.2	15.9	6.8	1.2	53.2	20.2	21.1	5.5
Ringgold	81.3	13.6	4.1	0.9	52.0	25.3	18.0	4.7
Sac	81.3	13.6	4.1	0.9	44.4	24.1	21.7	9.8
Scott	75.9	13.9	8.1	2.1	43.4	20.6	22.7	13.3
Shelby	73.6	16.9	8.1	1.3	46.1	23.2	22.2	8.5
Sioux	78.1	13.0	7.5	1.5	50.6	19.2	21.9	8.4
Sioux	80.5	12.5	5.5	1.5	64.6	20.0	9.2	6.2
Story	76.2	15.4	6.6	1.8	49.5	20.6	21.0	9.0
Tama	79.2	11.8	7.6	1.3	50.2	26.3	17.3	6.2
Taylor	78.9	13.3	6.3	1.5	46.3	25.6	23.1	5.0
Union	77.2	15.1	5.9	1.8	52.9	22.9	20.1	4.1
Van Buren	80.5	13.8	5.0	0.7	40.9	29.8	20.8	8.5
Vapello	79.4	15.0	4.9	0.6	48.1	20.3	21.1	10.4
Warren	77.9	15.0	6.1	1.0	46.8	25.4	20.2	7.5
Washington	73.6	18.0	7.1	1.3	51.5	25.5	17.6	5.4
Wayne	82.4	12.3	4.8	0.5	48.3	24.9	18.5	8.3
Webster	75.7	14.4	8.1	1.8	46.2	22.2	22.9	8.7
Winnebago	72.9	17.1	8.9	1.1	55.4	21.3	16.8	6.5
Winnesiek	81.0	13.4	4.7	0.9	50.5	22.7	19.5	7.4
Woodbury	75.7	16.4	6.6	1.2	38.6	27.2	25.1	9.1
Worth	71.6	18.4	8.0	2.0	41.5	22.9	23.7	11.8
Wright	78.2	13.8	6.3	1.7				
State of Iowa	75.7	15.9	7.0	1.4	48.3	22.8	20.0	8.9

Table 13. Median Income of Females Employed as a Percentage of the Median Income of Males Employed in Iowa Counties, 1979 and 1989.

County	Full Time		Other Than Full Time		County	Full Time		Other Than Full Time	
	1989	1979	1989	1979		1989	1979	1989	1979
Adair	70.5	66.4	58.0	50.4	Jefferson	60.0	61.2	61.9	68.6
Adams	62.7	65.6	52.9	50.2	Johnson	76.3	64.7	84.7	77.7
Allamakee	60.9	63.3	58.3	50.6	Jones	70.4	65.0	66.1	63.1
Appanoose	60.3	58.6	63.8	59.7	Keokuk	66.6	61.6	59.5	48.9
Audubon	61.5	57.9	53.0	43.8	Kossuth	60.5	58.1	49.1	48.3
Benton	69.1	60.9	58.7	51.1	Lee	62.9	57.3	61.7	51.2
Black Hawk	54.9	53.9	60.3	48.9	Linn	60.1	58.2	60.8	54.3
Boone	63.5	54.9	60.2	52.6	Louisa	62.2	60.4	57.2	49.8
Bremer	57.8	47.2	62.6	45.9	Lucas	68.0	61.4	52.7	49.0
Buchanan	61.0	58.4	62.5	50.3	Lyon	65.1	52.7	49.1	48.1
Buena Vista	62.1	47.7	49.3	57.3	Madison	63.5	53.8	52.0	53.8
Butler	60.9	51.2	48.9	40.8	Mahaska	60.6	54.4	60.0	54.7
Calhoun	61.6	54.3	51.6	51.8	Marion	68.5	64.6	54.8	53.2
Carroll	61.5	65.8	56.7	50.1	Marshall	61.5	57.0	61.5	56.0
Casa	60.1	54.3	50.5	50.6	Mills	74.7	58.1	67.6	75.6
Cedar	64.7	54.5	50.4	53.0	Mitchell	58.8	59.4	52.2	46.7
Cerro Gordo	64.9	52.1	57.8	51.6	Monona	60.7	60.0	49.9	49.6
Cherokee	67.5	55.2	56.9	52.3	Monroe	64.6	67.7	53.1	45.2
Chickasaw	63.7	57.9	54.8	51.2	Montgomery	70.6	66.3	55.8	50.1
Clarke	70.1	64.3	54.2	57.0	Muscatine	56.7	56.6	54.9	57.3
Clay	61.2	55.2	63.6	52.5	O'Brien	59.4	52.1	53.3	49.7
Clayton	67.2	59.7	56.9	48.7	Osceola	57.1	53.6	56.3	44.8
Clinton	55.4	51.9	52.9	47.4	Page	68.8	59.6	73.7	60.8
Crawford	58.5	54.8	55.5	50.6	Palo Alto	57.8	53.2	61.7	50.1
Dallas	66.3	55.1	57.0	54.2	Plymouth	55.6	56.4	56.9	45.3
Davis	87.4	62.9	56.9	46.9	Pocahontas	58.9	60.7	51.3	45.4
Decatur	69.2	57.0	73.7	72.4	Polk	66.4	57.6	64.1	59.6
Delaware	62.1	59.0	42.8	44.9	Pottawattamie	68.7	57.5	61.0	54.1
Des Moines	58.5	58.4	59.1	56.2	Poweshiek	68.3	57.7	51.2	60.9
Dickinson	65.3	59.5	56.2	45.7	Ringgold	67.9	78.6	58.5	52.0
Dubuque	60.1	49.1	61.4	56.7	Sac	58.9	63.3	51.9	47.2
Emmet	60.3	51.5	56.7	43.5	Scott	59.8	51.7	59.4	48.1
Fayette	65.8	54.7	61.2	52.5	Shelby	64.0	58.9	51.6	47.0
Floyd	69.2	54.7	58.6	41.2	Sioux	60.3	51.4	61.1	45.1
Franklin	58.2	55.0	54.8	42.9	Story	66.6	58.8	94.9	73.5
Fremont	66.0	61.3	59.7	53.6	Tama	65.6	55.4	51.0	47.9
Greene	65.0	61.0	53.7	48.5	Taylor	68.5	73.4	53.1	55.6
Grundy	57.0	52.8	47.9	38.1	Union	67.0	54.9	71.8	54.8
Guthrie	70.3	62.8	53.3	49.9	Van Buren	67.3	64.6	61.9	64.4
Hamilton	67.8	53.8	58.5	58.4	Wapello	62.3	50.8	59.0	46.9
Hancock	62.4	58.3	51.8	46.0	Warren	62.5	53.4	61.3	49.2
Hardin	59.3	50.9	56.6	52.5	Washington	72.3	66.9	59.2	55.6
Harrison	66.3	58.6	61.3	48.3	Wayne	65.3	66.0	52.8	49.1
Henry	71.1	61.3	69.3	63.7	Webster	62.6	52.5	58.9	56.6
Howard	64.8	58.8	54.4	44.0	Winnebago	71.2	62.5	57.0	52.9
Humboldt	65.7	61.0	46.3	46.6	Winneshiek	68.1	59.9	65.3	53.2
Ida	60.4	58.6	52.2	49.2	Woodbury	64.0	55.1	61.7	61.1
Iowa	72.1	61.4	67.0	53.7	Worth	67.7	51.5	45.7	49.3
Jackson	58.6	50.3	65.2	46.8	Wright	56.9	54.2	52.1	46.7
Jasper	60.3	58.5	56.2	49.6					
					State of Iowa	64.8	56.9	60.8	54.6

\$35,000 or more. At least 60% of females had incomes less than \$15,000 in 17 counties, but in no county were as many as 40% of males in that income category (Table 3).

The median income of females as a percentage of the median income of males varied from less than 60% in 19 counties to at least 70% in 12 others in 1989 (Table 13, Figure 1). Although this percentage increased 7.9 points between 1979 and 1989 in the state, not all counties followed this trend. Indeed, the median for females as a percentage of that for males declined in 12 counties. In Ringgold, the county with the largest decline, the median for women in 1979 was 78.6% of that for men; in 1989, females in that county recorded a median that was only 67.9% of that for males. In the 87 other counties, females had a higher percentage of the median for males in 1989 than a decade earlier. The greatest increase occurred in Davis, where the median for females was 62.9% of that of males in 1979 and 87.4% in 1989.

Income from all Sources for Persons Employed Other Than Full Time

Employed females were much more likely to be working part time (Table 7) than working at least 35 hours per week for 50-52 weeks per year in 1989 (Table 1). Employed males, however, were slightly more likely to work full (Table 2) than part time (Table 8). This pattern was even more pronounced in 1979 (Tables 4, 5, 10, 11).

The median income of females employed other than full time was \$5,918 in 1989; for males, the figure was \$9,726. Thus, the gaps noted among full-time workers continued to appear when part-time employment was examined. Indeed, more than half (52.9%) of females employed part time had incomes of less than \$5,000, while 35.2% of males were in this category in 1989 (Table 9).

The median income for females employed part time was 60.8% of that of males in 1989 (Table 13). Although this was an increase from 54.6% reported for 1979, both percentages were lower than those for their full-time counterparts. The difference between median incomes for females and males working part time (60.8%) was slightly greater than that between members of these groups working full time (64.8%) in 1989.

Among counties, the median for part-time female workers as a percentage of the median for part-time male workers was less than 60% in 67 counties and at least 70% in five others in 1989 (Figure 2). Fifteen counties had ratios that declined from 1979 to 1989; that is, the median for part-time female workers became a lower percentage of that for males over the period studied. The remaining 84 counties saw medians for females working part time improve relative to males by 1989.

Note: Questions on money income are included on the bureau's long form completed in a sample of housing units. In 1990, that sample was based on one of every two housing units in incorporated places with fewer than 2,500 residents; in other areas (incorporated places with at least 2,500 residents and open country areas of all Iowa counties), one of every six housing units was sampled. In densely settled urban areas, the rate was raised to 1-in-8 housing units. For persons living in group quarters, the sampling unit was the person; persons in group quarters were sampled at a 1-in-6 rate. In general, the sampling rate selected about one of every six housing units or persons in group quarters in Iowa. The results were then weighted to represent the total population of counties and the state. Minor changes in the sample size and questions asked have occurred over the 1950-1990 censuses. The effects of inflation have not been controlled in the tables in this section.

Figure 1. Median Income of Females as a Percentage of the Median Income of Males (Both Employed Full Time), 1989.

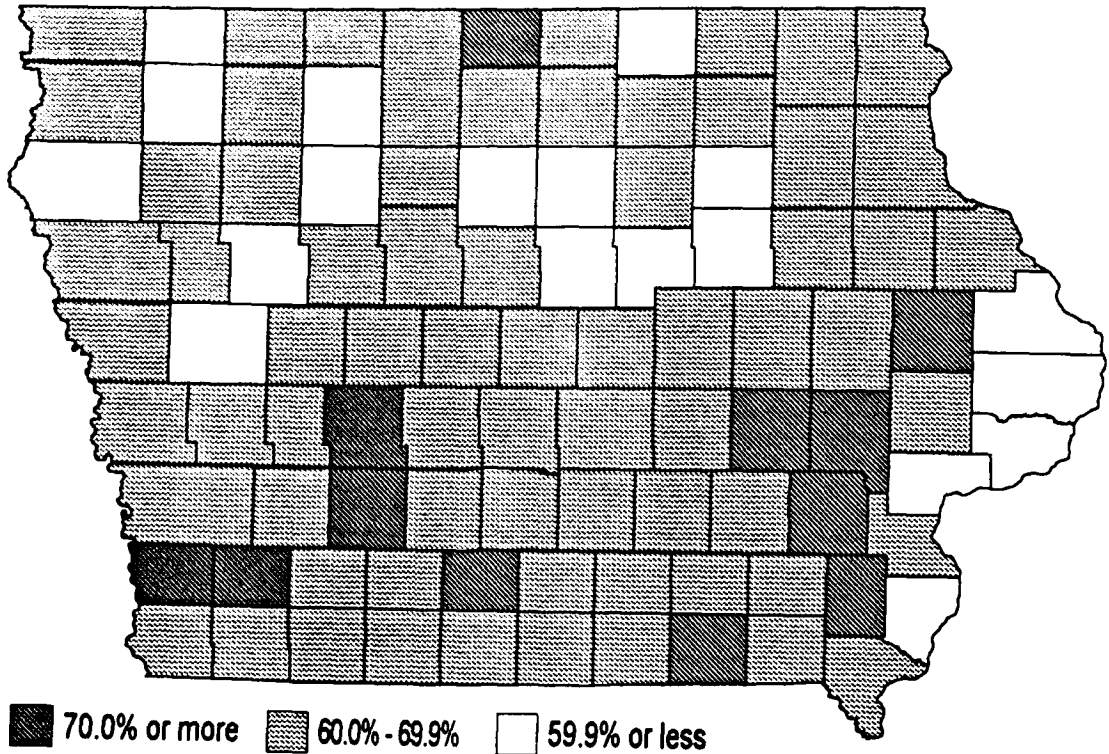
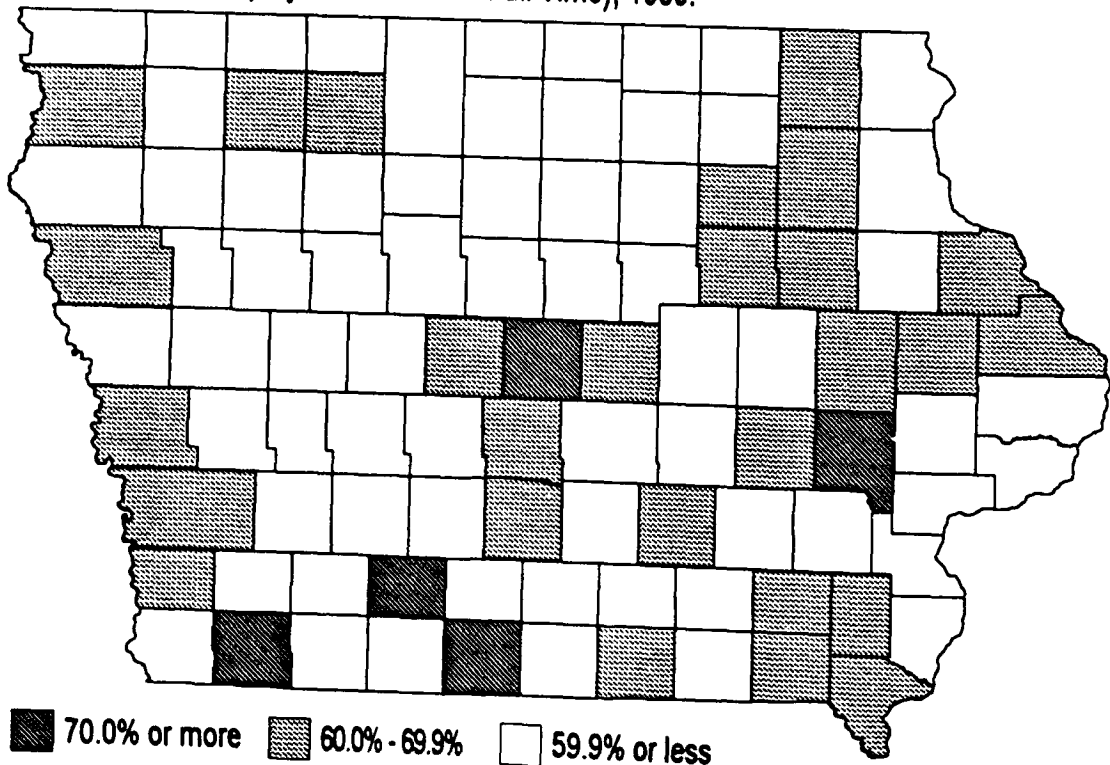


Figure 2. Median Income of Females as a Percentage of the Median Income of Males (Both Employed Other Than Full Time), 1989.



Poverty Among Females and Males in Selected Age Groups in Iowa's Counties: 1979-1989

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Poverty status is determined by comparing a person's or family's income for the calendar year before the census is taken to national poverty thresholds. An individual or family with income below the threshold is classified as below the poverty level. Everyone in a particular family is given the same poverty status.

Poverty status is determined for all persons except those institutionalized, in military group quarters, in college dormitories, and unrelated individuals under 15 years old. The income cutoffs used to determine poverty status include 48 thresholds; for families, size (2 persons to 9 or more) is cross-classified by presence and number of family members under 18 years old. Unrelated individuals and two-person families are further differentiated by age of the householder (under 65 years old and 65 years old and over). For a one-person unit, the poverty threshold averaged \$6,310 in 1989; it averaged \$8,076 for a two-person unit, \$9,885 for a three-person unit, and \$12,674 for a four-person unit. For a unit of nine or more persons, the average poverty threshold was \$25,480 in 1989. For comparative purposes, the poverty thresholds averaged \$3,686 for one-person units and \$7,412 for four-person units in 1979.

Data on poverty were determined by examining questions on money income that were included on the bureau's long form completed in a sample of housing units. In 1990, that sample was based on one of every two housing units in incorporated places with fewer than 2,500 residents; in other areas (incorporated places with at least 2,500 residents and open country areas of all Iowa counties), one of every six housing units was sampled. In densely settled urban areas, the rate was raised to 1-in-8 housing units. For persons living in group quarters, the sample unit was the person; persons in group quarters were sampled at a 1-in-6 rate. In general, the sampling rate selected about one of every six housing units or persons in group quarters in Iowa. The results were then weighted to represent the total population of counties and the state.

State Trends

In 1989, Iowa had 307,000 persons with income below the poverty level (Table 1). That was an increase of 21,000 from 1979 (Table 2). The percentage of persons in poverty was 11.5 in 1989 (Table 3), which was more than a point higher than the figure in 1979 (10.1%) (Table 4).

In the 1979 figures, 142,000 of those 18 through 64 years of age were in poverty; that number increased by nearly 20,000 to 1989. Thus, much of the increase in the number of persons in poverty between 1989 and 1979 occurred in the 18-64 age category. Among those 65 or older, the number in poverty decreased from 47,100 in 1979 to 43,800 in 1989. But the opposite trend occurred among youth; the number under age 18 falling below the poverty threshold increased by nearly 5,000 (96,900 in 1979, 101,700 in 1989).

Trends in percentages in poverty over the decade mirrored those for the number in poverty. Among those 65 or older, the percentages in poverty dropped from 13.3 to 11.2. But the other age groups reported in Tables 3 and 4 had gains, with the youngest group increasing by 2.5 percentage points and the middle category by 1.7 points from 1979 to 1989.

Table 1. Number of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1989.

County	Total Persons				Females				Males			
	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older
Adair	1103	382	460	261	617	175	271	171	486	207	189	90
Adams	796	279	380	137	430	136	208	86	366	143	172	51
Allamakee	1794	516	809	469	1060	301	401	358	734	215	408	111
Appanoose	2735	959	1375	401	1491	457	771	263	1244	502	604	138
Audubon	859	301	349	209	542	161	220	161	317	140	129	48
Benton	2502	890	1302	310	1434	454	739	241	1068	436	563	69
Black Hawk	17932	6001	10507	1424	10626	2975	6542	1109	7306	3026	3965	315
Boone	2119	690	1064	365	1213	307	598	308	906	383	466	57
Bremer	1962	626	965	371	1047	284	503	260	915	342	462	111
Buchanan	3395	1443	1516	436	1860	653	890	317	1535	790	626	119
Buena Vista	1633	533	780	320	1022	256	498	268	611	277	282	52
Butler	1649	509	657	483	957	218	400	339	692	291	257	144
Calhoun	1317	420	560	337	791	211	324	256	526	209	236	81
Carroll	2220	705	1031	484	1309	383	564	362	911	322	467	122
Cass	1693	617	762	314	1034	274	500	260	659	343	262	54
Cedar	1751	603	787	361	952	242	461	249	799	361	326	112
Cerro Gordo	4050	1202	2202	646	2461	578	1369	514	1589	624	833	132
Cherokee	1528	540	735	253	879	275	409	195	649	265	326	58
Chickasaw	1402	430	654	318	793	227	347	219	609	203	307	99
Clarke	1122	445	495	182	657	215	305	137	465	230	190	45
Clay	1722	571	861	290	1026	275	527	224	696	296	334	66
Clayton	2696	890	1243	563	1425	388	662	375	1271	502	581	188
Clinton	5411	1883	2706	822	3274	930	1700	644	2137	953	1006	178
Crawford	2606	935	1181	490	1447	405	671	371	1159	530	510	119
Dallas	2222	680	1126	416	1290	341	660	289	932	339	466	127
Davis	1440	625	588	227	801	324	322	155	639	301	266	72
Decatur	1598	501	766	331	925	267	433	225	673	234	333	106
Delaware	2272	905	1007	360	1310	445	595	270	962	460	412	90
Des Moines	4748	1933	2173	642	2766	867	1396	503	1982	1066	777	139
Dickinson	1338	439	617	282	801	247	377	177	537	192	240	105
Dubuque	8528	2988	4197	1343	5047	1409	2512	1126	3481	1579	1685	217
Emmet	1447	479	750	218	811	243	383	185	636	236	367	33
Fayette	3020	1044	1307	669	1816	590	739	487	1204	454	568	182
Floyd	2200	718	1075	407	1303	361	631	311	897	357	444	96
Franklin	1259	376	565	318	716	153	307	256	543	223	258	62
Fremont	972	319	465	188	590	179	265	146	382	140	200	42
Greene	1203	450	491	262	745	223	323	199	458	227	168	63
Grundy	980	307	435	238	643	187	265	191	337	120	170	47
Guthrie	1195	330	607	258	731	187	362	182	464	143	245	76
Hamilton	1296	367	628	301	781	190	371	220	515	177	257	81
Hancock	1099	385	511	203	690	213	299	178	409	172	212	25
Hardin	1961	572	906	483	1202	291	530	381	759	281	376	102
Harrison	1975	683	881	411	1140	328	508	304	835	355	373	107
Henry	1784	596	912	276	1088	305	550	233	696	291	362	43
Howard	1321	384	537	400	775	186	276	313	546	198	261	87
Humboldt	933	344	440	149	568	168	265	135	365	176	175	14
Ide	945	293	461	191	522	132	234	156	423	161	227	35
Iowa	1176	345	527	304	656	156	283	217	520	189	244	87
Jackson	2811	909	1374	528	1589	467	768	354	1222	442	606	174
Jasper	2367	732	1136	499	1342	312	646	384	1025	420	490	115

Table 1. Number of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1989 (cont.).

County	Total Persons				Females				Males			
	Total	17 or	18-64	65 or	Total	17 or	18-64	65 or	Total	17 or	18-64	65 or
		Younger		Older		Younger		Older		Younger		Older
Jefferson	2115	613	1195	307	1144	270	686	188	971	343	509	119
Johnson	14899	2066	12303	530	7622	1033	6187	402	7277	1033	6116	128
Jones	2043	686	946	411	1249	362	575	312	794	324	371	99
Keokuk	1490	514	675	301	836	245	383	208	654	269	292	93
Kossuth	1997	646	982	369	1120	305	564	251	877	341	418	118
Lee	4783	1840	2155	788	2954	919	1472	563	1829	921	683	225
Linn	14186	4504	8164	1518	8497	2277	5046	1174	5689	2227	3118	344
Louisa	1328	404	751	173	710	185	417	108	618	219	334	65
Lucas	1156	365	550	241	688	173	330	185	468	192	220	56
Lyon	1564	621	673	270	826	271	367	188	738	350	306	82
Madison	1354	562	592	200	812	299	371	142	542	263	221	58
Mahaska	2718	847	1424	447	1575	378	883	314	1143	469	541	133
Marion	2762	922	1282	558	1616	424	799	393	1146	498	483	165
Marshall	3188	1089	1525	574	2004	534	1010	460	1184	555	515	114
Mills	1270	408	682	180	694	197	351	146	576	211	331	34
Mitchell	1092	380	479	233	615	170	294	151	477	210	185	82
Monona	1436	531	582	323	869	256	376	237	567	275	206	86
Monroe	1235	447	597	191	686	204	350	132	549	243	247	59
Montgomery	1188	368	552	268	685	148	347	190	503	220	205	78
Muscatine	3967	1612	1922	433	2428	808	1296	324	1539	804	626	109
O'Brien	1815	623	873	319	1010	309	449	252	805	314	424	67
Osceola	699	279	302	118	386	136	170	80	313	143	132	38
Page	2222	779	969	474	1331	366	619	346	891	413	350	128
Palo Alto	1582	560	840	182	854	269	438	147	728	291	402	35
Plymouth	2045	649	992	404	1184	350	532	302	861	299	460	102
Pocahontas	969	351	437	181	536	165	240	131	433	186	197	50
Polk	29364	10140	16378	2846	17192	5037	9869	2286	12172	5103	6509	560
Pottawattamie	8524	3269	4187	1068	5133	1640	2681	812	3391	1629	1506	256
Poweshiek	1839	588	873	378	987	219	482	286	852	369	391	92
Ringgold	906	293	393	220	492	125	207	160	414	168	186	60
Sac	1419	502	618	299	876	270	380	226	543	232	238	73
Scott	17914	7096	9273	1545	10276	3527	5568	1181	7638	3569	3705	364
Shelby	1205	401	575	229	662	193	316	153	543	208	259	76
Sioux	2240	803	1048	389	1336	430	620	286	904	373	428	103
Story	10515	1583	8464	468	4925	732	3869	324	5590	851	4595	144
Tama	1789	515	909	365	1029	218	545	266	760	297	364	99
Taylor	1265	425	545	295	719	213	293	213	546	212	252	82
Union	1930	714	899	317	1121	415	481	225	809	299	418	92
Van Buren	1271	476	583	212	672	226	287	159	599	250	296	53
Wapello	5344	1825	2857	662	3022	864	1666	492	2322	961	1191	170
Warren	2174	705	1124	345	1338	381	678	279	836	324	446	66
Washington	1797	676	809	312	1036	322	454	260	761	354	355	52
Wayne	1323	432	599	292	745	226	311	208	578	206	288	84
Webster	4600	1719	2280	601	2794	890	1434	470	1806	829	846	131
Winnebago	1346	432	699	215	748	199	388	161	598	233	311	54
Winneshiek	2477	754	1211	512	1360	388	612	360	1117	366	599	152
Woodbury	12858	4932	6343	1583	7480	2301	3901	1278	5378	2631	2442	305
Worth	777	208	402	167	462	87	237	138	315	121	165	29
Wright	1353	433	626	294	818	258	357	203	535	175	269	91
State of Iowa	307420	101661	162002	43757	177149	49765	94368	33016	130271	51896	67634	10741

Table 2. Number of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1979.

County	Total Persons				Females				Males			
	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older
Adair	1578	549	735	294	840	268	383	189	738	281	352	105
Adams	812	261	334	217	417	88	194	135	395	173	140	82
Allamakee	2141	865	932	344	1101	410	479	212	1040	455	453	132
Appanoose	2642	960	1203	479	1532	515	699	318	1110	445	504	161
Audubon	1086	474	449	163	591	229	248	114	495	245	201	49
Benton	2672	1015	1156	501	1571	557	657	357	1101	458	499	144
Black Hawk	12130	4406	6516	1208	7220	2133	4207	880	4910	2273	2309	328
Boone	2279	660	1177	442	1354	333	676	345	925	327	501	97
Bremer	1800	548	885	367	944	232	468	244	856	316	417	123
Buchanan	2627	1112	1128	387	1393	506	622	265	1234	606	506	122
Buena Vista	1649	482	820	347	994	248	499	247	655	234	321	100
Butler	1675	517	748	410	947	283	388	276	728	234	360	134
Calhoun	1366	439	591	336	844	252	339	253	522	187	252	83
Carroll	1972	751	815	406	1090	342	459	289	882	409	356	117
Cass	1932	608	886	438	1171	317	508	346	761	291	378	92
Cedar	1945	704	983	258	1041	334	533	174	904	370	450	84
Cerro Gordo	4083	1285	2061	737	2589	654	1343	592	1494	631	718	145
Cherokee	1686	568	810	308	947	274	454	219	739	294	356	89
Chickasaw	1731	606	769	356	961	326	411	224	770	280	358	132
Clarke	1406	542	571	293	752	261	298	193	654	281	273	100
Clay	1871	514	970	387	1113	276	555	282	758	238	415	105
Clayton	2872	1033	1328	511	1530	449	730	351	1342	584	598	160
Clinton	4312	1528	2007	777	2692	757	1302	633	1620	771	705	144
Crawford	2289	755	1114	420	1268	370	603	295	1021	385	511	125
Dallas	2078	720	984	374	1191	342	575	274	887	378	409	100
Davis	1969	794	823	352	1060	375	441	244	909	419	382	108
Decatur	1711	524	791	396	943	272	409	262	768	252	382	134
Delaware	2498	1113	980	405	1440	585	551	304	1058	528	429	101
Des Moines	3798	1244	1740	814	2435	650	1179	606	1363	594	561	208
Dickinson	1320	418	570	332	798	205	333	260	522	213	237	72
Dubuque	7475	2664	3359	1452	4729	1417	2094	1218	2746	1247	1265	234
Emmet	1656	624	747	285	915	254	458	203	741	370	289	82
Fayette	2694	853	1160	681	1504	394	665	445	1190	459	495	236
Floyd	1751	524	804	423	1065	313	444	308	686	211	360	115
Franklin	1555	559	682	314	855	234	391	230	700	325	291	84
Fremont	1528	583	712	233	849	264	407	178	679	319	305	55
Greene	1561	554	728	279	909	290	419	200	652	264	309	79
Grundy	896	287	415	194	514	119	253	142	382	168	162	52
Guthrie	1737	561	737	439	944	244	409	291	793	317	328	148
Hamilton	1658	566	763	329	968	300	435	233	690	266	328	96
Hancock	1123	344	537	242	722	192	322	208	401	152	215	34
Hardin	2185	763	926	496	1269	374	547	348	916	389	379	148
Harrison	2508	864	1199	445	1462	446	679	337	1046	418	520	108
Henry	1451	472	675	304	832	220	403	209	619	252	272	95
Howard	1616	591	692	333	933	348	348	237	683	243	344	96
Humboldt	1015	349	475	191	566	160	269	137	449	189	206	54
Ida	1245	410	584	251	617	154	293	170	628	256	291	81
Iowa	1211	422	536	253	641	190	268	183	570	232	268	70
Jackson	2834	1151	1212	471	1526	569	613	344	1308	582	599	127
Jasper	2888	1128	1330	430	1711	580	794	337	1177	548	536	85

Table 2. Number of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1979 (cont).

County	Total Persons				Females				Males			
	Total	17 or Younger		65 or Older	Total	17 or Younger		65 or Older	Total	17 or Younger		65 or Older
		18-64				18-64				18-64		
Jefferson	1815	483	1006	326	1050	258	552	240	765	225	454	86
Johnson	11418	1367	9472	579	5731	618	4653	460	5687	749	4819	119
Jones	2045	680	948	417	1082	328	502	252	963	352	446	165
Keokuk	1621	500	672	449	893	233	364	296	728	267	308	153
Kossuth	2584	918	1095	571	1431	449	604	378	1153	469	491	193
Lee	3692	1376	1623	693	2246	684	1004	558	1446	692	619	135
Linn	11292	3783	5796	1713	6903	1833	3726	1344	4389	1950	2070	369
Louisa	1341	570	584	187	793	314	346	133	548	256	238	54
Lucas	1601	551	758	292	880	266	410	204	721	285	348	88
Lyon	1691	599	790	302	884	269	400	215	807	330	390	87
Madison	1538	483	720	335	809	204	373	232	729	279	347	103
Mahaska	2747	905	1297	545	1547	431	708	408	1200	474	589	137
Marion	2640	949	1214	477	1597	509	730	358	1043	440	484	119
Marshall	3225	1114	1614	497	1970	606	1001	363	1255	508	613	134
Mills	1137	409	475	253	637	162	290	185	500	247	185	68
Mitchell	1538	484	720	334	853	238	378	237	685	246	342	97
Monona	1748	555	833	360	964	301	429	234	784	254	404	126
Monroe	1244	461	539	244	678	196	299	183	566	265	240	61
Montgomery	1237	409	571	257	782	253	350	179	455	156	221	78
Muscatine	3609	1299	1814	496	2060	630	1073	357	1549	669	741	139
O'Brien	1735	417	844	474	1085	227	454	404	650	190	390	70
Osceola	910	291	441	178	476	112	236	128	434	179	205	50
Page	2041	515	930	596	1206	255	519	432	835	260	411	164
Palo Alto	1502	521	720	261	862	287	370	205	640	234	350	56
Plymouth	2833	1083	1298	452	1516	496	707	313	1317	587	591	139
Pocahontas	1386	477	621	288	759	225	322	212	627	252	299	76
Polk	24882	8802	13305	2775	14597	4268	8160	2169	10285	4534	5145	606
Pottawattamie	8238	3275	3806	1157	4814	1662	2295	857	3424	1613	1511	300
Poweshiek	2089	696	1112	281	1155	308	628	219	934	388	484	62
Ringgold	1478	464	716	298	827	246	379	202	651	218	337	96
Sac	1486	523	638	325	810	237	334	239	676	286	304	86
Scott	12355	4688	6289	1378	7259	2497	3806	956	5096	2191	2483	422
Shelby	1844	731	875	238	953	320	489	144	891	411	386	94
Sioux	3007	1224	1354	429	1708	639	743	326	1299	585	611	103
Story	7353	1271	5601	481	3587	663	2570	354	3766	608	3031	127
Tama	2137	652	1013	472	1242	368	547	327	895	284	466	145
Taylor	1463	510	691	262	774	220	345	209	689	290	346	53
Union	1817	506	892	419	1053	244	513	296	764	262	379	123
Van Buren	1669	569	757	343	866	248	406	212	803	321	351	131
Wapello	4009	1370	1791	848	2524	667	1162	695	1485	703	629	153
Warren	2227	759	1063	405	1272	382	603	287	955	377	460	118
Washington	2567	1039	1124	404	1462	532	631	299	1105	507	493	105
Wayne	1519	435	707	377	806	183	387	236	713	252	320	141
Webster	4168	1509	2059	600	2466	707	1279	480	1702	802	780	120
Winnebago	894	262	340	292	530	137	187	206	364	125	153	86
Winnesiek	2680	1014	1238	428	1373	450	621	302	1307	564	617	126
Woodbury	11193	4333	5215	1645	6795	2315	3260	1220	4398	2018	1955	425
Worth	762	269	331	162	437	111	200	126	325	158	131	36
Wright	1649	542	723	384	1013	271	452	290	636	271	271	94
State of Iowa	286173	96906	142184	47083	164317	47964	81851	34502	121856	48942	60333	12581

Table 3. Percentage of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1989.

County	Total Persons				Females				Males			
	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older
Adair	13.4	18.3	10.6	14.5	14.6	17.2	12.6	16.2	12.2	19.3	8.7	12.0
Adams	16.8	23.9	14.7	13.6	17.9	24.5	16.2	15.1	15.6	23.4	13.3	11.7
Allamakee	13.2	13.6	11.1	19.1	15.3	15.9	11.2	24.5	11.1	11.3	11.0	11.2
Appanoose	20.4	28.5	18.7	14.8	21.5	27.6	20.6	16.9	19.2	29.4	16.8	11.9
Audubon	12.1	16.3	9.3	13.9	14.9	17.5	11.7	18.9	9.2	15.0	6.9	7.3
Benton	11.4	14.8	10.5	8.9	12.8	15.4	11.9	11.9	9.9	14.2	9.0	4.7
Black Hawk	15.3	19.6	14.8	9.1	17.4	19.9	17.8	12.1	13.0	19.3	11.6	4.9
Boone	8.8	11.4	7.6	9.3	9.7	10.2	8.4	13.2	7.9	12.6	6.8	3.6
Bremer	9.2	11.0	7.9	10.6	9.6	10.1	8.4	12.9	8.7	11.8	7.5	7.5
Buchanan	16.7	22.8	13.9	14.3	18.1	21.4	16.2	18.1	15.3	24.0	11.5	9.2
Buena Vista	8.7	10.6	7.5	9.9	10.7	10.5	9.6	14.2	6.7	10.6	5.4	3.8
Butler	10.7	12.4	7.9	16.2	12.2	11.2	9.6	19.6	9.2	13.6	6.2	11.6
Calhoun	11.9	14.8	9.8	13.5	13.6	14.9	11.2	16.9	10.1	14.7	8.4	8.3
Carroll	10.6	11.2	9.1	14.0	12.1	12.4	10.0	17.5	8.9	10.0	8.3	8.8
Cass	11.5	15.9	9.6	11.0	13.6	14.6	12.4	15.0	9.3	17.2	6.7	4.8
Cedar	10.2	13.1	8.0	13.2	10.9	10.5	9.4	16.3	9.5	15.7	6.7	9.3
Cerro Gordo	8.9	10.6	8.2	8.9	10.4	10.5	9.9	11.7	7.3	10.7	6.4	4.6
Cherokee	11.2	14.4	9.8	10.7	12.5	14.5	10.9	14.0	9.9	14.3	8.7	6.0
Chickasaw	10.7	11.5	9.1	14.6	12.1	12.6	9.9	17.5	9.3	10.4	8.4	10.6
Clarke	13.7	20.6	10.8	12.6	15.5	20.1	13.1	16.4	11.8	21.1	8.5	7.4
Clay	10.0	11.7	8.8	10.8	11.4	11.7	10.5	14.1	8.3	11.7	7.1	6.1
Clayton	14.4	16.9	12.1	17.6	15.0	15.0	13.1	20.6	13.8	18.9	11.2	13.7
Clinton	10.8	13.9	9.3	10.9	12.6	13.7	11.6	14.4	8.9	14.1	7.0	5.8
Crawford	15.9	20.3	12.9	18.5	17.4	17.6	15.0	24.0	14.3	23.0	10.8	10.8
Dallas	7.6	8.3	6.6	10.6	8.7	8.7	7.6	12.6	6.5	7.9	5.5	7.8
Davis	17.8	27.4	13.3	16.2	19.5	29.2	14.7	19.0	16.0	25.7	11.9	12.4
Decatur	21.0	26.0	18.5	21.4	23.5	28.2	20.6	25.2	18.4	23.8	16.4	16.3
Delaware	12.8	16.3	10.3	14.6	14.6	16.2	12.3	19.0	11.0	16.4	8.4	8.6
Des Moines	11.3	17.7	8.9	10.0	12.7	16.4	11.1	12.7	9.9	18.9	6.5	5.6
Dickinson	9.2	12.8	7.4	9.8	10.6	14.3	9.0	10.9	7.6	11.2	5.9	8.4
Dubuque	10.3	12.8	8.6	12.2	11.8	12.5	10.2	16.7	8.6	13.2	7.0	5.0
Emmet	13.0	16.1	12.2	11.2	14.5	17.1	12.6	16.1	11.6	15.1	11.7	4.1
Fayette	14.2	18.0	11.3	17.1	16.7	20.9	12.9	20.9	11.6	15.3	9.8	11.6
Floyd	13.3	16.7	11.7	13.5	15.1	17.0	13.4	17.5	11.3	16.5	9.9	7.7
Franklin	11.3	13.2	9.1	15.1	12.6	11.3	10.0	20.4	9.9	15.0	8.3	7.3
Fremont	12.2	15.1	10.9	11.6	14.1	17.0	12.1	15.3	10.0	13.2	9.6	6.3
Greene	12.2	18.4	9.3	12.4	14.7	19.1	12.1	15.9	9.6	17.7	6.4	7.3
Grundy	8.3	10.1	6.6	10.8	10.5	12.5	8.0	14.7	5.9	7.7	5.2	5.1
Guthrie	11.2	12.3	10.3	12.5	13.3	13.9	12.3	15.2	9.0	10.7	8.3	8.7
Hamilton	8.2	9.2	7.0	10.9	9.7	9.6	8.3	13.8	6.7	8.9	5.7	7.0
Hancock	8.9	10.9	7.6	9.7	10.9	12.3	8.9	14.3	6.8	9.5	6.2	3.0
Hardin	10.8	12.7	9.1	13.0	12.8	12.9	10.7	17.4	8.7	12.4	7.6	6.7
Harrison	13.8	17.6	11.1	16.0	15.4	17.6	12.7	20.1	12.0	17.7	9.5	10.1
Henry	10.1	12.6	9.0	9.6	11.9	13.1	10.7	13.6	8.1	12.1	7.3	3.7
Howard	13.8	14.9	10.6	20.9	15.9	14.1	11.2	28.6	11.7	15.8	10.0	10.6
Humboldt	8.8	12.6	7.7	7.0	10.4	12.5	9.2	11.0	7.1	12.6	6.2	1.6
Ida	11.6	12.4	10.7	12.8	12.6	11.7	10.9	17.9	10.6	13.0	10.6	5.6
Iowa	8.2	9.2	6.5	12.0	8.9	8.4	7.1	14.4	7.4	10.1	6.0	8.4
Jackson	14.3	16.3	12.5	17.4	16.0	17.4	13.9	20.2	12.6	15.3	11.0	13.5
Jasper	7.0	8.4	5.7	9.7	7.7	7.5	6.3	12.8	6.2	9.2	5.0	5.1

Table 3. Percentage of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1989
(continued).

County	Total Persons				Females				Males			
	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older
Jefferson	13.9	15.5	13.1	14.1	14.5	13.8	14.9	14.5	13.1	17.1	11.3	13.6
Johnson	17.1	10.8	20.0	7.9	17.3	11.1	20.1	10.2	16.8	10.6	19.9	4.6
Jones	11.5	13.9	9.4	14.7	13.7	15.1	11.3	19.5	9.1	12.7	7.5	8.4
Keokuk	13.1	17.2	10.9	13.5	14.4	16.9	12.5	16.2	11.7	17.5	9.4	9.8
Kossuth	11.0	12.5	10.0	11.4	12.0	12.2	11.5	13.3	9.9	12.8	8.6	8.7
Lee	12.9	18.8	10.1	13.2	15.2	19.1	13.3	15.6	10.3	18.5	6.6	9.5
Linn	8.6	10.7	7.9	7.9	10.1	11.1	9.6	10.4	7.1	10.4	6.1	4.4
Louisa	11.7	13.1	11.2	10.8	12.7	12.5	12.9	12.5	10.7	13.7	9.6	8.9
Lucas	13.1	16.5	11.1	14.2	14.9	16.4	12.9	18.5	11.0	16.6	9.2	8.0
Lyon	13.3	17.1	10.9	13.8	13.9	15.7	11.9	16.7	12.7	18.5	9.9	9.8
Madison	11.1	16.8	8.7	9.9	13.1	18.7	10.9	11.8	9.1	15.1	6.5	7.2
Mahaska	13.0	15.3	12.1	12.6	14.8	14.1	14.9	15.2	11.2	16.4	9.3	9.0
Marion	10.0	12.1	8.1	13.5	11.5	11.7	9.9	16.7	8.5	12.4	6.3	9.3
Marshall	8.7	11.5	7.0	10.2	10.5	11.5	9.1	14.0	6.7	11.5	4.9	4.9
Mills	10.2	11.5	9.4	10.6	10.9	11.6	9.7	14.4	9.4	11.5	9.2	5.0
Mitchell	10.3	13.4	8.5	11.1	11.5	12.4	10.5	12.7	9.1	14.2	6.5	9.1
Monona	14.8	21.4	11.3	15.2	17.3	21.4	14.5	19.3	12.0	21.5	8.1	9.6
Monroe	15.6	21.7	13.8	12.7	16.8	20.4	16.0	14.9	14.3	22.8	11.5	9.5
Montgomery	10.1	12.4	8.6	11.4	11.2	10.2	10.7	13.6	8.9	14.6	6.5	8.1
Muscatine	10.1	14.6	8.2	8.9	12.1	15.0	11.0	11.4	8.0	14.2	5.4	5.4
O'Brien	12.1	15.1	10.8	11.4	13.2	15.3	11.2	15.4	11.0	14.8	10.5	5.8
Osceola	9.8	14.0	7.8	9.1	10.7	14.3	9.0	10.7	8.8	13.8	6.8	6.9
Page	13.8	18.8	11.1	14.6	15.9	18.0	14.0	18.0	11.5	19.6	8.1	9.7
Palo Alto	15.3	20.2	14.9	9.4	16.1	20.1	15.5	12.9	14.4	20.3	14.3	4.4
Plymouth	9.0	9.7	7.9	11.6	10.4	11.0	8.5	15.3	7.6	8.6	7.4	6.8
Pocahontas	10.4	14.3	8.8	9.7	11.3	14.0	9.7	12.1	9.5	14.5	7.9	6.4
Polk	9.2	12.6	8.0	8.1	10.3	12.8	9.4	10.5	8.0	12.4	6.6	4.1
Pottawattamie	10.5	14.7	8.6	10.2	12.2	15.3	10.6	13.2	8.7	14.2	6.4	6.0
Poweshiek	10.4	12.7	8.6	13.1	10.7	9.6	9.2	17.0	10.0	15.6	7.9	7.7
Ringgold	17.2	22.6	14.0	18.7	18.0	19.9	14.6	23.2	16.3	25.0	13.4	12.3
Sec	11.8	15.5	9.8	12.1	14.3	17.5	12.2	15.5	9.1	13.6	7.4	7.1
Scott	12.1	17.1	10.3	9.5	13.5	17.2	12.1	12.2	10.6	16.9	8.4	5.5
Shelby	9.4	11.1	8.3	9.8	10.2	11.1	9.3	11.5	8.5	11.2	7.4	7.6
Sioux	8.1	9.0	7.1	9.7	9.4	9.8	8.3	12.3	6.7	8.3	5.8	6.1
Story	16.5	10.9	20.0	7.1	15.7	10.5	18.9	8.2	17.4	11.2	20.9	5.5
Tama	10.6	11.7	9.6	11.8	11.8	10.1	11.5	14.5	9.3	13.4	7.7	7.8
Taylor	18.3	23.6	15.4	18.9	20.0	24.0	16.4	23.2	16.4	23.2	14.3	12.7
Union	15.5	21.8	13.0	13.9	17.1	24.9	13.7	16.4	13.6	18.7	12.2	10.2
Van Buren	16.8	24.2	14.1	14.2	17.5	24.9	13.8	18.6	16.0	23.7	14.4	8.4
Wapello	15.3	21.5	14.2	10.4	16.6	21.0	16.1	13.0	13.8	22.0	12.1	6.6
Warren	6.3	7.0	5.3	9.9	7.6	7.9	6.3	13.8	4.9	6.2	4.3	4.5
Washington	9.5	13.3	7.5	9.9	10.6	13.0	8.5	13.5	8.2	13.5	6.6	4.2
Wayne	19.1	26.6	16.8	16.7	20.5	27.4	17.2	20.9	17.5	25.8	16.5	11.2
Webster	11.8	16.6	10.2	9.6	13.9	17.7	12.6	12.8	9.6	15.6	7.8	5.1
Winneshiek	11.7	14.1	11.1	10.2	12.7	13.3	12.4	12.9	10.7	14.8	9.8	6.2
Winneshiek	13.2	14.7	11.3	17.5	14.5	15.6	11.8	21.4	11.9	13.9	10.9	12.2
Woodbury	13.4	18.4	11.5	11.4	15.1	17.7	13.9	15.0	11.6	19.0	9.0	5.7
Worth	9.9	10.6	9.3	10.8	11.5	9.2	11.0	14.9	8.2	11.9	7.6	4.7
Wright	9.7	12.5	8.2	10.3	11.4	15.0	9.4	12.3	7.9	10.1	7.1	7.5
State of Iowa	11.5	14.3	10.3	11.2	12.9	14.4	11.8	14.3	10.0	14.3	8.7	6.7

Table 4. Percentage of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1979.

County	Total Persons				Females				Males			
	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older
Adair	16.9	21.4	14.6	17.1	17.9	21.8	15.4	19.3	16.0	21.2	13.7	14.2
Adams	14.4	17.4	10.7	21.8	14.8	12.8	12.1	25.3	14.1	21.3	9.2	17.8
Allamakee	14.5	18.7	11.9	15.0	14.9	18.4	12.4	16.4	14.2	19.0	11.5	13.2
Appanoose	17.3	22.5	14.5	17.7	19.2	24.7	16.2	20.0	15.3	20.4	12.7	14.5
Audubon	13.0	20.1	9.8	11.5	13.9	20.4	10.8	13.8	12.1	20.0	8.8	8.3
Benton	11.5	14.6	8.8	15.3	13.2	16.5	10.0	18.9	9.6	12.9	7.7	10.4
Black Hawk	9.3	11.4	8.2	9.5	10.8	11.3	10.4	11.7	7.6	11.4	5.9	6.4
Boone	9.1	9.8	8.2	11.7	10.5	10.1	9.2	15.5	7.7	9.6	7.1	6.3
Bremer	7.6	7.6	6.6	12.3	7.9	6.6	7.0	14.3	7.3	8.5	6.3	9.6
Buchanan	11.8	14.8	9.2	14.8	12.4	13.9	10.2	18.0	11.1	15.6	8.3	10.7
Buena Vista	8.4	9.0	7.3	11.4	9.8	9.3	8.7	13.9	6.9	8.7	5.8	7.8
Butler	9.7	10.1	7.8	15.4	10.8	11.5	8.1	18.4	8.5	8.9	7.5	11.5
Calhoun	10.4	12.2	8.3	13.8	12.4	14.4	9.3	17.6	8.2	10.1	7.2	8.4
Carroll	8.8	10.2	6.7	13.7	9.5	9.4	7.6	16.5	8.1	11.0	5.9	9.6
Cass	11.7	13.7	9.6	15.2	13.8	14.7	10.8	21.3	9.4	12.7	8.3	7.3
Cedar	10.6	13.0	9.4	10.4	11.2	12.6	10.3	12.3	10.0	13.4	8.6	8.0
Cerro Gordo	8.7	10.3	7.3	11.5	10.4	10.7	9.0	15.1	6.7	9.9	5.4	5.8
Cherokee	10.7	12.6	9.1	13.4	11.9	12.4	10.3	16.5	9.6	12.8	8.0	9.1
Chickasaw	11.4	12.5	9.2	17.4	12.6	13.5	10.1	19.3	10.2	11.5	8.4	14.8
Clarke	16.4	22.5	12.1	20.2	17.1	21.5	12.6	23.6	15.7	23.4	11.6	15.9
Clay	9.7	9.3	8.6	15.7	11.1	9.9	9.7	19.2	8.2	8.7	7.5	10.5
Clayton	13.9	16.6	11.7	16.4	14.8	15.0	13.1	20.4	12.9	18.0	10.4	11.5
Clinton	7.7	9.0	6.2	11.4	9.4	9.3	7.8	15.9	5.9	8.8	4.4	5.1
Crawford	12.3	13.1	10.7	17.2	13.5	12.8	11.8	21.3	11.1	13.3	9.7	11.8
Dallas	7.2	8.2	5.9	10.8	8.0	7.9	6.8	13.3	6.3	8.4	4.9	7.1
Davis	22.0	30.3	16.9	24.4	23.6	30.6	18.1	29.8	20.4	30.1	15.7	17.4
Decatur	19.5	22.5	16.3	24.6	20.8	23.9	16.3	29.2	18.1	21.2	16.3	18.9
Delaware	13.4	17.4	9.7	18.4	15.2	18.4	11.0	23.8	11.5	16.4	8.4	10.9
Des Moines	8.4	9.6	6.6	13.6	10.3	10.3	8.7	16.6	6.3	8.9	4.4	9.0
Dickinson	8.5	10.0	6.4	13.8	10.1	10.0	7.3	19.3	7.0	10.0	5.5	6.8
Dubuque	8.3	9.0	6.5	15.7	10.2	9.8	8.0	20.9	6.3	8.2	5.0	6.8
Emmet	12.7	16.3	9.9	16.5	13.8	13.7	12.1	19.8	11.5	18.7	7.7	11.6
Fayette	10.8	11.6	8.5	17.6	12.0	11.0	9.8	20.2	9.7	12.2	7.2	14.2
Floyd	9.2	9.2	7.5	15.8	10.8	11.3	8.1	19.5	7.4	7.2	6.8	10.4
Franklin	12.1	15.8	9.5	15.0	13.1	13.5	10.8	19.6	11.1	18.0	8.1	9.2
Fremont	16.6	22.9	14.2	14.4	18.1	21.4	16.0	19.3	15.1	24.2	12.3	7.9
Greene	13.1	16.8	11.3	13.0	14.9	18.1	12.8	16.0	11.3	15.6	9.7	8.8
Grundy	6.3	7.0	5.2	9.4	7.2	6.1	6.3	11.8	5.5	7.9	4.0	6.1
Guthrie	14.9	17.3	11.7	20.4	15.6	15.1	12.8	23.7	14.1	19.5	10.6	16.1
Hamilton	9.4	11.6	7.5	12.9	10.9	12.8	8.6	15.9	7.9	10.5	6.5	8.9
Hancock	8.2	8.4	7.1	12.2	10.5	9.7	8.5	17.8	5.9	7.2	5.6	4.2
Hardin	10.5	13.9	7.8	14.4	11.8	13.9	9.2	16.8	9.1	13.8	6.4	10.8
Harrison	15.6	18.2	13.7	17.5	17.9	19.4	15.3	23.4	13.3	17.2	12.0	9.8
Henry	8.2	9.3	6.7	11.5	9.1	8.6	7.9	13.5	7.2	10.0	5.5	8.7
Howard	14.8	18.7	12.0	17.2	16.9	22.0	12.2	21.7	12.7	15.4	11.7	11.3
Humboldt	8.4	10.5	7.0	10.1	9.2	9.6	7.9	12.9	7.6	11.4	6.0	6.6
Ida	14.2	16.7	12.1	17.2	14.0	13.2	12.3	20.1	14.5	19.8	11.9	13.2
Iowa	8.0	9.9	6.2	11.0	8.3	9.2	6.2	13.4	7.7	10.6	6.2	7.6
Jackson	12.8	15.8	10.0	16.5	13.6	16.1	10.1	21.6	11.9	15.5	10.0	10.1
Jasper	8.1	11.0	6.3	9.4	9.4	11.7	7.5	12.5	6.7	10.4	5.2	4.9

Table 4. Percentage of Total Persons, Females, and Males in Poverty by Selected Age Categories in Iowa Counties, 1979
(continued).

County	Total Persons				Females				Males			
	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older	Total	17 or Younger	18-64	65 or Older
Jefferson	12.3	12.2	11.9	14.3	13.9	13.7	12.7	18.1	10.7	10.8	11.0	9.0
Johnson	14.9	7.7	17.8	10.7	14.9	7.1	17.6	13.9	15.0	8.2	18.0	5.7
Jones	10.6	11.3	8.7	16.5	11.1	11.0	9.5	17.3	10.0	11.7	8.1	15.3
Keokuk	12.7	14.5	9.8	18.5	13.8	13.9	10.6	21.5	11.6	14.9	9.0	14.7
Kossuth	12.0	14.0	9.2	18.6	13.2	14.3	10.2	21.5	10.7	13.7	8.1	14.6
Lee	8.9	11.4	6.8	12.7	10.5	11.7	8.2	16.9	7.2	11.1	5.3	6.3
Linn	6.8	7.7	5.7	10.7	8.1	7.6	7.2	13.8	5.4	7.8	4.2	5.9
Louisa	11.3	15.4	8.8	12.4	13.3	17.1	10.5	16.3	9.3	13.7	7.2	7.8
Lucas	15.9	19.8	13.7	16.7	16.7	19.4	14.3	19.5	15.0	20.2	13.0	12.4
Lyon	13.3	15.0	11.5	16.4	13.8	14.1	11.6	20.5	12.8	15.9	11.3	11.0
Madison	12.5	13.2	10.8	17.2	13.1	11.6	11.2	20.8	12.0	14.7	10.4	12.5
Mahaska	12.5	15.0	10.3	16.1	13.7	14.9	11.0	20.5	11.2	15.1	9.5	9.8
Marion	9.6	11.6	7.7	12.9	11.3	12.8	9.1	16.4	7.8	10.5	6.3	7.9
Marshall	8.0	9.6	6.7	10.2	9.4	10.7	8.2	12.3	6.4	8.5	5.3	6.9
Mills	9.2	10.8	6.8	16.3	10.1	8.8	8.1	20.7	8.4	12.7	5.5	10.4
Mitchell	12.8	13.5	11.3	16.0	13.9	13.5	12.0	19.4	11.6	13.5	10.6	11.1
Monona	15.3	18.2	13.3	17.0	16.6	19.9	13.8	19.8	14.0	16.6	12.8	13.4
Monroe	13.7	18.7	10.7	15.4	14.7	17.1	11.6	20.3	12.7	20.0	9.8	9.0
Montgomery	9.4	11.8	7.8	10.8	11.5	14.8	9.4	13.2	7.2	9.0	6.2	7.6
Muscatine	9.1	10.6	7.9	11.2	10.2	10.7	9.2	13.8	7.9	10.5	6.5	7.6
O'Brien	10.4	8.9	9.2	16.8	12.6	9.9	9.8	23.8	8.1	7.9	8.6	6.2
Osceola	11.0	12.5	9.6	13.2	11.4	10.2	10.3	16.7	10.6	14.4	9.0	8.6
Page	11.1	10.3	9.2	18.2	12.7	10.6	10.1	22.0	9.5	10.1	8.4	12.5
Palo Alto	12.1	14.1	10.6	13.1	13.8	16.3	11.1	17.6	10.3	12.2	10.2	6.8
Plymouth	11.8	14.5	9.8	14.0	12.6	13.7	10.7	17.5	11.1	15.3	8.9	9.7
Pocahontas	12.4	15.1	10.2	15.3	13.4	14.6	10.7	19.3	11.4	15.6	9.7	9.7
Polk	8.4	10.6	7.2	9.5	9.4	10.6	8.5	11.8	7.3	10.7	5.8	5.5
Pottawattamie	9.6	12.6	7.6	12.2	10.9	12.9	8.9	15.3	8.3	12.3	6.3	7.7
Poweshiek	11.6	13.5	10.8	10.8	12.5	12.3	12.0	14.3	10.7	14.7	9.6	5.8
Ringgold	24.7	30.6	21.8	25.4	26.2	30.7	22.7	29.4	23.1	30.4	20.9	19.8
Sac	10.7	13.6	8.4	13.2	11.4	12.5	8.8	16.8	10.0	14.7	8.0	8.2
Scott	7.9	9.6	6.6	10.5	9.1	10.4	8.0	12.2	6.6	8.8	5.3	7.9
Shelby	12.6	15.9	10.9	11.5	13.0	14.4	12.5	12.2	12.2	17.4	9.5	10.6
Sioux	10.4	12.9	8.5	12.0	11.5	13.5	9.2	15.6	9.2	12.3	7.7	6.9
Story	12.2	8.5	14.1	8.7	12.0	8.9	13.4	10.5	12.4	8.2	14.7	5.9
Tama	11.2	11.7	9.6	15.6	12.7	13.4	10.4	18.6	9.6	10.1	8.9	11.4
Taylor	17.8	23.7	15.7	16.1	18.2	21.1	15.4	21.8	17.4	26.0	15.9	7.9
Union	13.4	13.6	12.0	18.0	14.9	13.2	13.4	21.2	11.9	14.0	10.4	13.2
Van Buren	19.6	23.6	16.7	22.1	20.2	22.4	17.6	24.5	19.1	24.6	15.8	19.2
Vapello	10.2	13.0	8.0	13.4	12.3	12.9	10.0	18.5	7.9	13.1	5.8	5.9
Warren	6.6	6.7	5.4	14.4	7.4	6.8	6.0	17.6	5.8	6.7	4.7	9.9
Washington	13.0	18.1	10.2	13.7	14.5	18.9	11.4	17.0	11.5	17.4	9.0	8.9
Wayne	18.8	21.8	16.5	21.2	19.5	19.3	17.6	23.6	18.1	24.0	15.2	18.1
Webster	9.4	11.8	8.0	10.2	10.7	11.3	9.6	13.8	7.9	12.2	6.3	5.0
Winnebago	7.3	7.8	5.0	13.9	8.3	8.1	5.5	16.7	6.1	7.4	4.5	9.9
Winneshiak	13.5	16.9	11.3	14.9	13.8	15.5	11.5	18.2	13.2	18.3	11.1	10.4
Woodbury	11.4	15.0	9.2	13.3	13.2	16.1	11.0	16.3	9.4	13.8	7.2	8.6
Worth	8.5	11.3	6.6	10.4	9.7	9.7	8.0	14.5	7.4	12.7	5.3	5.2
Wright	10.3	12.5	8.0	14.3	12.3	12.5	10.0	18.4	8.2	12.5	6.0	8.4
State of Iowa	10.1	11.8	8.6	13.3	11.4	12.0	9.8	16.4	8.9	11.7	7.4	8.7

Higher percentages of females than males were in poverty no matter what age category or year was examined. The difference was smallest among those under the age of 18 (a tenth of a percentage point in 1989 and three-tenths in 1979), indicating that poverty is least likely to be related to gender in this age category. The largest gap occurred for those 65 years of age or older. In 1979, 16.4% of females and 8.7% of males age 65 or older were below the poverty threshold; although both percentages declined to 1989, the difference remained about the same (14.3% of females and 6.7% of males in poverty). Thus, the poverty rate among older women was twice that for older men. In numerical terms, the differences were even more striking, with about three older females in poverty for every older male in 1989 (Table 1). Because of greater longevity among females than males, and because poverty is more likely to occur in advanced age, poverty continues to be an issue of greater concern among females 65 years of age and older than among their male counterparts.

County Trends

For Iowa's counties in 1989, the number of persons below the poverty level varied from 699 (Osceola) to 29,364 (Polk). Ten counties had fewer than 1,000 while seven counties had 10,000 or more. Percentages of persons in poverty were below the state's 11.5% in about half the counties (48). Forty-nine counties were above the state's percentage while two counties were the same as the state. Dallas, Jasper, and Warren were the only counties with 1989 rates below 8.0%; figures of 20% or higher occurred in Appanoose and Decatur.

Poverty rates differed by sex and by age across Iowa's 99 counties. In 1989, females had higher rates in all counties except Story, where the percentage for males was 1.7 points higher than that for females. Of the remaining 98, gaps of 4.0 or more percentage points were noted in 22 counties, six of which (Audubon, Decatur, Fayette, Greene, Monona, Sac) reported rates for females at least 5.0 points higher than those for males.

For those under the age of 18 in 1989, 49 counties had higher poverty rates for males while 48 had higher rates for females. Among those in the middle category (18-64 years old), only two counties (Story, Van Buren) had higher percentages of males than females below the poverty threshold; 27 counties had female rates at least 4.0 points above those for males. All counties reported higher poverty rates among females 65 years of age or older than males in this age group, with the gender differences more pronounced here than for the younger two age categories. Twenty counties had poverty rates at least 10.0 points higher among older females than males.

Among females, 63 counties had increases in the percentage in poverty while 34 had decreases between 1979 and 1989. For males, however, relatively similar numbers had gains (53) and declines (45). Nearly identical numbers of counties had increases across the decade in poverty rates in the under 18 age group regardless of gender (females, 60 counties; males, 61 counties). A somewhat higher number of counties had increases in poverty percentages for those 18-64 among females (69) than males (52). In contrast to the two younger age groups, for which poverty rates increased in a majority of counties, the oldest group experienced declines in poverty rates in about three-quarters of the counties for both females (72 counties) and males (78 counties).

Note: Additional information on poverty numbers and percentages (especially on families) was included in the 1992 edition of this publication.

Place of Work in Iowa's Counties: 1960-1990

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The U.S. Bureau of the Census compares locations of residence and work as part of the decennial population census. In 1990, those at work were categorized as living and working in the county, living in one county but working in another one in Iowa, or living in an Iowa county but working in another state (Table 1). In the 1960-1980 censuses, the categories were worked in county of residence, worked out of county of residence, and work place not reported (Tables 1, 2). For the 1990 census, when place of work was not reported, a work location was allocated to the person based on that individual's means of transportation to work, travel time to work, industry, and location of residence and workplace of others. For the 1980 and earlier censuses, nonresponses were not allocated, resulting in the use of the "not reported" category. Because of these differences, caution must be taken when comparing the 1990 results with those for previous years. Any apparent increase in the magnitude of the gross numbers may be due solely to the fact that for 1990 the "not reported" cases have been distributed among specific place-of-work destinations instead of tallied in a separate category as in 1980 and earlier.

Questions on place of work were included on the census bureau's long form, which was completed in a sample of housing units. In 1990, that sample was based on one of every two housing units in incorporated places with fewer than 2,500 residents; in other areas (incorporated places with at least 2,500 residents and open country areas of all Iowa counties) one of every six housing units was sampled. In densely settled urban areas, the rate was raised to 1-in-8 housing units. For persons living in group quarters, the sampling unit was the person; persons in group quarters were sampled at a 1-in-8 rate. In general, the sampling rate selected about one of every six housing units or persons in group quarters in Iowa. The results were weighted to represent the total population of counties and the state.

State Data

Of Iowa's 1.3 million workers in 1990, nearly 1.1 million worked in the same county in which they lived (Table 1). Both of these numbers were higher than those reported in earlier censuses (Tables 1, 2). The percentage working in the county of residence decreased steadily from 1960 (92.3%) to 1990 (82.9%) (Table 3). Still, four of every five workers in Iowa lived in the county in which they were employed as of 1990. Only 56,000 Iowans worked out of state as of the most recent census; that number represents 4.2% of the total workers residing in Iowa.

County Data

Some counties had substantially higher percentages working in the county in which they lived than the figures for the state as a whole. In each of the censuses, for example, about 97% of the workers living in Polk County worked there as well; at least 90% of workers resided in the counties in which they worked in each census from 1960 to 1990 in 10 other counties (Black Hawk, Buena Vista, Carroll, Cass, Cerro Gordo, Des Moines, Dubuque, Linn, Marshall, Webster) (Figure 1). On the other hand, 10 (Benton, Butler, Cedar, Dallas, Guthrie, Louisa, Madison, Pottawattamie, Warren, Worth) reported percentages below 60 in 1990; less than three of every five residents worked in their home counties. The lowest percentages occurred in Warren (34.9%) and Dallas (48.2%); in these and most of the other counties with relatively low percentages, an urban center in a nearby county serves as the work location.

Table 1. Place of Work in Iowa Counties, 1980-1990.

County	1990				1980			
	Total Workers	Worked In County	Worked Out of County	Worked Out of State	Total Workers	Worked In County	Worked Out of County	Work Place Not Reported
Adair	3831	2832	975	24	3926	3034	597	295
Adams	2284	1798	454	32	2724	2081	467	176
Allamakee	6447	5399	618	430	6303	5278	665	360
Appanoose	5581	4803	698	80	5642	4671	638	333
Audubon	3339	2677	642	20	3433	2777	430	226
Benton	10139	5627	4487	25	10119	5975	3480	664
Black Hawk	55582	52884	2473	225	60975	56197	1668	3110
Boone	11638	7410	4177	51	11186	7281	3284	621
Bremer	10695	7669	2974	52	10088	6515	2954	619
Buchanan	8613	5713	2863	37	8776	5889	2422	465
Buena Vista	9479	8614	824	41	9267	7875	745	647
Butler	6819	4032	2754	33	7140	4446	2208	486
Calhoun	4725	3517	1157	51	5046	3286	1215	545
Carroll	9721	9036	669	16	10321	8062	513	1746
Cass	6784	6150	475	159	7554	6611	508	435
Cedar	8437	4838	3423	176	8190	4852	2938	400
Cerro Gordo	22541	20966	1432	143	21750	17360	1715	2675
Cherokee	6322	5668	628	26	7106	6132	409	565
Chickasaw	5958	4524	1397	37	6131	4621	1199	311
Clarke	3718	2967	706	45	3487	2769	598	120
Clay	8382	7414	867	101	8625	7698	410	517
Clayton	8471	6691	1425	355	8702	6895	1216	591
Clinton	22781	18398	2447	1936	25041	20730	3022	1289
Crawford	7658	6754	805	99	7836	7026	474	336
Dallas	14824	7143	7565	116	13060	6631	5601	828
Davis	3517	2496	943	78	3461	2389	674	398
Decatur	3563	2794	665	104	3654	2775	545	334
Delaware	8110	5993	2089	28	7802	6078	1402	322
Des Moines	19894	18186	1425	283	20713	18320	1340	1053
Dickinson	6936	5801	831	304	6726	5307	1071	348
Dubuque	41584	39639	959	986	41493	38227	1511	1755
Emmet	5015	4031	642	342	5668	4948	424	296
Fayette	9529	7732	1706	91	10686	8388	1449	849
Floyd	7780	6010	1720	50	8230	6134	1364	732
Franklin	5155	3981	1159	15	5227	3931	968	328
Fremont	3524	2327	733	464	3868	2356	1189	323
Greene	4473	3550	875	48	5095	4269	556	270
Grundy	5348	3386	1946	16	5891	3675	1926	290
Guthrie	4882	2759	2101	22	4582	3135	1147	300
Hamilton	7633	6166	1453	14	7825	5929	1254	642
Hancock	5725	4232	1454	39	5784	4629	898	257
Hardin	8414	7226	1120	68	9219	7691	953	575
Harrison	6636	4029	929	1678	6536	4760	1486	290
Henry	9014	7429	1493	92	8105	6012	1368	725
Howard	4222	3434	465	323	4526	3828	547	151
Humboldt	4588	3631	938	19	5043	3944	641	458
Ida	3659	3242	388	29	3723	2860	279	584
Iowa	7352	5653	1679	20	7340	5973	1088	279
Jackson	8869	6462	2056	351	9142	6289	2452	401
Jasper	16599	12133	4412	54	16126	12513	2708	905

Table 1. Place of Work in Iowa Counties, 1980-1990 (continued).

County	1990				1980			
	Total Workers	Worked In County	Worked Out of County	Worked Out of State	Total Workers	Worked In County	Worked Out of County	Work Place Not Reported
Jefferson	7847	6892	907	48	7468	6600	575	293
Johnson	53410	47907	5120	383	41934	34656	4458	2820
Jones	8577	6107	2384	86	8395	6058	1773	564
Keokuk	4892	3229	1635	28	4981	3528	1229	224
Kossuth	8084	7002	890	192	8634	7932	442	260
Lee	16770	14593	1676	501	18038	15884	1192	962
Linn	86550	81126	4893	531	82032	75029	2646	4357
Louisa	5275	2935	2287	53	5022	2764	2048	210
Lucas	3895	3173	712	10	4459	3716	439	304
Lyon	5294	4009	623	662	5318	4230	849	239
Madison	5886	3149	2709	28	5080	3195	1611	274
Mahaska	9779	7069	2626	84	9302	6979	1901	422
Marion	14302	11944	2318	40	12527	10057	1657	813
Marshall	18396	16640	1657	99	18946	17364	716	866
Mills	5998	3655	949	1394	5655	3985	1213	457
Mitchell	4819	3794	769	256	4788	3619	760	409
Monona	4104	3193	699	212	4666	3630	622	414
Monroe	3361	2304	1030	27	3989	2893	811	285
Montgomery	5625	4789	665	171	5503	4560	432	511
Muscatine	18869	16025	2378	466	17648	14135	2248	1265
O'Brien	6902	5794	1040	68	6789	5448	850	491
Osceola	3301	2484	455	362	3554	2678	537	339
Page	7562	6432	998	132	8303	6945	755	603
Palo Alto	4569	3690	821	58	5255	4074	777	404
Plymouth	10877	8196	2390	291	9987	7565	1662	760
Pocahontas	4085	3468	601	16	4356	3597	503	256
Polk	173353	167732	4643	978	147708	132048	3396	12264
Pottawattamie	39784	22515	927	16342	37981	21385	14297	2299
Poweshiek	9050	7810	1165	75	8005	6972	613	420
Ringgold	2357	1843	459	55	2558	2170	279	109
Sac	5391	4134	1243	14	5693	4586	802	305
Scott	71739	54429	1873	15437	72181	52635	14205	5341
Shelby	5902	4948	764	190	5987	4861	681	445
Sioux	14418	12818	1199	401	12609	10963	992	654
Story	38909	34484	4280	145	33973	29705	2519	1749
Tama	7628	5207	2382	39	7779	5801	1504	474
Taylor	2933	2042	793	98	3451	2562	766	123
Union	5590	4964	530	96	5549	4989	270	290
Van Buren	3381	2146	1211	24	3301	2119	936	246
Wapello	15032	13019	1869	144	15704	13323	1346	1035
Warren	18677	6525	12090	62	16152	6223	8942	987
Washington	9532	6658	2818	56	8864	6562	1811	491
Wayne	2983	2376	549	58	3118	2665	276	177
Webster	17865	16199	1598	68	19989	17449	917	1623
Winnebago	5531	4854	479	198	5427	4564	462	401
Winneshiek	10408	9213	914	281	9256	7943	911	402
Woodbury	45725	39581	1212	4932	43597	37014	3992	2591
Worth	3577	2085	1311	181	3784	2064	1564	156
Wright	6480	5592	861	27	6448	5438	718	292
State of Iowa	1322064	1096619	169518	55927	1280636	1034214	163521	82901

Table 2. Place of Work in Iowa Counties, 1960-1970.

County	1970				1960			
	Total Workers	Worked In County	Worked Out of County	Work Place Not Reported	Total Workers	Worked In County	Worked Out of County	Work Place Not Reported
Adair	3925	3275	381	269	4072	3672	288	112
Adams	2374	2011	253	110	2848	2569	154	125
Allamakee	5685	4918	448	319	5749	5425	235	89
Appanoose	5164	4376	487	301	4953	4299	328	326
Audubon	3650	2992	497	161	3875	3613	166	96
Benton	8449	5873	2041	535	8022	6421	1430	171
Black Hawk	50082	46342	1587	2153	43600	41470	1004	1126
Boone	9837	6968	2373	496	9200	7290	1537	373
Bremer	8498	6680	1582	236	7944	6988	789	167
Buchanan	7745	5516	1853	376	7503	6252	1122	129
Buena Vista	7707	6823	529	355	7585	6964	405	216
Butler	5743	3991	1446	306	5768	4880	767	121
Calhoun	4935	3855	747	333	5263	4562	598	103
Carroll	8222	7232	462	528	7939	7275	312	352
Cass	6628	5958	424	246	6747	6256	316	175
Cedar	6708	4467	1709	532	6394	5449	870	75
Cerro Gordo	19303	17065	1187	1051	18208	17045	702	461
Cherokee	6434	5838	272	324	6263	5967	240	56
Chickasaw	4954	3809	884	261	5130	4441	575	114
Clarke	2948	2345	438	165	2917	2536	207	174
Clay	7079	6405	320	354	6490	5846	267	377
Clayton	7519	6098	1193	228	7682	6917	523	242
Clinton	22290	18904	2350	1036	19769	17966	1395	408
Crawford	7195	6364	485	346	6186	5728	235	223
Dallas	10681	6625	3366	690	8929	6814	1921	194
Davis	2926	2294	515	117	3440	2932	395	113
Decatur	3313	2864	357	92	3519	3141	227	151
Delaware	6312	5111	1088	113	6674	5932	687	55
Des Moines	19254	17279	845	1130	17341	15908	466	967
Dickinson	4930	4165	531	234	4531	4008	360	163
Dubuque	33402	30720	1222	1460	28225	26544	623	1058
Emmet	4892	4298	321	273	4819	4572	216	31
Fayette	9605	7600	1286	719	9991	8995	732	264
Floyd	6924	5974	672	278	7677	7035	446	196
Franklin	5099	4135	581	383	5756	5284	383	89
Fremont	3601	2560	892	149	3783	2877	738	168
Greene	4853	4282	406	165	4815	4461	291	63
Grundy	5170	3688	1211	271	5291	4751	490	50
Guthrie	4607	3329	954	324	4792	4173	487	132
Hamilton	7237	5983	1048	206	7271	6735	432	104
Hancock	4895	3905	711	279	5131	4603	384	144
Hardin	8483	7272	781	430	7925	7393	448	84
Harrison	6161	4383	1370	408	5963	5155	696	112
Henry	7420	5827	1313	280	6503	5271	805	427
Howard	4085	3533	433	119	4610	4134	337	139
Humboldt	4586	3754	574	258	4610	4123	370	117
Ida	3579	3218	222	139	3441	3262	121	58
Iowa	6375	5221	698	456	6175	5741	339	95
Jackson	7945	6062	1626	257	7350	6112	639	599
Jasper	14179	11601	1405	1173	13206	12046	707	453

Table 2. Place of Work in Iowa Counties, 1960-1970 (continued).

County	1970				1960			
	Total Workers	Worked In County	Worked Out of County	Work Place Not Reported	Total Workers	Worked In County	Worked Out of County	Work Place Not Reported
Jefferson	6164	5077	612	475	5958	5409	385	164
Johnson	30564	26043	2504	2017	21448	19774	1047	627
Jones	7260	5645	1261	354	7042	5764	849	429
Keokuk	5018	3816	906	296	5268	4632	529	107
Kossuth	8248	7229	662	357	8546	8044	323	179
Lee	15816	13479	1493	844	15287	14109	624	554
Linn	65470	59328	2303	3839	54528	50762	1194	2572
Louisa	3983	2465	1182	336	3756	3059	597	100
Lucas	3780	3055	467	258	3852	3345	332	175
Lyon	4694	4003	534	157	4836	4466	294	76
Madison	4476	3169	991	316	4433	3696	683	54
Mahaska	8156	6684	911	561	8795	7675	837	283
Marion	10044	7742	1601	701	8437	7143	1109	185
Marshall	16414	14833	689	892	14251	13560	423	268
Mills	4348	3407	796	145	4134	3522	520	92
Mitchell	4610	3817	635	158	4825	4382	293	150
Monona	4201	3425	394	382	4535	4122	316	97
Monroe	3289	2301	656	332	3424	2612	645	167
Montgomery	4727	4112	364	251	5315	4937	265	113
Muscatine	14474	12031	1712	731	12366	10416	1517	433
O'Brien	6215	5366	544	305	6214	5740	390	84
Osceola	2762	2405	189	168	3331	3047	189	95
Page	7507	6191	891	425	8011	7479	348	184
Palo Alto	4609	3604	514	491	4808	4390	319	99
Plymouth	8777	6788	1477	512	8055	6979	891	185
Pocahontas	4261	3540	519	202	4863	4350	284	229
Polk	120708	109140	3520	8048	105461	97890	2976	4595
Pottawattamie	33051	18435	12746	1870	30296	19008	10452	836
Poweshiek	7832	6528	739	565	6847	5989	526	332
Ringgold	2556	2181	196	179	2568	2427	91	50
Sac	5567	4845	399	323	5609	5236	273	100
Scott	54315	40775	10725	2815	44540	35462	6577	2501
Shelby	5704	4993	462	249	5258	4850	229	179
Sioux	9963	8489	682	792	8661	8139	304	218
Story	26034	22208	2383	1443	19131	17386	1222	523
Tama	7280	5571	1347	362	7141	6340	687	114
Taylor	3352	2765	462	125	3608	3237	306	65
Union	5000	4307	387	306	4780	4311	227	242
Van Buren	3107	2171	684	252	3595	3059	491	45
Wapello	14462	12702	931	829	16064	14914	538	612
Warren	10710	4718	5471	521	7251	4635	2493	123
Washington	6941	5371	1227	343	7167	6374	637	156
Wayne	3065	2484	371	210	3554	3288	139	127
Webster	18492	16916	647	929	17149	16217	398	534
Winnebago	5156	4360	601	195	4625	4233	286	106
Winneshiek	8172	7417	500	255	7985	7498	383	104
Woodbury	38590	34024	2621	1945	39337	35992	1336	2009
Worth	3214	1926	1068	220	3649	3140	433	76
Wright	6143	5082	760	301	6594	6039	422	133
State of Iowa	1082869	900751	122112	60006	999063	890911	74834	33318

Table 3. Percentage Worked in County in Iowa Counties, 1960-1990.

County	1990	1980 ^a	1970 ^a	1960 ^a	County	1990	1980 ^a	1970 ^a	1960 ^a
Adair	73.9	83.6	89.6	92.7	Jefferson	87.8	92.0	89.2	93.4
Adams	78.7	81.7	88.8	94.3	Johnson	89.7	88.6	91.2	95.0
Allamakee	83.7	88.8	91.7	95.8	Jones	71.2	77.4	81.7	87.2
Appanoose	86.1	88.0	90.0	92.9	Keokuk	66.0	74.2	80.8	89.8
Audubon	80.2	86.6	85.8	95.6	Kossuth	86.6	94.7	91.6	96.1
Benton	55.5	63.2	74.2	81.8	Lee	87.0	93.0	90.0	95.8
Black Hawk	95.1	97.1	96.7	97.6	Linn	93.7	96.6	96.3	97.7
Boone	63.7	68.9	74.6	82.6	Louisa	55.6	57.4	67.6	83.7
Bremer	71.7	68.8	80.9	89.9	Lucas	81.5	89.4	86.7	91.0
Buchanan	66.3	70.9	74.9	84.8	Lyon	75.7	83.3	88.2	93.8
Buena Vista	90.9	91.4	92.8	94.5	Madison	53.5	66.5	76.2	84.4
Butler	59.1	66.8	73.4	86.4	Mahaska	72.3	78.6	88.0	90.2
Calhoun	74.4	73.0	83.8	88.4	Marion	83.5	85.9	82.9	86.6
Carroll	93.0	94.0	94.0	95.9	Marshall	90.5	96.0	95.6	97.0
Cass	90.7	92.9	93.4	95.2	Mills	60.9	76.7	81.1	87.1
Cedar	57.3	62.3	72.3	86.2	Mitchell	78.7	82.6	85.7	93.7
Cerro Gordo	93.0	91.0	93.5	96.0	Monona	77.8	85.4	89.7	92.9
Cherokee	89.7	93.7	95.5	96.1	Monroe	68.6	78.1	77.8	80.2
Chickasaw	75.9	79.4	81.2	88.5	Montgomery	85.1	91.3	91.9	94.9
Clarke	79.8	82.2	84.3	92.5	Muscatine	84.9	86.3	87.5	87.3
Clay	88.5	94.9	95.2	95.6	O'Brien	83.9	86.5	90.8	93.6
Clayton	79.0	85.0	83.6	93.0	Osceola	75.2	83.3	92.7	94.2
Clinton	80.8	87.3	88.9	92.8	Page	85.1	90.2	87.4	95.6
Crawford	88.2	93.7	92.9	96.1	Palo Alto	80.8	84.0	87.5	93.2
Dallas	48.2	54.2	66.3	78.0	Plymouth	75.4	82.0	82.1	88.7
Davis	71.0	78.0	81.7	88.1	Pocahontas	84.9	87.7	87.2	93.9
Decatur	78.4	83.6	88.9	93.3	Polk	96.8	97.5	96.9	97.0
Delaware	73.9	81.3	82.4	89.6	Pottawattamie	56.6	59.9	59.1	64.5
Des Moines	91.4	93.2	95.3	97.2	Poweshiek	86.3	91.9	89.8	91.9
Dickinson	83.6	83.2	88.7	91.8	Ringgold	78.2	88.6	91.8	96.4
Dubuque	95.3	96.2	96.2	97.7	Sac	76.7	85.1	92.4	95.0
Emmet	80.4	92.1	93.1	95.5	Scott	75.9	78.7	79.2	84.4
Fayette	81.1	85.3	85.5	92.5	Shelby	83.8	87.7	91.5	95.5
Floyd	77.2	81.8	89.9	94.0	Sioux	88.9	91.7	92.6	96.4
Franklin	77.2	80.2	87.7	93.2	Story	88.6	92.2	90.3	93.4
Fremont	66.0	66.5	74.2	79.6	Tama	68.3	79.4	80.5	90.2
Greene	79.4	88.5	91.3	93.9	Taylor	69.6	77.0	85.7	91.4
Grundy	63.3	65.6	75.3	90.7	Union	88.8	94.9	91.8	95.0
Guthrie	56.5	73.2	77.7	89.5	Van Buren	63.5	69.4	76.0	86.2
Hamilton	80.8	82.5	85.1	94.0	Wapello	86.6	90.8	93.2	96.5
Hancock	73.9	83.8	84.6	92.3	Warren	34.9	41.0	46.3	65.0
Hardin	85.9	89.0	90.3	94.3	Washington	69.8	78.4	81.4	90.9
Harrison	60.7	76.2	76.2	88.1	Wayne	79.7	90.6	87.0	95.9
Henry	82.4	81.5	81.6	86.8	Webster	90.7	95.0	96.3	97.6
Howard	81.3	87.5	89.1	92.5	Winnebago	87.8	90.8	87.9	93.7
Humboldt	79.1	86.0	86.7	91.8	Winneshiek	88.5	89.7	93.7	95.1
Ida	88.6	91.1	93.5	96.4	Woodbury	86.6	90.3	92.8	96.4
Iowa	76.9	84.6	88.2	94.4	Worth	58.3	56.9	64.3	87.9
Jackson	72.9	71.9	78.9	90.5	Wright	86.3	88.3	87.0	93.5
Jasper	73.1	82.2	89.2	94.5					
					State of Iowa	82.9	86.3	88.1	92.3

^aPercentages are based on those reporting location of place of work.

Major changes occurred between 1960 and 1990. At the beginning of the period, 70 counties had at least 90% of their employed residents living and working there; 30 years later, only 11 counties could make that claim. The percentages living and working in the same county were lower in 1990 than in 1960 in all counties. Sixty-five of Iowa's 99 counties mirrored the state's trend of declining percentages working in the county in which they resided from each census to the next. Eighteen of these counties more than doubled the state's decline of about 10 points in the percentage living and working in the same county from 1960 to 1990. Guthrie, Madison, and Warren reported percentages working in the county in which they lived that were at least 30 points lower in 1990 than in 1960. Yet, twelve counties declined by fewer than five percentage points from 1960 to 1990; of these, all but Polk dropped by at least two points (Figure 2).

Although people living in Iowa but employed in other states constituted less than 5% of those working, the percentages were at least 10% in some border counties in 1990. In Pottawattamie, for example, 41.1% of the workers living there worked in another state, most likely across the Missouri River in the Omaha, Nebraska, area; many of the 25.3% from Harrison, 23.2% from Mills, and 10.8% from Woodbury working out of state undoubtedly worked in Nebraska as well. While the 13.1% living in Fremont but working in another state were employed in Nebraska and Missouri, the 12.5% living in Lyon but working in another state went to Minnesota or South Dakota. Those in Osceola may take advantage of close proximity to Minnesota; 11.0% of the residents of this county who work were employed in another state. The only county with at least 10% working out of state that was not in western Iowa was Scott, which is on the eastern border. About 21.5% of the workers living in Scott worked out of state, with most employed in the Rock Island-Moline area across the Mississippi River in Illinois.

Note: Information on whether people worked in the incorporated place in which they were living as of 1990 is available for all places in Iowa. These data are reported on page 2 of computer-generated reports entitled "1990 Census of Population and Housing, Summary Tape File 3A, Name of Place." They are available for all incorporated places in a county at the county's Extension office. Contact the authors of this county data book (phone number on the inside front cover) for more information if data are required for large numbers of incorporated places.

Figure 1. Percentage working in county of residence, 1990.

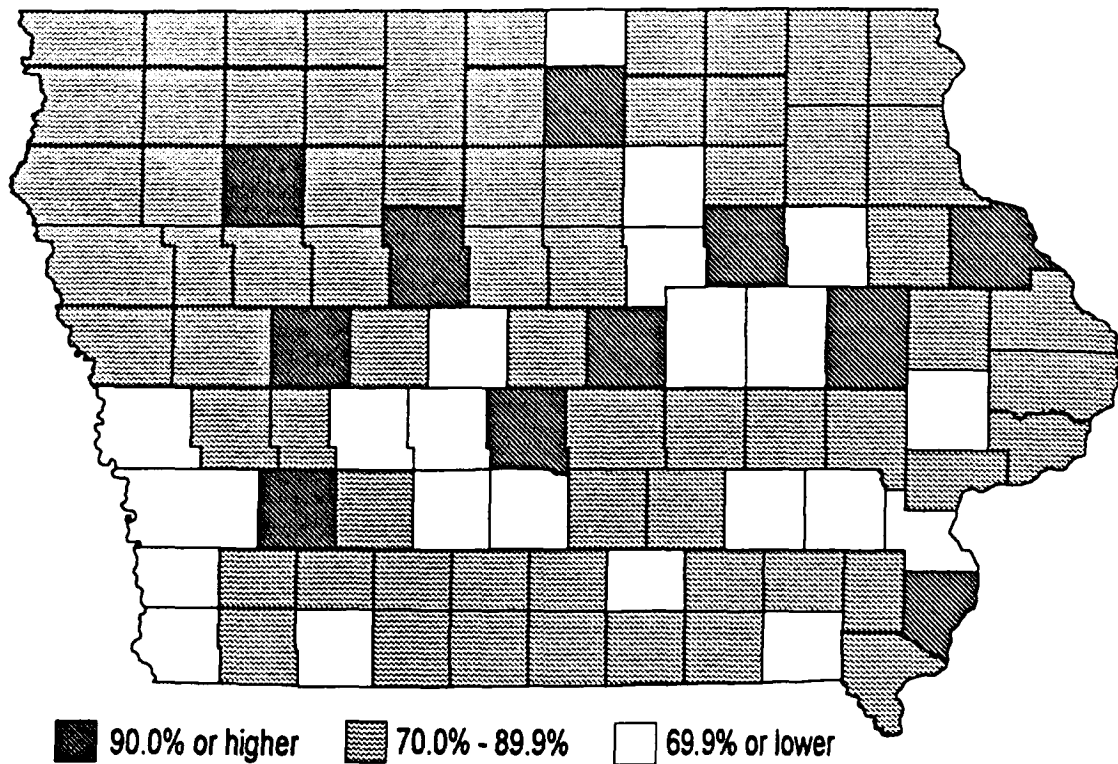
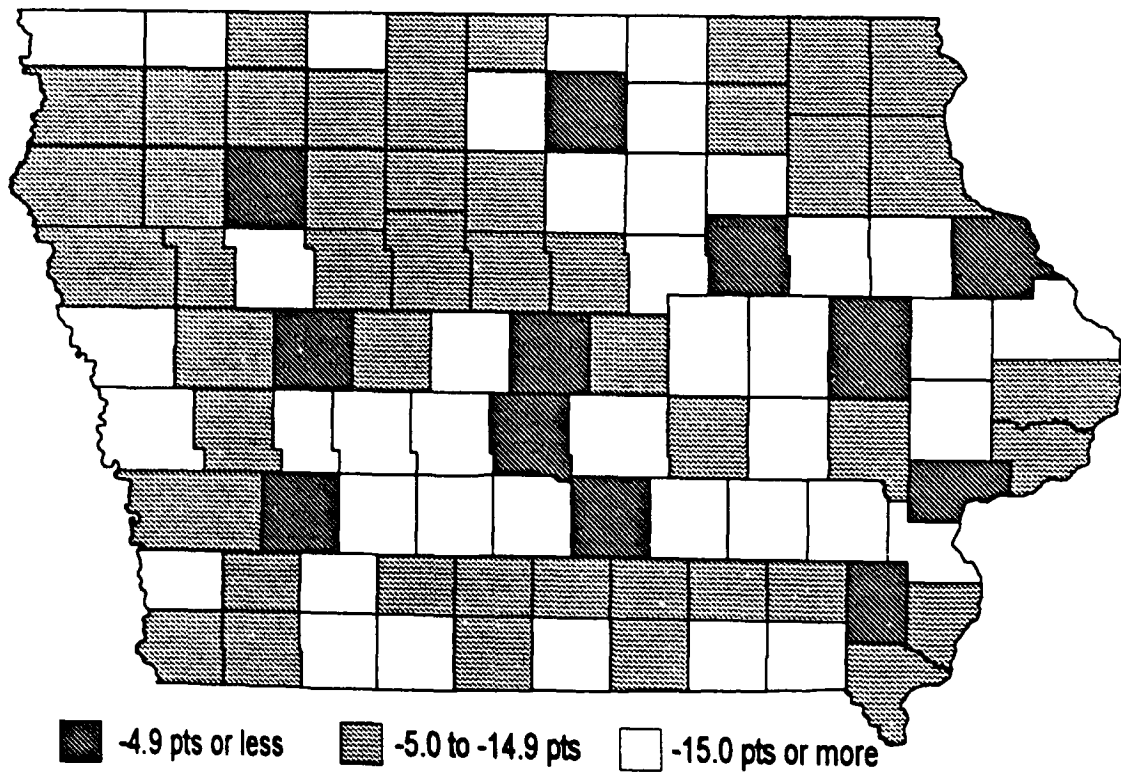


Figure 2. Percentage-point change in working in county of residence, 1960-1990.



Estimated Church Membership in Selected Denominations in Iowa's Counties: 1971, 1980, 1990

Willis Goudy, Iowa State University

The Glenmary Research Center, in cooperation with the research arms of several religious groups, gathered information on church membership throughout the United States three times in the last 20 years. Most recently, 133 church bodies participated in 1990; in the 1980 study, 111 organizations provided data, while 53 cooperated in 1971. Each participating body provided data on its members in accordance with specifications set by the center.

Information was requested on the location of churches by counties across the nation. Thus, the number of members reported for Iowa counties in Tables 1, 2, and 3 must be interpreted with caution. Denominations listed the county in which a church was located rather than where a member lived. In most instances, especially in urban areas, members lived in the same counties in which their churches were located. Zeros in the tables indicate the absence of a church of a particular denomination but not necessarily the absence of members of that denomination.

Additional cautions are in order. For example, the numbers listed in the tables refer to adherents of particular denominations. Some denominations, including the Presbyterian Church (USA), United Church of Christ, United Methodist Church, and United Presbyterian Church in the U.S.A. listed in the tables, provided numbers of communicant, confirmed, or full members; in such instances, a weighting procedure taking account of members under the age of 14 was employed by the Glenmary Research Center to estimate the number of adherents (communicant, confirmed, or full members plus an estimate of those too young to be in these categories) of these denominations.

Judeo-Christian church bodies were asked to participate. Not all denominations provided data, of course. Also, only a few relatively large churches not connected to denominational bodies were contacted. Thus, the numbers reported in the tables should be treated as estimates; they probably represent an undercount of actual church adherents.

Estimated Church Members in the State

In Iowa, churches gained 21,000 adherents from 1971 to 1980, a period when the population of the state grew by 88,000. From 1980 to 1990, Iowa's population declined by 137,000 and church membership dropped by 103,000. Seven denominations had at least 50,000 adherents in 1990 (Table 1). Eight were close to or above that level in 1980 (Table 2) and 1971 (Table 3).

More than a half-million Catholics were counted in each period. The number increased by nearly 11,000 from 1971 to 1980 although it declined by 19,000 from 1980 to 1990. Of the separate denominations reported in the tables, the United Methodists had the next highest totals; 371,000 Methodists were listed in 1971, although they declined by 54,000 between the first two periods and by 44,000 between the last two. In 1990, the Evangelical Lutheran Church in America (265,000) reported nearly as many adherents as did the United Methodist Church (272,000). Two of the bodies (American Lutheran Church, Lutheran Church in America) that were part of the formation of the Evangelical Lutheran Church in America reported relatively large numbers in 1971 and 1980; together, these Lutheran groups decreased slightly (-8,000) between 1971 and 1980 and by a somewhat larger figure (-19,000) between 1980 and 1990. Substantial declines across the three censuses also occurred among Presbyterians (1971-1980: -15,000, 1980-1990: -20,000), who numbered 121,000 in 1971. But membership in the Christian Church (Disciples of Christ) (49,000 to 55,000 to 51,000), Lutheran Church--

Table 1. Estimated church membership in selected denominations in Iowa counties, 1990.^a

County	Church Members	Catholic	Christian Church (Disciples of Christ)	Evangelical Lutheran Church in America	Lutheran Church-- Missouri Synod	Presbyterian Church (USA)	United Church of Christ	United Methodist Church	Other Church
Adair	5912	1327	65	923	741	321	118	2224	193
Adams	2463	500	380	157	262	256	0	831	77
Allamakee	12256	5236	0	3458	0	1484	1126	695	257
Appanoose	6508	1634	1025	275	0	132	0	1336	2106
Audubon	5789	848	285	2709	423	427	98	936	63
Benton	14180	3951	785	539	4607	1236	281	2206	575
Black Hawk	76224	25633	782	13432	5155	4403	1554	8531	16734
Boone	14584	2752	923	2401	1818	434	422	3045	2789
Bremer	18423	2725	0	7918	2577	0	1939	2531	733
Buchanan	15335	7257	0	1950	492	1013	210	2563	1850
Buena Vista	15490	2781	0	3728	2917	1258	484	3015	1307
Butler	12154	942	0	3477	173	816	1307	1841	3598
Calhoun	9792	1793	476	2303	1504	535	382	2155	644
Carroll	19958	13363	247	529	2643	847	0	2053	276
Cass	12044	2029	753	1181	1600	510	1109	2827	2035
Cedar	9813	1765	0	1268	988	279	2579	2156	778
Cerro Gordo	29696	7617	442	9321	1258	637	607	5809	4005
Cherokee	11725	3371	21	1149	2131	785	183	2790	1295
Chickasaw	10461	4494	0	2489	272	0	737	1182	1287
Clarke	3634	350	687	0	341	41	0	1146	1069
Clay	11997	2373	378	2592	1482	0	181	3048	1943
Clayton	15057	5439	0	6260	346	0	974	1709	329
Clinton	29733	11069	0	4387	3380	951	2019	3049	4878
Crawford	13971	3752	0	187	6149	1058	785	1249	791
Dallas	16085	4161	1694	1282	1338	572	0	4823	2215
Davis	3426	90	1210	126	0	0	0	1095	905
Decatur	2243	250	60	0	122	122	0	653	1036
Delaware	13271	7678	0	1527	591	403	382	2362	328
Des Moines	23886	7042	911	3113	155	1009	1757	3564	6335
Dickinson	9683	2522	0	1621	1098	983	287	2617	555
Dubuque	61248	49669	0	3115	1398	1681	1553	2106	1726
Emmet	9489	1738	377	3569	903	1099	0	1360	443
Fayette	17850	5391	0	5441	940	1207	0	2861	2010
Floyd	10306	2793	263	2652	0	213	652	2718	1015
Franklin	8596	1004	222	1466	1087	0	1085	2392	1340
Fremont	4402	866	0	0	112	405	360	1638	1021
Greene	7717	1674	700	82	684	435	0	3014	1128
Grundy	9220	256	0	1367	424	1487	825	2144	2717
Guthrie	5773	1107	516	0	926	116	0	2313	795
Hamilton	12346	2214	125	3756	687	141	964	2642	1817
Hancock	10128	2232	0	1647	1044	322	919	2542	1422
Hardin	14398	1234	675	1330	2455	501	2395	3360	2448
Harrison	8476	2443	298	813	960	238	0	1788	1936
Henry	9316	1265	0	569	401	896	253	2931	3001
Howard	8865	5087	0	2195	187	52	89	1174	81
Humboldt	8804	1381	0	3117	999	0	503	2221	583
Ida	6926	1184	0	903	2106	757	0	1622	354
Iowa	9846	2300	268	219	3748	776	231	1703	601
Jackson	10867	4494	0	3842	143	526	480	1024	358
Jasper	18621	2770	1376	1255	404	1137	1388	3934	6357

^aZeros indicate the absence of a church in a county but not necessarily the absence of adherents.

Table 1. Estimated church membership in selected denominations in Iowa counties, 1990 (continued).^a

County	Church Members	Catholic	Christian Church (Disciples of Christ)	Evangelical Lutheran Church in America	Lutheran Church-- Missouri Synod	Presbyterian Church (USA)	United Church of Christ	United Methodist Church	Other Church
Jefferson	7120	1364	759	941	193	462	66	1667	1668
Johnson	35552	13559	233	3805	1358	2306	567	4907	8817
Jones	12331	4278	0	3423	468	681	1039	1936	506
Keokuk	6805	2573	572	83	161	639	0	2137	640
Kossuth	16804	7245	0	1927	2684	816	724	2492	916
Lee	24185	9637	1355	803	199	867	1962	2855	6507
Linn	95066	38980	3010	10051	6335	6440	1835	13170	15245
Louisa	4467	590	0	0	135	922	0	2207	613
Lucas	4569	787	404	401	0	165	0	1235	1577
Lyon	9558	1100	92	1649	671	958	317	656	4115
Madison	6119	806	842	347	350	412	86	1900	1376
Mahaska	11755	1150	1187	0	322	368	296	2269	6163
Marion	17719	2558	634	547	665	263	0	2789	10263
Marshall	22062	5398	1102	2180	1658	1034	1106	4454	5130
Mills	6120	927	420	465	602	92	217	1984	1413
Mitchell	11105	4131	0	3128	1475	0	496	1021	854
Monona	6752	1362	232	1281	1161	0	794	998	924
Monroe	5302	2902	650	204	0	0	0	1210	336
Montgomery	6915	799	434	1574	307	585	120	1862	1234
Muscatine	19036	4953	748	2643	1240	1290	782	4194	3186
O'Brien	14381	1903	0	1209	2460	567	1112	2322	4808
Osceola	5975	1100	0	1028	756	576	122	911	1482
Page	11031	1193	845	1172	1889	1218	324	2406	1984
Palo Alto	9970	3981	0	1772	1282	0	111	2338	486
Plymouth	18307	8086	0	3959	1872	477	316	2454	1143
Pocahontas	8685	3193	282	2410	50	341	122	2065	222
Polk	164819	55214	9764	21683	5717	8436	5130	18988	39887
Pottawattamie	39185	9531	998	5707	2842	2800	3082	4891	9334
Poweshiek	9821	2581	25	662	443	1102	477	2390	2141
Ringgold	2687	219	559	0	89	172	0	1210	438
Sac	10952	2897	471	823	2745	1382	329	2113	192
Scott	77514	30718	1445	13690	4552	4620	704	6001	15784
Shelby	10876	5002	0	2448	87	129	329	1727	1154
Sioux	28137	2479	0	1494	1415	650	171	788	21140
Story	35002	5594	1447	10776	1677	1774	427	6466	6841
Tama	11380	3978	88	1460	124	645	1350	3423	312
Taylor	4267	280	355	0	30	296	47	1617	1642
Union	6450	1401	1022	514	371	469	582	1622	469
Van Buren	3518	330	0	0	54	297	63	1698	1076
Wapello	16563	3237	2249	1549	302	894	192	2783	5357
Warren	14444	3389	743	1193	681	1109	0	4162	3167
Washington	11655	2465	645	726	61	1580	0	2990	3188
Wayne	3457	60	376	0	0	111	0	1468	1442
Webster	29108	9937	352	5608	4172	940	429	4593	3077
Winnebago	10896	1225	0	6076	0	0	0	1484	2111
Winneshiek	17926	7543	0	8767	0	100	195	1040	281
Woodbury	58263	19803	487	9522	5951	3139	1187	8955	9219
Worth	6469	300	0	4665	0	0	0	1040	464
Wright	10995	1738	0	3418	244	561	1024	2682	1328
State of Iowa	1681062	520322	50771	265423	124021	85186	59450	272098	303791

Table 2. Estimated church membership in selected denominations in Iowa counties, 1980.^a

County	Church Members	American Lutheran Church	Catholic	Christian Church (Disciples of Christ)	Lutheran Church in America	Lutheran Church-- Missouri Synod	United Church of Christ	United Methodist Church	United Presbyterian Church in the U.S.A.	Other Church
Adair	6145	907	673	58	0	942	153	2528	504	380
Adams	3138	0	401	530	116	232	73	1230	228	328
Allamakee	13198	2173	4945	0	1829	0	1408	769	1635	439
Appanoose	6775	0	1515	1044	440	0	0	1606	258	1912
Audubon	7021	2614	765	368	865	560	73	1058	588	130
Benton	14536	200	3331	738	211	4878	328	2587	1471	792
Black Hawk	79460	12158	27136	949	2105	5581	1667	10802	5621	13441
Boone	16009	0	2945	874	2686	1969	447	3637	463	2988
Bremer	19530	9363	2270	0	0	2579	1847	2764	0	707
Buchanan	16057	2184	7060	0	0	663	193	2768	1366	1823
Buena Vista	16913	2067	2940	0	1802	3176	401	3526	1545	1456
Butler	12522	3439	1216	0	0	138	927	2118	956	3728
Calhoun	13124	2149	2715	651	558	1839	439	2702	909	1162
Carroll	22736	525	15294	299	0	2725	0	2367	1116	410
Cass	12154	1029	1893	688	278	1786	979	3267	576	1658
Cedar	10392	167	1360	0	814	1280	2609	3067	520	575
Cerro Gordo	34750	9260	9818	846	574	1249	616	6977	662	4748
Cherokee	12373	0	3739	69	1354	2057	199	2990	949	1016
Chickasaw	12957	2579	6418	0	0	326	1119	1297	0	1218
Clarke	4047	0	596	654	0	348	0	1178	89	1182
Clay	13377	2077	2629	536	441	1422	304	3568	0	2400
Clayton	15268	5330	5323	0	983	324	1152	2018	0	138
Clinton	35089	5415	12137	0	1983	3770	2024	3978	1653	4129
Crawford	15003	0	3876	0	209	6733	785	1491	1189	720
Dallas	14598	818	2857	2244	0	1186	0	5208	657	1628
Davis	3808	125	225	1509	0	0	0	1147	0	802
Decatur	3239	0	544	120	0	167	0	748	238	1422
Delaware	13564	1500	7729	0	0	483	478	2586	507	281
Des Moines	25484	723	6103	888	3250	101	2142	4726	1432	6119
Dickinson	9368	1488	2171	0	0	1202	317	2918	750	522
Dubuque	73650	3656	59886	0	311	1416	1337	2981	2020	2043
Emmet	11704	3893	2420	384	609	624	0	1757	1454	563
Fayette	20273	6371	6448	0	0	1057	6	3468	1434	1489
Floyd	12222	3233	3423	324	0	0	794	3400	226	822
Franklin	9753	1444	660	224	224	1183	1809	2758	0	1451
Fremont	4237	0	490	0	96	b	205	1954	421	1071
Greene	8963	0	2162	697	0	724	0	3466	591	1323
Grundy	10046	559	714	0	799	475	843	2257	2087	2312
Guthrie	7426	0	1709	884	0	826	459	2828	151	569
Hamilton	13738	2456	1608	255	1902	709	1116	3246	506	1940
Hancock	10718	1947	2331	0	0	915	1042	3013	364	1106
Hardin	15872	845	2111	606	440	2780	1829	4147	910	2204
Harrison	9163	0	2329	323	837	1086	0	2267	334	1987
Henry	9975	0	1500	0	525	312	237	3308	1151	2942
Howard	10407	2443	5874	0	0	210	123	1402	211	144
Humboldt	9690	3549	1449	0	0	1018	427	2686	0	561
Ida	7097	1117	1045	0	0	2192	0	1923	702	118
Iowa	11610	165	2585	300	0	3804	207	2021	744	1784
Jackson	15964	4017	9014	0	0	0	541	1148	626	618
Jasper	21050	274	2515	1736	1376	422	1380	4725	1395	7227

^aZeros indicate the absence of a church in a county but not necessarily the absence of adherents.

^bChurches of this denomination were indicated for these counties, but the numbers of adherents were not listed.

Table 2. Estimated church membership in selected denominations in Iowa counties, 1980 (continued).^a

County	Church Members	American Lutheran Church	Catholic	Christian Church (Disciples of Christ)	Lutheran Church in America	Lutheran Church-- Missouri Synod	United Church of Christ	United Methodist Church	United Presbyterian Church in the U.S.A.	Other Church
Jefferson	8020	229	1848	676	995	143	63	1925	499	1642
Johnson	29094	1552	10995	281	1346	1106	533	4428	2207	6646
Jones	12451	3522	3537	0	251	444	759	2190	1026	722
Keokuk	8568	81	3226	645	0	212	0	2555	698	1151
Kossuth	20309	1224	8768	0	1140	2923	648	3208	1229	1169
Lee	26201	0	11753	1251	818	261	2334	3472	1517	4795
Linn	93268	3334	33790	2993	5852	6645	1710	15108	8573	15263
Louisa	4349	0	391	0	0	129	0	2447	1071	311
Lucas	4491	0	240	552	528	0	0	1595	285	1291
Lyon	10009	1731	1419	80	0	613	343	737	1164	3922
Madison	6584	202	645	779	0	375	135	2523	454	1471
Mahaska	12931	0	921	1211	0	329	279	2654	495	7042
Marion	18499	268	2026	651	0	702	0	2974	229	11649
Marshall	24378	1738	4580	1184	714	1890	1193	5284	923	6872
Mills	6224	588	585	444	0	506	436	2308	33	1324
Mitchell	11406	3109	3907	0	0	1814	530	1058	0	988
Monona	7567	1627	1103	243	0	1460	872	1040	0	1222
Monroe	4825	0	2007	635	154	0	0	1536	57	436
Montgomery	7946	0	628	384	1641	268	161	2509	902	1453
Muscatine	21989	1658	6868	586	1431	946	635	4254	1552	4059
O'Brien	15617	1325	2138	0	0	2768	1241	2376	721	5048
Osceola	6933	993	1328	0	0	905	162	1187	605	1753
Page	11912	0	1070	944	1131	1914	253	3117	1594	1889
Palo Alto	11144	2316	4099	0	0	1576	123	2636	0	394
Plymouth	19524	4238	7842	0	823	1990	313	2679	629	1010
Pocahontas	10774	2192	4248	350	529	75	171	2585	504	120
Polk	140231	6705	43395	10365	11030	4859	4301	20853	10031	28692
Pottawattamie	39425	4254	9913	728	1603	2796	2848	5474	3344	8465
Poweshiek	9780	908	2063	127	0	222	639	2574	1258	1989
Ringgold	3510	0	328	638	0	115	0	1561	174	694
Sac	12815	503	3198	558	382	3053	351	2720	1533	517
Scott	79239	1742	28220	1666	14235	4053	1011	6065	5407	16840
Shelby	12416	2734	5898	0	0	0	334	1944	133	1373
Sioux	27090	1480	3101	0	0	1353	106	726	846	19478
Story	38312	9092	10309	1256	1496	1333	534	7059	2259	4974
Tama	11871	1508	3951	98	0	87	1266	3795	792	374
Taylor	5420	0	425	655	0	72	0	2258	339	1671
Union	7510	0	1689	633	464	433	578	2388	550	775
Van Buren	4062	0	372	0	0	41	85	1914	143	1507
Wapello	18925	268	4000	2364	1477	353	156	3493	1334	5480
Warren	13875	973	3194	760	0	641	0	4701	1062	2544
Washington	13014	407	4472	681	0	70	0	3406	1409	2569
Wayne	4174	0	160	485	0	0	0	1754	59	1716
Webster	33280	3962	11024	303	2394	4349	685	5686	1466	3411
Winnebago	12000	6753	1331	0	0	0	0	1764	0	2152
Winneshiek	16834	8466	6748	0	0	0	204	895	139	382
Woodbury	67978	6813	22050	607	3626	6627	1478	10252	3948	12577
Worth	8035	5131	570	0	603	0	0	1188	0	543
Wright	12702	3783	2212	0	0	324	1080	3067	741	1495
State of Iowa	1783704	201668	539482	54611	82280	128244	61585	316303	105143	294388

Table 3. Estimated church membership in selected denominations in Iowa counties, 1971.^a

County	Church Members	American Lutheran Church	Catholic	Christian Church (Disciples of Christ)	Lutheran Church in America	Lutheran Church-- Missouri Synod	United Church of Christ	United Methodist Church	United Presbyterian Church in the U.S.A.	Other Church
Adair	5945	755	776	47	0	1010	153	2630	555	19
Adams	4283	0	837	213	68	196	124	1855	321	669
Allamakee	13305	2229	5080	0	1827	0	1389	845	1841	94
Appanoose	6866	0	1386	989	318	0	0	2005	247	1921
Audubon	7459	2876	614	336	847	619	113	1163	559	332
Benton	14639	242	3780	472	285	4590	369	2882	1584	435
Black Hawk	77935	13020	24508	894	2341	5450	1997	14373	7352	8000
Boone	15012	0	2576	945	2575	1915	313	4338	671	1679
Bremer	19210	9126	2293	0	0	2579	1652	3057	0	503
Buchanan	14927	2069	6507	0	0	672	174	3069	1561	875
Buena Vista	17091	1962	2704	0	2059	3137	460	4166	1605	998
Butler	12680	3645	843	0	0	160	935	2483	1057	3557
Calhoun	12397	2293	2272	459	591	1874	466	2939	808	695
Carroll	22989	506	15035	227	0	3020	0	2777	1281	143
Cass	12544	1267	1833	344	163	1919	934	4222	875	987
Cedar	11110	316	1648	0	770	1329	2588	3431	512	516
Cerro Gordo	33711	8755	9094	791	739	1292	902	8065	686	3387
Cherokee	12665	0	3243	86	1389	2120	170	3615	1079	963
Chickasaw	12115	2315	6419	111	0	340	1049	1454	0	427
Clarke	3191	0	363	718	0	357	0	976	101	676
Clay	12319	2068	2143	451	403	1396	339	3796	0	1723
Clayton	15529	5785	5474	0	1046	368	1016	1796	44	0
Clinton	36825	5934	12725	0	2371	3867	1970	5127	1743	3088
Crawford	14392	0	3671	0	191	6324	663	1849	1339	355
Dallas	14655	566	3415	1719	0	1033	0	6022	739	1161
Davis	3224	110	156	1067	0	0	0	1393	0	498
Decatur	2094	0	277	305	0	0	0	852	314	346
Delaware	13561	1756	7706	0	0	371	539	2637	512	40
Des Moines	27225	623	7839	778	3466	245	2354	5941	1758	4221
Dickinson	8617	1146	1912	0	0	1228	278	3132	643	278
Dubuque	75111	3106	61566	0	300	1349	1449	3642	2420	1279
Emmet	11707	4111	1912	366	527	673	0	2090	1785	243
Fayette	21026	6868	6407	127	0	1015	11	4224	1596	778
Floyd	13065	3654	2655	378	0	0	811	4609	214	744
Franklin	9503	1379	589	193	209	1303	1201	3254	0	1375
Fremont	4329	0	649	131	115	0	151	2109	343	831
Greene	8887	0	2172	537	0	740	0	3752	684	1002
Grundy	10370	550	291	0	782	448	798	2743	2456	2302
Guthrie	7395	0	1763	801	0	708	377	2992	139	615
Hamilton	14078	2684	1816	176	1683	743	951	3818	493	1714
Hancock	11324	2142	2309	0	0	729	1050	3572	367	1155
Hardin	15513	839	1941	339	423	2649	2003	4693	436	2190
Harrison	8968	0	2731	232	819	1146	0	2381	413	1246
Henry	10500	0	1038	0	502	317	207	3914	1251	3271
Howard	10734	2367	5898	0	0	242	188	1613	253	173
Humboldt	10073	3877	1182	0	0	891	500	3385	74	164
Ida	7283	1164	911	0	0	2211	0	2170	827	0
Iowa	10811	145	2280	247	0	3806	248	2480	810	795
Jackson	16395	4146	8950	0	0	0	508	1522	845	424
Jasper	18776	266	2023	1379	1483	307	1424	5399	1825	4670

^aZeros indicate the absence of a church in a county but not necessarily the absence of adherents.

Table 3. Estimated church membership in selected denominations in Iowa counties, 1971 (continued).^a

County	Church Members	American Lutheran Church	Catholic	Christian Church (Disciples of Christ)	Lutheran Church in America	Lutheran Church-- Missouri Synod	United Church of Christ	United Methodist Church	United Presbyterian Church in the U.S.A.	Other Church
Jefferson	8631	257	1786	544	1007	112	63	2489	569	1804
Johnson	31878	1357	16194	408	1512	1001	645	5577	2500	2684
Jones	13019	3673	4013	0	197	431	719	2240	1176	570
Keokuk	8371	111	2912	730	0	79	0	2854	672	1013
Kossuth	19315	1294	7398	0	1062	3160	687	3438	1474	802
Lee	25132	0	10132	1209	832	248	2297	4563	2057	3794
Linn	87883	3256	34147	1736	5695	7175	1610	16488	9927	7849
Louisa	4429	0	340	0	0	80	0	2645	1257	107
Lucas	4323	0	575	477	303	0	0	1415	350	1203
Lyon	9947	1993	1381	137	0	536	411	831	1201	3457
Madison	6401	238	655	644	0	492	132	2549	628	1063
Mahaska	11590	0	785	1412	0	357	369	2923	615	5129
Marion	16773	0	1617	456	0	633	0	3931	261	9875
Marshall	24880	1823	5141	1132	541	1961	1404	6341	1075	5462
Mills	5645	490	316	298	0	527	120	2648	50	1196
Mitchell	11981	3635	4193	0	0	1806	531	1465	25	326
Monona	7558	1725	1314	171	0	1386	855	1156	0	951
Monroe	4282	0	2155	576	152	0	0	745	133	521
Montgomery	8569	0	640	455	1717	247	180	3050	1056	1224
Muscatine	17711	1605	4508	455	1493	316	610	4848	1613	2263
O'Brien	15389	1389	1959	0	0	2710	1067	3019	685	4560
Osceola	7146	1040	1375	0	0	961	187	1409	724	1450
Page	11874	0	1071	1002	1158	1772	203	3357	1743	1568
Palo Alto	12418	2487	4737	0	0	1592	140	3159	104	199
Plymouth	19835	4110	8023	0	784	1962	364	2939	638	1015
Pocahontas	10962	2226	4310	211	518	93	171	2742	617	74
Polk	139524	6033	43455	10595	14696	4713	4594	26590	12284	16564
Pottawattamie	41831	4616	11063	590	1568	2615	3143	6785	3991	7460
Poweshiek	10389	1050	2095	109	0	235	835	3118	1195	1752
Ringgold	2973	0	125	558	0	89	0	1675	200	326
Sac	13306	540	3357	445	335	3441	378	2327	2097	386
Scott	70974	1536	30094	1175	12951	4106	1157	7686	5922	6347
Shelby	12359	3149	5709	0	0	0	358	1978	195	970
Sioux	25702	1576	3161	0	0	1035	103	998	820	18009
Story	33060	9591	4617	1107	1249	1022	873	9242	2270	3089
Tama	11695	1638	3527	66	0	101	1240	4007	1103	13
Taylor	5427	0	425	626	0	96	0	2487	489	1304
Union	7519	0	1762	678	370	538	535	2599	646	391
Van Buren	4089	0	185	0	0	0	105	2512	168	1119
Wapello	17567	318	4384	2268	1592	436	298	3335	1310	3626
Warren	12462	640	2603	681	0	658	0	4602	802	2476
Washington	12776	393	2851	599	0	73	0	3890	1721	3249
Wayne	3419	0	0	407	0	0	0	1853	70	1089
Webster	33673	4065	9291	429	2791	4784	681	6927	1670	3035
Winnebago	11812	7502	1533	0	0	0	0	1965	0	812
Winneshiek	16861	8961	6386	0	0	0	210	994	175	135
Woodbury	65254	6094	21622	619	4426	6284	1792	13743	4550	6124
Worth	7613	4888	545	0	663	0	0	1338	0	179
Wright	13069	3982	2179	0	0	317	996	3789	788	1018
County Unknown	9045	0	0	0	0	0	0	0	0	9045
State of Iowa	1762704	205943	528858	48863	85904	126868	62887	370513	120634	212234

Table 4. Percentage of residents estimated to be church members in Iowa Counties, 1971, 1980, 1990.

County	1990	1980	1971	County	1990	1980	1971
Adair	70.3	64.6	62.7	Jefferson	43.7	49.2	54.7
Adams	50.6	54.8	67.7	Johnson	37.0	35.6	44.2
Allamakee	88.5	87.4	88.9	Jones	63.4	61.0	65.5
Appanoose	47.4	43.7	45.8	Keokuk	58.5	66.3	60.0
Audubon	78.9	82.0	77.7	Kossuth	90.4	92.8	84.2
Benton	63.2	61.5	64.0	Lee	62.5	60.8	58.5
Black Hawk	61.6	57.6	58.6	Linn	56.3	54.9	53.8
Boone	57.9	61.1	56.7	Louisa	38.5	36.1	41.5
Bremer	80.8	78.7	84.5	Lucas	50.4	43.5	42.5
Buchanan	73.6	70.1	68.6	Lyon	80.0	77.6	74.6
Buena Vista	77.6	81.4	82.6	Madison	49.0	52.3	55.4
Butler	77.3	70.9	74.8	Mahaska	54.6	56.5	52.3
Calhoun	85.1	96.9	86.7	Marion	59.1	62.4	63.6
Carroll	93.2	99.1	100.3	Marshall	57.6	58.5	60.6
Cass	79.6	71.8	73.8	Mills	46.4	46.4	47.7
Cedar	56.5	55.8	62.9	Mitchell	101.6	92.5	91.4
Cerro Gordo	63.5	71.7	68.5	Monona	67.3	64.7	62.6
Cherokee	83.2	76.2	73.3	Monroe	65.3	52.4	45.8
Chickasaw	78.7	83.9	80.9	Montgomery	57.3	59.2	67.0
Clarke	43.9	47.0	42.1	Muscatine	47.7	54.4	47.6
Clay	68.2	68.3	66.7	O'Brien	93.1	92.0	87.8
Clayton	79.0	72.4	75.4	Osceola	82.2	82.8	83.5
Clinton	58.3	61.4	64.9	Page	65.4	62.5	64.1
Crawford	83.3	79.2	75.3	Palo Alto	93.4	87.6	93.4
Dallas	54.1	49.5	56.2	Plymouth	78.3	78.9	81.6
Davis	41.2	41.8	39.3	Pocahontas	91.2	94.8	85.7
Decatur	26.9	33.1	21.5	Polk	50.4	46.3	48.8
Delaware	73.6	71.6	72.2	Pottawattamie	47.4	45.5	48.1
Des Moines	56.1	55.2	57.9	Poweshiek	51.6	50.7	55.3
Dickinson	64.9	59.9	68.6	Ringgold	49.6	57.4	46.6
Dubuque	70.9	78.6	82.9	Sac	88.9	90.8	85.4
Emmet	82.0	87.8	83.6	Scott	51.3	49.5	49.7
Fayette	81.7	79.5	78.2	Shelby	82.2	82.5	79.6
Floyd	60.4	62.4	65.8	Sioux	94.1	87.9	91.8
Franklin	75.6	74.8	71.7	Story	47.1	53.0	52.7
Fremont	53.5	45.1	46.6	Tama	65.3	60.8	58.0
Greene	76.8	74.0	69.9	Taylor	60.0	64.9	61.7
Grundy	76.6	69.9	73.4	Union	50.6	54.2	55.5
Guthrie	52.8	62.0	60.4	Van Buren	45.8	47.1	47.3
Hamilton	76.8	76.9	76.6	Wapello	46.4	47.0	41.7
Hancock	80.1	77.5	83.8	Warren	40.1	39.8	45.4
Hardin	75.4	72.9	69.7	Washington	59.4	64.6	67.4
Harrison	57.5	56.0	55.2	Wayne	48.9	50.9	40.7
Henry	48.5	52.8	58.0	Webster	72.2	72.4	69.6
Howard	90.4	93.6	93.8	Winnebago	89.9	92.2	90.9
Humboldt	81.9	79.1	80.5	Winneshiek	86.0	77.0	77.5
Ida	82.8	79.7	78.5	Woodbury	59.3	67.4	63.3
Iowa	67.3	75.2	70.1	Worth	81.0	88.5	84.7
Jackson	54.5	70.9	78.7	Wright	77.1	77.8	75.6
Jasper	53.5	57.8	53.0				
				State of Iowa	60.5	61.2	62.4

Missouri Synod (127,000 to 128,000 to 124,000), and United Church of Christ (63,000 to 62,000 to 59,000) remained relatively stable from 1971 to 1990.

The only category with consistent gains over the period was that labeled "other" in the tables. Membership in churches other than the denominations listed separately increased by 82,000 between 1971 and 1980 and by 9,000 between 1980 and 1990. Indeed, in 1990, there were more adherents in the "other" category (304,000) than those in any denomination except Catholic. Those members are spread across 68 church bodies with adherents varying from 10 to 33,300 (see the note at the end of this section for data on these churches). Caution is necessary in examining change in the "other" category; more church bodies were added to each report issued by the Glenmary Research Center.

Estimated Church Membership in Counties

In 37 counties, Catholics accounted for a larger proportion of church members than any other denomination or the "other" category in 1990. At least half of all adherents were Catholic in five counties (Carroll, 67.0%; Delaware, 57.9%; Dubuque, 81.1%; Howard, 57.4%; Monroe, 54.7%). From a third to a half of all members were Catholic in another 24 counties. One of every five (20.2%) Catholics lived in Dubuque or Polk counties; nearly half (49.6%) lived in these two plus seven other counties (Black Hawk, Carroll, Clinton, Johnson, Linn, Scott, Woodbury), all of which had at least 10,000 Catholics in 1990.

United Methodists topped the other categories in 24 counties, although in no county did members of this denomination exceed half of all church members. United Methodists accounted for at least a third of the adherents in 10 counties (Adair, Adams, Fremont, Greene, Guthrie, Louisa, Ringgold, Taylor, Van Buren, Wayne), with the percentages nearing 50 in two (Louisa, 49.4%; Van Buren, 48.3%). Members of this denomination were somewhat more evenly distributed throughout Iowa than were Catholics; for example, five counties (Black Hawk, Linn, Polk, Story, Woodbury) were needed before a fifth of all United Methodists were counted, and 26 were necessary to reach half the total of this denomination.

Members of the Evangelical Lutheran Church in America accounted for the largest proportion of adherents in 15 counties in 1990; more than half of all church members were in this category in Winnebago (55.8%) and Worth (72.1%) counties. Seven others (Audubon, Bremer, Clayton, Emmet, Humboldt, Jackson, Winneshiek) had at least 33% of church members in this denomination. Black Hawk, Polk, Scott, and Story counties accounted for one in every five members of the Evangelical Lutheran Church in America; the addition of another 10 counties (Bremer, Cerro Gordo, Clayton, Fayette, Linn, Pottawattamie, Webster, Winnebago, Winneshiek, Woodbury) yielded a total exceeding half of all members of this body in 1990.

Members of the Lutheran Church—Missouri Synod had the largest proportion of adherents in Benton (32.5%), Crawford (44.0%), Ida (30.4%), and Iowa (38.1%) counties. Adherents of the Christian Church (Disciples of Christ) accounted for more adherents than any other category in one county (Davis, 35.3%), as did members of the United Church of Christ (Cedar, 26.3%).

In 17 counties, members of churches in the "other" category had greater numbers of adherents than any one of the seven single denominations reported in Table 1 for 1990. For four of these counties, two specific "other" denominations were significant. The Reformed Church of America accounted for relatively large proportions of all church members in Lyon (22.5%), Marion (23.0%), O'Brien (18.3%), and Sioux (38.2%) counties. For Marion (16.9%) and Sioux (28.1%), the Christian Reformed Church also had significant proportions of all church members.

Change in Church Membership in Counties

Among all church members, 86 counties reported declines in adherents between 1980 and 1990, with decreases greater than 1,000 in 50 counties. Declines topped 5,000 in five counties (Cerro Gordo, Clinton, Dubuque, Jackson, Woodbury), with Dubuque's drop of 12,402 the greatest of any county. Of the 13 counties with gains in the numbers of adherents, six increased by at least 1,000, although

Johnson (+6,458) and Polk (+24,588) were the only ones with at least 2,000 more members in 1990 than in 1980.

The number of Catholics decreased in 57 counties and increased in 42 from 1980 to 1990. Declines of at least 1,000 occurred in 16 while gains of that magnitude took place in five (Dallas, Johnson, Linn, Polk, Scott). United Methodists reported gains in only three counties (Johnson, Sioux, Winneshiek); declines surpassed 1,000 in Black Hawk, Cerro Gordo, Des Moines, Linn, Polk, Webster, and Woodbury. Twelve counties had more Presbyterians in 1990 than in 1980, although increases were never greater than 250. Declines occurred in 75 counties, with the decreases greater than 1,000 in Black Hawk, Linn, and Polk. There were no Presbyterian churches in 12 counties in either 1980 or 1990.

Thirty-two counties noted more members of the Evangelical Lutheran Church in America in 1990 than the combined total of the members of the American Lutheran Church and the Lutheran Church in America in 1980; 48 counties had fewer members at the end of the period. Nine counties did not have a church in these Lutheran groups in 1980 or 1990. A gain greater than 1,000 occurred in Polk County, while losses were more than 1,000 in Bremer, Clinton, Plymouth, Scott, and Worth.

When members of the Lutheran Church—Missouri Synod in 1980 and 1990 were compared, 32 counties had gains, although none was greater than 1,000 and only one topped 500 (Polk, +858). Declines occurred in 58 counties; again, none was greater than 1,000 and only two were above 500 (Crawford, -584; Woodbury, -676). Forty-eight counties reported fewer members of the United Church of Christ in 1990 than 10 years earlier while 29 had more at the end of the period than at the beginning. Changes for this denomination were relatively small, with only two counties gaining at least 500 (Hardin, +566; Polk, +829) and one declining by that amount (Franklin, -724). Members of the Christian Church (Disciples of Christ) decreased in 42 counties and increased in 20; more counties (37) did not have a church of this denomination than any of the others reported separately in Table 1.

Membership numbers of "other" churches were greater in 1990 than in 1980 in 43 counties. Gains exceeded 1,000 in six counties (Black Hawk, Johnson, Lee, Polk, Sioux, Story), with Polk's increase of 11,195 substantially above the others. Declines among members of "other" churches occurred in 58 counties; five dropped by at least 1,000 (Iowa, Marion, Marshall, Scott, Woodbury), with Woodbury's decrease of 3,358 the greatest of these counties.

Church Members as a Percentage of Residents

For the state, 60.5% of all residents were estimated to be church members in 1990 (Table 4). That was slightly lower than the percentages in 1980 (61.2%) and 1971 (62.4%). These percentages were higher than those for the nation (55.1% in 1990, 49.7% in 1980, 49.6% in 1971). The figures on church membership are conservative, however, because some churches were not included in the tabulations; thus, the percentages that members constitute of the total population may be somewhat higher than reported here.

These percentages vary widely across Iowa's counties (Table 4, Figure 1). Again, caution is urged in drawing conclusions from these percentages. The fact that a church is located in a county doesn't mean that all members of the congregation lived in that county. Indeed, the method employed in gathering these data can result in the number of church members exceeding the total population. That occurred in Carroll County in 1971 and in Mitchell County in 1990. This signifies not only a problem with the data for these counties, but also that the percentages reported for nearby counties may be somewhat lower than expected.

Percentages in each county tend to be consistent across the period. For example, the percentages for 41 of Iowa's 99 counties varied by 4.9 points or less across the three times they were measured; another 48 varied by 5.0 to 9.9 points. Only Adams, Dubuque, Jackson and Jefferson had consistent declines that totaled more than 10 percentage points from 1971 to 1990; Mitchell and Monroe had consistent gains throughout the period that totaled at least 10 points.

Fifteen counties had at least 80% of their residents counted as church members in 1971, 1980, and 1990; most of these counties are in the northern and western sections of Iowa. Eleven other counties never reported at least 50% of their residents as adherents; all but one of these is in the southern one-third of the state.

Notes: The 1992 publication of the Glenmary Research Center lists the following numbers of churches and adherents in Iowa: Advent Christian Church (2 churches, 113 adherents); African Methodist Episcopal Zion Church (1, 269); American Baptist Churches in the U.S.A. (124, 32,175); Apostolic Christian Churches of America (8, 1,443); Assemblies of God (131, 21,650); Baptist General Conference (34, 6,005); Beachy Amish Mennonite Churches (2, 243); Brethren Church (Ashland, OH) (1, 223); Brethren in Christ Church (2, 68); Catholic (564, 520,322); Christian and Missionary Alliance (28, 3,871); Christian Church (Disciples of Christ) (167, 50,771); Christian Churches and Churches of Christ (123, 24,137); Christian Reformed Church (62, 21,129); Church of Christ, Scientist (24, members not reported); Church of God General Conference (Abrahamic Faith) (4, 102); Church of God (Anderson, IN) (11, 670); Church of God (Cleveland, TN) (16, 1,335); Church of God (Seventh Day) (Denver, CO) (1, 73); Church of God of Prophecy (12, 328); Church of Jesus Christ of Latter-Day Saints (37, 10,383); Church of the Brethren (31, 3,599); Church of the Lutheran Brethren of America (6, 483); Church of the Nazarene (72, 12,934); Churches of Christ (73, 4,006); Churches of God, General Conference (10, 658); National Association of Congregational Christian Churches (12, 2,473); Congregational Christian Churches (not part of any national CCC body) (8, 530); Conservative Baptist Association of America (17, members not reported); Conservative Congregational Christian Conference (2, 547); Cumberland Presbyterian Church (1, 124); Episcopal Church (67, 14,198); Evangelical Free Church of America (51, 8,056); Evangelical Lutheran Church in America (519, 265,423); Evangelical Lutheran Synod (19, 1,795); Evangelical Methodist Church (1, 10); Evangelical Presbyterian Church (1, 209); Association of Free Lutheran Congregations (4, 559); Free Methodist Church of North America (21, 1,073); National Association of Free Will Baptist, Inc. (1, 102); Friends (51, 6,235); Greek Orthodox Archdiocese of North and South America (6, members not reported); Independent Fundamental Churches of America (17, members not reported); International Church of the Foursquare Gospel (28, 3,262); Latvian Evangelical Lutheran Church in America (1, 75); Lutheran Church—Missouri Synod (293, 124,021); American Association of Lutheran Churches (9, 1,810); Mennonite Church (27, 4,691); General Conference Mennonite Church (6, 613); Missionary Church (7, 376); Netherlands Reformed Congregations (2, 1,525); North American Baptist Conference (14, 2,782); Old Order Amish Church (23, 3,450); Old Order River Brethren (1, 64); Open Bible Standard Churches, Inc. (47, members not reported); Pentecostal Church of God (6, 478); Christian (Plymouth) Brethren (37, 2,968); Presbyterian Church (USA) (311, 85,186); Presbyterian Church in America (6, 768); Primitive Methodist Church, U.S.A. (2, 24); Reformed Church in America (74, 33,337); Reformed Church in the United States (1, 196); Salvation Army (21, 2,794); Seventh-Day Adventists (55, 5,426); Southern Baptist Convention (60, 13,960); Unitarian Universalist Association (11, 2,157); United Brethren in Christ (4, 82); United Church of Christ (209, 59,450); United Methodist Church (887, 272,098); Wesleyan Church (25, 5,615); Wisconsin Evangelical Lutheran Synod (11, 1,596); Jewish (estimate) (20, 6,701); Black Baptists (estimate) (number of churches not reported, 14,188); Independent, Charismatic Churches (4, 5,520); Independent, Non-Charismatic Churches (14, 7,525).

For state and county figures on all church bodies in Iowa and the nation, see the following publications from the Glenmary Research Center (750 Piedmont Ave NE, Atlanta, GA 30308; 404-876-6518):

Martin B. Bradley, Norman M. Green, Jr., Dale E. Jones, Mac Lynn, and Lou McNeil
1992 Churches and Church Membership in the United States 1990. Atlanta, GA:
Glenmary Research Center.

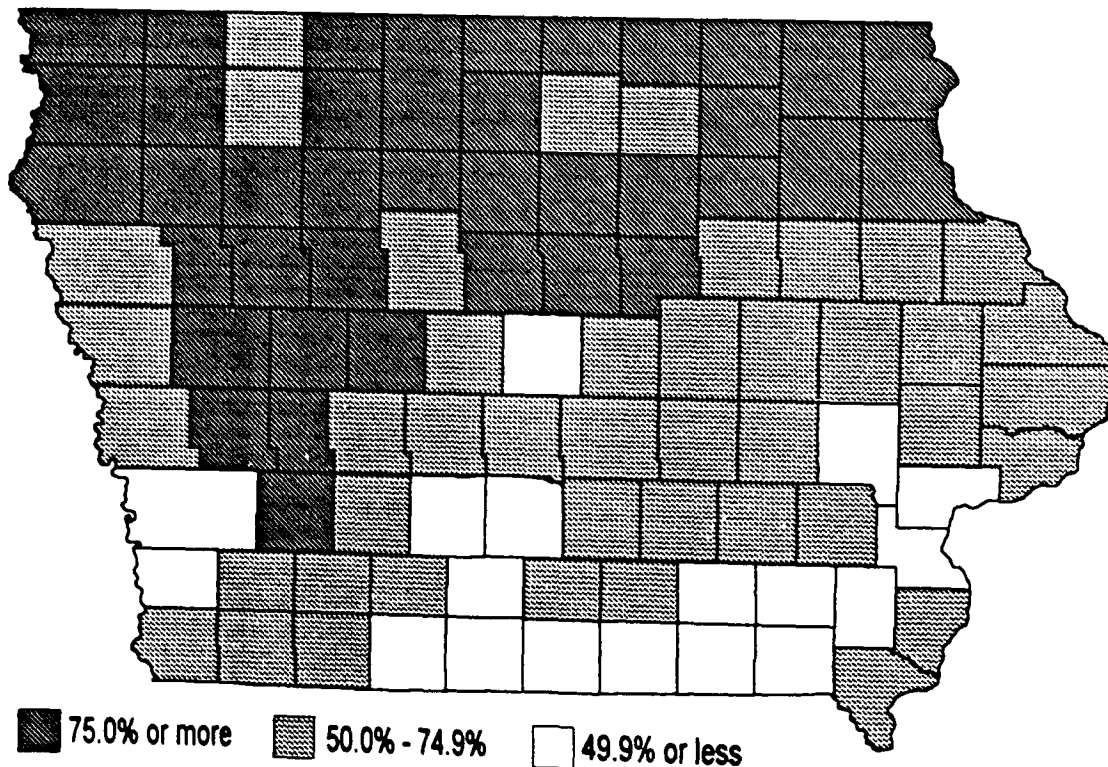
Bernard Quinn, Herman Anderson, Martin Bradley, Paul Goetting, and Peggy Shriver
1982 Churches and Church Membership in the United States 1980. Atlanta, GA:
Glenmary Research Center.

Douglas W. Johnson, Paul R. Picard, and Bernard Quinn
1974 Churches and Church Membership in the United States 1971. Washington, DC:
Glenmary Research Center.

The precursor of this series was conducted by the National Council of Churches of Christ in the U.S.A. in 1957 (data for 1952). Information from that effort is available in the following reports for Iowa: Series C - Denominational Statistics by States and Counties, Bulletin 21 (Iowa: Adair-Johnson) and Bulletin 22 (Iowa: Jones-Wright).

Permission to use the numbers for Iowa and its counties in Tables 1-4 and the list of church bodies from CHURCHES AND CHURCH MEMBERSHIP IN THE UNITED STATES was granted by the Glenmary Research Center (750 Piedmont Avenue NE, Atlanta, GA 30308) and the Association of Statisticians of American Religious Bodies (ASARB), which holds the copyright. ASARB sponsored the 1992 publication with a generous grant from the Lilly Endowment, Inc. The percentages in Table 4 may not match those in the initial reports; some county populations updated by the U.S. Bureau of the Census after the initial reports were published were used in these calculations.

Figure 1. Church members as a percentage of total population, 1990.



Food Stamps in Iowa's Counties:

1980-1992

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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 1992; 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 76,974 Iowa households received food stamps each month in 1992 (Table 1). This was an increase of more than 3,800 from the 1991 figure and continued the upward trend from 1989. More than 75,000 households received food stamps monthly from 1983 through 1987. The lowest monthly average (57,449) was in 1980.

Polk averaged 10,793 households receiving food stamps each month in 1992, 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% of Iowa's average monthly food stamp households that year. Twenty-four counties had 500 to 1,999 households receiving food stamps, while 68 counties averaged 100 to 499 households monthly. One county (Osceola, 93) had fewer than 100 households getting food stamps each month.

Most counties (84) averaged more households in the program in 1992 than in 1991. Eight (Black Hawk, Johnson, Linn, Marshall, Polk, Pottawattamie, Scott, Woodbury) increased by more than 100 households. Of the 13 counties with fewer households in the program in 1992 than in 1991, the largest decrease was in Buchanan (-47); no other decline was greater than 20.

A comparison of 1982 with 1992 indicates that Iowa averaged 6,327 more households in the program at the end of the period than at the beginning. Likewise, 76 counties also had higher averages in 1992 than in 1982. Scott gained by an average of 1,329 households, the highest increase of any county. Pottawattamie (+513) was the only other county to increase by an average of 500 or more households. Twenty counties added 100 to 499 households, while 54 counties increased by fewer than 100 households. Twenty-two counties had fewer food stamp households in 1992 than in 1982. Black Hawk, Clayton, Dubuque, Jasper, and Linn were the only ones that decreased more than 100 households.

An examination of the 13 years of data reveals that the mid-decade marked the high point of household participation in the food stamp program for the state and for most of the counties as well. Iowa's average number of food stamp households in 1992, although higher than 1980, was lower than 1983, 1985, and 1986. Most of the counties followed the state trend. 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 increased in 1985 and 1986. These trends reversed after 1986. A large majority of the counties

Table 1. Average Monthly Number of Households Receiving Food Stamps in Iowa Counties, 1980-1992.

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

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

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

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

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	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	9.2	8.4	7.8	6.8	7.4	10.0	10.0	8.7	5.2	5.0	3.5	3.9	4.2
Allamakee	4.6	4.4	4.0	4.2	5.1	5.9	6.7	6.1	5.6	5.5	5.3	4.8	4.8
Appanoose	13.5	12.6	12.2	12.7	13.4	14.2	15.6	15.4	15.4	15.5	12.8	10.4	9.9
Audubon	5.1	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	6.1	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	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	6.1	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	3.4	3.7	3.4	3.3	4.1	5.5	6.5	5.8	5.0	4.5	3.9	3.4	2.5
Buchanan	6.8	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	4.8	4.6	4.0	3.8	4.0	4.5	4.9	4.2	4.2	4.5	4.5	3.5	2.6
Butler	5.0	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	5.9	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	4.0	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	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	4.9	4.7	4.5	4.4	4.6	5.4	5.4	5.0	4.5	4.6	4.4	3.7	3.7
Cerro Gordo	6.8	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	4.2	3.9	3.7	3.6	3.9	4.8	5.2	4.5	4.0	4.1	3.7	3.1	3.0
Chickasaw	4.5	4.2	4.3	4.4	5.3	7.2	7.8	7.0	6.3	6.1	4.6	4.0	3.2
Clarke	10.2	9.0	8.2	7.4	8.5	9.7	10.2	9.6	8.6	9.0	8.4	6.5	5.9
Clay	5.9	5.9	5.6	5.6	6.0	7.1	7.5	7.1	6.3	6.2	5.6	5.1	4.4
Clayton	4.3	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	8.6	8.4	8.0	7.7	7.8	8.7	9.6	9.6	8.6	8.2	6.5	4.8	4.2
Crawford	6.1	6.1	6.1	5.5	5.6	5.8	5.9	5.4	5.2	5.6	4.6	3.7	3.3
Dallas	5.1	4.9	4.7	4.6	4.7	5.5	6.3	6.4	6.1	6.3	5.1	4.4	3.9
Davis	7.7	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	12.0	11.2	10.2	9.8	10.4	10.5	11.1	10.2	9.4	9.0	7.9	7.3	6.6
Delaware	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	8.5	8.1	7.9	7.5	7.3	7.7	8.2	8.3	8.3	8.8	7.8	7.4	6.5
Dickinson	4.0	4.0	3.8	4.3	4.4	4.4	4.4	4.5	4.6	5.1	4.6	4.0	3.7
Dubuque	5.3	5.1	5.2	5.4	6.0	7.1	7.8	7.9	8.2	8.6	6.7	5.5	4.7
Emmet	7.4	7.1	7.0	6.7	6.7	7.7	8.6	7.6	6.6	7.5	6.0	4.9	4.7
Fayette	7.7	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	7.9	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	5.9	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	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	5.9	5.9	5.1	4.7	4.8	5.5	6.3	6.6	6.1	6.3	5.7	5.0	4.6
Grundy	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	6.3	5.4	5.8	6.5	7.9	8.2	7.7	7.0	7.5	6.9	6.1	5.3
Hamilton	6.2	5.9	4.9	4.7	5.2	5.8	5.7	5.2	4.8	5.3	5.2	5.3	5.2
Hancock	5.4	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	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	8.7	8.2	7.7	7.6	7.4	7.8	7.9	8.1	7.9	8.0	7.0	5.8	5.5
Henry	6.1	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	5.4	5.0	5.5	5.6	5.9	7.6	8.9	8.0	7.2	7.1	5.0	4.3	4.4
Humboldt	5.5	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	3.6	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	3.1	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	7.1	7.1	8.0	9.4	10.4	9.1	8.5	8.3	6.8	5.2	4.8
Jasper	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

*1992 percentages were calculated with 1991 population estimates; 1992 population estimates were not available when these computations were completed.

Table 3. Average Monthly Percentage of All Residents Receiving Food Stamps in Iowa Counties, 1980-1992
(continued).

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	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	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	4.8	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	7.9	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	5.3	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	9.2	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	6.0	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	7.4	6.4	6.1	6.5	7.4	8.2	7.8	8.0	8.1	6.8	6.2	6.1
Lucas	9.1	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	3.3	3.4	3.5	3.7	4.7	5.2	4.8	4.1	4.0	3.6	2.9	2.3
Madison	5.1	5.0	4.4	4.6	4.5	5.3	6.1	6.0	5.8	6.2	5.3	4.3	3.7
Mahaska	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	5.2	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	7.7	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	6.8	6.5	5.7	5.0	5.4	6.1	6.0	5.7	5.8	6.3	5.9	5.0	4.4
Mitchell	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	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	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	7.3	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	8.9	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	3.8	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	3.4	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	7.9	8.1	7.3	7.4	7.4	7.8	8.3	8.0	7.2	7.6	6.4	5.5	4.8
Palo Alto	6.4	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	2.9	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	5.6	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	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	9.8	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	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	9.2	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	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	10.4	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	4.9	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	2.3	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	3.1	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	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	7.3	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	9.1	9.1	8.6	8.4	8.1	9.0	9.7	9.7	9.1	8.3	6.5	6.4	5.5
Van Buren	7.3	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	12.2	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	4.8	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	4.6	4.5	4.7	5.1	5.1	4.4	3.8	3.4	3.4	3.2	2.9
Wayne	9.7	8.9	8.9	8.5	9.9	10.4	11.1	11.3	10.2	9.5	8.3	6.8	6.6
Webster	9.6	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	4.3	3.9	3.3	3.2	3.8	4.1	3.7	3.5	3.9	3.8	3.8	3.3
Winneshiak	3.6	3.4	3.4	3.6	4.2	5.1	5.8	5.4	4.6	4.4	3.9	3.9	3.4
Woodbury	8.6	8.4	7.8	7.4	7.9	9.4	9.1	8.9	8.9	8.8	8.0	7.5	7.1
Worth	5.6	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	5.6	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	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. Average Monthly Food Stamp Benefits (\$) in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	26600	24700	21700	18300	18200	22000	26700	28400	23900	22800	17500	15000	10500
Adams	24900	22200	18400	15600	17200	23400	23000	20200	11000	10000	6400	7900	6700
Allamakee	35100	31600	26900	26100	30600	35400	40600	37000	32400	31700	29600	26300	21400
Appanoose	115300	100200	89800	86300	87800	87400	91900	94200	91300	92400	73700	59400	45100
Audubon	19900	18100	15800	14000	16300	18900	20600	18800	12500	13100	11600	11900	9000
Benton	80400	73000	67300	55100	53900	58400	58900	60800	61100	65100	53600	44100	27200
Black Hawk	754100	697300	650700	621900	646500	704400	722300	699500	702800	640300	537300	504600	346100
Boone	100200	83300	63400	60000	62500	63900	67000	66800	68600	78500	66900	57300	38900
Bremer	45300	46000	40800	35600	42800	53700	63200	57400	51200	45800	37900	33900	19700
Buchanan	84100	86700	75600	71200	80500	92900	100700	97400	89300	83800	59800	53600	33400
Buena Vista	57500	50900	40900	34900	35600	37400	41500	36400	35300	36700	35100	27800	15900
Butler	44800	44700	39400	35800	39400	47800	54300	49900	42300	39800	29900	27700	17500
Calhoun	38000	33200	28200	26100	27900	33600	34700	30700	23200	23100	21000	20600	15900
Carroll	49000	46100	42700	39800	36800	41400	43700	42300	34700	34500	32800	28700	20200
Cass	58500	50500	43000	37100	35100	37500	40700	42100	34000	34200	32900	32700	21300
Cedar	52100	46600	41900	38000	38800	43700	43000	40100	35900	35800	33800	28400	23300
Cerro Gordo	194700	174000	150700	131300	125900	129600	131200	120500	115500	129800	113500	108200	77700
Cherokee	34900	30800	26500	23500	24800	30200	31100	26800	23700	24400	19800	16700	12400
Chickasaw	32300	30400	28200	26200	31800	42100	45900	42300	37500	36400	25400	22600	13400
Clarke	50000	42700	36100	29500	33600	35900	37000	35500	30200	32000	28500	22300	16600
Clay	58100	54800	48400	43700	44000	50100	54600	54100	46100	46200	39900	37300	25500
Clayton	45900	42900	41800	41900	45000	52000	61400	61600	56200	63500	50400	42500	32300
Clinton	288400	265500	233900	207000	202000	216300	230900	240300	209900	194200	145200	109700	79200
Crawford	61900	58000	52200	44100	44400	43700	44100	40800	37600	40500	32800	25400	18300
Dallas	98800	87500	77100	68200	65100	71300	76400	80000	75500	74200	55900	47900	34300
Davis	38400	34200	32900	32200	35900	39800	41300	37700	36200	35500	25300	21900	16100
Decatur	55000	48400	41400	36800	36800	36000	38500	36300	32900	31600	26300	24400	18000
Delaware	52300	48500	48700	49300	55000	68100	78000	73300	63200	64200	49800	47500	33500
Des Moines	230200	209700	185800	161900	149600	150900	153500	161800	159500	161900	143000	135900	97700
Dickinson	35200	33600	28100	29000	28800	25800	25500	27400	26000	28700	25800	22500	16400
Dubuque	278700	255300	239100	227900	242300	276900	294000	306400	317500	329300	245600	208600	141900
Emmet	50200	47100	42900	35600	33400	36600	40900	38600	32600	34200	27800	23400	17300
Fayette	92500	84700	71400	67100	72600	82900	91300	89100	76900	75700	56400	44100	29100

Table 4. Average Monthly Food Stamp Benefits (\$) in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	72700	64400	58900	50300	51300	59300	60900	61500	56600	63300	51600	44600	32100
Franklin	38300	35200	31700	26400	25100	25800	28800	23200	21700	24200	19800	18700	14000
Fremont	34500	29800	26300	24100	23600	24100	23700	23700	20800	19800	16000	15000	12600
Greene	34500	32700	25300	21700	21700	22600	25300	29400	26300	27500	24800	21400	15300
Grundy	28400	26400	20400	18400	17700	20000	20600	21300	18700	20900	14200	13000	8800
Guthrie	43800	37300	28800	28700	31700	36000	38100	37000	32200	33100	28900	25400	17900
Hamilton	60300	53200	39700	34500	39600	42300	40700	37100	33300	35700	34100	34500	27500
Hancock	38200	32800	29500	23300	24900	27000	29700	25100	19200	24900	22900	19200	16600
Hardin	69600	57100	48900	42900	45500	46900	46900	40200	32900	34100	31700	27800	17900
Harrison	72400	64500	55600	50300	48600	48100	47300	50400	46000	46100	39000	32500	26000
Henry	69500	61400	52000	42200	38900	37000	39500	42700	40800	42000	33900	32600	24100
Howard	29300	25600	24900	24300	25800	32800	38700	34500	31300	30700	21300	16300	13700
Humboldt	32500	27900	24800	21800	25900	26800	26100	27500	21100	21500	18200	20700	14500
Ida	16300	15600	9900	8900	10500	12100	13500	11900	9800	10100	10200	8200	6700
Iowa	26000	23800	21100	17100	17500	21400	23000	21800	16500	19200	17700	15100	11300
Jackson	84800	82400	73300	68800	75600	86000	93000	84500	76800	74100	56500	43500	31100
Jasper	107800	97600	80700	71800	76300	84500	93100	93800	96200	107200	96700	86600	58300
Jefferson	82100	74100	60900	53100	50800	49100	49700	50500	50100	49000	44400	36600	25700
Johnson	185400	154400	125000	108100	103900	101200	96000	95000	90900	96800	90800	87400	56700
Jones	56000	50500	42700	43300	46600	52200	56400	55700	50900	53800	46600	41000	28800
Keokuk	55000	55700	47200	41000	38900	40500	43900	40100	33900	32300	25900	23800	17500
Kossuth	53700	48100	38700	32600	34600	40500	42400	36600	27700	31100	28400	27400	18300
Lee	224600	204600	172600	155800	159100	168200	169900	172900	170400	177000	145900	125600	85700
Linn	683500	626300	534800	475700	491100	528300	537800	548500	560200	577300	499500	455000	296300
Louisa	55200	49800	40900	35300	36400	38600	41200	40700	40300	38300	31100	27300	22600
Lucas	49200	43900	39100	35500	35300	38300	41600	43500	41800	43000	38400	32400	23400
Lyon	23300	18700	18100	16700	18500	22400	24700	22600	18200	19100	16600	14100	8800
Madison	38200	34900	29600	28200	26300	28600	31100	31300	28200	30600	24700	19800	13300
Mahaska	101500	96600	85000	75300	70300	79900	83100	82400	77100	85000	71900	63800	45900
Marion	97600	84800	71200	63800	67500	74100	80700	79600	78800	78900	61400	52300	40000
Marshall	184800	160400	137200	122800	122100	126000	123500	120700	120000	119600	101300	86300	60400
Mills	53600	48500	40000	32300	33700	34600	32300	32600	30500	32100	28700	25100	17700
Mitchell	27000	22100	18300	17500	20300	22000	23800	23400	21100	25300	21700	18700	12400

Table 4. Average Monthly Food Stamp Benefits (\$) in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	52900	48900	40000	35800	34600	38500	43400	39100	33800	36100	34100	26900	20300
Monroe	46500	43700	41400	39800	43000	44000	47200	40300	36000	35400	26700	21500	15800
Montgomery	52600	43100	33400	29300	27200	29000	29600	33400	29300	30900	27400	23100	16200
Muscatine	221500	201100	179800	154100	150300	163300	163700	162200	142600	139800	121900	106200	89800
O'Brien	30200	23200	20600	18300	23300	29300	31000	27700	25300	24600	20000	17800	12800
Osceola	14100	14000	11200	10600	11800	16100	21000	19800	12500	11700	8800	7100	5800
Page	73300	70200	59400	56100	53700	53500	57300	57100	51700	52500	42600	36800	26400
Palo Alto	37900	34200	28700	25000	26100	32600	35400	35400	29600	33000	29800	26700	19800
Plymouth	36400	34400	32500	32800	38200	44600	50800	45000	38100	38400	34600	33100	23400
Pocahontas	31100	28100	20700	16200	16600	22000	25100	20500	17300	18000	16300	14400	11400
Polk	1775000	1553900	1297500	1117700	1070000	1053800	1082200	1129400	1168900	1291700	1134800	1056000	740300
Pottawattamie	523500	467500	379700	319300	296000	274300	267100	276800	275900	304600	279700	269400	201900
Poweshiek	57000	51100	40000	31500	34100	38600	42700	45100	39400	39300	32500	29500	20100
Ringgold	27500	25800	22200	20900	23600	24400	21800	25600	21800	19400	15500	13100	10200
Sac	34000	31800	26300	23000	20800	24200	28000	26200	25600	24200	20300	15400	10600
Scott	1063900	940300	826000	730200	721000	725400	704800	700800	677200	663800	558200	452500	326700
Shelby	35800	32400	26300	19900	22400	26100	26800	25800	24400	24600	20400	17300	13000
Sioux	35700	34000	32800	34000	34800	39600	45500	36400	31100	32800	29400	25400	21200
Story	152900	126700	106500	96000	89700	92500	87200	93500	90200	94100	79500	72600	52700
Tama	65200	57200	46300	40300	43200	49200	52800	47600	45400	45300	37800	37500	27600
Taylor	29600	28800	24800	21100	21600	25600	28700	32000	26700	24700	20000	16700	14400
Union	67600	63900	56100	49100	45600	48100	51400	54100	50400	45200	34400	32500	22300
Van Buren	33200	32100	27800	24400	27300	28000	29800	30500	29400	29400	23500	19000	15400
Wapello	265000	241500	211900	200000	209500	228400	225600	195400	186100	181700	140700	124900	86600
Warren	110400	95800	82100	71800	70200	69000	72400	76400	70300	69700	57500	54900	37800
Washington	58100	52900	47100	43200	44300	44100	43000	37900	31700	25200	24800	24800	17600
Wayne	37100	32500	30200	26600	29700	29600	33400	36300	30700	29100	24400	19600	15700
Webster	238600	216100	185500	167700	163700	171200	172000	160200	152500	153200	132500	118000	82000
Winnebago	30000	27500	23500	18100	17000	17900	19800	17900	16200	18600	16300	17000	12600
Winneshiek	42100	37700	34500	33700	39100	45200	49700	46600	38100	37300	31700	32600	22600
Woodbury	517300	473000	400900	344400	356700	394100	369100	376200	363900	355300	313300	294700	222500
Worth	26300	22700	20800	16300	17600	21300	21600	20000	19400	21900	19900	18600	12700
Wright	49100	45500	39500	31000	29700	32800	39500	39500	34200	35600	30300	30300	24800
State of Iowa	11984200	10775600	9301000	8281900	8349100	8863400	9134900	9046700	8631800	8800400	7445500	6658700	4726700

registered decreases in the number of households receiving food stamps through 1987, 1988, and 1989. But the 1990, 1991, and 1992 figures indicate a return to increases in the state and most counties in these household numbers.

Persons Receiving Food Stamps

In 1992, Iowa had an average of 193,318 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 13 years was 148,268 in 1980 (Figure 1).

Polk averaged more monthly food stamp recipients (26,387) in 1992 than any other county. Five other counties (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, 50 counties ranged from 500 to 999 persons, with the remaining 11 counties averaging fewer than 500.

The average number of persons receiving food stamps in the state was 9,462 higher in 1992 than in 1991. Eighty-one counties followed this trend as well, with more persons in the program in the later year. The only increase over 1,000 occurred in Polk (+1,995); Pottawattamie and Scott reported from 500 to 999 more recipients in the most recent year. Buchanan (-87) led the 16 counties that decreased between the two years.

Comparing 1982 and 1992, Iowa had an average of 7,588 more persons in the food stamp program at the end of the period. Sixty-one counties followed this trend. Pottawattamie (+1,013) and Scott (+3,324) were the only counties to gain more than 1,000. Thirty-one counties averaged from 100 to 999 more food stamp recipients, while 28 counties increased by fewer than 100 persons monthly. Dubuque (-1,586) led the 38 counties with fewer average recipients in 1992 than 1982; 16 others declined by at least 100.

A review of the entire period indicates, once again, that the highest food stamp usage was in the mid-years of the decade. A majority of counties, as well as the state, showed consistent increases 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 decreased in the years 1987 through 1989, although gains again occurred in most counties from 1989 to 1992.

Percentage of the Population Receiving Food Stamps

An average of 6.9% of Iowa's population received food stamps each month during 1992 (Table 3). The highest proportions of Iowans receiving food stamps during the period occurred in 1983 (7.4%), 1985 (7.3%), and 1986 (7.5%).

In 1992, 61 counties averaged a lower percentage of residents receiving food stamps than did the state. Johnson, Plymouth, and Sioux each had less than 3% of its population in the food stamp program. Thirty-seven counties in 1992 had a higher proportion of residents receiving food stamps than the state total. Five (Appanoose, Clarke, Decatur, Scott Wapello) had more than 10.0% of their populations in the program with the highest percentage at 13.5% in Appanoose (Figure 2).

A majority of the counties (77) had a higher proportion of their population in the food stamp program in 1992 than in 1991. For 11 counties, the proportion of persons receiving food stamps was lower at the end of the period than the beginning. The percentage point increases and decreases were small, however, with none as great as 1.3 points. For 70 counties, the percentage of residents in the program was higher in 1992 than in 1982. Increases of at least 2.0 percentage points occurred in 11 counties; none 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 13 years examined. Comparing 1986 with both 1980 and 1992

illustrates the high level of food stamp use in Iowa in the middle of the period. In 1980, for example, 15 counties had less than 3% of their population receiving food stamps. For 1992, there were three counties with this low level of participation. In contrast, in 1986, only two counties (Johnson, Story) were that low. At the other extreme, none of the counties had 10% or more of its residents receiving food stamps in 1980, although there were five counties at that level in 1992. In 1986, however, 16 counties had 10% or more of their population in the program. In that year, Appanoose county had 15.6% of its residents receiving food stamp assistance. That was the highest monthly average for any county during the period.

Total Benefits Received

In 1992, food stamp benefits averaged nearly \$12 million per month (Table 4). Relatively large increases in dollars expended in this program occurred from 1980 to 1983. From 1983 to 1990, average payments ranged from \$8.3 million to \$9.3 million per month. Average monthly food stamp benefits increased at least \$1 million each year from 1989 to 1992. Even though the number of participants was higher each year from 1983 to 1987 than it was in 1992, monthly payments were lower in the earlier years than the most recent one. Benefits per recipient per month averaged \$41.57 in 1983, \$43.34 in 1986, but \$61.99 in 1992.

Average monthly food stamp benefits exceeded \$100,000 in 22 counties in 1992. The averages were greater than \$500,000 in Black Hawk, Linn, Polk, Pottawattamie, Scott, and Woodbury; together these six counties accounted for 44.4% of all food stamp benefits in the state in an average month that year. Forty-four counties had averages under \$50,000 per month, although only five (Adams, Audubon, Ida, Lyon, Osceola) were below \$25,000.

When average monthly benefits for 1982 and 1992 are compared, the state and all counties except Clayton reported increases. Gains of at least \$100,000 occurred in nine counties (Black Hawk, Clinton, Linn, Polk, Pottawattamie, Scott, Wapello, Webster, Woodbury). Another 21 counties noted increases of less than \$10,000 between 1982 and 1992 in food stamp benefits in an average month.

Figure 1. Average number of persons receiving food stamps in Iowa, 1980-1992.

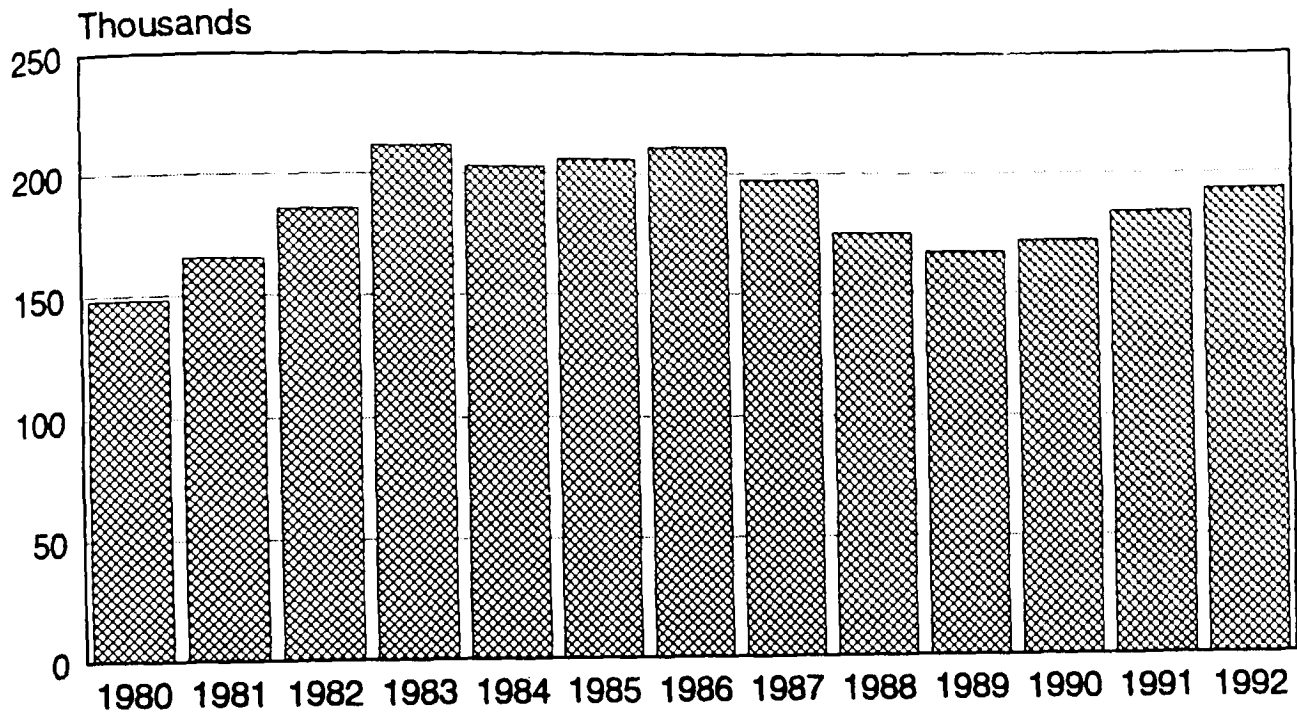


Figure 2. Percent receiving food stamps, 1992.

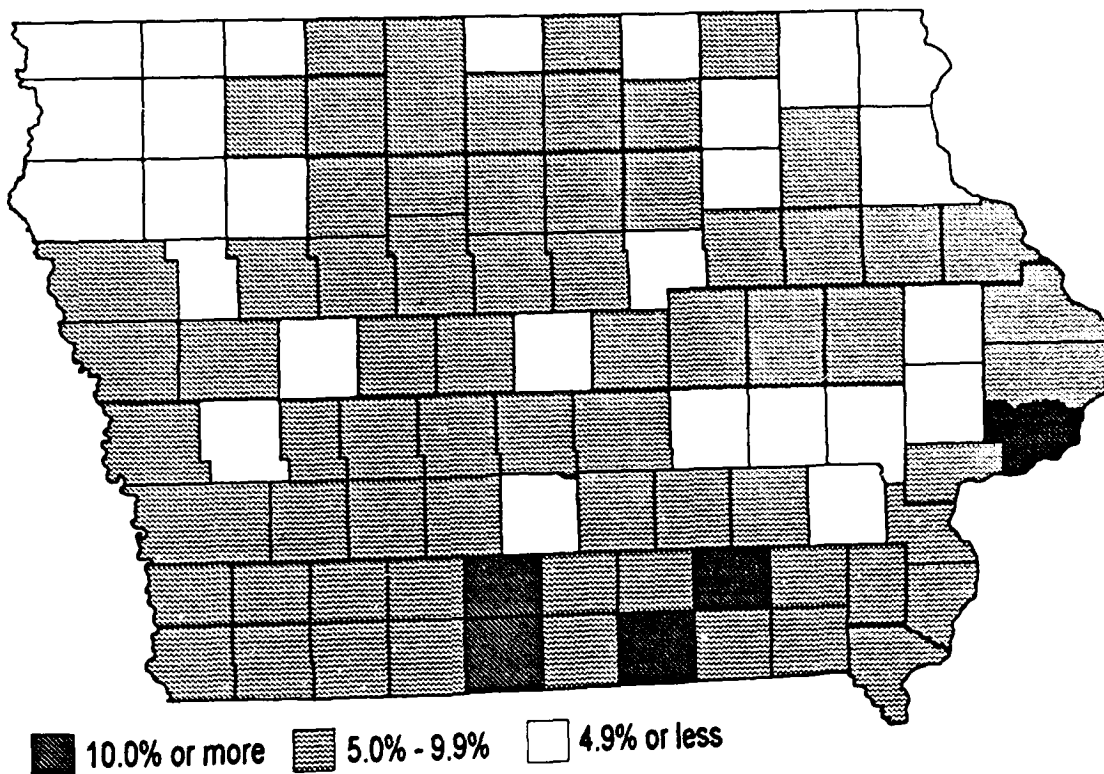
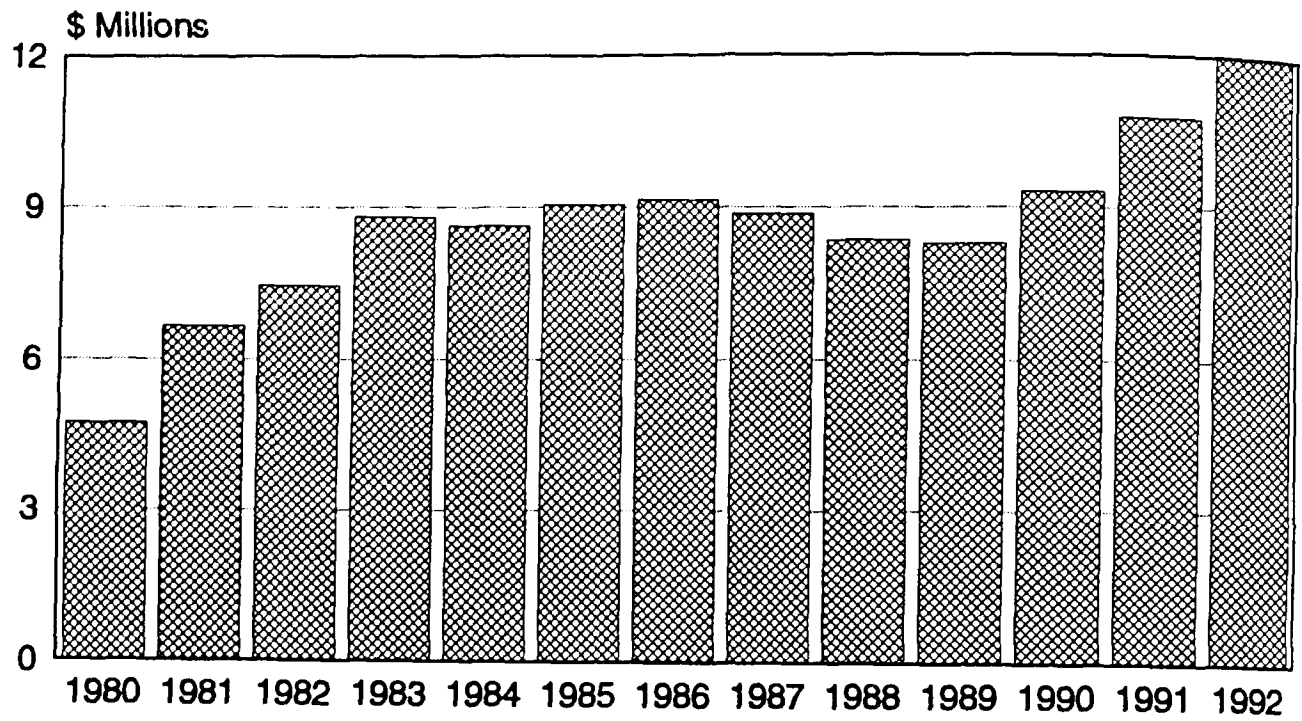


Figure 3. Average monthly food stamp benefits in Iowa, 1980-1992.



Aid to Families With Dependent Children in Iowa's Counties: 1980-1992

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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 was begun in Iowa in 1982, in this report the data for that program start 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 1992 (Table 1). The highest monthly average was 36,129 in 1981 followed by 35,518 in 1980. The 1992 average of 34,666 was 2,421 cases higher than the 1980-1992 low, which occurred in 1989.

In 1992, five counties (Adams, Audubon, Ida, Lyon, 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 5,681 the highest.

The increase of 1,151 regular AFDC cases from 1991 to 1992 was exceeded only by the gain of 1,560 between 1982 and 1983 and of 1,256 between 1990 and 1991. Two-thirds (68) of Iowa's counties had increases between 1991 and 1992; two (Polk, Scott) gained at least 100 cases between the two years. Thirty-one counties reported fewer than 10 additional cases in 1992 than in 1991. Only four of the 27 counties with declines from 1991 to 1992 dropped by 10 or more (Jackson, Keokuk, Monona, Plymouth).

A ten-year comparison (1982-1992) reveals that Iowa had 2,303 more regular cases at the end of the period than at the beginning. Fifty-eight counties averaged more regular cases monthly in 1992 than in 1982. The largest increase was in Scott (+820), followed by a gain of 726 in Polk. Four other counties (Clinton, Marshall, Story, Wapello) increased by more than 100 cases, although none exceeded 250. Of the remaining 52 counties that reported increased numbers of regular AFDC cases in 1992 than in 1982, 19 gained fewer than 10 cases. Thirty-nine counties had fewer cases in 1992 than in 1982. Dubuque's average caseload decline of 175 was the only one down by more than 75. Twenty-one others dropped

Table 1. Average Monthly Number of Regular AFDC Cases in Iowa Counties, 1980-1992.

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

Table 1. Average Monthly Number of Regular AFDC Cases in Iowa Counties, 1980-1992 (continued).

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

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

Table 2. Average Monthly Number of Regular AFDC Recipients in Iowa Counties, 1980-1992 (continued).

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

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

Table 3. Average Monthly Number of Unemployed-Parent AFDC Cases in Iowa Counties, 1983-1992 (continued).

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

Table 4. Average Monthly Number of Unemployed-Parent AFDC Recipients in Iowa Counties, 1983-1992.

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

Table 4. Average Monthly Number of Unemployed-Parent AFDC Recipients in Iowa Counties, 1983-1992 (continued).

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

Table 5. Average Monthly Payments (\$) to Regular AFDC Recipients in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	20800	19200	17100	13600	15700	19200	23300	21000	21600	20600	15900	19900	20300
Adams	17900	16100	14100	15200	16400	18500	15900	13700	10400	9400	7200	10500	10800
Allamakee	29700	22300	26100	28200	30000	30800	35500	35800	34800	32800	37700	43100	42200
Appanoose	107500	112700	111000	114900	114200	104500	105200	102900	110400	110500	103400	98800	92700
Audubon	14300	15700	13100	12300	13000	14800	15800	14900	12000	12300	12500	16500	18300
Benton	81900	81200	84700	71300	73300	78100	73700	68100	69600	66400	64700	64600	57200
Black Hawk	924300	936000	934200	958600	953000	987100	1024300	946900	953900	869800	812600	844100	832500
Boone	92200	84200	75000	80900	82600	85000	88000	84700	86300	90700	88200	87400	83400
Bremer	43500	46200	43600	42900	46600	53400	61600	56200	58200	51000	48400	55300	48100
Buchanan	87400	91400	86200	87700	88200	97400	96100	92500	87900	82200	79100	84100	80100
Buena Vista	55300	47900	45000	43600	48600	50200	56300	50500	49600	47100	47200	52200	47800
Butler	44300	50000	45000	41600	42600	42200	43300	41200	38200	36200	29900	37900	37600
Calhoun	32600	32400	29800	34700	34600	37000	35000	29900	30600	29800	30000	35500	34200
Carroll	43000	43500	42100	42600	38800	41800	38300	34400	34600	33100	34000	37600	36600
Cass	53800	51600	50000	47400	43300	43900	48300	46100	45000	42700	42700	56000	52100
Cedar	43700	43700	44000	41700	39700	44200	39100	38800	35800	36900	41600	45900	47800
Cerro Gordo	201200	197600	196800	187500	185600	192900	192200	174100	171200	175800	182500	201700	190200
Cherokee	31800	35000	30000	30300	31100	38400	38700	33100	32900	33600	31700	38900	40400
Chickasaw	26100	26400	28000	31000	30600	36000	35600	32200	32100	30600	23600	27700	29900
Clarke	38200	34200	37200	33200	35800	36800	37600	31300	32800	34700	33500	33800	30900
Clay	57000	58700	54400	59300	60000	65700	67600	63500	61500	59800	54100	62400	54800
Clayton	39300	41100	38600	42300	43000	42900	46400	44800	46200	46500	45200	47000	47700
Clinton	321500	318300	308700	293400	276400	275900	280000	265200	247200	232900	212100	206400	190100
Crawford	60200	61700	58500	57600	55900	53400	55300	48800	48200	49100	41100	43900	49300
Dallas	111000	102600	101000	103700	97900	105800	111100	104900	109500	105000	87200	91000	87500
Davis	32100	31200	35700	36200	34600	31600	29900	32700	32500	29500	26600	27800	25500
Decatur	44700	41600	36500	34300	34700	35400	36600	33800	32500	31800	33800	39900	38600
Delaware	44100	44400	48900	51700	58700	62500	63900	58700	55400	52400	53200	56900	52400
Des Moines	262900	257600	251400	233900	227200	229100	233800	232900	228600	214300	207000	226000	202200
Dickinson	28200	32500	33100	37700	37500	38200	36800	35700	37400	65500	39800	43100	44200
Dubuque	275400	273900	283600	294700	312100	326300	338800	327500	338900	330800	304000	305500	279400
Emmet	36600	38400	41600	41600	43400	51400	53700	46800	41500	42100	41900	45200	44700
Fayette	91000	87600	74800	71000	68100	69600	72200	69200	69900	66700	62600	68800	67100

Table 5. Average Monthly Payments (\$) to Regular AFDC Recipients in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	68300	70700	71700	71800	65900	70600	72400	65400	66300	67100	66600	68600	61800
Franklin	30800	29400	28900	33000	32300	31500	33400	27100	26700	26500	26100	32500	37300
Fremont	33200	31100	29900	32400	32500	32900	33200	31300	28500	25600	23000	28600	31900
Greene	29300	29200	29300	28400	30500	30600	34600	29000	29700	29700	29300	35100	33700
Grundy	25800	25500	24100	20500	19500	20600	19900	21200	21200	21700	19600	23200	21500
Guthrie	41300	37700	33600	35500	37800	42700	35200	34800	32800	31700	30700	35600	38300
Hamilton	48100	47700	40400	41000	46600	52700	45000	40300	46400	48700	46800	49100	50200
Hancock	31400	27000	27800	28200	27500	27800	27300	24700	25700	25800	25900	29400	29700
Hardin	66500	59700	57600	54700	56400	57000	57000	52600	55900	55000	57000	64100	56700
Harrison	61100	57000	54100	53000	56800	56800	54700	56600	58600	57400	53700	62100	63900
Henry	65100	59500	57000	56500	53300	48100	51500	53900	55900	56200	48100	58600	53000
Howard	23300	19100	20100	23600	22000	24700	27000	25100	25500	22900	17400	22200	21500
Humboldt	25800	23900	23400	25500	30800	31100	29500	27300	23200	22700	23800	29100	29400
Ida	15500	14200	9600	11700	14400	16500	16200	14700	11300	12300	10700	13900	12500
Iowa	23300	23300	24800	21500	24400	26300	25400	22200	19400	21000	19500	24100	24000
Jackson	72600	79800	79400	75300	81100	85400	83300	80600	82800	80700	72600	63500	64000
Jasper	110600	108000	100900	100900	106500	120600	133700	130800	126700	126300	121800	140700	129300
Jefferson	62300	65800	61100	56900	48600	55000	49200	47500	50500	99000	54500	52400	57900
Johnson	177200	166400	163000	158300	161900	169000	164700	148200	148200	139900	136700	146100	142300
Jones	51300	50400	51400	56600	63400	68700	71500	64000	63000	58900	59400	63000	57700
Keokuk	49100	54500	50000	51000	44300	42000	40900	34900	32300	30300	26000	32500	31400
Kossuth	41400	41600	40100	33800	35100	36000	36300	31200	29000	34500	37300	46600	46700
Lee	255500	261400	245300	227300	229900	241600	241400	222000	225000	224700	207800	194100	193800
Linn	733600	730200	699300	682500	706900	760800	791100	752700	763000	728700	683800	780500	646500
Louisa	62500	57000	51800	47300	50400	54300	54700	50100	51600	49000	46800	91700	56300
Lucas	47300	47500	44900	41800	42200	44300	48600	46200	47800	45100	43500	43800	49100
Lyon	15300	13500	15100	15500	18200	16700	16100	15400	16000	14800	13300	18000	14400
Madison	33600	37600	35700	37700	35200	33900	34400	29900	29300	29900	26600	30300	31400
Mahaska	99900	100800	98000	96600	91400	99400	101500	90600	91700	89700	84300	92700	92700
Marion	94000	86700	84700	82700	82200	87500	91400	87600	91600	91700	81200	81500	91300
Marshall	200000	179900	169500	163900	158000	159700	154000	140100	150500	141100	136500	141100	153500
Mills	52400	48000	48400	47200	49100	50900	48300	47700	44200	41800	43200	49300	52500
Mitchell	21600	20500	16300	18500	21400	19400	20000	17200	17500	17700	16000	17900	18100

Table 5. Average Monthly Payments (\$) to Regular AFDC Recipients in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Monona	44700	48500	44700	39500	43100	45000	47600	38500	36800	37000	39800	38500	41100
Monroe	41800	46600	45200	45200	47000	43100	44100	39100	35200	34700	32500	32100	31700
Montgomery	55500	52300	46000	40200	39300	47100	50400	45100	42600	41800	39900	44100	42600
Muscatine	236700	236600	232600	223200	215900	231100	237700	220000	206000	196800	186800	183300	186500
O'Brien	27800	25100	23000	23900	27700	29400	28200	24700	23200	23900	21400	28800	27200
Osceola	11700	11700	10400	11200	10300	10000	13300	12000	10800	10400	8900	22500	13200
Page	72300	76100	74200	76300	73900	72800	73400	68600	66500	66200	57700	63700	64200
Palo Alto	26400	24900	26100	25000	25100	25800	30100	32200	28500	29000	29900	34100	36300
Plymouth	32900	37600	34000	38500	37300	39000	40800	38600	38500	37200	33200	42400	40900
Pocahontas	26400	25200	20100	16600	18200	19700	20000	22000	22200	21100	19700	37000	21400
Polk	2142600	2043100	1873500	1713400	1682200	1666500	1719100	1685200	1742900	1717300	1630300	1651400	1654900
Pottawattamie	570000	557200	515100	481300	477900	475500	478300	461000	483100	502800	503200	543600	589900
Poweshiek	55100	53500	48900	41500	44300	47800	50600	48200	48000	46600	42600	45300	41400
Ringgold	18300	19400	20000	22800	22900	22500	19600	21500	19100	17300	16200	17300	18100
Sac	30900	29500	28200	27500	25200	25500	28200	27800	30100	29300	27600	29300	28200
Scott	1297000	1255700	1197500	1140300	1130900	1114800	1099800	1012900	1003200	961700	862500	856700	833900
Shelby	25000	27000	25900	22700	25100	26800	24700	25500	25800	25100	25600	26000	23600
Sioux	29600	29200	27700	33200	31400	31300	29000	29000	28300	31500	30200	31000	35900
Story	137600	131300	124600	122000	120900	128600	123600	107000	98400	85900	77800	93600	94000
Tama	69800	65200	61700	58400	62700	66900	61900	58300	56800	55500	56100	68700	69100
Taylor	32100	35400	34300	30400	29800	34500	38600	34400	34800	26500	22100	26000	26800
Union	69200	69400	68700	76700	72500	74300	77700	66400	68400	61200	57600	61300	59500
Van Buren	27200	27200	27900	25900	27100	28700	29000	26900	29200	28600	26700	28700	30900
Wapello	256800	250400	240000	245600	245400	248400	245600	223200	228200	210600	191300	205000	197300
Warren	118800	110000	102400	99800	96900	104200	106700	103300	102800	101400	94400	110400	98500
Washington	53300	51900	52200	47400	51300	56100	53000	47900	48700	41300	44900	49200	46500
Wayne	33300	28100	31400	28700	26900	26900	29100	30400	31600	30300	28900	31100	31500
Webster	249300	249100	235300	217300	217400	231400	227600	207000	212100	205900	201800	218900	218800
Winnebago	24600	24000	25800	20100	16700	19100	21900	21200	19200	21700	21800	28200	26300
Winneshiek	27800	30900	30900	29500	33800	35500	37300	33100	32000	29100	28300	29400	26000
Woodbury	648800	649700	621000	590800	607400	617300	618300	596100	599000	585000	565200	628900	637100
Worth	22000	19200	19900	17300	19600	26200	26600	22500	22400	22000	24500	23500	23000
Wright	46800	45900	43200	41200	41000	41700	47500	44800	43500	42700	39200	49100	52200
State of Iowa	12724900	12468500	11919200	11521300	11536700	11868800	12052600	11350500	11402600	11049700	10453900	10372900	10879500

Table 6. Average Monthly Payments (\$) to Unemployed Parent AFDC Recipients in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Adair	1600	700	500	500	2000	2600	4300	3100	2300	2500
Adams	4400	3800	2800	2300	2500	3000	3500	2800	2600	2300
Allamakee	1100	3100	1300	2400	2400	4200	7500	7400	5400	3600
Appanoose	20100	17200	14100	12700	19400	26600	33600	34500	34600	25200
Audubon	1700	2000	1200	1300	2100	2800	3200	3000	1000	600
Benton	7100	7500	4500	5000	8300	10300	11000	15300	17400	14100
Black Hawk	52300	58500	61000	76100	112600	172800	207600	179400	166000	74800
Boone	11300	7200	5600	11300	14400	16500	18800	16700	18100	10900
Bremer	5700	7500	7400	5200	9600	15600	19300	17400	15700	10300
Buchanan	8400	10000	11700	13900	24500	37300	47200	39900	33100	22800
Buena Vista	3100	3700	3500	3800	4800	9400	13300	8400	5000	5200
Butler	6800	5700	7900	8500	10700	15300	17400	15900	14900	8400
Calhoun	3900	3100	3200	1600	4500	7600	9800	7700	5900	3700
Carroll	1900	2600	2200	2200	1800	3500	4400	4600	6100	5200
Cass	5400	4700	3800	1600	3400	7900	11300	11000	6400	3900
Cedar	8700	8900	8400	8900	10400	13400	15300	10600	10200	10100
Cerro Gordo	16400	15900	11800	9800	13600	18200	28600	22700	19300	21000
Cherokee	1200	900	900	600	2000	2900	3200	2900	3500	2000
Chickasaw	2700	2600	2700	1900	5200	10400	11700	12000	10600	5600
Clarke	6200	6200	4100	3200	4400	8400	10100	9900	5700	6900
Clay	2600	2700	3400	2300	4400	9400	13400	12000	7600	7700
Clayton	3200	3200	2500	4100	6200	8100	10700	10200	6700	8200
Clinton	29200	33000	27700	29100	36900	61200	85700	87100	74800	50900
Crawford	4200	5500	4500	4400	3500	4600	4600	4900	3000	3700
Dallas	8200	7200	6400	6000	6200	14300	18900	16000	13600	8500
Davis	2300	4000	4100	5300	7700	13500	14100	14600	14100	11300
Decatur	5500	4700	3000	3300	4100	5600	9100	6200	5900	5400
Delaware	5900	4700	6700	9600	14100	20400	26400	23100	20200	16400
Des Moines	16300	18500	19500	16800	13200	22100	34100	32000	31600	29700
Dickinson	2100	2600	2000	3300	3300	4600	4400	3500	3100	3400
Dubuque	24600	31300	33000	38600	53400	81500	95500	96900	97400	73800
Emmet	5200	5000	4600	4900	5600	9300	11800	9000	8000	5600
Fayette	12500	11400	10300	13100	18800	27300	30700	24100	20300	14500

Table 6. Average Monthly Payments (\$) to Unemployed Parent AFDC Recipients in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Floyd	10400	8800	8700	7300	11700	17900	23600	19200	15300	11600
Franklin	3900	4400	4000	4700	2900	3200	3900	4800	4900	5000
Fremont	2800	2800	1200	2000	2100	3300	6600	6500	4600	3300
Greene	4200	4500	2700	2400	3700	5400	7900	8600	8100	4700
Grundy	2400	3700	3200	4100	4600	6300	7100	4100	4800	2600
Guthrie	2900	2100	2600	3300	4700	7200	9400	7600	10500	7300
Hamilton	7500	7800	5100	3300	4500	8100	11500	8000	6900	6100
Hancock	1900	3200	2400	900	2100	5100	6700	5400	2300	3800
Hardin	4800	5000	3400	4100	6000	6900	7000	8900	7000	5500
Harrison	5500	6400	6200	3200	5300	6400	7700	6200	10000	8500
Henry	6800	7600	7400	5400	6300	9000	9900	14400	13000	10000
Howard	2400	3200	3200	1500	1400	3200	4600	6300	6000	6200
Humboldt	3200	3300	5000	2200	2600	4700	6900	6400	3700	4400
Ida	0	200	100	0	400	800	1400	300	600	500
Iowa	2100	2200	1700	1000	1300	4000	6800	5700	4000	5000
Jackson	11000	14000	12900	16800	26000	34500	46700	39000	34900	23800
Jasper	7100	6400	9100	8000	10200	15300	18900	17900	22300	23500
Jefferson	11700	9900	9400	8300	9200	10400	13700	13100	13400	9400
Johnson	7900	7500	7000	4800	6600	10300	11700	9700	7000	7100
Jones	6300	5700	5500	4800	6400	8300	14400	13500	13300	12900
Keokuk	7200	7900	8600	7400	8400	12500	15300	12600	10000	7400
Kossuth	5000	4400	4800	4300	3600	5600	6000	5200	4700	3700
Lee	22300	22600	19000	18900	25600	33200	39500	44400	45300	31800
Linn	54100	59300	49700	46000	77800	113700	136000	132100	124500	100800
Louisa	6900	8900	7600	7600	6600	10000	14200	15500	17700	10400
Lucas	5200	4700	5000	5200	6400	7900	11800	11400	12900	10000
Lyon	200	0	0	600	1600	3500	3100	3400	3100	3900
Madison	3800	2100	1600	3100	1900	5100	6600	7600	7900	6500
Mahaska	15900	14800	13600	8900	9600	15000	19500	17000	16100	17400
Marion	10400	10800	8900	9400	15000	20900	27000	18300	19500	17600
Marshall	17600	14400	14500	11100	16000	25900	31700	29200	26900	17300
Mills	5800	4100	5100	3100	5500	8800	8500	9100	4200	5100
Mitchell	800	1200	900	1200	2600	3200	2900	3400	3600	2500

Table 6. Average Monthly Payments (\$) to Unemployed Parent AFDC Recipients in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983
Monona	5000	6600	4800	4700	6300	10600	12700	11100	10700	7800
Monroe	5100	4500	3900	6000	10300	12600	16300	13200	10000	8700
Montgomery	4600	3400	2900	2600	3800	4800	7600	8600	4000	3300
Muscatine	29100	32800	36000	33000	41100	50600	56100	45300	39000	24400
O'Brien	3700	1400	600	500	1500	4800	6400	4600	4600	3200
Osceola	700	900	1000	500	1000	1700	3600	3600	2600	1600
Page	9700	9800	6100	8800	10200	13400	17600	13500	10800	10500
Palo Alto	1900	2000	2200	1800	2900	6800	10200	9800	7200	5900
Plymouth	1800	1500	1200	2800	5100	5500	7300	5500	4100	3200
Pocahontas	1900	1800	3200	2400	1100	3500	5600	4100	4400	2300
Polk	73100	73600	64800	60900	62400	91800	114100	109200	113500	108300
Pottawattamie	34400	29900	20800	14800	14600	37900	26700	24700	24500	26500
Poweshiek	7200	5200	3200	2800	5300	10700	16800	14000	11500	10100
Ringgold	3300	3100	2100	2900	5500	7900	8400	7800	5300	5300
Sac	3100	2300	1700	2200	2500	2700	4600	4500	3800	3900
Scott	68600	76300	84100	86400	104700	148300	164000	159500	146600	80700
Shelby	3300	2900	3600	1300	2100	3300	5300	4200	3600	2500
Sioux	2300	1800	1800	1300	1600	3300	6400	3800	1700	1400
Story	11700	12000	6200	5300	7500	12900	13100	13400	9900	8100
Tama	5000	6300	4100	2800	3500	7600	11700	11200	10100	7600
Taylor	1900	3100	3500	3700	4700	4800	7200	8400	6100	6000
Union	6800	7600	4700	5400	7700	10400	14500	15300	12800	9500
Van Buren	2800	3200	4000	3900	5600	6500	8600	11200	9700	7800
Wapello	36400	39600	33500	34700	51400	73100	70200	51000	46400	39900
Warren	7900	7400	8300	7800	9200	13400	18000	19300	22400	17800
Washington	2800	4800	4300	4200	9000	8800	11000	10600	6100	4300
Wayne	3300	2500	3100	4500	5900	7600	9400	8600	8900	6400
Webster	22200	21900	21500	18600	17200	36200	43900	35400	34600	22700
Winnebago	2100	1500	1800	1800	2800	4100	5500	3700	2000	4000
Winneshiek	5200	3000	4200	4700	8900	11500	11200	9500	8200	7600
Woodbury	24400	27000	21100	15200	21500	39500	50000	43500	42100	38500
Worth	2100	2100	3000	2100	2100	4100	5000	5000	5200	4400
Wright	3900	5900	3400	1200	1900	5500	7500	6600	5400	4500
State of Iowa	949000	976800	896900	880200	1174900	1754300	2165800	1979700	1817100	1372700

by at least 10 cases; the remaining 17 that declined changed by less than 10 cases. Two counties (Monona, Wayne) averaged the same number of regular AFDC cases both years.

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 1992 was 92,638 (Table 2). This figure was higher than seven of the other 12 years examined and represented increases of 1,707 from 1991 and 4,379 from 1982. Over 100,000 persons were in the program each month, on average, in both 1985 and 1986 (Figure 1).

Polk county averaged 15,308 AFDC recipients monthly in the regular program in 1992, 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 39.7% of Iowa's average monthly regular AFDC recipients. The majority (52) of Iowa's 99 counties had fewer than 350 recipients in 1992, although Osceola (87) was the only one below 100.

Increases in the number of recipients occurred in 59 counties between 1991 and 1992. Gains were under 50 in most (49) of these counties; they exceeded 100 in Johnson, Marshall, Polk, Pottawattamie, and Scott. Declines from 1991 to 1992 in the number of recipients took place in 40 counties, with Black Hawk and Jackson reporting at least 50 fewer recipients in the later year.

Iowa had 4,379 more persons receiving regular AFDC each month, on average, in 1992 than in 1982. Fifty counties followed the state trend, showing more average recipients at the end of the period than at the beginning. Only Polk (+1,605) and Scott (+2,200) recorded at least 500 more recipients in 1992 than in 1982; 10 other counties gained at least 100 persons receiving regular AFDC each month, although the increase was less than 50 in 28 other counties. Declines in regular AFDC recipients occurred in 48 counties when 1992 and 1982 were compared; only Dubuque (-580) decreased by at least 500, although another nine dropped by at least 100. Twenty-seven counties lost less than 50 recipients. Changes in either direction of less than 50 persons receiving regular AFDC benefits occurred in a majority (56) of Iowa's counties when 1992 and 1982 were compared.

Unemployed-Parent AFDC Cases and Recipients

Iowa averaged 2,222 unemployed-parent AFDC cases each month in 1992 (Table 3). The 1992 average was less than half that from 1984 through 1986, when Iowa had more than 4,500 such cases.

Nearly two-fifths (38) of the counties averaged fewer than 10 unemployed-parent cases each month in 1992. Fifty-seven counties had from 10 to 88 unemployed-parent cases. The highest monthly averages were in four counties (Black Hawk, Linn, Polk, Scott) with more than 100 each; Polk's was highest at 162.

Unemployed-parent cases decreased, on average, by 22 between 1991 and 1992 in the state. The majority (62) of the counties reported increases or decreases of fewer than three cases or no change from one year to the next. Only Black Hawk (-11) and Dubuque (-12) dropped by more than 10 cases; and only Pottawattamie (+13) gained more than 10.

Iowa's unemployed-parent case average was lower by 1,502 in 1992 than it was in 1983. Most (87) counties also had declines when comparing these years. Dubuque, Linn, and Polk had decreases of 100 or more cases. One county (Kossuth) remained the same; the remaining eleven had increases over the period, although none reported at least 10 more cases in 1992 than in 1983.

The average monthly number of AFDC recipients in the unemployed-parent program was 9,181 in 1992, a figure 476 higher than the period's low point in 1989 but 190 lower than the 1991 figure (Table 4). The averages for 1984-1986 were more than double the 1992 number; those for 1985 and 1986 were over 23,000 and 24,000, respectively.

Polk had the highest monthly average (696) of unemployed-parent recipients in 1992; Black Hawk, Linn, and Scott also were over 500. Nineteen other counties averaged at least 100 recipients. Of

the remaining 76 counties, 28 averaged between 50 and 99 recipients, 32 counties had from 20 to 49 recipients monthly, and 16 counties averaged fewer than 20 recipients. The counties with the lowest average of unemployed-parent recipients were Ida (0) and Lyon (2).

The number of recipients of unemployed-parent AFDC benefits declined between 1991 and 1992, just as it had from 1986 to 1989. Most (57) counties reported changes of fewer than 10 recipients or had the same number in 1991 and 1992. No increases were greater than 50; declines exceeded 50 in Dubuque and Scott.

Iowa averaged 4,292 fewer persons per month receiving unemployed-parent AFDC benefits in 1992 than in 1983. Most counties (79) followed the state trend, with decreases above 200 in Clinton, Dubuque, Linn, and Polk. Of the 19 counties with more unemployed-parent recipients in 1992 than in 1983, only Muscatine, Pottawattamie, and Story increased by more than 25.

AFDC Payments

Average monthly payments to regular AFDC recipients totaled \$12.7 million in 1992 (Table 5). Payments declined from 1986 to 1989, but they increased each year from 1989 to 1992 (Figure 2). Monthly payments averaged at least \$500,000 in six counties (Black Hawk, Linn, Polk, Pottawattamie, Scott, Woodbury), with Polk's figure the highest at nearly \$1.3 million. These six counties accounted for nearly half (49.6%) of the average monthly payments to regular AFDC recipients in 1992. The majority (53) of Iowa's 99 counties received payments averaging less than \$50,000 per month.

Average monthly payments to unemployed-parent AFDC recipients decreased from 1991 to 1992; sharp declines occurred from 1986 to 1989, although relatively great increases took place between 1983 and 1986 (Table 6). In 1992, average monthly payments under the unemployed parent AFDC program totaled \$950,000; the peak was reached in 1986 when more than \$2.1 million in AFDC payments went to participants in the unemployed-parent program each month. In 1992, four counties (Black Hawk, Linn, Polk, Scott) had average payments exceeding \$50,000 a month; 45 others received benefits averaging less than \$5,000 per month, of which four (Ida, Lyon, Mitchell, Osceola) were under \$1,000.

Figure 1. Average number of persons receiving regular AFDC in Iowa, 1980-1992.

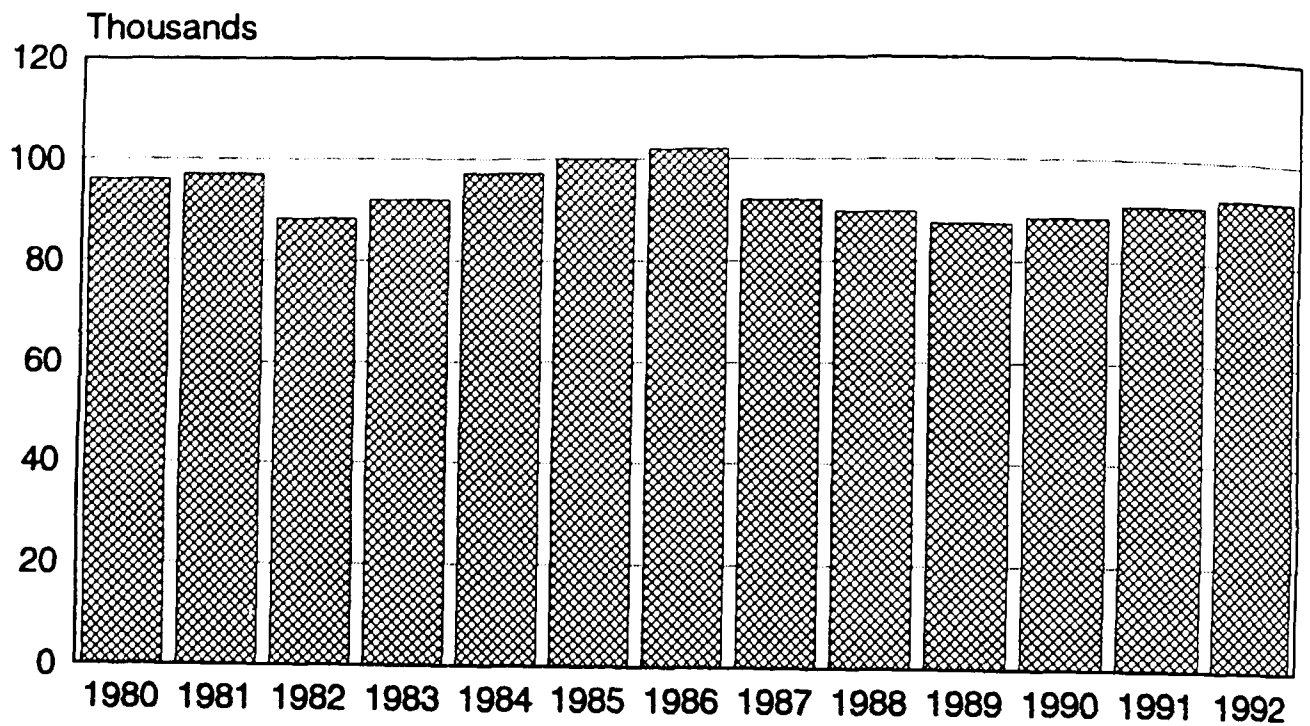
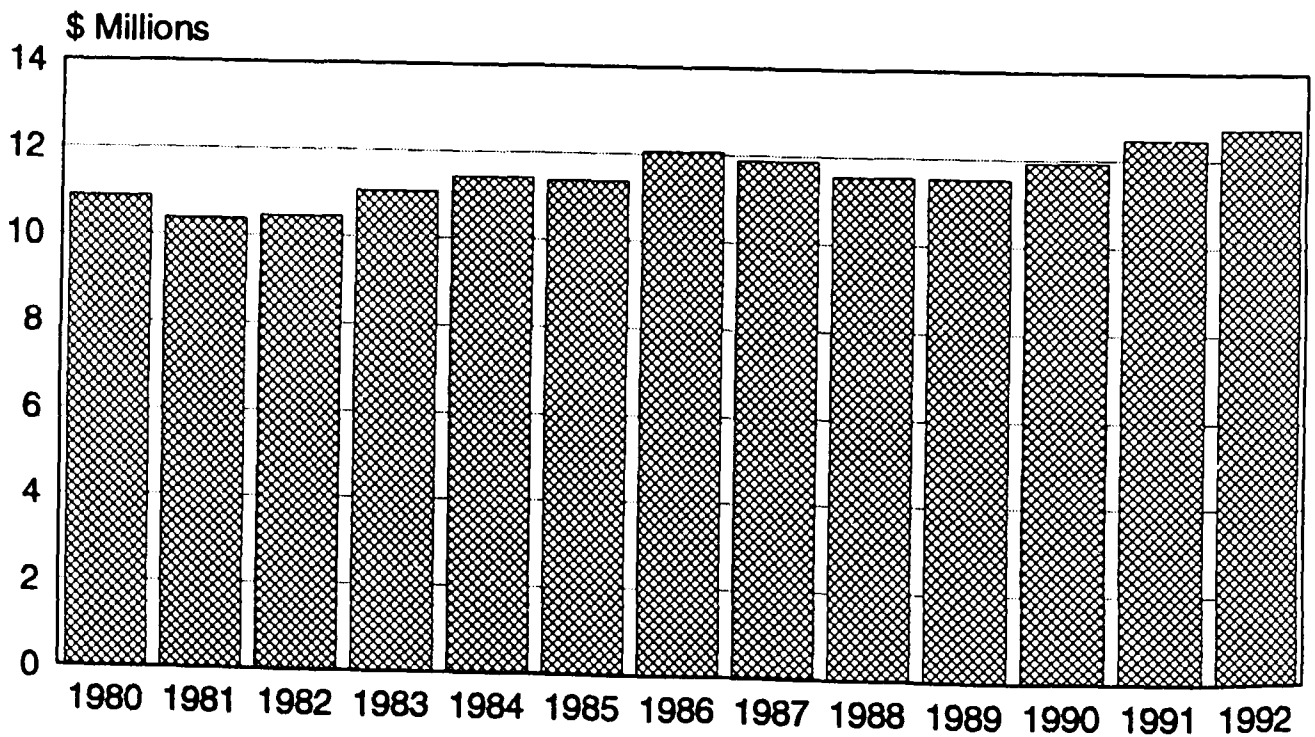


Figure 2. Average monthly benefits of persons receiving regular AFDC in Iowa, 1980-1992.



Children in Foster Care in Iowa's Counties: 1982-1992

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Information on the number of children in foster care is reported each month by the Iowa Department of Human Services. These data were summed over the months in each calendar year and divided by 12 to yield average monthly numbers. A decrease in the number of cases occurred from 1982 to 1983, although they increased each year from then through 1991 (Table 1). The average number of children in foster care declined by 175 from 1991 (3,966) to 1992 (3,791) (Figure 1). In 1990, the U.S. Bureau of the Census reported that 718,880 Iowans were 17 or younger; based on the average of 3,844 reported in foster care that year, less than one percent (0.5%) of Iowa's youth lived in such an arrangement.

Seven counties (Black Hawk, Dubuque, Linn, Polk, Pottawattamie, Scott, Woodbury) averaged at least 100 children in foster care in 1992; all of these except Dubuque had more than 100 in foster care each year. Twenty-four counties reported less than 10 under such care in 1992; 58 counties averaged 10 to 49 children in foster care, while 10 reported 50 to 99 children in this type of care in 1992. Nine counties (Adams, Calhoun, Davis, Fremont, Grundy, Lyon, Osceola, Ringgold, Taylor) never had as many as 10 in foster care in any of the years examined.

When averages for 1982 and 1992 are compared, 59 counties had more children in foster care at the end of the period than at the beginning. Polk (+154) and Woodbury (+160) had the only increases greater than 50. Twenty-three counties noted increases of 10 to 50 foster care children. Declines in the average number in foster care occurred in 35 counties, although only six were greater than 10 (Humboldt, -11; Kossuth, -24; Marshall, -41; Mitchell, -12; Pottawattamie, -22; Scott, -11). Five counties (Grundy, O'Brien, Osceola, Story, Taylor) had the same number in foster care in 1982 and 1992.

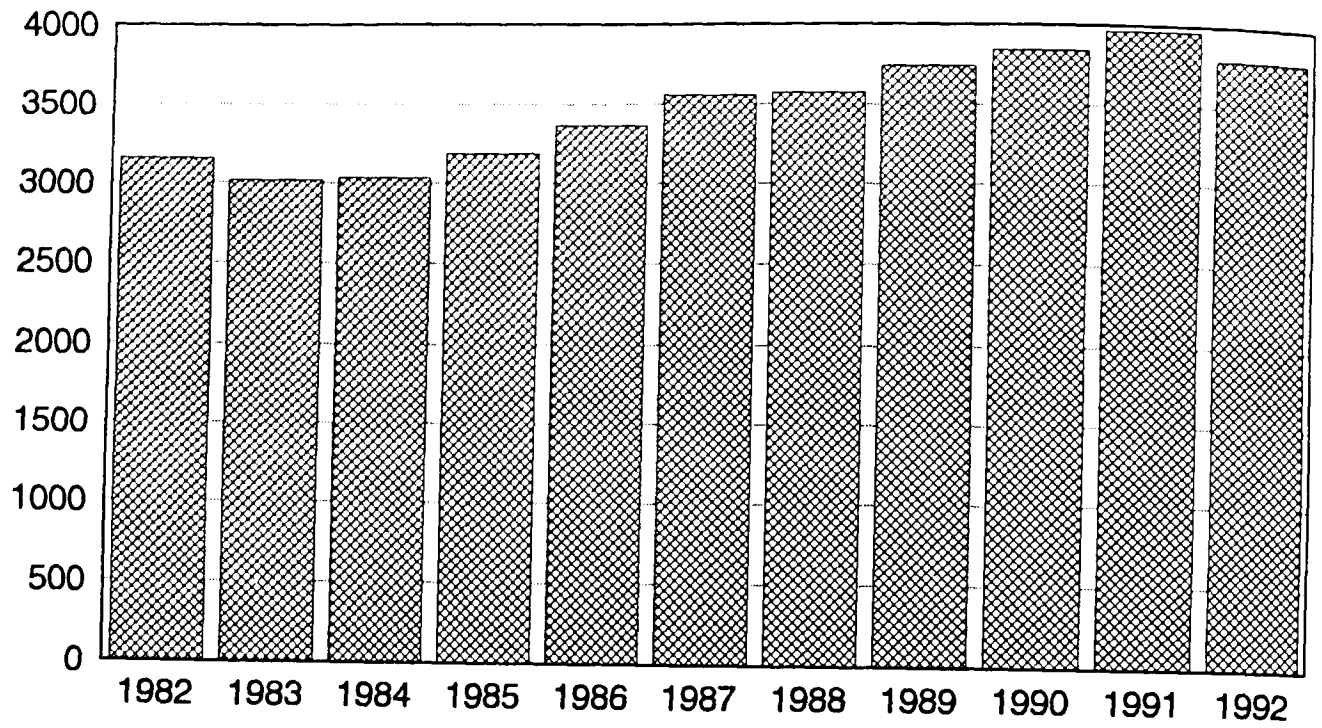
Table 1. Average Monthly Number of Children in Foster Care in Iowa Counties, 1982-1992.

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

Table 1. Average Monthly Number of Children in Foster Care in Iowa Counties, 1982-1992 (continued).

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

Figure 1. Average monthly number of children in foster care in Iowa, 1982-1992.



Founded Child Abuse in Iowa's Counties:

1982-1992

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Lola Mae Baldwin, Iowa Department of Human Services

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 1992, 7,934 children were determined to be abused in Iowa (Table 1). The number abused peaked in 1990 and declined by 281 to 1992 (Figure 1).

Polk had 1,474 children with founded abuse in 1992, the highest number reported among the state's 99 counties. Five other counties (Black Hawk, Linn, Pottawattamie, Scott, Woodbury) had more than 300 children abused; these five counties plus Polk accounted for more than two of every five (45.9%) cases of child abuse in 1992. Twelve counties had between 100 and 299 abused children, 14 counties ranged from 50 to 99, while 63 counties reported 10 to 49 children abused. For four counties (Audubon, Ida, Pocahontas, Van Buren), the number of abused children in 1992 was under 10.

Forty-four counties had more abused children in 1992 than in 1991. For some of these counties, the differences between the two years were small; in 14 of these 44, for example, the gains were less than 10. For three (Kossuth, Page, Scott), however, the increases were 30 or greater. Fifty-two counties had fewer children with founded abuse in 1992 than in 1991. From one to nine fewer abused children were recorded for 24 counties. Declines exceeded 50 cases in Linn, Muscatine, and Polk counties.

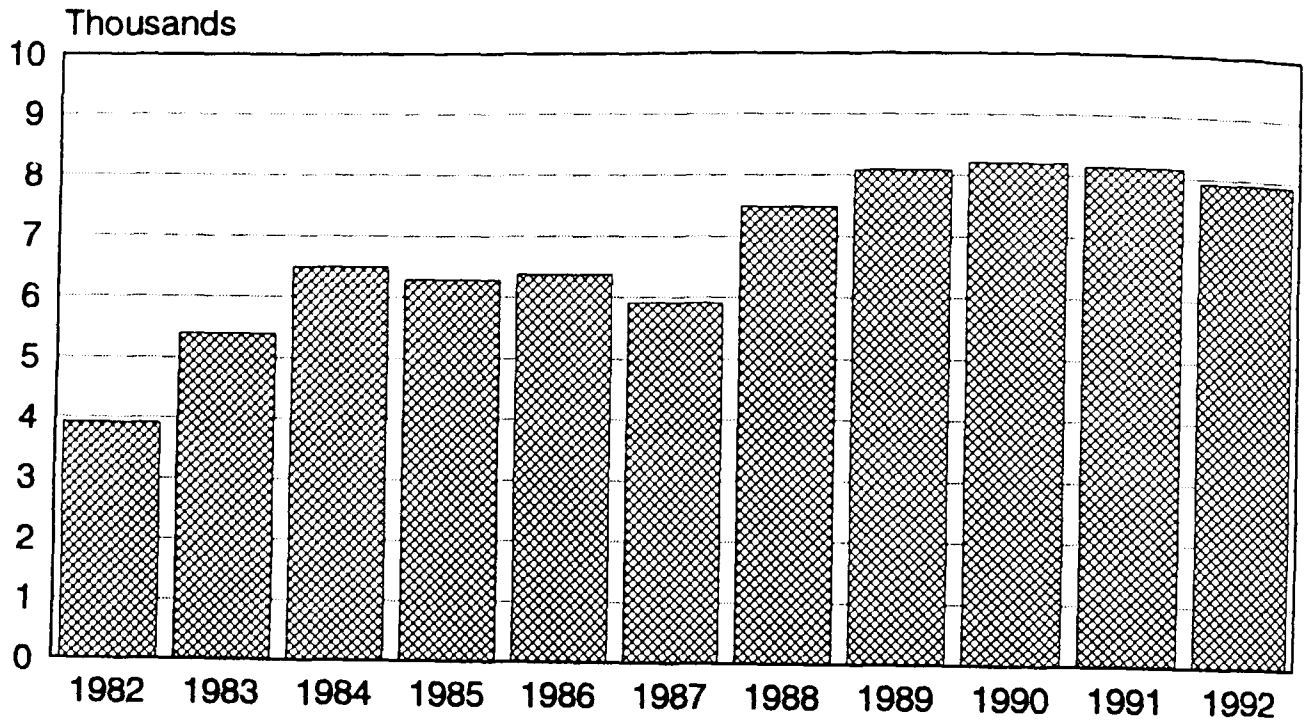
Table 1. Number of Children in Founded Cases of Child Abuse in Iowa Counties, 1982-1992.

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

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

Figure 1. Abused children in Iowa, 1982-1992.



Infant Mortality in Iowa's Counties: 1980-1992

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In 1992, 307 infants died before they reached one year of age in the State of Iowa (Table 1), according to records kept by the Iowa Department of Public Health. That was the lowest number of infant deaths from 1980 to that year (Figure 1). The 1992 number was only 54.3% of the 565 infant deaths in 1980. The reduction occurred throughout the period, with declines greater than 50 between 1980 and 1981, 1982 and 1983, and 1985 and 1986. Slight increases took place from 1984 to 1985 and from 1986 to 1987. Deaths are reported for the county of residence of the deceased, while births are recorded by the county of residence of the mother; neither are based on where the event occurred.

A total of 4,881 infants died during the 13 years from 1980 through 1992. Polk (738) had the highest number during this period. Seven others (Black Hawk, Dubuque, Johnson, Linn, Pottawattamie, Scott, Woodbury) each reported at least 100 infant deaths. These eight counties accounted for nearly half (2,407, 49.3%) of the deaths to infants from 1980 through 1992. Sixteen counties had 12 or fewer infant deaths during these 13 years, or an average of less than one per year. Two-thirds (66) of the 99 counties counted more than 12 but less than 50 infant deaths.

Infant mortality rates are reported as the number of deaths to infants under one year of age for every 1,000 live births (infant deaths divided by live births, with the result multiplied by 1,000). For the entire 13-year period, the infant mortality rate was 9.1 (or 9.1 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 8.0 reported for 1992 (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 8.9 for the 1985-1988 period, and it was 8.1 when the data were added from 1989 through 1992.

Nearly a third (31) of Iowa's 99 counties had infant mortality rates equaling or exceeding the state figure of 9.1 for the 1980-1992 period. Sixteen counties reported rates of 10.0 or higher (Figure 3). Five (Audubon, Emmet, Taylor, Van Buren, Woodbury) had rates of at least 11.2; these were the only counties with rates at least two points above that for the state. Thirty-one counties were more than two points below the state's rate. Four (Adair, Monona, Osceola, Union) had rates that were less than half that of the state. Another seven ranged from 5.0 to 5.9, while 16 had infant mortality rates that varied from 6.0 to 6.9.

Thirty-three counties matched the state's pattern of declining mortality rates across the three subperiods (1980-1984, 1985-1988, 1989-1992) (Table 2). But eight others (Adair, Fremont, Lucas, Marion, Sioux, Story, Taylor, 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 three or four 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, 1980-1992.

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

Table 1. Infant Mortality in Iowa Counties, 1980-1992 (continued).

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

Table 2. Infant Mortality Rates Per 1,000 Live Births in Iowa Counties for Selected Periods from 1980 through 1992.

County	1980- 1992	1989- 1992	1985- 1988	1980- 1984	County	1980- 1992	1989- 1992	1985- 1988	1980- 1984
Adair	4.1	5.0	4.8	3.0	Jefferson	7.5	11.8	1.2	9.1
Adams	9.1	8.5	7.5	10.7	Johnson	9.6	9.2	8.0	11.3
Allamakee	6.1	3.9	6.0	7.6	Jones	5.6	4.1	8.3	5.0
Appanoose	8.3	8.9	7.2	8.6	Keokuk	10.1	6.4	15.0	9.4
Audubon	11.2	15.6	5.3	12.6	Kossuth	7.9	7.6	7.8	8.1
Benton	6.6	4.8	7.7	7.1	Lee	10.3	8.4	9.7	12.0
Black Hawk	9.8	8.6	7.5	12.0	Linn	9.9	7.6	9.9	11.9
Boone	9.7	6.5	10.9	11.0	Louisa	11.0	11.6	10.1	11.3
Bremer	6.0	3.0	5.8	7.7	Lucas	5.7	11.9	4.6	2.8
Buchanan	9.0	3.9	9.3	11.8	Lyon	6.1	7.3	2.8	7.3
Buena Vista	6.3	1.9	6.0	9.5	Madison	5.8	4.7	5.0	7.4
Butler	6.9	4.4	6.4	8.6	Mahaska	7.7	7.7	7.3	8.1
Calhoun	9.4	6.2	9.0	11.4	Marion	7.9	9.0	8.9	6.4
Carroll	5.2	2.6	5.8	6.4	Marshall	8.5	5.7	10.9	8.6
Cass	10.1	9.2	7.9	11.9	Mills	6.6	0.0	10.5	8.2
Cedar	8.6	9.3	6.0	9.8	Mitchell	9.8	13.2	5.3	10.7
Cerro Gordo	8.2	5.9	8.0	10.1	Monona	4.0	4.0	4.5	3.7
Cherokee	8.5	11.6	5.4	8.7	Monroe	9.7	2.4	14.7	11.3
Chickasaw	7.6	4.2	8.5	8.9	Montgomery	8.4	9.8	10.2	6.4
Clarke	9.4	2.3	8.9	15.0	Muscataine	10.6	10.8	9.4	11.3
Clay	8.7	5.0	10.3	10.1	O'Brien	7.3	10.6	3.9	7.5
Clayton	8.2	8.1	8.7	8.0	Osceola	2.9	0.0	2.6	4.8
Clinton	6.6	5.9	7.1	6.6	Page	9.0	5.2	9.8	10.8
Crawford	9.8	2.4	10.5	13.4	Palo Alto	8.4	6.6	3.5	12.2
Dallas	8.5	7.1	11.3	7.6	Plymouth	8.0	8.7	5.1	9.5
Davis	5.4	2.1	10.4	4.2	Pocahontas	5.2	0.0	7.5	6.5
Decatur	5.0	5.4	2.4	6.6	Polk	11.0	10.7	11.3	11.1
Delaware	9.0	3.7	11.9	10.3	Pottawattamie	11.0	8.3	11.3	12.9
Des Moines	10.5	6.5	11.8	12.3	Poweshiek	8.1	3.3	7.2	12.2
Dickinson	8.6	11.1	7.5	7.8	Ringgold	9.2	9.7	16.7	4.7
Dubuque	8.3	7.4	7.9	9.2	Sac	8.7	7.1	8.1	9.9
Emmet	14.1	7.3	12.0	19.1	Scott	9.4	9.1	8.4	10.4
Fayette	8.8	7.0	8.8	10.0	Shelby	8.1	15.3	4.5	6.2
Floyd	6.6	2.3	8.2	8.4	Sioux	7.0	8.1	6.7	6.6
Franklin	9.9	9.8	6.7	12.0	Story	7.7	8.1	7.8	7.3
Fremont	7.5	9.8	9.0	4.8	Tama	7.0	4.6	6.5	8.8
Greene	6.9	4.4	5.7	9.0	Taylor	11.5	19.4	9.3	8.5
Grundy	6.4	5.6	5.4	7.5	Union	3.6	8.3	3.3	1.0
Guthrie	7.9	7.6	4.4	10.2	Van Buren	11.4	13.5	7.0	13.3
Hamilton	8.2	11.8	4.8	8.2	Wapello	10.0	9.6	10.5	9.9
Hancock	10.3	7.9	2.8	16.3	Warren	6.7	5.4	9.3	5.9
Hardin	6.6	6.0	8.5	5.7	Washington	8.2	8.7	6.3	9.3
Harrison	6.2	2.6	9.2	6.3	Wayne	7.0	6.5	0.0	12.0
Henry	7.8	5.1	8.2	9.5	Webster	10.6	8.6	10.9	11.8
Howard	6.4	2.0	7.5	8.4	Winnebago	8.0	5.1	10.8	8.0
Humboldt	7.6	8.8	10.1	5.4	Winneshiek	7.2	3.9	8.1	8.9
Ida	6.6	8.9	4.1	7.0	Woodbury	13.3	13.4	12.2	13.9
Iowa	9.9	7.0	13.3	9.9	Worth	7.0	2.5	4.8	11.5
Jackson	9.2	9.5	10.9	7.9	Wright	9.0	9.2	7.0	10.1
Jasper	7.9	5.5	10.7	7.7					
					State of Iowa	9.1	8.1	8.9	10.0

Figure 1. Infant mortality in Iowa, 1980-1992.

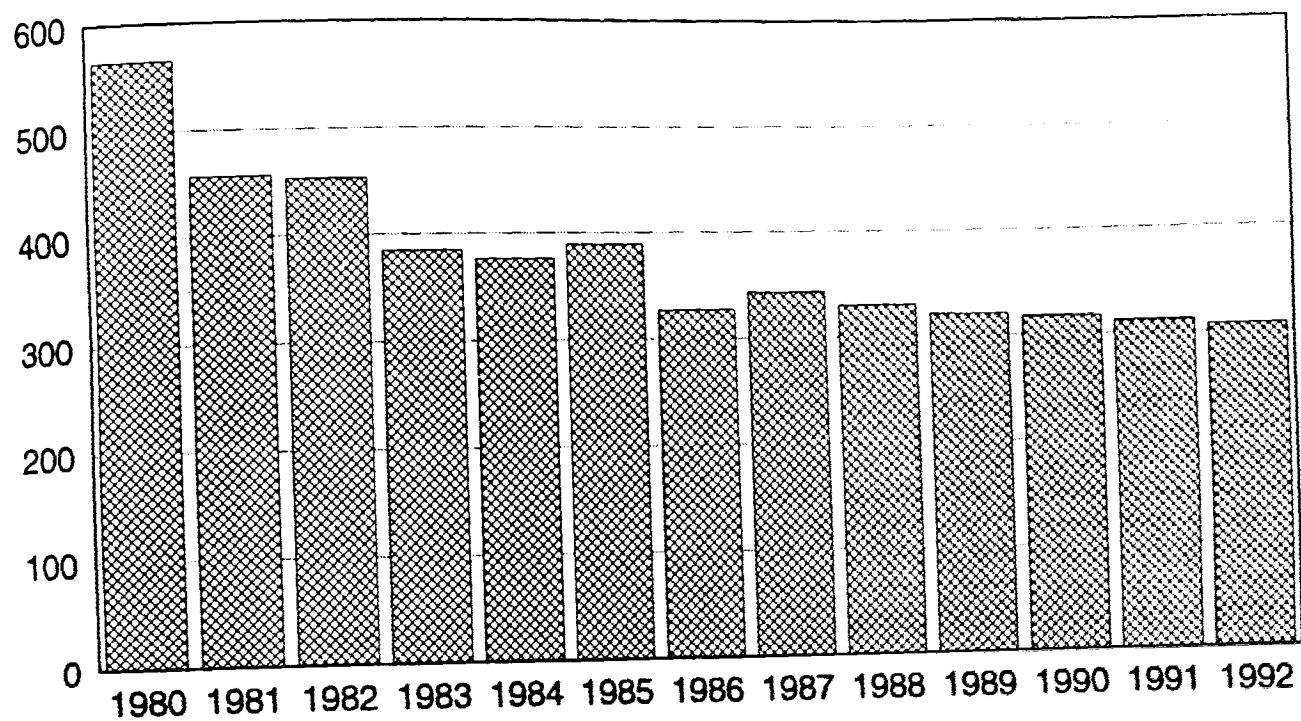


Figure 2. Infant mortality rate in Iowa, 1980-1992.

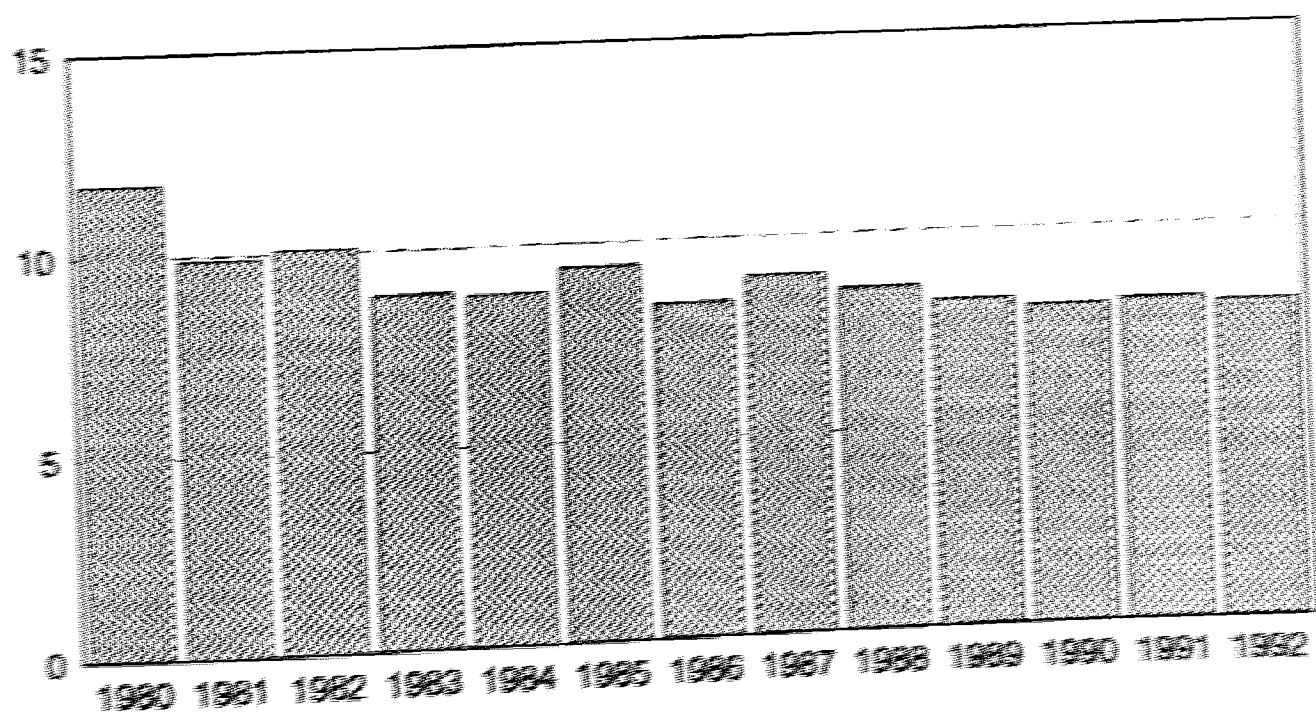
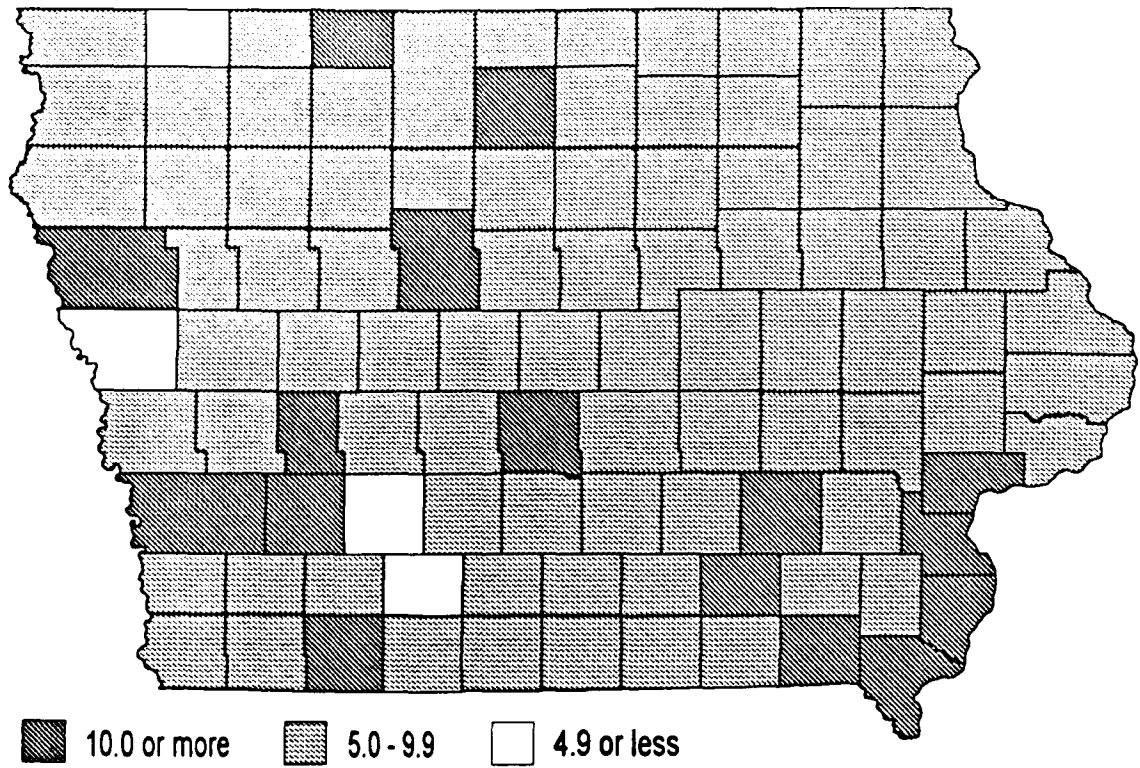


Figure 3. Infant mortality rate, 1980-1992.



Public and Non-Public School Enrollment in Iowa's Counties: 1980-1992

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

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 1992, 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 1992, 489,670 students were enrolled in public schools in Iowa (Table 1). This was about 44,000 fewer than the 533,756 reported in 1980. Declines occurred annually from 1980 through 1988, but slight gains took place from 1988 to 1992. About 13,500 more public school students were counted in 1992 than at the low point in 1988 (Figure 1).

Thirty counties had more students in public schools in 1992 than 10 years earlier, although only three (Johnson, Polk, Story) had at least 1,000 more. Declines in the other 69 counties ranged from less than 200 in 35 counties to more than 1,000 in six (Black Hawk, Clinton, Dubuque, Linn, Marshall, Scott).

Seven counties (Buena Vista, Carroll, Dallas, Ida, Johnson, Sioux, Story) had at least 10% more public school students in 1992 than in 1982; gains in the other 23 ranged from 0.7% to 9.3%. Twenty-three counties decreased by less than 5% from 1982 to 1992. Four (Chickasaw, Crawford, Hardin, Taylor) declined by at least 15% in the last 10 years.

Enrollment in Non-Public Schools

A total of 45,242 non-public school students were enrolled in Iowa in 1992 (Table 2). This was down 7,262 from the 52,504 reported in 1980. In only one year in this period was there a slight increase; there were 180 more non-public school students in 1988 than in 1987.

Thirty counties had no students enrolled in non-public schools from 1980 through 1992 according to reports from the Iowa Department of Education. That does not necessarily mean that some students of non-public schools do not live in these counties; they could, but the location of the administrative headquarters could be in another county. It could also be that a school did not file an enrollment report. There were seven counties (Cedar, Emmet, Hardin, Jefferson, Keokuk, Poweshiek, Sac) for which non-public school students were reported for some but not all years of the decade.

Table 1. Public School Enrollment in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1982-1992 Change	
														No.	%
Adair	1252	1184	1188	1148	1149	1224	1222	1248	1249	1277	1258	1303	1364	-6	-0.5
Adams	728	770	773	767	819	816	792	804	791	776	835	842	900	-107	-12.8
Allamakee	2774	2762	2744	2770	2744	2798	2809	2882	2891	2982	3085	3098	3383	-311	-10.1
Appanoose	2524	2518	2502	2485	2542	2575	2532	2473	2542	2595	2636	2712	2798	-112	-4.2
Audubon	1237	1211	1211	1184	1201	1232	1266	1310	1327	1361	1387	1417	1499	-150	-10.8
Benton	4362	4322	4325	4297	4191	4233	4278	4306	4330	4439	4534	4735	4923	-172	-3.8
Black Hawk	18143	18625	18791	18710	18570	18819	18981	19539	20094	20722	21170	21248	21869	-3027	-14.3
Boone	4099	4043	3992	3934	3920	3874	3928	3948	3912	3956	3988	4129	4258	111	2.8
Bremer	5774	5699	5594	5675	5639	5718	5853	6021	6129	6154	6273	6455	6697	-499	-8.0
Buchanan	3446	3382	3424	3353	3305	3270	3180	3273	3357	3423	3517	3616	3704	-71	-2.0
Buena Vista	3432	3445	3312	3130	3095	3039	3191	3076	3077	3061	3069	3140	3230	363	11.8
Butler	2656	2667	2769	2741	2827	2790	2778	2846	2918	2994	3055	3193	3291	-399	-13.1
Calhoun	2609	2602	2460	2465	2324	2482	2520	2536	2580	2634	2659	2822	2913	-50	-1.9
Carroll	3295	3179	3069	2926	2863	2688	2648	2653	2674	2710	2799	2808	2952	496	17.7
Cass	3194	3261	3236	3238	3162	3215	3200	3228	3248	3299	3347	3457	3566	-153	-4.6
Cedar	3674	3640	3671	3597	3589	3530	3518	3564	3677	3717	3799	3848	3981	-125	-3.3
Cerro Gordo	7321	7349	7320	7282	7344	7436	7301	7272	7294	7220	7212	7493	7721	109	1.5
Cherokee	2810	2794	2791	2767	2828	2899	2824	2873	2922	2979	3025	3108	3216	-215	-7.1
Chickasaw	2346	2339	2367	2359	2388	2422	2477	2566	2613	2684	2771	2863	3061	-425	-15.3
Clarke	1753	1745	1722	1634	1702	1736	1664	1656	1600	1658	1643	1667	1694	110	6.7
Clay	3458	3450	3419	3392	3366	3249	3245	3349	3349	3359	3339	3402	3513	119	3.6
Clayton	3737	3769	3780	3785	3816	3789	3760	3876	3912	3950	4006	4067	4135	-269	-6.7
Clinton	9365	9418	9325	9359	9374	9385	9626	9816	9950	10265	10635	10963	11262	-1270	-11.9
Crawford	2956	3210	3243	3279	3428	3498	3577	3640	3622	3636	3729	3752	3788	-773	-20.7
Dallas	6887	6776	6627	6417	6350	6355	6258	6249	6134	6113	6147	6358	6456	740	12.0
Davis	1410	1423	1398	1365	1430	1440	1473	1492	1514	1534	1573	1600	1608	-163	-10.4
Decatur	1442	1460	1480	1458	1457	1543	1553	1533	1558	1604	1655	1692	1687	-213	-12.9
Delaware	3679	3608	3581	3453	3464	3427	3400	3394	3434	3680	3599	3679	3790	80	2.2
Des Moines	7645	7715	7762	7750	7765	7820	7813	7762	7789	7805	8031	8253	8607	-386	-4.8
Dickinson	2790	2771	2807	2804	2735	2741	2754	2789	2825	2819	2796	2832	2938	-6	-0.2
Dubuque	12063	11893	11869	12019	12232	12814	13105	12408	12643	12941	13370	13855	14644	-1307	-9.8
Emmet	2247	2271	2278	2324	2332	2308	2300	2369	2655	2516	2557	2657	2677	-310	-12.1
Fayette	4481	4440	4449	4396	4412	4435	4509	4724	4853	5164	5256	5334	5665	-775	-14.7
Floyd	3224	3207	3174	3142	3211	3238	3253	3350	3510	3565	3719	3860	4004	-495	-13.3
Franklin	1968	1941	1985	1856	1762	1733	1808	1806	1819	1887	1865	1896	1945	103	5.5
Fremont	1692	1704	1688	1672	1671	1717	1736	1743	1804	1764	1752	1728	1769	-60	-3.4
Greene	1949	1996	1905	1887	1894	1841	1934	2019	2063	2023	2103	2223	2329	-154	-7.3
Grundy	2740	2261	2223	2267	2314	2341	2418	2488	2571	2622	2716	2825	2855	24	0.9
Guthrie	2411	2453	2477	2424	2434	2581	2575	2626	2660	2716	2725	2757	2885	-314	-11.5
Hamilton	3074	3088	3099	3184	3056	3081	3055	3107	3176	3235	3318	3406	3539	-244	-7.4
Hancock	2332	2397	2393	2352	2402	2390	2381	2404	2365	2424	2443	2537	2583	-111	-4.5
Hardin	3707	4022	3956	3956	3959	3787	4055	4086	4230	4362	4452	4532	4786	-745	-16.7
Harrison	3063	3032	3016	2926	3049	3074	3041	3105	3208	3232	3309	3374	3476	-246	-7.4
Henry	3960	3861	4161	3668	3618	3593	3637	3607	3585	3597	3645	3672	3764	315	8.6
Howard	2168	2143	2119	2063	2055	2045	2080	2103	2101	2223	2284	2336	2479	-116	-5.1
Humboldt	1916	1948	1912	1899	1887	1927	1897	1967	1991	2027	2124	2234	2339	-208	-9.8
Ida	1644	1585	1580	1569	1525	1544	1489	1446	1395	1423	1462	1446	1513	182	12.4
Iowa	2973	2913	2828	2635	2587	2604	2639	2698	2651	2719	2827	2953	3116	146	5.2
Jackson	3725	3675	3621	3588	3655	3753	3730	3809	3998	4203	4205	4321	4455	-480	-11.4
Jasper	6411	6439	6344	6338	6319	6452	6428	6463	6456	6598	6590	6897	7034	-179	-2.7

Table 1. Public School Enrollment in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1982-1992 Change	
														No.	%
Jefferson	2014	2102	1977	1976	2020	2017	2036	2120	2246	2282	2349	2467	2596	-335	-14.3
Johnson	11654	11388	11070	10953	11036	10553	10358	10298	10140	10183	10357	10381	10596	1297	12.5
Jones	3337	3211	3214	3304	3279	3315	3367	3470	3517	3546	3637	3702	3950	-300	-8.2
Keokuk	2399	2437	2447	2436	2410	2429	2395	2451	2450	2402	2362	2480	2618	37	1.6
Kossuth	2685	2679	2702	2649	2561	2487	2583	2718	2754	2807	2883	2986	3183	-198	-6.9
Lee	6540	6533	6380	6287	6323	6535	6550	6532	6483	6607	6771	6815	7035	-231	-3.4
Linn	29409	28745	28410	28424	28743	28804	28960	29454	29960	30566	31391	32196	33286	-1982	-6.3
Louisa	2824	2720	2803	2852	2842	2838	2829	2824	2817	2918	2887	3041	3115	-63	-2.2
Lucas	1580	1583	1574	1607	1587	1655	1647	1647	1678	1701	1733	1769	1832	-153	-8.8
Lyon	2262	2256	2264	2276	2288	2318	2286	2239	2206	2227	2316	2379	2415	-54	-2.3
Madison	2845	2847	2813	2846	2857	2840	2836	2824	2835	2819	2810	2917	2972	35	1.2
Mahaska	3367	3286	3294	3273	3241	3223	3259	3262	3323	3304	3280	3235	3314	87	2.7
Marion	5462	5468	5424	5332	5387	5313	5266	5320	5382	5384	5385	5525	5634	77	1.4
Marshall	6414	6721	6816	6751	6775	6947	6936	6959	7124	7358	7473	7655	8043	-1059	-14.2
Mills	2656	2586	2577	2573	2599	2641	2533	2612	2632	2621	2636	2626	2587	20	0.8
Mitchell	1839	1819	1810	1807	1814	1836	1808	1780	1816	1831	1896	1987	2142	-57	-3.0
Monona	1826	1858	1832	1825	1831	1841	1844	1879	1914	1930	2007	2095	2182	-181	-9.0
Monroe	1404	1376	1358	1364	1337	1367	1376	1410	1433	1457	1498	1518	1567	-94	-6.3
Montgomery	2137	2219	2165	2169	2230	2182	2212	2274	2253	2278	2241	2283	2309	-104	-4.6
Muscatine	7865	7842	7689	7602	7449	7554	7585	7536	7508	7702	7775	7815	7937	90	1.2
O'Brien	2969	2930	2926	2835	2833	2804	2799	2804	2774	2807	2848	2910	2994	121	4.2
Osceola	1019	984	955	935	938	959	943	949	971	993	1012	1018	1153	7	0.7
Page	3098	3161	3201	3208	3132	3156	3130	3169	3196	3162	3188	3243	3313	-90	-2.8
Palo Alto	2079	2076	2048	2035	2070	2106	2001	2038	2087	2150	2220	2326	2465	-141	-6.4
Plymouth	4364	4322	4182	4081	4067	4047	3932	3894	3888	3865	3993	4057	4265	371	9.3
Pocahontas	1670	1665	1798	1668	1636	1663	1683	1722	1802	1844	1914	1951	2045	-244	-12.7
Polk	55288	53999	53727	52029	51474	51340	51072	51299	51062	51197	51834	53303	54885	3454	6.7
Pottawattamie	16065	16113	15931	15667	15638	15880	15914	15981	16054	16364	16551	17062	17599	-486	-2.9
Poweshiek	3090	3102	3011	3019	3088	3155	3098	3102	3153	3203	3318	3432	3517	-228	-6.9
Ringgold	1006	1037	1020	1059	1049	1003	975	1009	1065	1118	1090	1124	1141	-84	-7.7
Sac	2402	2401	2478	2426	2379	2423	2371	2368	2381	2447	2518	2552	2654	-116	-4.6
Scott	28508	28422	27841	27703	27634	28112	28386	29035	30002	30567	30783	31522	32336	-2275	-7.4
Shelby	2598	2486	2425	2349	2320	2328	2371	2451	2572	2621	2650	2778	2964	-52	-2.0
Sioux	4281	3888	4018	3895	3868	3816	3730	3737	3684	3750	3741	3835	3965	540	14.4
Story	11097	10506	10166	9973	9828	9758	9513	9543	9502	9577	9638	9888	10252	1459	15.1
Tama	3507	3305	3279	3354	3348	3378	3412	3460	3536	3586	3678	3830	3988	-171	-4.6
Taylor	1291	1338	1368	1410	1469	1503	1429	1493	1510	1494	1518	1548	1597	-227	-15.0
Union	2321	2392	2375	2452	2447	2463	2483	2494	2568	2574	2568	2598	2674	-247	-9.6
Van Buren	1449	1431	1419	1419	1441	1471	1487	1503	1531	1540	1570	1618	1686	-121	-7.7
Wapello	6683	6667	6544	6537	6562	6795	6909	7121	7306	7313	7403	7556	7856	-720	-9.7
Warren	7312	7261	7127	6941	7027	7144	6994	6955	6956	7048	7127	7264	7467	185	2.6
Washington	3455	3495	3455	3373	3392	3403	3411	3398	3447	3470	3548	3579	3702	-93	-2.6
Wayne	1249	1280	1247	1206	1201	1209	1237	1259	1307	1368	1396	1399	1414	-147	-10.5
Webster	6052	6069	6130	6093	6164	6138	6283	6278	6359	6457	6607	7029	7358	-555	-8.4
Winnebago	2892	2860	2901	2844	2766	2795	2771	2759	2744	2758	2751	2829	2975	141	5.1
Winneshiek	2780	2725	2663	2605	2647	2598	2590	2573	2540	2572	2704	2771	2882	76	2.8
Woodbury	18030	18203	17661	17618	17422	17485	17169	16984	16953	17146	17062	17401	17994	968	5.7
Worth	1237	1217	1137	1131	1183	1184	1246	1279	1296	1300	1351	1409	1429	-114	-8.4
Wright	2813	2818	2759	2745	2721	2870	2786	2876	2910	2960	2983	3075	3212	-170	-5.7
State of Iowa	489670	486235	482171	476605	476114	478982	479282	483444	488673	495821	503545	516174	533756	-13875	-2.8

Table 2. Non-Public School Enrollment in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1982-1992 Change	
														No.	%
Adair	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Adams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Allamakee	194	197	187	183	199	192	207	219	214	217	215	190	185	-21	-9.8
Appanoose	57	54	89	88	81	111	110	95	106	119	113	113	108	-56	-49.6
Audubon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Benton	132	123	161	152	143	139	102	131	144	149	156	151	164	-24	-15.4
Black Hawk	3727	3731	3832	3715	3806	3809	3754	3725	3827	3858	3776	3726	3781	-49	-1.3
Boone	242	252	277	306	331	337	329	329	338	317	285	264	242	-43	-15.1
Bremer	247	263	375	376	393	399	391	301	322	336	405	395	397	-158	-39.0
Buchanan	245	267	252	260	311	315	340	375	390	422	446	448	430	-201	-45.1
Buena Vista	346	327	335	295	325	353	356	348	367	365	364	358	372	-18	-4.9
Butler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Calhoun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Carroll	1807	1848	1862	1884	1877	1959	1989	2013	2075	2138	2226	2331	2441	-419	-18.8
Cass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Cedar	0	0	0	0	0	0	0	0	0	0	0	11	11	0	---
Cerro Gordo	823	793	773	813	733	667	822	732	757	750	758	671	674	65	8.6
Cherokee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Chickasaw	156	165	166	177	190	175	187	195	206	222	220	238	240	-64	-29.1
Clarke	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Clay	144	153	152	155	173	194	185	178	189	193	195	203	214	-51	-26.2
Clayton	155	162	160	164	167	173	168	158	179	183	184	193	207	-29	-15.8
Clinton	534	545	570	569	643	737	828	900	939	940	950	906	965	-416	-43.8
Crawford	326	310	354	351	352	376	363	361	403	445	417	422	433	-91	-21.8
Dallas	169	177	277	294	306	311	218	200	236	245	236	212	218	-67	-28.4
Davis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Decatur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Delaware	337	341	322	333	312	298	303	285	280	255	260	277	279	77	29.6
Des Moines	415	396	403	368	464	491	511	446	451	407	443	494	482	-28	-6.3
Dickinson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Dubuque	6172	6357	6148	6572	6747	6649	6895	7244	7506	7807	8046	8472	8762	-1874	-23.3
Emmet	37	45	48	22	18	20	28	23	0	0	0	0	0	37	---
Fayette	297	292	306	335	352	339	340	325	344	330	331	335	342	-34	-10.3
Floyd	200	210	244	262	283	237	256	252	250	267	279	280	265	-79	-28.3
Franklin	47	44	59	52	62	59	32	34	39	36	41	27	28	6	14.6
Fremont	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Greene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Grundy	55	61	74	74	82	78	70	72	69	70	67	58	49	-12	-17.9
Guthrie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Hamilton	113	83	84	97	105	92	103	105	93	96	100	105	105	13	13.0
Hancock	62	70	75	74	60	56	61	62	69	70	66	72	67	-4	-6.1
Hardin	0	0	0	0	0	0	0	0	0	0	0	14	15	0	---
Harrison	54	45	56	65	65	68	78	78	73	65	64	65	59	-10	-15.6
Henry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Howard	174	214	263	262	279	301	298	295	287	289	291	306	313	-117	-40.2
Humboldt	184	181	170	132	134	147	149	147	152	142	120	121	127	64	53.3
Ida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Iowa	199	196	222	218	228	191	219	224	236	247	238	243	240	-39	-16.4
Jackson	540	549	559	595	593	605	608	631	642	662	634	660	676	-94	-14.8
Jasper	179	200	212	221	239	220	226	230	234	218	213	205	210	-34	-16.0

Table 2. Non-Public School Enrollment in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1982-1992 Change	
														No.	%
Jefferson	415	418	0	575	493	353	293	218	262	246	104	0	0	311	299.0
Johnson	756	720	766	633	609	583	571	584	586	601	604	586	610	152	25.2
Jones	214	218	242	225	244	267	282	264	268	274	268	280	286	-54	-20.1
Keokuk	0	0	0	0	15	0	0	0	0	95	102	102	111	-102	-100.0
Cossuth	904	956	934	967	1065	1287	1130	1180	1218	1294	1328	1370	1425	-424	-31.9
Lee	966	966	1053	1079	1148	1143	1195	1234	1350	1383	1382	1413	1390	-416	-30.1
Linn	2977	2953	3089	2973	3084	3080	3130	3162	3277	3286	3328	3359	3389	-351	-10.5
Louisa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Lucas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Lyon	145	126	125	156	158	163	174	189	186	188	187	183	175	-42	-22.5
Madison	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Mahaska	202	208	220	211	221	227	213	197	190	192	203	189	183	-1	-.5
Marion	847	831	838	826	837	812	795	785	784	778	748	736	729	99	13.2
Marshall	359	377	375	383	364	347	350	361	383	410	418	396	301	-59	-14.1
Mills	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Mitchell	177	190	195	201	199	232	247	243	240	252	250	240	255	-73	-29.2
Monona	76	72	79	68	88	81	88	88	88	90	93	91	91	-17	-18.3
Monroe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Montgomery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Muscatine	197	230	223	223	252	270	263	256	272	269	261	279	268	-64	-24.5
O'Brien	487	508	548	573	596	593	560	547	516	547	559	550	565	-72	-12.9
Osceola	53	55	57	73	94	101	110	112	103	114	114	116	122	-61	-53.5
Page	89	87	87	91	95	99	109	93	107	111	100	94	76	-11	-11.0
Palo Alto	259	261	279	276	276	268	263	262	275	272	259	259	268	0	0.0
Plymouth	992	982	1001	1014	1004	1021	1051	1046	1058	1082	1096	1097	1139	-104	-9.5
Pocahontas	194	189	181	175	131	137	135	150	148	150	154	177	186	40	26.0
Polk	4588	4946	5197	5091	5302	5278	5617	5646	5714	5689	5586	5480	5529	-998	-17.9
Pottawattamie	939	913	991	1023	1038	1081	1048	903	922	944	902	936	926	37	4.1
Poweshiek	13	22	35	21	17	13	9	8	8	0	0	0	0	13	---
Ringgold	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Sac	0	0	0	54	61	61	55	55	68	78	79	63	67	-79	-100.0
Scott	2736	2691	2880	2999	2712	2683	2674	2805	2728	2796	2901	2978	2908	-165	-5.7
Shelby	339	339	319	323	342	350	335	335	347	374	399	408	404	-60	-15.0
Sioux	2853	2892	2809	2869	2840	2686	2663	2634	2608	2354	2380	2423	2459	473	19.9
Story	168	167	182	197	186	186	173	184	185	189	190	187	191	-22	-11.6
Tama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Taylor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Union	114	123	128	130	127	146	130	94	96	105	119	125	122	-5	-4.2
Van Buren	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Wapello	129	120	136	142	150	143	150	102	107	138	137	137	106	-8	-5.8
Warren	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Washington	279	272	299	307	315	284	314	312	295	296	289	280	286	-10	-3.5
Wayne	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Webster	1184	1166	1238	1260	1478	1308	1318	1375	1385	1435	1436	1491	1508	-252	-17.5
Winnebago	19	17	16	13	13	11	14	12	12	12	9	10	11	10	111.1
Winneshiiek	517	529	605	558	548	543	560	561	537	537	532	533	525	-15	-2.8
Woodbury	2686	2678	2730	2786	2833	2873	2909	2848	2928	2898	2839	2822	2792	-153	-5.4
Worth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
Wright	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
State of Iowa	45242	45873	46924	47959	48988	48808	49454	49558	50668	51339	51495	51956	52504	-6253	-12.1

Table 3. Total (Public and Non-Public) School Enrollment in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1982-1992 Change	
														No.	%
Adair	1252	1184	1188	1148	1149	1224	1222	1248	1249	1277	1258	1303	1364	-6	-0.5
Adams	728	770	773	767	819	816	792	804	791	776	835	842	900	-107	-12.8
Allamakee	2968	2959	2931	2953	2943	2990	3016	3101	3105	3199	3300	3288	3568	-332	-10.1
Appanoose	2581	2572	2591	2573	2623	2686	2642	2568	2648	2714	2749	2825	2906	-168	-6.1
Audubon	1237	1211	1211	1184	1201	1232	1266	1310	1327	1361	1387	1417	1499	-150	-10.8
Benton	4494	4445	4486	4449	4334	4372	4380	4437	4474	4588	4690	4886	5087	-196	-4.2
Black Hawk	21870	22356	22623	22425	22376	22628	22735	23264	23921	24580	24946	24974	25650	-3076	-12.3
Boone	4341	4295	4269	4240	4251	4211	4257	4277	4250	4273	4273	4393	4500	68	1.6
Bremer	6021	5962	5969	6051	6032	6117	6244	6322	6451	6490	6678	6850	7094	-657	-9.8
Buchanan	3691	3649	3676	3613	3616	3585	3520	3648	3747	3845	3963	4064	4134	-272	-6.9
Buena Vista	3778	3772	3647	3425	3420	3392	3547	3424	3444	3426	3433	3498	3602	345	10.0
Butler	2656	2667	2769	2741	2827	2790	2778	2846	2918	2994	3055	3193	3291	-399	-13.1
Calhoun	2609	2602	2460	2465	2324	2482	2520	2536	2580	2634	2659	2822	2913	-50	-1.9
Carroll	5102	5027	4931	4810	4740	4647	4637	4666	4749	4848	5025	5139	5393	77	1.5
Cass	3194	3261	3236	3238	3162	3215	3200	3228	3248	3299	3347	3457	3566	-153	-4.6
Cedar	3674	3640	3671	3597	3589	3530	3518	3564	3677	3717	3799	3859	3992	-125	-3.3
Cerro Gordo	8144	8142	8093	8095	8077	8103	8123	8004	8051	7970	7970	8164	8395	174	2.2
Cherokee	2810	2794	2791	2767	2828	2899	2824	2873	2922	2979	3025	3108	3216	-215	-7.1
Chickasaw	2502	2504	2533	2536	2578	2597	2664	2761	2819	2906	2991	3101	3301	-489	-16.3
Clarke	1753	1745	1722	1634	1702	1736	1664	1656	1600	1658	1643	1667	1694	110	6.7
Clay	3602	3603	3571	3547	3539	3443	3430	3527	3538	3552	3534	3605	3727	68	1.9
Clayton	3892	3931	3940	3949	3983	3962	3928	4034	4091	4133	4190	4260	4342	-298	-7.1
Clinton	9899	9963	9895	9928	10017	10122	10454	10716	10889	11205	11585	11869	12227	-1686	-14.6
Crawford	3282	3520	3597	3630	3780	3874	3940	4001	4025	4081	4146	4174	4221	-864	-20.8
Dallas	7056	6953	6904	6711	6656	6666	6476	6449	6370	6358	6383	6570	6674	673	10.5
Davis	1410	1423	1398	1365	1430	1440	1473	1492	1514	1534	1573	1600	1608	-163	-10.4
Decatur	1442	1460	1480	1458	1457	1543	1553	1533	1558	1604	1655	1692	1687	-213	-12.9
Delaware	4016	3949	3903	3786	3776	3725	3703	3679	3714	3935	3859	3956	4069	157	4.1
Des Moines	8060	8111	8165	8118	8229	8311	8324	8208	8240	8212	8474	8747	9089	-414	-4.9
Dickinson	2790	2771	2807	2804	2735	2741	2754	2789	2825	2819	2796	2832	2938	-6	-0.2
Dubuque	18235	18250	18017	18591	18979	19463	20000	19652	20149	20748	21416	22327	23406	-3181	-14.9
Emmet	2284	2316	2326	2346	2350	2328	2328	2392	2655	2516	2557	2657	2677	-273	-10.7
Fayette	4778	4732	4755	4731	4764	4774	4849	5049	5197	5494	5587	5669	6007	-809	-14.5
Floyd	3424	3417	3418	3404	3494	3475	3509	3602	3760	3832	3998	4140	4269	-574	-14.4
Franklin	2015	1985	2044	1908	1824	1792	1840	1840	1858	1923	1906	1923	1973	109	5.7
Fremont	1692	1704	1688	1672	1671	1717	1736	1743	1804	1764	1752	1728	1769	-60	-3.4
Greene	1949	1996	1905	1887	1894	1841	1934	2019	2063	2023	2103	2223	2329	-154	-7.3
Grundy	2795	2322	2297	2341	2396	2419	2488	2560	2640	2692	2783	2883	2904	12	0.4
Guthrie	2411	2453	2477	2424	2434	2581	2575	2626	2660	2716	2725	2757	2885	-314	-11.5
Hamilton	3187	3171	3183	3281	3161	3173	3158	3212	3269	3331	3418	3511	3644	-231	-6.8
Hancock	2394	2467	2468	2426	2462	2446	2442	2466	2434	2494	2509	2609	2650	-115	-4.6
Hardin	3707	4022	3956	3956	3959	3787	4055	4086	4230	4362	4452	4546	4801	-745	-16.7
Harrison	3117	3077	3072	2991	3114	3142	3119	3183	3281	3297	3373	3439	3535	-256	-7.6
Henry	3960	3861	4161	3668	3618	3593	3637	3607	3585	3597	3645	3672	3764	315	8.6
Howard	2342	2357	2382	2325	2334	2346	2378	2398	2388	2512	2575	2642	2792	-233	-9.0
Humboldt	2100	2129	2082	2031	2021	2074	2046	2114	2143	2169	2244	2355	2466	-144	-6.4
Ida	1644	1585	1580	1569	1525	1544	1489	1446	1395	1423	1462	1446	1513	182	12.4
Iowa	3172	3109	3050	2853	2815	2795	2858	2922	2887	2966	3065	3196	3356	107	3.5
Jackson	4265	4224	4180	4183	4248	4358	4338	4440	4640	4865	4839	4981	5131	-574	-11.9
Jasper	6590	6639	6556	6559	6558	6672	6654	6693	6690	6816	6803	7102	7244	-213	-3.1

Table 3. Total (Public and Non-Public) School Enrollment in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1982-1992 Change	
														No.	%
Jefferson	2429	2520	1977	2551	2513	2370	2329	2338	2508	2528	2453	2467	2596	-24	-1.0
Johnson	12410	12108	11836	11586	11645	11136	10929	10882	10726	10784	10961	10967	11206	1449	13.2
Jones	3551	3429	3456	3529	3523	3582	3649	3734	3785	3820	3905	3982	4236	-354	-9.1
Keokuk	2399	2437	2447	2436	2425	2429	2395	2451	2450	2497	2464	2582	2729	-65	-2.6
Kossuth	3589	3635	3636	3616	3626	3774	3713	3898	3972	4101	4211	4356	4608	-622	-14.8
Lee	7506	7499	7433	7366	7471	7678	7745	7766	7833	7990	8153	8228	8425	-647	-7.9
Linn	32386	31698	31499	31397	31827	31884	32090	32616	33237	33852	34719	35555	36675	-2333	-6.7
Louisa	2824	2720	2803	2852	2842	2838	2829	2824	2817	2918	2887	3041	3115	-63	-2.2
Lucas	1580	1583	1574	1607	1587	1655	1647	1647	1678	1701	1733	1769	1832	-153	-8.8
Lyon	2407	2382	2389	2432	2446	2481	2460	2428	2392	2415	2503	2562	2590	-96	-3.8
Madison	2845	2847	2813	2846	2857	2840	2836	2824	2835	2819	2810	2917	2972	35	1.2
Mahaska	3569	3494	3514	3484	3462	3450	3472	3459	3513	3496	3483	3424	3497	86	2.5
Marion	6309	6299	6262	6158	6224	6125	6061	6105	6166	6162	6133	6261	6363	176	2.9
Marshall	6773	7098	7191	7134	7139	7294	7286	7320	7507	7768	7891	8051	8344	-1118	-14.2
Mills	2656	2586	2577	2573	2599	2641	2533	2612	2632	2621	2636	2626	2587	20	0.8
Mitchell	2016	2009	2005	2008	2013	2068	2055	2023	2056	2083	2146	2227	2397	-130	-6.1
Monona	1902	1930	1911	1893	1919	1922	1932	1967	2002	2020	2100	2186	2273	-198	-9.4
Monroe	1404	1376	1358	1364	1337	1367	1376	1410	1433	1457	1498	1518	1567	-94	-6.3
Montgomery	2137	2219	2165	2169	2230	2182	2212	2274	2253	2278	2241	2283	2309	-104	-4.6
Muscatine	8062	8072	7912	7825	7701	7824	7848	7792	7780	7971	8036	8094	8205	26	0.3
O'Brien	3456	3438	3474	3408	3429	3397	3359	3351	3290	3354	3407	3460	3559	49	1.4
Osceola	1072	1039	1012	1008	1032	1060	1053	1061	1074	1107	1126	1134	1275	-54	-4.8
Page	3187	3248	3288	3299	3227	3255	3239	3262	3303	3273	3288	3337	3389	-101	-3.1
Palo Alto	2338	2337	2327	2311	2346	2374	2264	2300	2362	2422	2479	2585	2733	-141	-5.7
Plymouth	5356	5304	5183	5095	5071	5068	4983	4940	4946	4947	5089	5154	5404	267	5.2
Pocahontas	1864	1854	1979	1843	1767	1800	1818	1872	1950	1994	2068	2128	2231	-204	-9.9
Polk	59876	58945	58924	57120	56776	56618	56689	56945	56776	56886	57420	58783	60414	2456	4.3
Pottawattamie	17004	17026	16922	16690	16676	16961	16962	16884	16976	17308	17453	17998	18525	-449	-2.6
Poweshiek	3103	3124	3046	3040	3105	3168	3107	3110	3161	3203	3318	3432	3517	-215	-6.5
Ringgold	1006	1037	1020	1059	1049	1003	975	1009	1065	1118	1090	1124	1141	-84	-7.7
Sac	2402	2401	2478	2480	2440	2484	2426	2423	2449	2525	2597	2615	2721	-195	-7.5
Scott	31244	31113	30721	30702	30346	30795	31060	31840	32730	33363	33684	34500	35244	-2440	-7.2
Shelby	2937	2825	2744	2672	2662	2678	2706	2786	2919	2995	3049	3186	3368	-112	-3.7
Sioux	7134	6780	6827	6764	6708	6502	6393	6371	6292	6104	6121	6258	6424	1013	16.5
Story	11265	10673	10348	10170	10014	9944	9686	9727	9687	9766	9828	10075	10443	1437	14.6
Tama	3507	3305	3279	3354	3348	3378	3412	3460	3536	3586	3678	3830	3988	-171	-4.6
Taylor	1291	1338	1368	1410	1469	1503	1429	1493	1510	1494	1518	1548	1597	-227	-15.0
Union	2435	2515	2503	2582	2574	2609	2613	2588	2664	2679	2687	2723	2796	-252	-9.4
Van Buren	1449	1431	1419	1419	1441	1471	1487	1503	1531	1540	1570	1618	1686	-121	-7.7
Wapello	6812	6787	6680	6679	6712	6938	7059	7223	7413	7451	7540	7693	7962	-728	-9.7
Warren	7312	7261	7127	6941	7027	7144	6994	6955	6956	7048	7127	7264	7467	185	2.6
Washington	3734	3767	3754	3680	3707	3687	3725	3710	3742	3766	3837	3859	3988	-103	-2.7
Wayne	1249	1280	1247	1206	1201	1209	1237	1259	1307	1368	1396	1399	1414	-147	-10.5
Webster	7236	7235	7368	7353	7642	7446	7601	7653	7744	7892	8043	8520	8866	-807	-10.0
Winnebago	2911	2877	2917	2857	2779	2806	2785	2771	2756	2770	2760	2839	2986	151	5.5
Winneshiek	3297	3254	3268	3163	3195	3141	3150	3134	3077	3109	3236	3304	3407	61	1.9
Woodbury	20716	20881	20391	20404	20255	20358	20078	19832	19881	20044	19901	20223	20786	815	4.1
Worth	1237	1217	1137	1131	1183	1184	1246	1279	1296	1300	1351	1409	1429	-114	-8.4
Wright	2813	2818	2759	2745	2721	2870	2786	2876	2910	2960	2983	3075	3212	-170	-5.7
State of Iowa	534912	532108	529095	524564	525102	527790	528736	533002	539341	547160	555040	568130	586260	-20128	-3.6

Of the 63 counties with non-public school students in both 1982 and in 1992, 12 had increases among these students and 50 had decreases. Gains ranged from less than 50 in five counties to more than 100 in three (Jefferson, Johnson, Sioux). Declines had a much greater range; 11 counties had decreases among non-public school students that were less than 20, but 14 dropped by more than 100. The greatest decrease occurred in Dubuque (-1,874); losses of 400-1,000 occurred in Carroll, Clinton, Kossuth, Lee, and Polk.

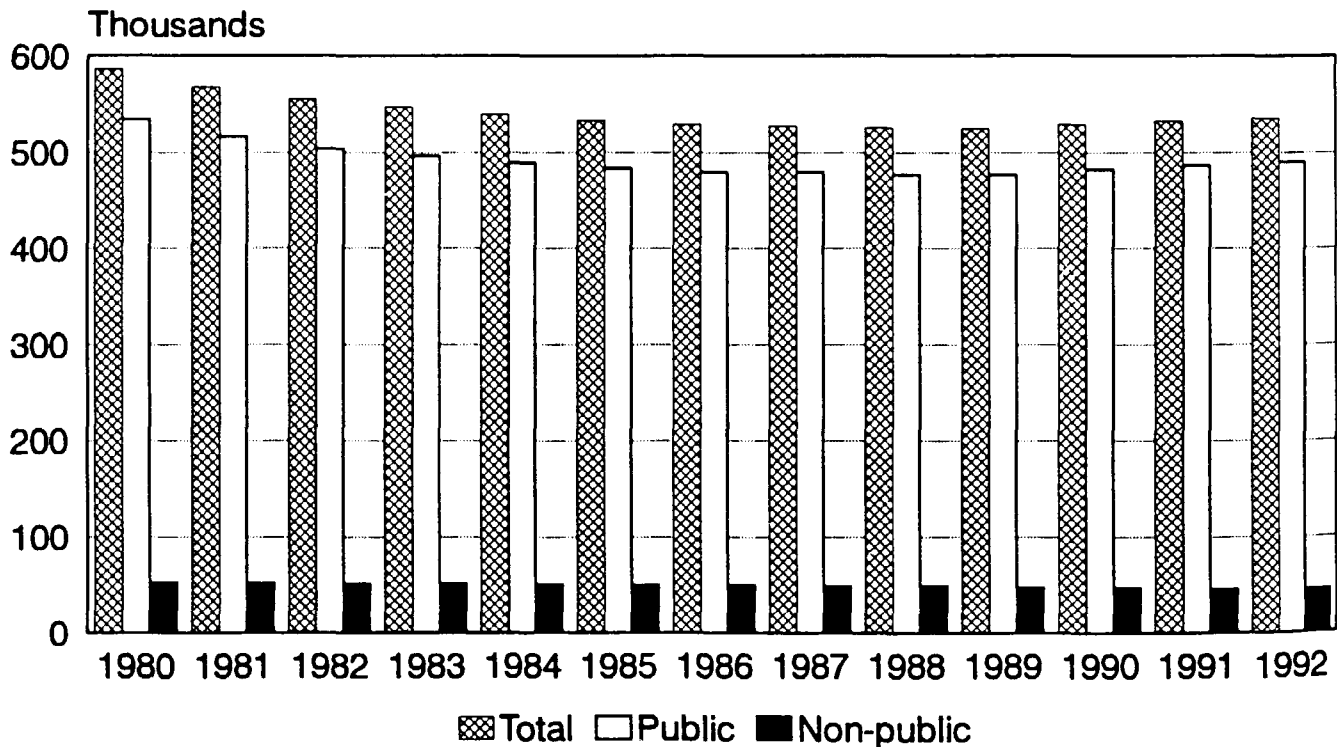
Total School Enrollment

When the public and non-public figures are added, the total enrollment was 586,260 in 1980 and 534,912 in 1992 (Table 3). Increases in total student numbers occurred from 1989 to 1992 but decreases took place in the remainder of the 1980s.

The total number of students increased in 28 counties when 1982 and 1992 were compared. Four of these (Johnson, Polk, Sioux, Story) reported at least 1,000 more students at the end of the period than at the beginning. Declines among total students were more common; only 11 of the 71 counties with fewer students in 1992 than in 1982 dropped by less than 100. Six (Black Hawk, Clinton, Dubuque, Linn, Marshall, Scott) were down by at least 1,000. Another 10 counties had at least 500 fewer total students enrolled in 1992 than in 1982.

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, 1980-1992.



Estimates of Public Secondary School Dropouts in Iowa's Counties: 1980-1992

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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 1992 dropouts are those who left school between July 1, 1991, and June 30, 1992. 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 4,783 for 1992 (Table 1). That's the lowest number of Iowa dropouts during the 11 years from 1982 through 1992. The decline from 1982 to 1983 was greater than 1,200. Since then, the number of dropouts has ranged within 500 of the total recorded in 1983 except for 1989 (Figure 1).

Polk county had the highest number of dropouts during each of the 11 years; it was the only county with as many as 750 dropouts each year. Other counties with at least 100 dropouts each year included Black Hawk, Dubuque, Linn, Pottawattamie, Scott, and Woodbury. Some counties had very few or no dropouts in selected years. Adair, Audubon, Hancock, Ida, Lyon, Osceola, Pocahontas, Ringgold, and Taylor had 10 or fewer dropouts in at least 10 of the 11 years.

The state as a whole and all counties had years between 1982 and 1992 when the number of dropouts increased and other years when the number decreased. Seventy-eight counties had fewer dropouts in 1992 than in 1982. Of these 78 counties, 53 had decreases of fewer than 20 dropouts. Four (Dubuque, Linn, Polk, Pottawattamie) had at least 100 fewer dropouts in 1992 than in 1982, with Linn's decline of 216 the largest. Seventeen counties had more dropouts in 1992 than in 1991, although Black Hawk (+144) was the only county with at least 35 more dropouts in 1992 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 1982 and 1991, although it increased by 6,200 between 1991 and 1992. All but one (Fremont, +23) of Iowa's 99 counties had fewer secondary enrollees in 1992 than in 1982. Comparisons of 1982 with 1992 revealed that there were 50,000 fewer secondary school students in Iowa at the end of the period than at the beginning; drops were greater than 1,000 enrollees in 11 counties, topped by three (Linn, Polk, Scott) that decreased by at least 3,000.

Percentage of Dropouts

In 1992, 2.3% of public secondary enrollees in Iowa became dropouts (Table 2). Only 1983 (2.0%) and 1984 (2.1%) had lower percentages. The proportion of dropouts for Iowa decreased from 1982 to 1983, increased between 1983 and 1987, and remained relatively stable until the decline between the two 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-one counties had fewer than 1% of their secondary students leave school in 1992. Black Hawk had the highest dropout rate (7.0%). Nine (Adams, Appanoose, Clinton, Jefferson, Monroe, Polk, Scott, Wapello, Woodbury) had percentages ranging from 3.0 to 4.4.

Two-thirds of Iowa's counties (67) had a lower percentage of students drop out in 1992 than in 1982 while 27 counties were higher and five remained the same. Some counties, however, were consistently among those with the highest percentages while others were consistently among the lowest.

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

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1982-1992.¹

County	1992 ²		1991		1990		1989		1988		1987		1986		1985		1984		1983		1982	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Adair	2	530	3	519	4	489	0	487	0	519	4	529	6	561	2	574	3	589	6	616	12	629
Adams	12	302	9	300	12	361	3	356	3	367	3	365	4	350	1	364	5	368	0	401	4	421
Allamakee	11	1268	25	1233	13	1313	26	1309	12	1344	17	1362	15	1459	11	1499	15	1569	20	1655	36	1738
Appanoose	42	1144	41	1089	45	1186	34	1188	31	1219	59	1221	24	1154	33	1193	34	1234	19	1242	52	1266
Audubon	1	534	8	513	0	507	6	522	5	542	2	575	6	600	4	648	10	687	5	733	13	764
Benton	26	1761	30	1770	33	1874	26	1832	33	1864	21	1960	28	2013	39	2159	39	2257	37	2307	67	2442
Black Hawk	546	7813	493	7668	488	7653	516	8075	422	8316	388	8446	374	8647	454	9268	355	9476	345	9777	402	10159
Boone	23	1677	21	1639	34	1729	45	1784	30	1825	43	1900	30	1915	38	2024	41	1993	60	2027	39	2095
Bremer	13	2568	17	2457	32	2615	21	2665	27	2716	29	2879	29	3011	31	3144	20	3208	26	3236	40	3317
Buchanan	24	1485	19	1454	21	1518	28	1462	28	1457	35	1488	22	1532	37	1605	40	1656	41	1710	40	1814
Buena Vista	34	1457	30	1423	30	1505	26	1421	24	1339	27	1375	18	1400	17	1476	13	1420	9	1430	18	1508
Butler	5	1188	13	1144	11	1146	11	1239	8	1683	9	1334	8	1354	10	1431	18	1499	6	1527	14	1570
Calhoun	3	1145	13	1064	10	1066	8	1066	8	1111	7	1130	5	1191	9	1289	8	1310	10	1331	19	1432
Carroll	10	1231	10	1130	10	1164	10	1165	15	1165	15	1177	14	1167	20	1260	12	1295	15	1370	15	1347
Cass	19	1391	26	1334	18	1367	27	1391	24	1444	21	1459	18	1475	18	1531	21	1602	16	1632	29	1734
Cedar	23	1636	22	1574	11	1575	10	1593	18	1576	14	1618	20	1659	27	1781	23	1836	22	1911	24	1978
Cerro Gordo	80	2956	96	2905	70	3160	93	3194	60	3231	223	3269	74	3520	101	3623	77	3471	127	3402	119	3589
Cherokee	17	1219	16	1206	19	1228	18	1196	19	1276	8	1267	8	1332	12	1362	15	1419	16	1449	44	1513
Chickasaw	15	1068	17	1075	9	1099	15	1136	13	1187	16	1244	17	1299	15	1369	10	1431	14	1487	27	1567
Clarke	17	775	12	746	20	727	10	720	7	743	12	767	4	804	9	771	11	816	8	798	12	799
Clay	25	1595	15	1495	17	1469	25	1459	19	1421	37	1429	19	1535	21	1574	32	1640	28	1676	42	1686
Clayton	16	1704	28	1680	11	1746	19	1732	16	1726	16	1744	19	1744	23	1828	27	1900	31	1938	34	2033
Clinton	133	4075	175	3914	92	4229	109	4227	77	4345	103	4576	89	4815	92	5037	94	5192	130	5375	198	5639
Crawford	42	1505	18	1491	21	1551	12	1559	16	1691	10	1715	10	1749	13	1781	18	1792	18	1833	19	1910
Dallas	69	2774	64	2697	40	2705	30	2736	67	2759	62	2874	75	2946	39	3018	46	2999	60	3007	69	3123
Davis	9	651	13	606	15	670	9	667	11	694	11	694	12	702	14	728	13	744	26	744	19	767
Decatur	12	690	14	642	13	643	12	664	13	725	11	716	9	720	13	758	18	817	13	817	28	817
Delaware	8	1536	21	1471	18	1484	26	1521	23	1543	35	1625	26	1740	28	1809	18	1855	29	1916	29	2034
Des Moines	48	3179	70	3113	68	3573	79	3469	55	3581	116	3917	178	3790	179	3994	189	3791	124	3962	108	4259
Dickinson	16	1246	12	1199	12	1277	10	1245	25	1184	15	1274	15	1306	14	1350	15	1333	14	1342	24	1387
Dubuque	116	5635	130	5546	140	6088	201	6262	150	6554	146	6781	145	6845	205	7119	170	7191	207	7409	238	7801
Emmet	11	1064	16	1018	18	1100	17	1110	24	1124	12	1145	18	1129	21	1189	10	1221	18	1223	24	1296
Fayette	25	2026	19	2003	27	2036	17	2072	32	2189	28	2257	15	2384	33	2497	46	2653	36	2764	46	2853
Floyd	32	1483	33	1443	33	1540	27	1630	33	1683	28	1611	20	1745	17	1867	39	1888	52	1962	38	2128
Franklin	18	873	19	852	9	821	12	757	8	770	7	810	16	819	12	828	9	890	9	899	14	983
Fremont	10	802	10	721	14	752	12	769	16	780	23	768	11	805	12	820	11	792	6	779	10	779

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1982-1992¹ (continued).

County	1992 ²		1991		1990		1989		1988		1987		1986		1985		1984		1983		1982	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Greene	13	817	10	776	23	809	14	792	9	828	6	866	10	931	8	1009	13	1017	20	1067	22	1128
Grundy	8	1047	8	1008	4	1063	8	1090	7	1117	3	1160	8	1210	13	1296	7	1324	17	1390	20	1424
Guthrie	13	1083	16	1101	10	1087	8	1083	20	1122	14	1148	8	1242	8	1288	21	1338	14	1316	19	1327
Hamilton	25	1322	19	1305	20	1380	29	1405	15	1463	16	1498	25	1534	27	1580	10	1619	8	1680	16	1725
Hancock	4	1111	6	1087	7	1053	2	1082	5	1075	5	1072	5	1064	7	1098	5	1123	2	1139	11	1203
Hardin	24	1739	18	1657	18	1764	25	1786	14	1871	21	1905	15	1986	19	2105	23	2191	22	2231	32	2262
Harrison	27	1381	19	1350	24	1391	27	1400	26	1453	26	1525	32	1566	33	1625	23	1642	19	1683	31	1700
Henry	21	1680	27	1636	32	1661	34	1657	18	1670	24	1693	27	1735	32	1712	26	1732	22	1769	47	1841
Howard	3	991	4	970	10	968	7	884	4	922	9	979	6	1020	2	1072	17	1164	7	1239	12	1291
Humboldt	8	841	7	858	6	839	11	847	11	859	9	891	9	959	18	1008	10	1069	16	1133	20	1220
Ida	2	652	6	649	3	689	3	683	6	654	5	657	3	658	0	660	2	659	5	687	7	709
Iowa	6	1196	3	1146	11	1125	11	1132	8	1193	6	1250	10	1288	12	1352	12	1438	9	1499	20	1594
Jackson	25	1722	26	1666	30	1721	38	1780	24	1749	27	1848	23	1930	32	1998	25	2192	35	2187	58	2302
Jasper	39	2875	57	2768	114	2948	83	2933	120	3099	99	3124	85	3130	78	3228	64	3269	85	3298	102	3422
Jefferson	24	795	20	797	23	855	30	866	22	949	18	1001	22	1052	19	1100	11	1134	12	1126	30	1194
Johnson	46	4490	47	4239	177	4636	135	4610	130	4740	94	4869	123	4739	87	4792	87	4833	42	4944	46	4889
Jones	18	1461	22	1471	34	1609	14	1559	28	1606	28	1730	14	1788	14	1856	17	1913	18	1983	40	2052
Keokuk	15	1018	14	1010	6	1042	12	1084	10	1095	12	1095	14	1128	10	1185	6	1202	11	1239	17	1272
Kossuth	9	1131	8	1101	17	1123	11	1101	10	1109	16	1178	21	1211	13	1303	10	1366	10	1407	14	1436
Lee	81	2851	83	2696	88	2993	101	2845	77	2946	103	3044	105	3117	114	3182	102	3200	86	3296	113	3304
Linn	218	12098	149	11930	292	13815	433	14302	331	14150	414	14443	345	14943	308	15559	299	15912	465	16278	434	16160
Louisa	25	1213	24	1179	36	1268	39	1236	37	1298	27	1288	25	1308	32	1350	36	1381	41	1413	47	1463
Lucas	10	701	12	675	18	714	26	726	25	775	19	761	24	798	32	817	26	836	31	872	27	838
Lyon	4	1020	9	972	5	979	2	974	8	998	4	1026	1	1054	4	1071	4	1081	4	1103	13	1140
Madison	9	1217	21	1232	27	1302	14	1268	30	1326	25	1317	19	1325	25	1335	15	1346	21	1343	21	1408
Mahaska	28	1346	28	1370	24	1369	40	1376	39	1420	50	1482	28	1497	45	1542	46	1522	52	1574	50	1520
Marion	38	2347	32	2313	45	2346	32	2380	39	2431	44	2401	35	2467	48	2574	44	2620	31	2606	53	2678
Marshall	45	2795	70	2711	97	3087	109	3083	75	3181	66	3375	59	3474	55	3765	67	3859	63	3831	95	3916
Mills	25	1115	18	1165	20	1179	17	1175	17	1206	14	1193	26	1287	9	1237	13	1234	12	1184	26	1185
Mitchell	9	843	10	816	14	840	3	903	8	917	1	917	8	915	10	927	13	961	12	975	15	1062
Monona	14	832	16	835	14	851	12	848	13	872	13	874	13	921	21	930	15	939	22	980	30	1038
Monroe	19	579	12	551	15	591	11	576	15	585	29	611	19	654	15	693	23	723	23	734	28	764
Montgomery	23	963	16	881	16	985	15	971	20	983	22	986	23	1003	13	1023	38	1070	26	1039	35	1055
Muscatine	87	3288	80	3144	86	3253	118	3386	97	3414	83	3413	110	3342	127	3508	156	3634	100	3671	126	3766
O'Brien	16	1295	16	1294	16	1343	20	1322	10	1346	14	1344	8	1357	7	1377	21	1424	12	1454	22	1509
Osceola	2	408	7	391	9	441	3	433	8	457	3	469	2	455	1	498	2	490	2	506	2	508

Table 1. Public Secondary School Dropouts and Enrollees in Iowa Counties, 1982-1992¹ (continued).

County	1992 ²		1991		1990		1989		1988		1987		1986		1985		1984		1983		1982	
	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll	Drop	Enroll
Page	28	1482	41	1454	33	1530	37	1495	37	1485	30	1463	21	1475	26	1509	29	1478	29	1447	33	1541
Palo Alto	11	959	12	955	7	952	18	941	7	935	4	949	8	974	7	1035	15	1109	13	1157	15	1243
Plymouth	19	1887	24	1788	32	1816	36	1818	9	1800	16	1798	22	1847	17	1895	19	1908	13	1939	22	2038
Pocahontas	10	729	9	812	13	758	4	779	7	839	2	838	3	869	3	930	5	967	6	1028	8	1054
Polk	820	21952	994	21201	889	23436	952	23710	1064	23888	1082	24939	1124	25705	1125	26111	924	26365	804	25965	974	26593
Pottawattamie	113	6516	175	6225	255	6421	332	6620	376	6863	348	6877	376	7194	302	7172	287	7501	190	7474	253	7735
Poweshiek	28	1257	31	1252	21	1333	29	1394	34	1498	20	1502	15	1561	25	1580	16	1593	23	1645	20	1682
Ringgold	10	457	3	413	3	432	8	446	2	459	3	471	3	490	6	484	3	521	8	519	5	523
Sac	11	1080	8	1006	7	1025	16	1032	6	1024	12	1052	11	1086	10	1124	6	1196	7	1237	14	1286
Scott	527	12106	540	11811	523	12558	511	12545	526	12996	454	13429	435	13900	480	14538	433	15073	436	14896	524	15227
Shelby	3	1218	8	1083	17	1111	18	1236	19	1200	19	1245	0	1267	19	1380	14	1452	18	1498	25	1557
Sioux	16	1478	13	1614	15	1653	13	1675	14	1673	16	1669	12	1690	13	1774	12	1867	14	1835	17	1934
Story	43	4291	57	4126	48	4155	42	4228	52	4249	45	4263	53	4494	59	4676	60	4709	68	4695	71	4933
Tama	32	1506	21	1468	18	1473	16	1407	11	1624	36	1649	37	1658	35	1740	25	1842	49	1917	36	1982
Taylor	5	503	4	527	6	540	4	623	2	651	1	655	4	689	7	749	2	732	4	735	4	743
Union	20	1082	13	1073	23	1166	14	1166	15	1142	12	1183	8	1231	15	1247	15	1207	19	1191	33	1229
Van Buren	12	621	9	599	13	639	9	624	6	643	10	657	10	716	13	723	11	744	20	760	17	804
Wapello	124	2949	70	2854	62	2932	72	3134	119	3204	64	3301	76	3359	69	3438	52	3508	84	3351	92	3615
Warren	33	3190	45	2960	76	3122	72	3215	59	3309	49	3348	42	3445	49	3519	32	3530	49	3453	69	3430
Washington	41	1465	26	1472	25	1541	23	1549	37	1573	23	1566	33	1632	19	1724	21	1774	11	1800	21	1843
Wayne	4	592	18	567	12	566	10	582	10	579	2	588	10	595	11	604	10	629	8	676	7	698
Webster	72	2557	64	2394	71	2456	110	2573	125	2791	106	2869	133	3034	69	3208	52	3233	38	3315	67	3560
Winnebago	20	1237	14	1182	19	1237	16	1261	14	1225	10	1239	20	1247	9	1302	8	1303	1	1329	13	1380
Winneshiek	17	1209	9	1206	10	1200	8	1270	9	1267	10	1337	8	1366	13	1397	21	1426	10	1478	22	1550
Woodbury	252	7660	287	7203	219	8046	216	7941	203	8836	207	8710	155	8712	183	8880	185	8747	163	8891	235	9274
Worth	6	515	7	495	12	495	5	525	10	556	5	585	3	616	5	645	7	659	10	667	14	683
Wright	10	1201	10	1118	12	1210	14	1204	17	1231	6	1228	10	1296	18	1366	11	1424	11	1424	22	1522

State of Iowa 4783 207948 5030 201742 5270 213888 5652 216251 5498 222112 5574 227144 5343 233453 5529 241973 5109 246788 5086 249885 6300 258141

¹This table includes public school dropouts from grades 7 through 12 and nongraded secondary special education classes. Dropouts are students who withdraw before graduation or completion of a secondary school program for reasons other than death or transfer to another approved program. Students may have been counted in the enrollment of a county different from that in which they lived because school district boundaries do not necessarily coincide with county lines and because school districts may have cooperative sharing agreements.

²This refers to the state's fiscal year; the label "1992" covers the period from July 1, 1991, through June 30, 1992, for example.

Table 2. Percentage of Public Secondary School Dropouts in Iowa Counties, 1982-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Adair	0.4	0.6	0.8	0.0	0.0	0.8	1.1	0.3	0.5	1.0	1.9
Adams	4.0	3.0	3.3	0.8	0.8	0.8	1.1	0.3	1.4	0.0	1.0
Allamakee	0.9	2.0	1.0	2.0	0.9	1.2	1.0	0.7	1.0	1.2	2.1
Appanoose	3.7	3.8	3.8	2.9	2.5	4.8	2.1	2.8	2.8	1.5	4.1
Audubon	0.2	1.6	0.0	1.1	0.9	0.3	1.0	0.6	1.5	0.7	1.7
Benton	1.5	1.7	1.8	1.4	1.8	1.1	1.4	1.8	1.7	1.6	2.7
Black Hawk	7.0	6.4	6.4	6.4	5.1	4.6	4.3	4.9	3.7	3.5	4.0
Boone	1.4	1.3	2.0	2.5	1.6	2.3	1.6	1.9	2.1	3.0	1.9
Bremer	0.5	0.7	1.2	0.8	1.0	1.0	1.0	1.0	0.6	0.8	1.2
Buchanan	1.6	1.3	1.4	1.9	1.9	2.4	1.4	2.3	2.4	2.4	2.2
Buena Vista	2.3	2.1	2.0	1.8	1.8	2.0	1.3	1.2	0.9	0.6	1.2
Butler	0.4	1.1	1.0	0.9	0.5	0.7	0.6	0.7	1.2	0.4	0.9
Calhoun	0.3	1.2	0.9	0.8	0.7	0.6	0.4	0.7	0.6	0.8	1.3
Carroll	0.8	0.9	0.9	0.9	1.3	1.3	1.2	1.6	0.9	1.1	1.1
Cass	1.4	1.9	1.3	1.9	1.7	1.4	1.2	1.2	1.3	1.0	1.7
Cedar	1.4	1.4	0.7	0.6	1.1	0.9	1.2	1.5	1.3	1.2	1.2
Cerro Gordo	2.7	3.3	2.2	2.9	1.9	6.8	2.1	2.8	2.2	3.7	3.3
Cherokee	1.4	1.3	1.6	1.5	1.5	0.6	0.6	0.9	1.1	1.1	2.9
Chickasaw	1.4	1.6	0.8	1.3	1.1	1.3	1.3	1.1	0.7	0.9	1.7
Clarke	2.2	1.6	2.8	1.4	0.9	1.6	0.5	1.2	1.3	1.0	1.5
Clay	1.6	1.0	1.2	1.7	1.3	2.6	1.2	1.3	2.0	1.7	2.5
Clayton	0.9	1.7	0.6	1.1	0.9	0.9	1.1	1.3	1.4	1.6	1.7
Clinton	3.3	4.5	2.2	2.6	1.8	2.3	1.8	1.8	1.8	2.4	3.5
Crawford	2.8	1.2	1.4	0.8	0.9	0.6	0.6	0.7	1.0	1.0	1.0
Dallas	2.5	2.4	1.5	1.1	2.4	2.2	2.5	1.3	1.5	2.0	2.2
Davis	1.4	2.1	2.2	1.3	1.6	1.6	1.7	1.9	1.7	3.5	2.5
Decatur	1.7	2.2	2.0	1.8	1.8	1.5	1.3	1.7	2.2	1.6	3.4
Delaware	0.5	1.4	1.2	1.7	1.5	2.2	1.5	1.5	1.0	1.5	1.4
Des Moines	1.5	2.2	1.9	2.3	1.5	3.0	4.7	4.5	5.0	3.1	2.5
Dickinson	1.3	1.0	0.9	0.8	2.1	1.2	1.1	1.0	1.1	1.0	1.7
Dubuque	2.1	2.3	2.3	3.2	2.3	2.2	2.1	2.9	2.4	2.8	3.1
Emmet	1.0	1.6	1.6	1.5	2.1	1.0	1.6	1.8	0.8	1.5	1.9
Fayette	1.2	0.9	1.3	0.8	1.5	1.2	0.6	1.3	1.7	1.3	1.6
Floyd	2.2	2.3	2.1	1.7	2.0	1.7	1.1	0.9	2.1	2.7	1.8
Franklin	2.1	2.2	1.1	1.6	1.0	0.9	2.0	1.4	1.0	1.0	1.4
Fremont	1.2	1.4	1.9	1.6	2.1	3.0	1.4	1.5	1.4	0.8	1.3
Greene	1.6	1.3	2.8	1.8	1.1	0.7	1.1	0.8	1.3	1.9	2.0
Grundy	0.8	0.8	0.4	0.7	0.6	0.3	0.7	1.0	0.5	1.2	1.4
Guthrie	1.2	1.5	0.9	0.7	1.8	1.2	0.6	0.6	1.6	1.1	1.4
Hamilton	1.9	1.5	1.4	2.1	1.0	1.1	1.6	1.7	0.6	0.5	0.9
Hancock	0.4	0.6	0.7	0.2	0.5	0.5	0.5	0.6	0.4	0.2	0.9
Hardin	1.4	1.1	1.0	1.4	0.7	1.1	0.8	0.9	1.0	1.0	1.4
Harrison	2.0	1.4	1.7	1.9	1.8	1.7	2.0	2.0	1.4	1.1	1.8
Henry	1.2	1.7	1.9	2.1	1.1	1.4	1.6	1.9	1.5	1.2	2.6
Howard	0.3	0.4	1.0	0.8	0.4	0.9	0.6	0.2	1.5	0.6	0.9
Humboldt	1.0	0.8	0.7	1.3	1.3	1.0	0.9	1.8	0.9	1.4	1.6
Ida	0.3	0.9	0.4	0.4	0.9	0.8	0.5	0.0	0.3	0.7	1.0
Iowa	0.5	0.3	1.0	1.0	0.7	0.5	0.8	0.9	0.8	0.6	1.3
Jackson	1.4	1.6	1.7	2.1	1.4	1.5	1.2	1.6	1.1	1.6	2.5
Jasper	1.4	2.1	3.9	2.8	3.9	3.2	2.7	2.4	2.0	2.6	3.0

Table 2. Percentage of Public Secondary School Dropouts in Iowa Counties, 1982-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982
Jefferson	3.0	2.5	2.7	3.5	2.3	1.8	2.1	1.7	1.0	1.1	2.5
Johnson	1.0	1.1	3.8	2.9	2.7	1.9	2.6	1.8	1.8	0.8	0.9
Jones	1.2	1.5	2.1	0.9	1.7	1.6	0.8	0.8	0.9	0.9	1.9
Keokuk	1.5	1.4	0.6	1.1	0.9	1.1	1.2	0.8	0.5	0.9	1.3
Kossuth	0.8	0.7	1.5	1.0	0.9	1.4	1.7	1.0	0.7	0.7	1.0
Lee	2.8	3.1	2.9	3.6	2.6	3.4	3.4	3.6	3.2	2.6	3.4
Linn	1.8	1.2	2.1	3.0	2.3	2.9	2.3	2.0	1.9	2.9	2.7
Louisa	2.1	2.0	2.8	3.2	2.9	2.1	1.9	2.4	2.6	2.9	3.2
Lucas	1.4	1.8	2.5	3.6	3.2	2.5	3.0	3.9	3.1	3.6	3.2
Lyon	0.4	0.9	0.5	0.2	0.8	0.4	0.1	0.4	0.4	0.4	1.1
Madison	0.7	1.7	2.1	1.1	2.3	1.9	1.4	1.9	1.1	1.6	1.5
Mahaska	2.1	2.0	1.8	2.9	2.7	3.4	1.9	2.9	3.0	3.3	3.3
Marion	1.6	1.4	1.9	1.3	1.6	1.8	1.4	1.9	1.7	1.2	2.0
Marshall	1.6	2.6	3.1	3.5	2.4	2.0	1.7	1.5	1.7	1.6	2.4
Mills	2.2	1.5	1.7	1.4	1.4	1.2	2.0	0.7	1.1	1.0	2.2
Mitchell	1.1	1.2	1.7	0.3	0.9	0.1	0.9	1.1	1.4	1.2	1.4
Monona	1.7	1.9	1.6	1.4	1.5	1.5	1.4	2.3	1.6	2.2	2.9
Monroe	3.3	2.2	2.5	1.9	2.6	4.7	2.9	2.2	3.2	3.1	3.7
Montgomery	2.4	1.8	1.6	1.5	2.0	2.2	2.3	1.3	3.6	2.5	3.3
Muscatine	2.6	2.5	2.6	3.5	2.8	2.4	3.3	3.6	4.3	2.7	3.3
O'Brien	1.2	1.2	1.2	1.5	0.7	1.0	0.6	0.5	1.5	0.8	1.5
Osceola	0.5	1.8	2.0	0.7	1.8	0.6	0.4	0.2	0.4	0.4	0.4
Page	1.9	2.8	2.2	2.5	2.5	2.1	1.4	1.7	2.0	2.0	2.1
Palo Alto	1.2	1.3	0.7	1.9	0.7	0.4	0.8	0.7	1.4	1.1	1.2
Plymouth	1.0	1.3	1.8	2.0	0.5	0.9	1.2	0.9	1.0	0.7	1.1
Pocahontas	1.4	1.1	1.7	0.5	0.8	0.2	0.3	0.3	0.5	0.6	0.8
Polk	3.7	4.7	3.8	4.0	4.5	4.3	4.4	4.3	3.5	3.1	3.7
Pottawattamie	1.7	2.8	4.0	5.0	5.5	5.1	5.2	4.2	3.8	2.5	3.3
Poweshiek	2.2	2.5	1.6	2.1	2.3	1.3	1.0	1.6	1.0	1.4	1.2
Ringgold	2.2	0.7	0.7	1.8	0.4	0.6	0.6	1.2	0.6	1.5	1.0
Sac	1.0	0.8	0.7	1.6	0.6	1.1	1.0	0.9	0.5	0.6	1.1
Scott	4.4	4.6	4.2	4.1	4.0	3.4	3.1	3.3	2.9	2.9	3.4
Shelby	0.2	0.7	1.5	1.5	1.6	1.5	0.0	1.4	1.0	1.2	1.6
Sioux	1.1	0.8	0.9	0.8	0.8	1.0	0.7	0.7	0.6	0.8	0.9
Story	1.0	1.4	1.2	1.0	1.2	1.1	1.2	1.3	1.3	1.4	1.4
Tama	2.1	1.4	1.2	1.1	0.7	2.2	2.2	2.0	1.4	2.6	1.8
Taylor	1.0	0.8	1.1	0.6	0.3	0.2	0.6	0.9	0.3	0.5	0.5
Union	1.8	1.2	2.0	1.2	1.3	1.0	0.6	1.2	1.2	1.6	2.7
Van Buren	1.9	1.5	2.0	1.4	0.9	1.5	1.4	1.8	1.5	2.6	2.1
Wapello	4.2	2.5	2.1	2.3	3.7	1.9	2.3	2.0	1.5	2.5	2.5
Warren	1.0	1.5	2.4	2.2	1.8	1.5	1.2	1.4	0.9	1.4	2.0
Washington	2.8	1.8	1.6	1.5	2.4	1.5	2.0	1.1	1.2	0.6	1.1
Wayne	0.7	3.2	2.1	1.7	1.7	0.3	1.7	1.8	1.6	1.2	1.0
Webster	2.8	2.7	2.9	4.3	4.5	3.7	4.4	2.2	1.6	1.1	1.9
Winnebago	1.6	1.2	1.5	1.3	1.1	0.8	1.6	0.7	0.6	0.1	0.9
Winneshiek	1.4	0.7	0.8	0.6	0.7	0.7	0.6	0.9	1.5	0.7	1.4
Woodbury	3.3	4.0	2.7	2.7	2.3	2.4	1.8	2.1	2.1	1.8	2.5
Worth	1.2	1.4	2.4	1.0	1.8	0.9	0.5	0.8	1.1	1.5	2.0
Wright	0.8	0.9	1.0	1.2	1.4	0.5	0.8	1.3	0.8	0.8	1.4
State of Iowa	2.3	2.5	2.5	2.6	2.5	2.5	2.3	2.3	2.1	2.0	2.4

Figure 1. Dropouts from public secondary schools in Iowa, 1980-1992.

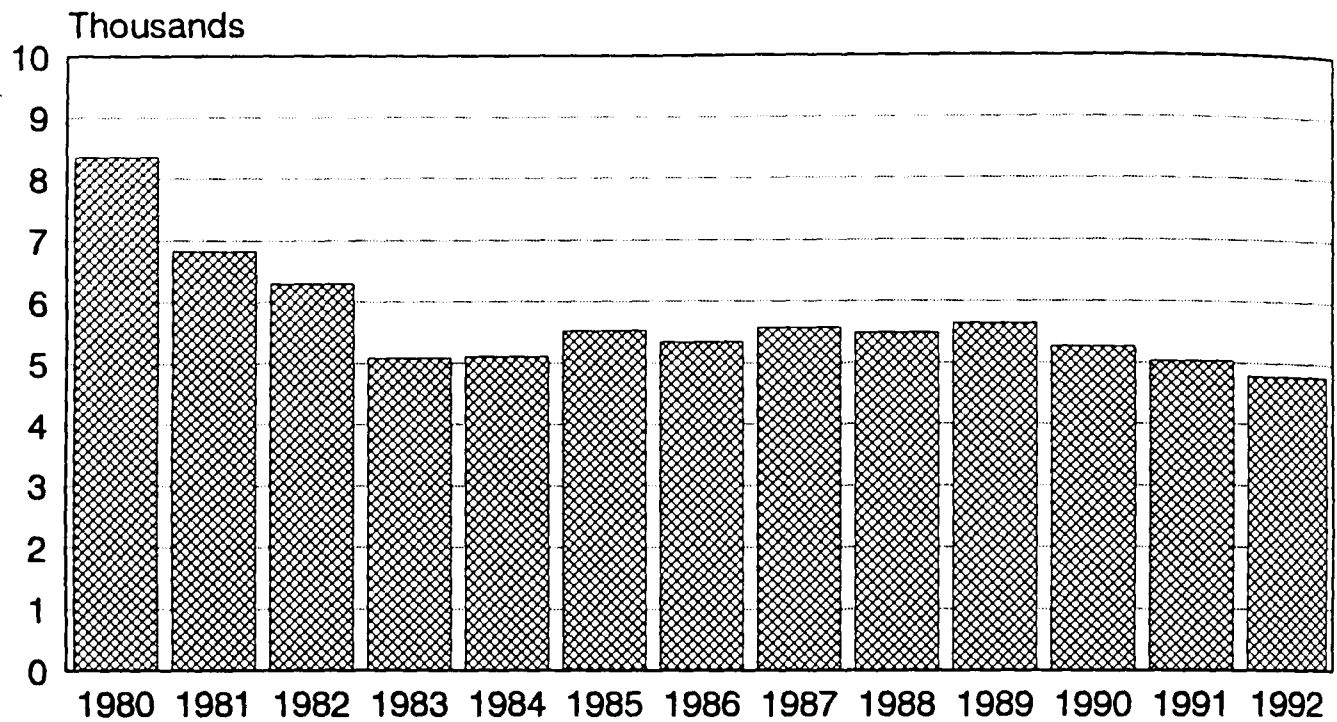
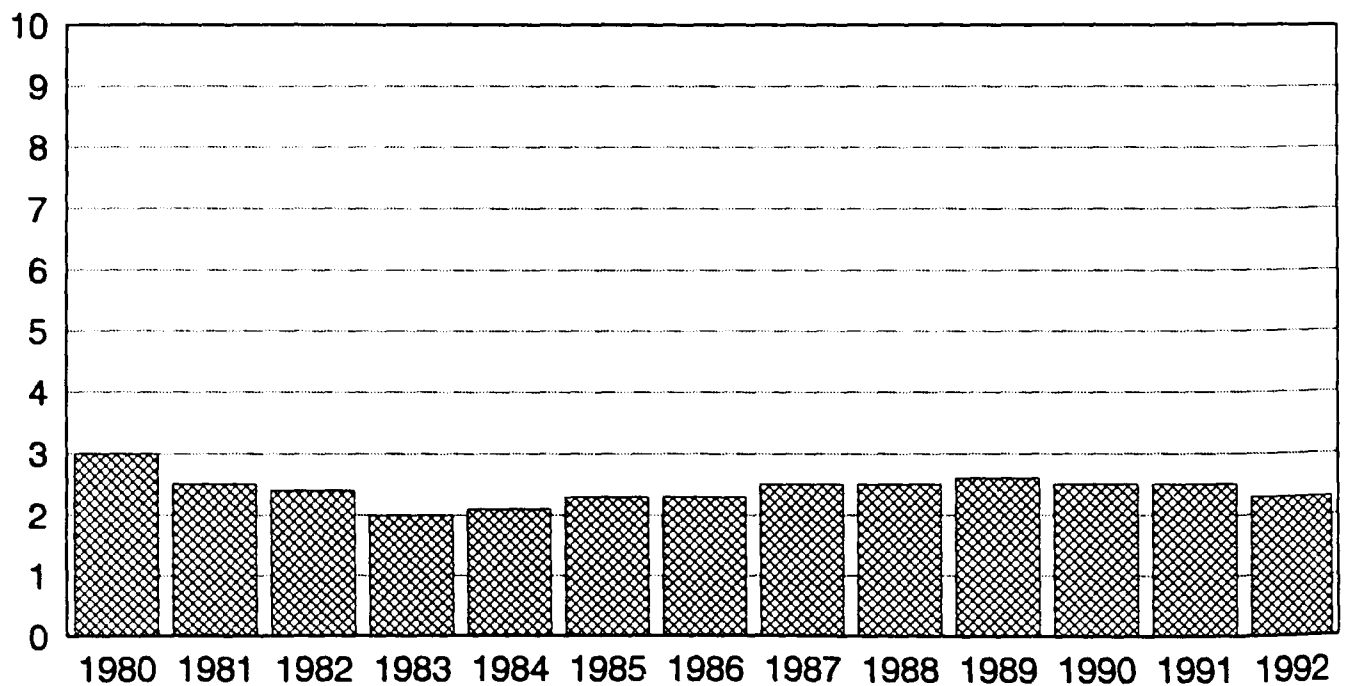


Figure 2. Dropouts as percent of public secondary school enrollees in Iowa, 1980-1992.



Students Receiving Free or Reduced-Price School Meals in Iowa's Counties: 1983-1993

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Willis Goudy, Iowa State University
Raymond Senior, Iowa Department of Education

Nutrition assistance is provided to low-income students enrolled in Iowa's schools. Students qualify for the program on the basis of family income; those with lower income can be eligible for free meals while others with somewhat higher income can receive meals at a reduced price. The Iowa Department of Education administers the program based on U.S. Department of Agriculture guidelines. The program includes public and private schools and also residential child care institutions that meet the guidelines.

For this report, the average monthly number of students in the meal program was calculated for each school year from 1983-1984 through 1992-1993. 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 1992-1993, it had decreased each of the previous years in the period examined (Table 3). Despite the 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 1992-1993 as well. In both the 1985-1986 and 1986-1987 school years, more than 100,000 students in Iowa received free meals at school. By 1989-1990, however, that number had been reduced significantly to 88,983, the lowest number of the period, only to increase to more than 100,000 again in 1992-1993.

During the 1992-1993 school year, Black Hawk, Linn, Polk, and Scott averaged at least 5,000 students receiving free meals each month. Sixteen other counties had at least 1,000 such students. All counties except Adams and Osceola averaged at least 200 monthly.

The number of students receiving free meals during the 1992-1993 school year was more than 4,700 higher than five years earlier in 1987-1988. Fifty-eight counties also had more students in the program in 1992-1993 than in 1987-1988; Linn, Polk, Pottawattamie, and Scott had increases greater than 500; another 12 gained at least 100. Of the 41 counties with fewer students in the program in 1992-1993 than five years earlier, 14 dropped by at least 100. Three (Black Hawk, Dubuque, Wapello) had from 200 to 300 fewer students receiving free meals at the end of the period than five years earlier.

Table 1. Average Number of Students Receiving Free Meals in Selected Months* in Iowa Counties, 1983-1993.

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	312	289	304	238	212	253	334	329	253	250
Adams	173	156	161	162	175	149	203	198	163	142
Allamakee	572	515	481	491	505	580	642	653	595	580
Appanoose	829	842	844	811	819	940	911	958	868	853
Audubon	212	248	232	194	200	239	278	280	223	205
Benton	806	828	843	822	747	767	903	844	777	774
Black Hawk	5081	5016	4835	4828	4931	5291	6494	5906	5293	5243
Boone	599	566	511	510	526	546	630	672	645	614
Bremer	747	691	645	603	675	854	1103	979	732	662
Buchanan	762	792	724	694	733	779	926	918	838	768
Buena Vista	833	783	743	704	674	686	730	660	587	537
Butler	486	499	455	484	444	515	651	626	434	447
Calhoun	519	495	451	363	420	466	556	572	408	392
Carroll	613	754	654	743	711	718	863	839	623	618
Cass	678	699	617	648	656	682	714	711	634	495
Cedar	478	441	368	392	411	434	446	445	436	387
Cerro Gordo	1427	1341	1321	1267	1289	1338	1418	1466	1222	1239
Cherokee	519	496	465	462	506	539	588	593	507	508
Chickasaw	413	433	403	408	433	474	555	585	464	486
Clarke	528	451	390	383	439	502	481	520	429	389
Clay	518	623	592	578	611	689	672	680	502	508
Clayton	593	668	667	553	674	736	924	955	802	824
Clinton	1649	1541	1484	1483	1549	1612	1744	1862	1670	1646
Crawford	681	728	744	799	723	779	830	810	648	579
Dallas	1098	948	835	790	757	843	900	953	950	925
Davis	376	357	330	310	306	383	422	440	395	420
Decatur	562	525	484	470	464	465	501	486	421	454
Delaware	694	642	619	631	679	659	821	829	696	709
Des Moines	1462	1559	1535	1448	1499	1472	1405	1505	1468	1398
Dickinson	391	421	430	457	505	528	565	592	504	413
Dubuque	2899	2835	2731	2813	2894	3157	3933	3663	3477	3671
Emmet	561	589	534	571	632	623	684	662	550	461
Fayette	972	970	953	943	954	1076	1219	1217	1112	1084
Floyd	888	893	888	852	918	993	1022	1074	1009	1037
Franklin	356	376	327	350	340	337	400	410	340	338
Fremont	425	375	335	333	279	374	409	445	417	371
Greene	409	425	391	342	383	352	418	457	434	358
Grundy	396	305	276	244	229	277	345	286	264	234
Guthrie	505	503	464	428	480	587	677	660	605	621
Hamilton	596	551	534	492	508	558	557	593	527	550
Hancock	441	470	407	357	347	410	447	441	276	323
Hardin	1050	1106	1007	1062	960	1004	1078	1138	997	964
Harrison	728	744	687	652	665	706	747	795	757	776
Henry	641	639	571	532	492	522	564	593	573	603
Howard	473	479	431	443	515	532	592	624	554	563
Humboldt	303	305	289	305	311	369	411	491	453	408
Ida	334	257	243	234	245	294	327	316	280	224
Iowa	375	334	347	306	308	349	373	398	319	346
Jackson	783	797	756	784	817	885	1061	1052	931	908
Jasper	832	841	747	753	720	791	864	937	892	983

*The number of months used varies from two to five; months change across some years because of availability.

Table 1. Average Number of Students Receiving Free Meals in Selected Months* in Iowa Counties, 1983-1993 (continued).

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	326	302	283	263	257	281	342	327	328	345
Johnson	1379	1292	1243	1208	1198	1241	1201	1233	1020	1033
Jones	620	594	580	583	602	603	759	696	650	668
Keokuk	537	514	500	475	421	490	507	564	501	494
Kossuth	729	705	613	590	598	713	836	823	536	546
Lee	1397	1363	1238	1209	1266	1334	1389	1497	1327	1348
Linn	5627	5446	5096	4659	4669	4874	5090	5486	5375	5581
Louisa	606	514	514	482	416	445	482	558	481	493
Lucas	376	334	293	281	297	326	374	388	405	401
Lyon	392	366	319	367	414	479	557	547	434	367
Madison	476	472	410	445	437	448	567	616	496	540
Mahaska	831	814	792	788	826	901	939	975	893	965
Marion	863	820	741	654	753	791	840	921	887	882
Marshall	1435	1380	1297	1155	1128	1174	1573	1248	1213	1147
Mills	532	511	425	444	440	444	505	498	524	521
Mitchell	339	340	324	313	353	423	462	362	331	332
Monona	509	534	573	539	576	585	591	639	552	508
Monroe	365	364	358	321	349	389	425	425	386	373
Montgomery	401	388	338	345	331	365	395	402	375	354
Muscatine	1918	1836	1766	1587	1514	1492	1455	1322	1238	1191
O'Brien	543	522	469	453	501	564	623	600	449	407
Osceola	162	172	145	163	155	173	217	230	198	169
Page	750	615	584	604	565	653	724	680	645	682
Palo Alto	600	565	579	532	557	625	669	679	481	432
Plymouth	643	680	606	750	803	830	885	987	829	693
Pocahontas	421	392	383	307	314	355	418	435	385	350
Polk	10857	10257	9244	8691	8746	9288	9548	9744	9449	10119
Pottawattamie	3944	3747	3399	3112	3091	3206	3121	3267	3205	3278
Poweshiek	502	445	423	365	371	399	420	488	416	368
Ringgold	324	358	302	315	317	312	323	338	346	328
Sac	551	572	517	524	546	572	617	630	534	595
Scott	6533	6415	5859	5884	5607	5754	5729	5795	5607	5458
Shelby	644	555	493	441	435	489	517	448	393	365
Sioux	1073	1008	989	989	1050	1246	1451	1431	1135	975
Story	1313	1302	1251	1213	1220	1287	1315	1273	1132	1137
Tama	976	879	785	720	757	820	926	949	792	764
Taylor	392	381	384	371	394	445	482	559	468	473
Union	609	554	542	541	550	555	611	606	552	547
Van Buren	372	354	342	337	333	335	364	406	412	381
Wapello	1874	1944	1967	2034	2050	2166	2346	2234	2154	1977
Warren	798	744	645	604	628	868	725	771	725	724
Washington	505	545	536	533	518	562	611	597	488	439
Wayne	419	365	330	343	356	359	382	406	387	377
Webster	1634	1514	1533	1481	1516	1592	1588	1789	1641	1551
Winnebago	403	361	404	356	347	378	456	485	409	381
Winneshiek	504	490	482	491	529	534	599	642	524	516
Woodbury	4496	4430	4211	3994	4070	4111	4320	4189	3928	3750
Worth	232	198	191	193	181	195	241	261	192	221
Wright	486	424	439	410	390	471	490	502	445	414
State of Iowa	100798	97820	91826	88983	90009	96058	104328	105037	95225	94223

Table 2. Average Number of Students Receiving Reduced-Price Meals in Selected Months* in Iowa Counties, 1983-1993.

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	121	110	73	92	106	111	79	100	113	103
Adams	59	61	52	48	65	59	68	65	70	60
Allamakee	252	269	256	225	205	188	175	203	181	215
Appanoose	195	191	176	182	171	139	146	148	161	129
Audubon	78	91	84	61	64	61	63	65	69	68
Benton	291	292	293	213	263	326	276	252	230	271
Black Hawk	1177	1142	1152	985	1004	1068	1216	1095	1117	1164
Boone	226	224	222	233	206	198	221	209	205	171
Bremer	308	287	305	294	278	254	289	230	208	225
Buchanan	201	216	196	218	177	192	207	206	176	201
Buena Vista	315	290	271	229	215	287	281	262	259	279
Butler	243	220	248	151	178	167	180	178	167	171
Calhoun	260	207	167	196	147	165	163	149	127	142
Carroll	327	416	355	335	348	332	349	298	289	326
Cass	269	203	271	222	250	243	267	266	235	258
Cedar	195	188	179	178	179	177	160	138	130	150
Cerro Gordo	488	457	437	433	476	486	499	402	383	384
Cherokee	233	192	185	184	192	189	192	223	214	176
Chickasaw	189	168	197	202	169	186	198	149	160	186
Clarke	135	113	108	88	96	75	132	82	63	86
Clay	268	316	292	284	230	223	265	273	185	235
Clayton	263	276	313	240	251	231	258	276	254	279
Clinton	418	331	367	342	291	287	326	315	318	408
Crawford	322	347	299	277	280	279	310	302	297	287
Dallas	440	387	380	287	279	325	353	346	299	326
Davis	103	102	97	97	92	88	90	80	108	103
Decatur	134	127	118	105	109	115	105	87	113	94
Delaware	189	191	170	154	149	123	127	142	175	182
Des Moines	317	339	335	317	332	377	334	290	324	355
Dickinson	194	204	154	164	145	129	133	125	131	137
Dubuque	1224	1101	1058	958	936	996	970	1026	1021	1114
Emmet	206	244	216	201	192	227	203	229	200	197
Fayette	361	321	275	250	254	252	296	288	330	342
Floyd	245	230	226	240	229	264	272	257	229	274
Franklin	218	169	194	155	149	169	126	96	89	121
Fremont	170	142	136	108	95	117	114	111	101	108
Greene	196	195	163	173	205	189	182	161	134	164
Grundy	204	125	122	119	129	135	140	108	99	120
Guthrie	220	191	158	151	169	158	158	213	146	163
Hamilton	243	237	221	189	174	203	214	206	197	219
Hancock	191	194	236	186	193	200	186	170	152	103
Hardin	282	243	268	233	274	253	268	259	273	268
Harrison	277	261	242	241	245	231	250	230	267	211
Henry	230	223	173	167	182	173	200	228	190	238
Howard	271	263	218	166	161	161	174	148	131	130
Humboldt	178	188	170	151	169	185	195	164	172	172
Ida	150	152	163	140	150	148	164	113	94	88
Iowa	206	221	220	165	167	163	184	184	162	169
Jackson	268	275	223	205	191	170	181	208	206	225
Jasper	313	251	261	218	195	192	232	243	304	291

*The number of months used varies from two to five; months change across some years because of availability.

Table 2. Average Number of Students Receiving Reduced-Price Meals in Selected Months* in Iowa Counties, 1983-1993 (continued).

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	96	80	55	68	74	57	57	85	83	118
Johnson	395	370	399	382	346	322	354	345	351	404
Jones	219	254	244	207	162	192	152	185	160	197
Keokuk	150	162	152	143	120	110	109	85	93	77
Kossuth	350	248	242	251	286	290	264	270	214	242
Lee	295	280	270	261	285	315	315	309	295	359
Linn	1556	1512	1476	1250	1246	1297	1400	1520	1460	1523
Louise	123	121	111	115	138	104	136	99	125	139
Lucas	96	85	104	97	105	95	110	97	84	75
Lyon	168	170	145	213	223	208	175	170	152	145
Madison	200	207	247	200	228	254	204	195	180	171
Mahaska	222	222	241	235	219	180	245	252	228	240
Marion	332	378	349	328	261	266	258	296	289	311
Marshall	439	422	355	332	320	349	428	342	383	411
Mills	162	154	188	117	67	118	100	146	114	150
Mitchell	183	149	166	174	156	206	179	118	160	118
Monona	149	142	138	132	112	120	153	153	129	158
Monroe	126	89	92	97	100	84	62	96	98	122
Montgomery	95	103	91	110	126	125	121	130	129	123
Muscatine	533	402	417	347	384	384	371	332	309	311
O'Brien	261	277	310	246	242	209	249	261	232	232
Osceola	123	90	100	94	83	85	102	81	91	106
Page	207	190	210	208	204	192	201	210	178	157
Palo Alto	188	197	193	169	168	161	194	171	160	143
Plymouth	357	339	273	341	317	342	299	373	313	284
Pocahontas	178	165	159	174	149	156	129	112	97	111
Polk	2776	2675	2638	2393	2538	2359	2418	2313	2252	2392
Pottawattamie	989	866	822	832	811	848	912	854	902	934
Poweshiek	150	141	132	145	100	94	138	121	144	158
Ringgold	99	97	94	71	80	72	77	53	58	55
Sac	236	261	202	234	232	266	309	232	230	242
Scott	1099	1007	996	918	923	842	897	874	889	972
Shelby	266	228	181	180	160	155	137	164	142	162
Sioux	745	747	683	663	633	601	577	548	474	490
Story	448	477	499	405	437	440	461	420	376	417
Tama	331	293	298	320	261	258	249	261	216	176
Taylor	104	114	96	100	118	105	119	97	134	131
Union	234	218	167	177	159	186	178	179	172	188
Van Buren	110	98	107	92	80	96	121	77	105	120
Wapello	462	438	417	334	388	363	385	410	608	397
Warren	285	279	249	292	264	259	224	240	250	290
Washington	213	225	186	140	170	156	184	165	163	186
Wayne	105	88	111	70	64	85	74	60	53	70
Webster	494	494	456	491	497	476	474	484	491	572
Winnebago	221	209	168	151	131	121	143	134	98	172
Winneshiek	234	218	231	197	201	197	184	152	130	156
Woodbury	1178	1184	1096	894	887	929	846	875	826	880
Worth	92	118	109	94	97	96	111	98	118	124
Wright	185	210	190	208	199	171	222	197	159	191
State of Iowa	32125	30677	29551	27140	26953	27063	27963	27015	26357	27763

Table 3. Average Number Enrolled in Schools in Selected Months* in Iowa Counties, 1983-1993.

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	1221	1188	1172	1130	1115	1179	1173	1176	1229	1219
Adams	720	704	709	741	766	789	782	766	786	786
Allamakee	2926	2929	2905	2903	2920	2965	2971	3071	3070	3193
Appanoose	2635	2645	2603	2607	2613	2693	2678	2627	2500	2577
Audubon	1067	1181	1161	1179	1192	1234	1267	1306	1326	1360
Benton	4570	4534	4500	4492	4351	4314	4400	4392	4424	4440
Black Hawk	20615	21025	21120	20642	20769	20708	21383	21541	22302	23167
Boone	4020	4034	3922	3905	3838	3830	3877	3760	3832	3881
Bremer	5497	5382	5326	5340	5295	5154	5387	5611	5770	5802
Buchanan	3675	3629	3633	3437	3408	3291	3265	3333	3467	3548
Buena Vista	3765	3619	3516	3360	3362	3322	3287	3226	3187	3137
Butler	2664	2669	2636	2635	2735	2728	2716	2765	2875	2943
Calhoun	2634	2571	2431	2382	2349	2403	2435	2444	2508	2538
Carroll	4159	4734	4193	4741	4288	4124	4332	4283	4397	4582
Cass	3103	3083	3174	3173	3169	3198	3167	3230	3244	3276
Cedar	3593	3603	3519	3499	3533	3438	3380	3379	3518	3520
Cerro Gordo	7293	7404	7400	7591	7494	7569	7841	7842	7831	7638
Cherokee	2950	2790	2738	2805	2772	2788	2743	2727	2811	2873
Chickasaw	2470	2468	2472	2498	2550	2537	2586	2742	2766	2818
Clarke	1760	1781	1682	1630	1652	2609	1667	1634	1605	1637
Clay	2777	3577	3434	3392	3314	3193	3196	3258	2965	3292
Clayton	3329	3628	3904	3398	3662	3454	3896	4026	4069	4147
Clinton	9426	9364	9188	9234	9098	9374	9314	9148	9437	9855
Crawford	3225	3511	3521	3631	3712	3814	3895	3926	3970	3848
Dallas	6808	6576	6323	6037	6043	5880	5936	5771	5857	5875
Davis	1409	1411	1437	1412	1415	1418	1457	1467	1502	1516
Decatur	1484	1489	1474	1457	1471	1507	1535	1527	1552	1587
Delaware	3924	3829	3756	3643	3604	3452	3574	3563	3643	3677
Des Moines	7709	7796	7729	7647	7693	7765	7765	7622	7599	7701
Dickinson	2785	2665	2712	2690	2643	2586	2624	2641	2749	2663
Dubuque	18129	18188	17523	17622	17787	17991	18282	18672	19069	19705
Emmet	2177	2318	2292	2321	2326	2301	2318	2316	2459	2353
Fayette	4668	4588	4734	4652	4624	4607	4671	4826	5013	5246
Floyd	3359	3380	3348	3338	3345	3472	3539	3429	3713	3817
Franklin	1849	1837	1817	1746	1693	1660	1691	1670	1706	1751
Fremont	1681	1687	1688	1664	1377	1697	1721	1720	1779	1768
Greene	1840	1826	1750	1731	1758	1752	1787	1845	1908	1920
Grundy	2740	2282	2264	2636	2419	2354	2369	2328	2502	2524
Guthrie	2430	2458	2414	2399	2415	2535	2563	2568	2609	2665
Hamilton	3131	3099	3032	3042	3084	2992	3014	3069	3196	3289
Hancock	2364	2440	2375	2335	2330	2401	2378	2371	2376	2420
Hardin	3844	4152	4093	4109	4077	4042	4189	4161	4347	4389
Harrison	3058	3037	2984	2978	2983	3055	3079	3077	3112	3174
Henry	3850	3802	3722	3598	3572	3605	3627	3620	3537	3563
Howard	2352	2333	2312	2276	2277	2305	2351	2356	2360	2459
Humboldt	1998	1958	1960	1969	1955	1978	1994	2040	2085	2149
Ida	1584	1567	1521	1429	1444	1401	1381	1335	1355	1353
Iowa	3031	3138	2967	2769	2710	2714	2791	2814	2823	2882
Jackson	4254	4226	4042	4139	4212	4259	4261	4357	4566	4698
Jasper	6436	6467	6350	6451	6125	6198	6136	6140	6397	6460

*The number of months used varies from two to five; months change across some years because of availability.

Table 3. Average Number Enrolled in Schools in Selected Months* in Iowa Counties, 1983-1993 (continued).

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	1853	1807	1771	1795	1826	1825	1869	1921	2039	2087
Johnson	11323	11268	10963	10807	10579	10599	10245	10253	10043	10256
Jones	3537	3471	3433	3389	3394	3404	3500	3416	3569	3629
Keokuk	2400	2421	2432	2446	2441	2443	2390	2407	2470	2480
Kossuth	3484	3583	3446	3471	3602	3540	3679	3656	3789	3992
Lee	7240	7298	6906	7102	7119	7485	7291	7225	7315	7446
Linn	32147	31861	29899	28832	29124	29670	30103	30498	31109	31860
Louisa	2757	2695	2732	2730	2663	2600	2669	2660	2694	2761
Lucas	1575	1559	1581	1575	1579	1621	1642	1631	1686	1668
Lyon	2375	2321	2032	2324	2353	2358	2353	2315	2323	2263
Madison	2800	2821	2815	2838	2836	2824	2855	2826	2785	2797
Mahaska	3493	3416	3444	3400	3412	3363	3409	3402	3434	3442
Marion	6031	6051	5820	5509	5546	5483	5036	5513	5573	5624
Marshall	6495	6782	6569	6574	6296	6515	6662	6843	7038	7243
Mills	2629	2587	2600	2623	2647	2667	2636	2663	2733	2782
Mitchell	2016	2002	1978	2000	2016	2035	2014	1455	2038	2038
Monona	1908	1900	1892	1925	1912	1882	1933	1938	1971	2020
Monroe	1335	1324	1316	1293	1274	1340	1331	1402	1437	1443
Montgomery	2006	2017	1989	2066	1987	2120	2004	1973	2044	2076
Muscatine	7673	7520	7273	7276	7204	7208	7219	7245	7122	7056
O'Brien	3094	3205	3201	3093	3107	3046	3134	3124	3031	3028
Osceola	995	966	926	1016	940	968	976	1030	1057	1292
Page	3205	3041	3008	3176	3076	3089	3091	3207	3229	3045
Palo Alto	2351	2296	2317	2311	2255	2212	2199	2215	2319	2341
Plymouth	5175	5211	4434	4971	4996	4955	4282	4861	4885	4853
Pocahontas	1873	1860	1800	1790	1738	1768	1743	1789	1872	1936
Polk	59994	55555	53487	52846	50778	50616	49740	49394	51289	51696
Pottawattamie	16199	16022	15709	15295	15430	15502	15946	16483	16610	16937
Poweshiek	2965	2860	2793	2822	2860	2883	2899	2895	2962	2998
Ringgold	998	1023	985	1006	995	992	994	993	1049	1070
Sac	2343	2400	2389	2414	2362	2331	2322	2324	2354	2362
Scott	28809	28683	28473	28207	27704	27823	27678	28349	29786	29959
Shelby	3022	2708	2627	2601	2581	2599	2634	2684	2775	2797
Sioux	6893	6851	6749	6464	6501	6396	6329	6402	6346	6458
Story	9955	10018	9570	9407	9300	9200	9106	8989	9027	9055
Tama	3652	3402	3413	3432	3474	3564	3581	3593	3502	3549
Taylor	1269	1298	1375	1359	1414	1363	1386	1389	1433	1497
Union	2322	2336	2294	2376	2409	2405	2428	2426	2476	2503
Van Buren	1434	1406	1399	1400	1405	1431	1457	1449	1499	1517
Wapello	6772	6739	6688	6564	6700	6769	6943	7196	7376	7410
Warren	6818	6725	6717	6634	6465	6561	6483	6703	6722	6556
Washington	3691	3680	3644	3599	3686	3660	3660	3675	3693	3658
Wayne	1243	1190	1214	1192	1193	1196	1236	1239	1280	1347
Webster	6906	6746	6703	6526	6749	6622	6772	6862	7005	7099
Winnebago	2840	2811	2790	2757	2815	2787	2756	2676	2743	2723
Winneshiek	3334	3245	3181	3173	3213	3116	3134	3150	3104	3123
Woodbury	18568	18435	18432	17878	17994	17788	17014	16860	16804	17127
Worth	1159	1151	1110	1117	1154	1154	1222	1224	1269	1275
Wright	2730	2688	2574	2616	2640	2619	2686	2778	2850	2843
State of Iowa	514671	509850	498375	494454	491083	493034	493328	496697	507262	514671

Table 4. Percent Enrolled Who Received Free or Reduced-Price School Meals in Selected Months* in Iowa Counties, 1983-1993.

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Adair	35.4	33.6	32.2	29.2	28.5	30.9	35.2	36.5	29.8	29.0
Adams	32.2	30.9	30.0	28.3	31.3	26.4	34.7	34.3	29.6	25.7
Allamakee	28.2	26.8	25.4	24.7	24.3	25.9	27.5	27.9	25.3	24.9
Appanoose	38.9	39.1	39.2	38.1	37.9	40.1	39.5	42.1	41.2	38.1
Audubon	27.3	28.7	27.2	21.6	22.1	24.3	26.9	26.4	22.0	20.1
Benton	24.0	24.7	25.2	23.0	23.2	25.3	26.8	25.0	22.8	23.5
Black Hawk	30.4	29.3	28.3	28.2	28.6	30.7	36.1	32.5	28.7	27.7
Boone	20.5	19.6	18.7	19.0	19.1	19.4	21.9	23.4	22.2	20.2
Bremer	19.2	18.2	17.8	16.8	18.0	21.5	25.8	21.5	16.3	15.3
Buchanan	26.2	27.8	25.3	26.5	26.7	29.5	34.7	33.7	29.2	27.3
Buena Vista	30.5	29.6	28.8	27.8	26.4	29.3	30.8	28.6	26.5	26.0
Butler	27.4	27.0	26.7	24.1	22.7	25.0	30.6	29.1	20.9	21.0
Calhoun	29.6	27.3	25.4	23.5	24.1	26.3	29.5	29.5	21.3	21.0
Carroll	22.6	24.7	24.1	22.7	24.7	25.5	28.0	26.5	20.7	20.6
Cass	30.5	29.3	28.0	27.4	28.6	28.9	31.0	30.2	26.8	23.0
Cedar	18.7	17.5	15.5	16.3	16.7	17.8	17.9	17.3	16.1	15.3
Cerro Gordo	26.3	24.3	23.8	22.4	23.6	24.1	24.4	23.8	20.5	21.2
Cherokee	25.5	24.6	23.7	23.0	25.2	26.1	28.4	29.9	25.6	23.8
Chickasaw	24.4	24.3	24.3	24.4	23.6	26.0	29.1	26.8	22.6	23.8
Clarke	37.7	31.7	29.6	28.9	32.4	22.1	36.8	36.8	30.7	29.0
Clay	28.3	26.3	25.7	25.4	25.4	28.6	29.3	29.3	23.2	22.6
Clayton	25.7	26.0	25.1	23.3	25.3	28.0	30.3	30.6	26.0	26.6
Clinton	21.9	20.0	20.1	19.8	20.2	20.3	22.2	23.8	21.1	20.8
Crawford	31.1	30.6	29.6	29.6	27.0	27.7	29.3	28.3	23.8	22.5
Dallas	22.6	20.3	19.2	17.8	17.1	19.9	21.1	22.5	21.3	21.3
Davis	34.1	32.6	29.7	28.8	28.1	33.2	35.1	35.4	33.5	34.5
Decatur	46.9	43.8	40.8	39.5	39.0	38.5	39.5	37.5	34.4	34.5
Delaware	22.5	21.8	21.0	21.5	23.0	22.7	26.5	27.3	23.9	24.2
Des Moines	23.1	24.3	24.2	23.1	23.8	23.8	22.4	23.6	23.6	22.8
Dickinson	21.0	23.4	21.5	23.1	24.6	25.4	26.6	27.1	23.1	20.7
Dubuque	22.7	21.6	21.6	21.4	21.5	23.1	26.8	25.1	23.6	24.3
Emmet	35.3	35.9	32.7	33.3	35.4	36.9	38.3	38.5	30.5	28.0
Fayette	28.6	28.1	25.9	25.6	26.1	28.8	32.4	31.2	28.8	27.2
Floyd	33.7	33.2	33.3	32.7	34.3	36.2	36.6	38.8	33.3	34.3
Franklin	31.0	29.7	28.7	28.9	28.9	30.5	31.1	30.3	25.1	26.2
Fremont	35.4	30.7	27.9	26.5	27.2	28.9	30.4	32.3	29.1	27.1
Greene	32.9	34.0	31.7	29.8	33.4	30.9	33.6	33.5	29.8	27.2
Grundy	21.9	18.8	17.6	13.8	14.8	17.5	20.5	16.9	14.5	14.0
Guthrie	29.8	28.2	25.8	24.1	26.9	29.4	32.6	34.0	28.8	29.4
Hamilton	26.8	25.4	24.9	22.4	22.1	25.4	25.6	26.0	22.7	23.4
Hancock	26.7	27.2	27.1	23.3	23.2	25.4	26.6	25.8	18.0	17.6
Hardin	34.6	32.5	31.2	31.5	30.3	31.1	32.1	33.6	29.2	28.1
Harrison	32.9	33.1	31.1	30.0	30.5	30.7	32.4	33.3	32.9	31.1
Henry	22.6	22.7	20.0	19.4	18.9	19.3	21.1	22.7	21.6	23.6
Howard	31.6	31.8	28.1	26.8	29.7	30.1	32.6	32.8	29.0	28.2
Humboldt	24.1	25.1	23.4	23.2	24.6	28.0	30.4	32.1	30.0	27.0
Ida	30.6	26.1	26.7	26.2	27.4	31.5	35.6	32.1	27.6	23.1
Iowa	19.2	17.7	19.1	17.0	17.5	18.9	20.0	20.7	17.0	17.9
Jackson	24.7	25.4	24.2	23.9	23.9	24.8	29.1	28.9	24.9	24.1
Jasper	17.8	16.9	15.9	15.1	14.9	15.9	17.9	19.2	18.7	19.7

*The number of months used varies from two to five; months change across some years because of availability.

Table 4. Percent Enrolled Who Received Free or Reduced-Price School Meals in Selected Months* in Iowa Counties, 1983-1993 (continued).

County	1992- 1993	1991- 1992	1990- 1991	1989- 1990	1988- 1989	1987- 1988	1986- 1987	1985- 1986	1984- 1985	1983- 1984
Jefferson	22.8	21.2	19.1	18.4	18.1	18.5	21.3	21.4	20.2	22.2
Johnson	15.7	14.8	15.0	14.7	14.6	14.7	15.2	15.4	13.7	14.0
Jones	23.7	24.4	24.0	23.3	22.5	23.4	26.0	25.8	22.7	23.8
Keokuk	28.6	27.9	26.8	25.3	22.2	24.6	25.8	27.0	24.0	23.0
Kossuth	31.0	26.6	24.8	24.2	24.5	28.3	29.9	29.9	19.8	19.7
Lee	23.4	22.5	21.8	20.7	21.8	22.0	23.4	25.0	22.2	22.9
Linn	22.3	21.8	22.0	20.5	20.3	20.8	21.6	23.0	22.0	22.3
Louisa	26.4	23.6	22.9	21.9	20.8	21.1	23.2	24.7	22.5	22.9
Lucas	30.0	26.9	25.1	24.0	25.5	26.0	29.5	29.7	29.0	28.5
Lyon	23.6	23.1	22.8	25.0	27.1	29.1	31.1	31.0	25.2	22.6
Madison	24.2	24.1	23.3	22.7	23.4	24.9	27.0	28.7	24.3	25.4
Mahaska	30.1	30.3	30.0	30.1	30.6	32.1	34.7	36.1	32.6	35.0
Marion	19.8	19.8	18.7	17.8	18.3	19.3	21.8	22.1	21.1	21.2
Marshall	28.8	26.6	25.1	22.6	23.0	23.4	30.0	23.2	22.7	21.5
Mills	26.4	25.7	23.6	21.4	19.2	21.1	23.0	24.2	23.3	24.1
Mitchell	25.9	24.4	24.8	24.4	25.2	30.9	31.8	33.0	24.1	22.1
Monona	34.5	35.6	37.6	34.9	36.0	37.5	38.5	40.9	34.6	33.0
Monroe	36.8	34.2	34.2	32.3	35.2	35.3	36.6	37.2	33.7	34.3
Montgomery	24.7	24.4	21.6	22.0	23.0	23.1	25.7	27.0	24.7	23.0
Muscatine	31.9	29.8	30.0	26.6	26.3	26.0	25.3	22.8	21.7	21.3
O'Brien	26.0	24.9	24.3	22.6	23.9	25.4	27.8	27.6	22.5	21.1
Osceola	28.6	27.1	26.5	25.3	25.3	26.7	32.7	30.2	27.3	21.3
Page	29.9	26.5	26.4	25.6	25.0	27.4	29.9	27.8	25.5	27.6
Palo Alto	33.6	33.2	33.3	30.3	32.2	35.5	39.2	38.4	27.6	24.6
Plymouth	19.3	19.5	19.8	21.9	22.4	23.7	27.7	28.0	23.4	20.1
Pocahontas	32.0	29.9	30.1	26.9	26.6	28.9	31.4	30.6	25.7	23.8
Polk	22.7	23.3	22.2	21.0	22.2	23.0	24.1	24.4	22.8	24.2
Pottawattamie	30.5	28.8	26.9	25.8	25.3	26.2	25.3	25.0	24.7	24.9
Poweshiek	22.0	20.5	19.9	18.1	16.5	17.1	19.2	21.0	18.9	17.5
Ringgold	42.3	44.5	40.2	38.4	39.9	38.7	40.2	39.4	38.5	35.8
Sac	33.6	34.7	30.1	31.4	32.9	36.0	39.9	37.1	32.5	35.4
Scott	26.5	25.9	24.1	24.1	23.6	23.7	23.9	23.5	21.8	21.5
Shelby	30.1	28.9	25.7	23.9	23.1	24.8	24.8	22.8	19.3	18.8
Sioux	26.4	25.6	24.8	25.6	25.9	28.9	32.0	30.9	25.4	22.7
Story	17.7	17.8	18.3	17.2	17.8	18.8	19.5	18.8	16.7	17.2
Tama	35.8	34.5	31.7	30.3	29.3	30.2	32.8	33.7	28.8	26.5
Taylor	39.0	38.2	34.9	34.7	36.2	40.4	43.4	47.2	42.0	40.3
Union	36.3	33.1	30.9	30.2	29.4	30.8	32.5	32.4	29.2	29.4
Van Buren	33.6	32.2	32.1	30.6	29.4	30.1	33.3	33.3	34.5	33.0
Wapello	34.5	35.4	35.6	36.1	36.4	37.4	39.3	36.7	37.4	32.0
Warren	15.9	15.2	13.3	13.5	13.8	17.2	14.6	15.1	14.5	15.5
Washington	19.5	20.9	19.8	18.7	18.7	19.6	21.7	20.7	17.6	17.1
Wayne	42.2	38.1	36.3	34.6	35.2	37.1	36.9	37.6	34.4	33.2
Webster	30.8	29.8	29.7	30.2	29.8	31.2	30.4	33.1	30.4	29.9
Winnebago	22.0	20.3	20.5	18.4	17.0	17.9	21.7	23.1	18.5	20.3
Winneshiek	22.1	21.8	22.4	21.7	22.7	23.5	25.0	25.2	21.1	21.5
Woodbury	30.6	30.5	28.8	27.3	27.5	28.3	30.4	30.0	28.3	27.0
Worth	28.0	27.5	27.0	25.7	24.1	25.2	28.8	29.3	24.4	27.1
Wright	24.6	23.6	24.4	23.6	22.3	24.5	26.5	25.2	21.2	21.3
State of Iowa	25.8	25.2	24.4	23.5	23.8	25.0	26.8	26.6	24.0	23.7

Reduced-Price Meals

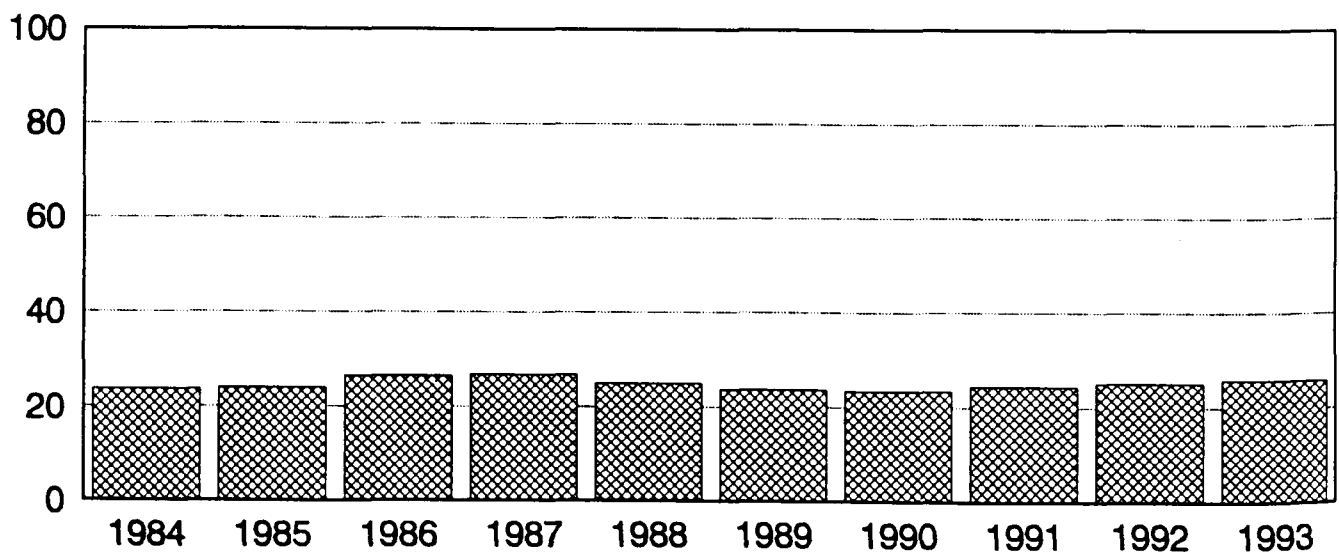
The number of students in Iowa receiving reduced-price meals did not vary as much as the number getting free meals (Table 2). In 1992-1993, an average of 32,125 students qualified for reduced-price meals each month. This was the highest average for the state for reduced-priced meals during the period examined. For 1992-1993, Polk had 2,776 students getting reduced-price meals; the counts were greater than 1,000 in Black Hawk, Dubuque, Linn, Scott, and Woodbury. Twenty-two other counties had 300 or more. Adams (59) had the fewest students receiving reduced-price meals; six other counties also were under 100.

Percentage of Students Receiving Free or Reduced-Price Meals

In Iowa in 1992-1993, 25.8% of students enrolled in school received either free or reduced-price meals (Table 4). Only the two school years from 1985-1986 through 1986-1987 had higher percentages (Figure 1). In 1992-1993, Johnson (15.7%) had the lowest percentage of students in the meal program. Nine other counties had less than 20.0% of students qualifying; their figures were at least five percentage points below that of the state. Thirty counties had percentages at least five points above the state's figure, with three at 40% or higher (Decatur, Ringgold, Wayne). For 37 counties, the percentages for the 1992-1993 school year were lower than what they had been during 1987-1988. Two (Lyon, Mitchell) dropped by at least five percentage points. Sixty-two counties had greater percentages of students in the meal program in 1992-1993 than in 1987-1988. Twelve had gains of at least five percentage points, with two (Clarke, Decatur) increasing by at least eight points.

Note: Caution must be exercised in comparing the averages among the years. The months for which data were available varied considerably (1983-1984: November 1983 and May 1984; 1984-1985: October and December 1984, January, March, and May 1985; 1985-1986: March and May 1986; 1986-1987: September and October 1986, January and May 1987; 1987-1988: September and October 1987, January, February, and April 1988; 1988-1989: December 1988 and January and February 1989). For the years from 1989-1990 through 1992-1993, 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, 1984-1993.



Medical Services Provided Under Title XIX of the Social Security Act in Iowa's Counties: 1980-1992

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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 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, those actually receiving benefits, and benefits paid were calculated for each year from 1980 through 1992; numbers from monthly reports were summed and divided by 12, with benefit dollars rounded to the nearest \$100.

Persons Eligible for Title XIX Assistance

In 1992, Iowa averaged over 217,000 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 13 years reported. The figure for 1982, the lowest of those reported, was nearly 148,000.

Polk averaged 27,500 persons eligible for medical assistance each month in 1992, the highest of any county. Black Hawk, Linn, Scott, and Woodbury were the only other counties with more than 10,000. Fifty-three counties had from 1,000 to 9,999 persons eligible for Title XIX assistance. Osceola was the only county with fewer than 400 persons eligible while four others (Adams, Audubon, Ida, Worth) were below 500.

The state averaged 69,500 more persons eligible for the Title XIX program in 1992 than in 1982. All counties followed that pattern with more persons eligible for the program at the end of the period than 10 years earlier. Seventeen reported at least 1,000 more persons eligible in 1992 than in 1982. Twenty-two had fewer than 200 more eligible in 1992 than 10 years earlier, although the difference was less than 100 only in Mills.

Iowa had 47.1% more persons eligible for Title XIX assistance in 1992 than in 1982. Fifty-four counties had percentage increases larger than that for the state. Eight (Adams, Chickasaw, Crawford, Hancock, Johnson, Keokuk, Marshall, Story) had gains of 75% or more. Jones and Mills were the only counties reporting increases of less than 20%.

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 1992, more than 170,000 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 13 years studied (Figure 1).

Table 1. Average Monthly Number Eligible for Title XIX Benefits in Iowa Counties, 1980-1992.

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

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

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

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

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	6.0	5.7	5.3	4.4	4.3	4.9	5.4	4.9	4.4	4.2	3.8	4.2	4.2
Adams	9.4	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	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	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	6.3	6.0	5.1	4.7	4.4	4.3	4.5	4.2	3.3	3.4	3.6	4.1	4.2
Benton	6.5	6.1	5.9	5.1	5.0	5.2	4.9	5.0	4.9	4.4	3.9	4.0	3.9
Black Hawk	10.6	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	8.3	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	4.7	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	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	5.7	5.2	4.9	4.5	4.5	4.7	4.7	4.2	3.7	3.7	3.7	4.0	4.0
Butler	6.9	6.5	6.2	5.6	5.7	6.1	6.1	5.6	5.0	4.5	3.7	4.2	4.4
Calhoun	7.0	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	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	8.1	7.3	6.4	5.8	5.5	5.8	5.8	5.4	4.8	4.5	4.5	5.3	5.0
Cedar	5.5	5.2	5.2	4.8	4.6	4.8	4.4	3.9	3.5	3.6	3.6	3.7	4.1
Cerro Gordo	8.2	7.7	7.4	6.8	6.5	6.5	6.2	5.6	5.4	5.6	5.5	6.0	6.0
Cherokee	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	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	10.0	8.8	8.3	7.3	7.5	8.3	8.0	7.5	6.3	6.6	6.0	5.6	5.6
Clay	6.9	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	5.6	5.1	4.8	4.9	4.9	4.7	4.5	4.5	4.2	4.4	4.5
Clinton	9.2	8.8	8.4	7.9	7.3	7.6	7.9	7.5	6.5	5.9	4.8	4.7	4.3
Crawford	9.0	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	5.5	5.2	5.1	5.1	4.7	5.4	5.5	5.3	5.0	4.7	4.1	4.3	4.1
Davis	8.3	8.0	8.6	8.6	8.3	8.6	7.5	7.7	7.3	6.8	5.5	5.7	6.1
Decatur	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	5.7	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	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	5.1	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	6.5	6.2	5.8	5.7	5.6	6.1	6.3	6.2	6.0	5.7	4.7	4.6	4.6
Emmet	7.9	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	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	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	6.6	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	9.1	8.3	7.6	7.5	7.1	7.2	7.0	6.6	5.7	5.2	4.7	5.5	5.7
Greene	6.9	6.5	6.3	5.5	5.4	5.5	5.6	5.3	4.9	4.5	4.3	4.8	4.7
Grundy	4.3	4.1	3.6	3.4	3.2	3.6	3.5	3.3	3.1	2.8	2.5	2.8	2.7
Guthrie	8.4	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	7.1	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	6.1	5.4	4.6	3.9	3.6	3.8	3.7	3.3	3.1	3.3	3.2	3.7	3.8
Hardin	7.3	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	10.0	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	6.9	6.7	6.1	5.5	4.8	4.7	5.0	5.4	5.4	5.1	4.3	4.7	5.0
Howard	7.0	6.3	6.1	5.4	4.8	5.2	5.6	5.7	5.3	5.4	4.7	5.0	5.2
Humboldt	6.8	6.0	5.6	5.4	5.2	5.3	5.2	4.8	3.9	3.9	3.8	4.3	4.1
Ida	5.5	4.8	4.1	4.0	4.0	4.2	3.8	3.4	3.1	3.2	3.1	3.3	3.5
Iowa	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	8.2	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	6.3	5.8	5.4	5.2	5.2	5.7	6.1	5.8	5.4	5.4	4.9	5.2	5.0

*1992 rates were calculated with 1991 population estimates.

Table 3. Average Monthly Number Eligible for Title XIX Benefits as a Percentage of Total Population in Iowa Counties, 1980-1992 (continued).

County	1992*	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Jefferson	7.6	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	3.4	3.1	2.9	2.6	2.5	2.5	2.4	2.2	2.1	2.0	2.0	2.3	2.3
Jones	5.5	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	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	6.0	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	10.2	9.7	9.1	8.6	8.1	8.4	8.5	8.3	7.9	7.4	6.5	6.4	6.1
Linn	6.8	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	8.4	7.8	7.2	6.6	6.6	7.4	7.5	7.4	7.4	6.6	5.8	6.0	6.6
Lucas	10.3	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	4.5	4.0	3.7	3.4	3.1	3.1	3.1	2.9	2.8	2.6	2.6	2.7	2.4
Madison	6.2	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	9.3	8.9	8.5	7.8	7.3	7.6	7.7	7.1	6.6	6.6	5.9	6.3	6.2
Marion	5.8	5.4	5.2	4.9	4.8	5.1	5.4	5.0	5.0	4.8	4.1	4.4	4.6
Marshall	8.2	7.6	6.9	6.5	6.2	6.4	6.0	5.6	5.5	5.1	4.1	5.2	5.5
Mills	11.4	10.8	10.8	10.7	11.0	11.5	11.7	12.0	11.1	10.7	10.8	11.5	11.4
Mitchell	5.0	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	10.8	10.4	9.4	8.2	7.8	8.4	8.3	7.4	6.9	6.6	6.2	6.2	6.1
Monroe	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	8.6	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	9.1	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	5.7	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	4.3	4.4	3.8	3.7	3.2	3.3	3.8	3.5	2.8	2.6	2.3	2.5	2.9
Page	9.5	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	7.3	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	4.3	3.9	3.9	3.8	3.6	3.6	3.7	3.2	2.9	2.9	2.7	3.1	3.1
Pocahontas	6.4	6.1	5.1	4.4	3.9	4.1	4.2	4.1	4.1	3.9	3.8	4.2	4.2
Polk	8.3	7.7	7.2	6.8	6.6	6.8	6.9	6.9	6.9	6.9	6.6	7.2	6.9
Pottawattamie	10.1	9.5	8.6	7.8	7.5	7.4	7.4	7.3	7.2	7.4	7.2	8.0	7.9
Poweshiek	5.8	5.2	4.6	4.0	4.1	4.5	4.8	4.6	4.1	3.9	3.5	3.8	3.6
Ringgold	9.4	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	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	10.6	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	6.0	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	3.5	3.3	3.1	3.1	2.8	2.9	2.8	2.5	2.2	2.3	2.4	2.5	2.6
Story	3.5	3.2	3.0	2.6	2.4	2.6	2.4	2.2	2.0	1.9	1.8	2.0	2.1
Tama	7.9	7.0	6.2	5.6	5.6	5.9	5.5	5.1	4.9	4.8	4.6	5.2	5.3
Taylor	9.0	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	10.6	10.1	9.9	9.9	9.0	9.4	9.6	8.9	7.8	7.2	6.6	6.9	7.0
Van Buren	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	13.3	12.6	11.7	11.3	11.5	11.9	11.4	10.0	9.5	8.8	7.5	7.7	7.9
Warren	5.4	5.1	4.8	4.5	4.3	4.7	4.7	4.9	4.8	4.6	4.1	4.3	4.3
Washington	6.2	6.0	5.8	5.3	5.1	5.0	4.9	4.6	4.1	3.6	3.6	3.9	4.1
Wayne	10.6	9.2	9.5	8.6	8.4	8.2	8.5	8.5	8.1	7.6	7.1	7.3	7.4
Webster	10.5	10.1	9.5	8.8	8.3	8.6	8.4	7.7	7.4	6.9	6.4	6.8	7.2
Winnebago	5.2	5.0	4.7	4.0	3.6	3.8	3.9	3.7	3.3	3.7	3.5	4.1	3.9
Winneshiek	4.7	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	10.5	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	6.3	6.0	5.9	4.8	4.6	5.3	5.2	4.6	4.5	4.3	4.3	4.5	4.3
Wright	7.3	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	7.8	7.3	6.9	6.5	6.3	6.6	6.5	6.2	5.9	5.6	5.1	5.4	5.4

Table 4. Average Monthly Payments (\$) for Title XIX Benefits in Iowa Counties, 1980-1992.

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Adair	187900	162800	139900	102700	94000	88700	81000	82200	81600	70100	68700	73300	66700
Adams	117600	98000	85700	68600	67300	74000	60000	60300	52300	47600	35600	35000	29900
Allamakee	338800	286700	251000	194600	170500	167500	164100	164700	132300	131800	123800	145400	123700
Appanoose	475000	420100	368700	295800	269200	254900	203000	208300	175100	170300	153500	183800	153100
Audubon	223800	195900	149800	117300	97000	86400	77500	77200	57200	62400	48000	50900	48500
Benton	377600	391700	298500	247600	193200	175400	148900	139500	136200	128100	106800	108000	90000
Black Hawk	3610500	3268800	2698000	2273000	1985900	1783400	1449900	1380800	1136300	1060600	996100	980100	872400
Boone	3199000	3261400	3014900	2791700	2776800	2435300	2274000	2152900	2015300	2037700	1969800	1708900	1655900
Bremer	340200	309300	228400	177100	163200	140700	134600	128500	115000	119900	112500	102100	76200
Buchanan	463300	459800	387300	370600	342800	336700	323000	302300	234600	218200	224300	170000	141100
Buena Vista	393300	320400	263600	220400	225700	176600	149100	143700	114000	116800	113700	109900	99800
Butler	404300	373000	289400	244700	212200	193000	167000	157900	147700	148800	126700	127700	125100
Calhoun	346400	352700	296400	211100	189700	194100	161400	161300	122400	121400	113800	110700	107100
Carroll	543200	481000	424600	358700	258500	240500	187800	180800	165600	162000	167400	150400	149300
Cass	464700	407200	305000	235000	184600	185500	179600	188200	141000	141700	138300	129200	123600
Cedar	326000	291000	245300	210800	172600	174200	126300	108800	102800	97100	100200	102200	99100
Cerro Gordo	1410100	1245600	993100	754800	630700	547300	420200	401500	362900	378900	362600	351700	333100
Cherokee	353800	335500	350800	292800	250900	249200	231200	192100	163300	216300	227200	122000	148100
Chickasaw	250900	219900	171900	131800	127800	107200	91800	87300	74300	81400	67600	70300	63300
Clarke	234500	199200	148600	147700	125000	145200	103300	108400	86900	88200	76900	65600	56000
Clay	395300	371100	327000	252500	233700	205800	169900	159300	133900	130200	111000	113100	105500
Clayton	441900	399700	317800	277500	243500	206800	179600	163000	165800	165100	150000	149300	126200
Clinton	1373100	1370700	1101900	778900	664700	619700	499700	433600	333400	329700	299700	285400	243400
Crawford	552500	490400	363700	241500	209600	185800	164300	147700	130500	153100	127900	111200	108900
Dallas	571600	507100	425700	379100	331000	313700	255100	252100	209500	215200	191400	167500	146200
Davis	221100	183000	178900	141700	119900	101600	84800	90500	67400	83000	73600	63900	64200
Decatur	337800	264600	242400	188600	183200	162700	153100	143000	122900	123000	122600	126500	119500
Delaware	317500	294800	237200	198400	173400	159000	128000	124700	100200	99600	91000	94200	73700
Des Moines	1020600	926400	803200	675500	585300	512000	400200	466100	335900	310700	308900	300500	287100
Dickinson	267800	242100	180300	163400	119200	113300	94000	94900	96200	72900	85800	77100	67500
Dubuque	1683700	1562700	1320100	1121700	1005700	873200	761500	737300	678400	671000	589500	593500	526800
Emmet	385900	336200	252100	212000	184200	181600	160000	133200	113500	102600	98700	108800	96400
Fayette	535400	483900	379900	303200	258400	247600	210000	209900	186300	184900	166800	159200	137300

Table 4. Average Monthly Payments (\$) for Title XIX Benefits in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Floyd	594100	490700	408100	319900	265000	231100	195600	188700	179800	175200	159500	159200	134200
Franklin	308900	253200	200200	154900	152900	122300	103100	102700	100000	96300	94900	102200	97600
Fremont	261800	219900	194900	158700	139900	125100	109300	106500	90700	87200	83800	89700	78800
Greene	212400	182800	157400	114600	105800	95900	86100	88300	74700	74800	63200	70700	60000
Grundy	199200	168900	135500	124800	98700	95000	81900	83100	69500	68200	63000	67700	57100
Guthrie	327100	259800	218700	183800	172200	180500	166400	158300	149500	122500	123900	122900	106000
Hamilton	438800	331800	271400	201900	172600	153300	126800	133500	116300	107100	105500	102800	101800
Hancock	260100	218600	186700	139400	120700	108800	89500	89200	75100	78700	72800	68900	69900
Hardin	528400	453700	376600	279400	253600	202700	170600	166200	153200	144700	146100	145300	128100
Harrison	569900	521300	380100	334200	252500	242600	188700	216600	204800	180500	175200	174500	183600
Henry	413600	424200	342700	293300	268500	181300	157400	153600	155100	175200	135900	138600	145500
Howard	251300	237600	179700	143100	112900	115300	99600	99700	186100	105700	106800	104700	93200
Humboldt	263800	252100	227600	166500	134600	129900	105100	102700	83600	84800	99700	73800	71500
Ida	196700	175000	141500	133100	96700	95800	82900	84900	74600	75000	77400	76900	74100
Iowa	258600	241000	201700	137900	130300	122900	104000	92700	73800	80700	79200	78600	73600
Jackson	508900	443200	337200	289600	272200	243200	221900	189800	178800	165300	139300	128300	118700
Jasper	848700	727300	568600	444200	435200	397100	359800	355000	278900	273900	260100	243600	196000
Jefferson	350500	340100	305000	231400	184000	172800	126600	116000	116100	122600	112000	103600	97400
Johnson	1028600	916900	756700	527700	446000	385500	316800	319200	215300	212600	212800	175300	210100
Jones	296700	254500	208400	201800	162900	156100	130600	118500	107000	116900	99600	99500	95200
Keokuk	333700	297200	251700	181100	176300	148100	128900	117200	104100	102900	90800	92300	79400
Kossuth	357100	295300	266300	204500	166000	153500	125000	124500	104500	107500	107000	107200	100500
Lee	1088300	971800	783100	724000	602700	548400	505800	493000	416700	415900	379400	334400	291900
Linn	3539400	3028800	2583800	2062000	1749100	1493500	1266400	1261800	1107500	1140300	926700	916300	764600
Louisa	277100	273000	224800	167700	159000	144900	115200	116000	97100	92200	81200	74600	71600
Lucas	276000	255600	216400	181500	176100	149400	139400	147100	132800	131500	131900	123500	107100
Lyon	228600	208300	187300	146200	117500	109500	87000	79800	77900	64400	65900	60900	49000
Madison	286200	262200	258300	199200	186300	185100	178000	167500	148200	142700	134600	127100	112100
Mahaska	612700	563600	448600	379900	336000	310100	261600	241200	198200	201200	189900	169400	161900
Marion	558100	498600	417300	327800	295700	290600	227700	223400	195600	192600	187400	176900	143300
Marshall	810000	732500	581700	474400	405500	396500	313800	296000	256900	265200	245000	243400	232900
Mills	3870700	3849100	3662400	3299300	2964100	2806000	2766000	2447900	2204500	2366700	2118800	1944000	1675300

Table 4. Average Monthly Payments (\$) for Title XIX Benefits in Iowa Counties, 1980-1992 (continued).

County	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
Mitchell	230600	189400	154900	128300	112000	114900	108000	98700	95400	100300	94100	90800	88000
Monona	409400	373700	304300	219300	180800	179100	146100	136100	122800	145900	126500	118700	105000
Monroe	291300	255100	220800	177200	175400	144100	125100	114300	92300	103100	89400	79600	58800
Montgomery	418000	332000	244900	200600	168300	185300	153700	143300	115200	122600	103800	102100	91000
Muscatine	819600	789000	645200	509600	407800	355200	329500	312600	263000	255500	258700	256100	230100
O'Brien	347000	303700	252000	190100	168000	151800	123900	132700	128500	133800	126200	120900	116300
Osceola	142800	117000	93100	84900	74100	60200	49800	60100	33700	29200	31700	29300	26100
Page	523100	445700	375400	298600	274700	302500	255800	273800	173400	214800	227800	191500	190900
Palo Alto	308600	306900	224100	192600	160400	135400	125200	124200	108500	105000	97100	100800	85900
Plymouth	382800	326300	293800	229600	197800	187000	164800	132100	125900	125300	117900	123300	100900
Pocahontas	258200	204000	179700	142600	108500	105000	91300	91200	77600	88500	79800	91600	81100
Polk	9118900	7483200	6691800	5150300	4521100	4167900	3406800	3523800	2986800	3087300	2787000	2593900	2105800
Pottawattamie	2391600	2036300	1916800	1372300	1191900	1074800	960000	1048400	873100	974100	911500	798100	744300
Poweshiek	373800	323200	255900	206600	171700	156800	136600	138300	89800	94700	91900	84700	72400
Ringgold	217800	177100	155300	139800	124300	122300	99300	101900	84900	79100	77800	76300	81800
Sac	314500	279600	233800	188200	141200	117000	110100	117100	99300	100000	86300	84000	79800
Scott	4034900	3400600	2891400	2361900	2109900	1734800	1491100	1417700	1257000	1129100	996300	995800	832400
Shelby	314300	274100	212400	156400	136800	126100	125100	138800	107000	103700	100700	99900	79200
Sioux	507100	419800	322200	268700	213600	224900	223600	195900	169300	158200	154200	146100	126300
Story	814600	755100	621600	465600	364700	351800	306100	302200	247900	242700	240500	233600	211300
Tama	469800	397300	314200	257900	244600	210500	174700	175500	159700	159400	151100	146500	126400
Taylor	190000	173100	154000	122000	104100	96200	90000	102800	108500	94300	77400	73400	72800
Union	373800	326400	315100	263300	219900	220400	175700	160900	148700	161400	134600	131800	117500
Van Buren	162800	148400	134400	122000	103500	71300	63000	71500	57400	52700	43500	41900	40100
Wapello	1098500	961800	817600	737600	674300	626100	524000	501200	453300	458100	378200	358500	318800
Warren	705300	668500	575100	441200	400100	377600	328100	334600	280600	268200	236000	225400	224900
Washington	474100	485400	405800	285000	219800	189200	172200	167100	143000	124000	115500	126200	109800
Wayne	227900	188100	164500	154900	131800	122700	104100	118400	98000	95100	94300	88300	80800
Webster	1327300	1168700	958900	753700	644500	578300	499100	482800	416800	415800	381300	383800	322100
Winnebago	302200	259500	201300	164400	138100	128700	104700	101100	86400	79400	73300	79500	77000
Winneshiek	324200	294800	236100	182800	170500	131400	112300	103200	88300	89700	85800	87600	73400
Woodbury	3547600	3227300	2809600	2175200	2022300	1764700	1579300	1412400	1188400	1153000	934500	953300	911000
Worth	210700	177200	130900	103200	82200	77100	68400	68000	61500	56300	61100	54700	47600
Wright	335700	291700	227800	185800	186000	171000	139000	138100	112600	108500	110300	115000	114300
State of Iowa	74494500	66435700	56660000	45941400	40733100	36693700	31799100	30801800	26674800	26720600	24506400	23226100	20776800

Polk's average monthly number of recipients (25,000) was the highest in 1992. Five others (Black Hawk, Linn, Pottawattamie, Scott, Woodbury) had at least 5,000. Nine counties averaged fewer than 400 recipients of medical assistance, with Osceola the only one of these below 300.

The state and all 99 counties had more Title XIX recipients in 1992 than in 1982. Black Hawk, Linn, Polk, and Scott averaged at least 5,000 more persons receiving benefits in the later year. Twelve other counties had at least 1,000 more, while 20 increased by less than 200, although only Mills increased by less than 100 recipients.

In Iowa in 1992, an average of 78.5% of those eligible received benefits monthly. That figure for 1982 for the state was 57.4%. For the counties in Iowa in 1992, the percentage of those eligible who received benefits ranged from 63.4% to 95.1%.

Percentage of the Population Eligible for Title XIX Assistance

In 1992, an average of 7.8% 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 1992, the percentage of the population that was eligible for medical assistance ranged from less than 5% in 10 to 10% or more in 17 counties. Residents eligible for the program accounted for less than 4% of the total population in Johnson, Sioux, and Story; they were 11% or greater in Appanoose, Decatur, Mills, and Wapello. Fifty-six counties had percentages lower than that for the state. All counties had higher percentages of their populations eligible for the Title XIX medical assistance program in 1992 than in 1982.

Title XIX Payments

Average monthly payments for Title XIX benefits were more than \$74 million in 1992 (Table 4, Figure 2). Although increases have occurred every year except one (1983 to 1984) since 1980, gains were substantially larger from 1989 to 1992 than between earlier years. From 1980 through 1984, average monthly payments were in the \$20-\$27 million range.

In 1992, monthly payments averaged at least \$1 million in 16 counties, although Polk was the only one exceeding \$5 million. These 16 accounted for more than half (58.2%) of all Title XIX payments in 1992. Indeed, those receiving at least \$3 million monthly (Black Hawk, Boone, Linn, Mills, Polk, Scott, Woodbury) totaled more than two-fifths (41.5%) of all payments. In 1982, only Boone, Mills, and Polk received monthly payments averaging at least \$1 million. Some caution is urged in examining these figures; the totals for Boone and Mills are influenced by payments received in two state facilities.

Average payments per recipient also increased substantially over the 13 years examined (Table 5). In 1980, the average recipient received \$234 per month; the increase was more than \$200 to \$437 in 1992. Again, variations occurred across Iowa's counties. In 1992, for example, the average per recipient was \$600 or greater in five counties (Boone, Mills, Osceola, Sioux, Winnebago) while it was less than \$300 in two others (Muscatine, Scott).

Change in Selected Title XIX Figures

Although the average number of Title XIX recipients doubled from 1982 to 1992, average monthly payments tripled (Table 6). The average payment per recipient increased by about 50%. These figures indicate that it is a combination of an increase in the number of Title XIX recipients plus an increase in average payments per recipient that has generated the rapid rise in the total average monthly payments disbursed in Iowa. Although the number eligible for such assistance has increased as well, the number of recipients has increased more rapidly. That increase in the proportion of those eligible who actually receive benefits has worked to raise total payments as well.

Counties vary on these change figures, of course. For example, the percentage change in total average monthly payments from 1982 to 1992 is at least 300% in 11 counties, while it is less than 100% in three (Boone, Cherokee, Mills). Change in the average number of recipients topped 150% in

Table 5. Average Monthly Payments (\$) Per Recipient of Title XIX Benefits in Iowa Counties, 1980-1992.

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

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

Table 6. Change from 1982 to 1992 in Average Monthly Payment, Average Number of Recipients, and Average Payment Per Recipient of Title XIX Benefits in Iowa Counties.

County	Change in Average Monthly Payment		Change in Average Number of Recipients		Change in Average Payment Per Recipient	
	Dollars	Percent	Number	Percent	Dollars	Percent
Adair	119200	174	147	64	199	67
Adams	82000	230	197	166	73	24
Allamakee	215000	174	234	53	221	79
Appanoose	321500	209	512	60	168	94
Audubon	175800	366	173	86	359	151
Benton	270800	254	546	106	149	72
Black Hawk	2614400	262	6809	137	106	53
Boone	1229200	62	312	24	471	30
Bremer	227700	202	361	86	168	63
Buchanan	239000	107	531	83	46	13
Buena Vista	279600	246	398	88	212	85
Butler	277600	219	393	92	197	66
Calhoun	232600	204	244	66	257	83
Carroll	375800	224	421	78	255	83
Cass	326400	236	393	78	244	89
Cedar	225800	225	329	90	195	71
Cerro Gordo	1047500	289	1260	78	266	119
Cherokee	126600	56	211	52	15	3
Chickasaw	183300	271	304	115	186	73
Clarke	157600	205	281	92	149	60
Clay	284300	256	354	64	235	118
Clayton	291900	195	330	63	231	81
Clinton	1073400	358	1647	112	237	116
Crawford	424600	332	679	147	207	75
Dallas	380200	199	529	72	192	74
Davis	147500	200	213	71	186	76
Decatur	215200	176	293	68	182	64
Delaware	226500	249	259	56	244	123
Des Moines	711700	230	1263	87	164	77
Dickinson	182000	212	257	71	195	83
Dubuque	1094200	186	1521	64	184	74
Emmet	287200	291	359	91	262	105
Fayette	368600	221	671	100	151	61
Floyd	434600	272	512	81	267	106
Franklin	214000	226	230	70	265	91
Fremont	178000	212	262	92	185	63
Greene	149200	236	171	56	238	116
Grundy	136200	216	156	68	242	88
Guthrie	203200	164	313	80	148	47
Hamilton	333300	316	433	95	263	113
Hancock	187300	257	304	114	183	67
Hardin	382300	262	475	81	249	100
Harrison	394700	225	504	89	223	72
Henry	277700	204	473	97	152	55
Howard	144500	135	170	50	179	57
Humboldt	164100	165	214	68	182	57
Ida	119300	154	134	64	203	55
Iowa	179400	227	215	89	239	73
Jackson	369600	265	890	138	116	54
Jasper	588600	226	600	58	267	107

Table 6. Change from 1982 to 1992 in Average Monthly Payment, Average Number of Recipients, and Average Payment Per Recipient of Title XIX Benefits in Iowa Counties (continued).

County	Change in Average Monthly Payment		Change in Average Number of Recipients		Change in Average Payment Per Recipient	
	Dollars	Percent	Number	Percent	Dollars	Percent
Jefferson	238500	213	381	75	174	78
Johnson	815800	383	1320	135	230	106
Jones	197100	198	252	51	196	97
Keokuk	242900	268	349	98	218	85
Kossuth	250100	234	411	107	171	62
Lee	708900	187	1327	86	133	54
Linn	2612700	282	6426	143	118	57
Louisa	195900	241	278	78	209	92
Lucas	144100	109	238	49	110	41
Lyon	162700	247	184	92	265	80
Madison	151600	113	194	48	145	44
Mahaska	422800	223	702	90	170	70
Marion	370700	198	537	74	184	71
Marshall	565000	231	979	85	167	79
Mills	1751900	83	65	5	1292	73
Mitchell	136500	145	146	55	206	58
Monona	282900	224	371	80	218	80
Monroe	201900	226	289	83	201	79
Montgomery	314200	303	356	86	292	116
Muscatine	560900	217	2215	175	31	15
O'Brien	220800	175	277	69	197	62
Osceola	111100	350	125	111	319	114
Page	295300	130	503	76	104	30
Palo Alto	211500	218	169	39	290	128
Plymouth	264900	225	319	74	236	86
Pocahontas	178400	224	192	72	264	88
Polk	6331900	227	14296	133	104	40
Pottawattamie	1480100	162	4310	119	50	20
Poweshiek	281900	307	426	108	222	95
Ringgold	140000	180	137	54	251	82
Sac	228200	264	287	91	249	92
Scott	3038600	305	9777	203	70	34
Shelby	213600	212	298	96	192	59
Sioux	352900	229	375	80	272	82
Story	574100	239	1040	129	144	48
Tama	318700	211	445	85	197	69
Taylor	112600	145	179	64	138	50
Union	239200	178	348	58	170	76
Van Buren	119300	274	180	76	206	112
Wapello	720300	190	1604	95	110	49
Warren	469300	199	630	72	199	73
Washington	358600	310	439	94	276	112
Wayne	133600	142	186	53	156	59
Webster	946000	248	1414	92	202	81
Winnebago	228900	312	190	64	374	151
Winneshiek	238400	278	353	95	216	93
Woodbury	2613100	280	2947	81	282	110
Worth	149600	245	142	64	304	111
Wright	225400	204	321	73	191	76
State of Iowa	49988100	204	85672	101	148	51

Muscatine and Scott; it was under 50% in Boone, Lucas, Madison, Mills, and Palo Alto. Finally, change in the average Title XIX payment per recipient at least doubled in 20 counties but increased by less than 25% in Adams, Buchanan, Cherokee, Muscatine, and Pottawattamie.

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 benefits in Iowa, 1980-1992.

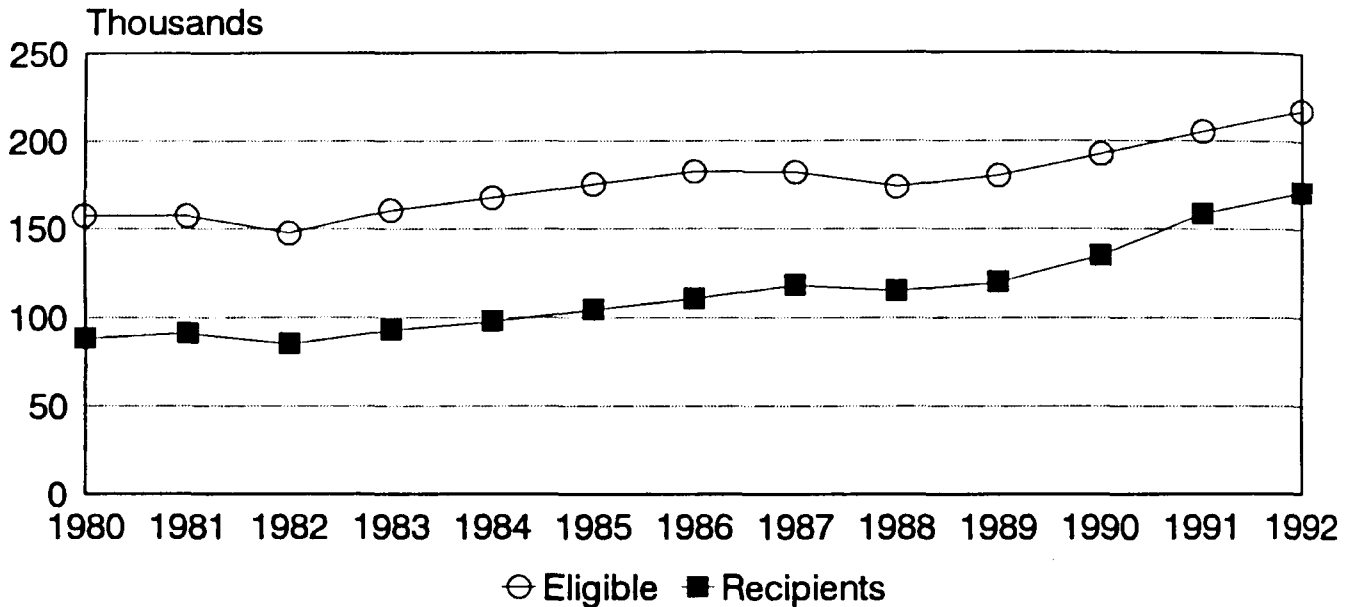
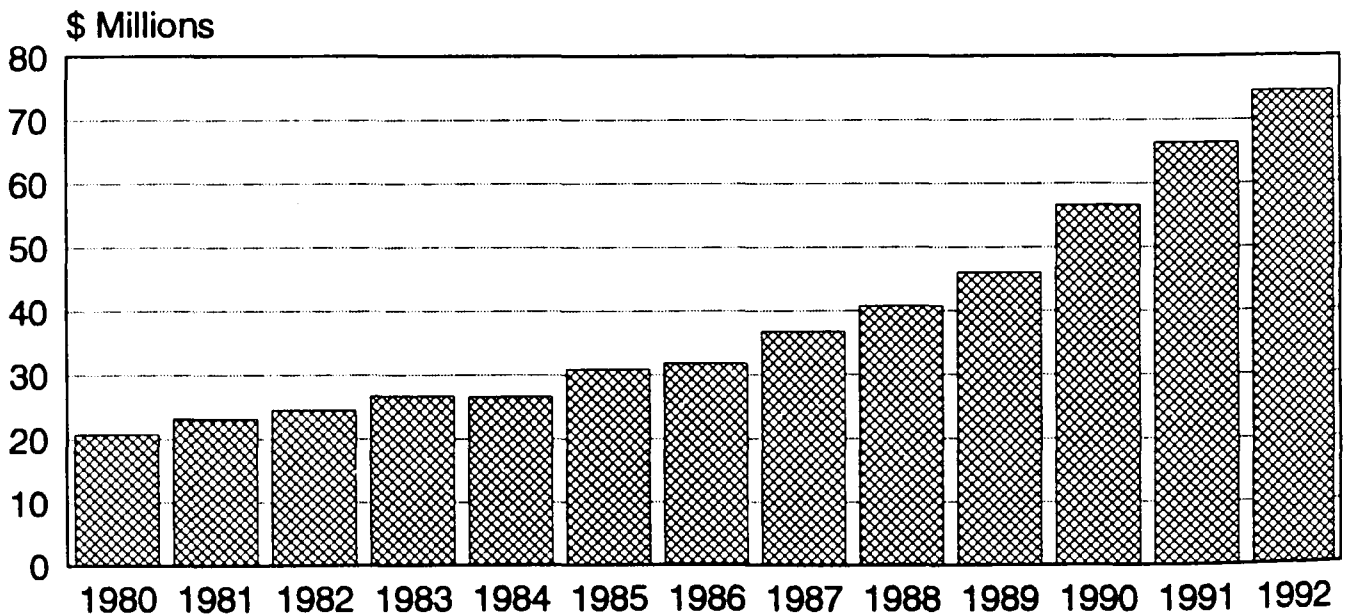


Figure 2. Average monthly payments of Title XIX benefits in Iowa, 1980-1992.



Voting for Selected Candidates in U.S. and Iowa Elections in Iowa's Counties: 1980-1992

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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.

President

The U.S. presidential race in 1992 attracted more voters for the major candidates than did those in 1980, 1984, and 1988 (Table 1). The total of 1.3 million voters in the most recent election for President was about 130,000 more than the number four years earlier. In 1992, 43.6% of the votes cast for the three major candidates went to the Democrat while 37.6% were given to the Republican and 18.8% to the slate listed as Independent in Table 1. The results favored the Republican candidate in 1980 (52.0%) and 1984 (53.7%) and the Democrat in 1988 (55.1%). The election in 1980 was the only other one in which a candidate other than a Democrat or Republican received at least 1% of the total; labeled as Independent in the table, this party received 8.9% of the votes in Iowa.

Contrary to the state totals, 33 counties reported more votes for the Republican than the Democrat for President in 1992 (Figure 1). Of these counties, eight (Grundy, Lyon, Mahaska, O'Brien, Page, Plymouth, Pottawattamie, Sioux) cast at least 1,000 more votes for the Republican than the Democrat that year. More than 7 of every 10 voters (72.7%) in Sioux selected the Republican, with at least half of the votes also going to this party's candidate in Grundy, Lyon, O'Brien, and Page. Among the 66 counties that favored the Democrat, four (Des Moines, Johnson, Lee, Wapello) cast at least 50% of their votes for this party's candidate in 1992. The Independent candidate did not receive more votes than the candidates of the two major political parties in any county; this candidate received less than 15% of the votes in four counties (Mahaska, Marion, Polk, Sioux), with the figure lowest in Sioux (12.1%). At least one in every four votes (25%) went to the Independent candidate in 12 counties; the counties with the highest percentages were Adams (26.4%) and Mills (26.7%).

Senator

Five races for U.S. senate seats occurred in Iowa from 1980 to 1992 (Table 2). The ability of a presidential election to draw voters to the polls is evident when the total votes for senator in 1980, 1984, and 1992 are compared with those for 1986 and 1990. The former years included presidential races, and more than 1.2 million votes for the senate candidates were counted; the 1986 and 1990 elections, which did not have candidates for President vying for office, each had less than 1 million votes for the two major senate candidates. The 1992 senate results were the most uneven, with the Republican claiming more than two-thirds (71.9%) of the votes; the Republican candidate also won in 1980 (54.1%) and 1986 (66.3%). The Democrat received the most votes in 1984 (56.0%) and in 1990 (53.9%).

In the 1992 contest for the U.S. senate seat, the Republican winner carried all counties and received at least 75% of the votes for the two major candidates in 57 counties. In 1990, the statewide

Table 1. Votes for Selected Candidates for U.S. President in Iowa Counties, 1980-1992.

County	1992			1988		1984		1980		
	Dem	Ind	Rep	Dem	Rep	Dem	Rep	Dem	Ind	Rep
Adair	1655	814	1713	2261	1833	1979	2615	1454	356	2821
Adams	1034	679	863	1283	1080	1221	1706	940	214	1779
Allamakee	2362	1543	2627	2768	3186	2282	3997	2170	343	4000
Appanoose	2810	1161	2346	3209	2779	3289	3412	2769	353	3544
Audubon	1589	887	1373	1863	1478	1854	2306	1546	251	2523
Benton	4467	2454	3469	5873	4011	4993	5566	4223	948	5329
Black Hawk	29584	10182	21398	31657	24112	31467	32262	27443	5847	29627
Boone	5913	2070	4148	7232	4381	6485	5746	5126	1081	5732
Bremer	4774	2338	4482	4961	5079	4084	6895	3527	970	6706
Buchanan	4166	2126	3313	4778	3495	4129	4965	3605	689	5041
Buena Vista	3374	1955	3863	4580	4170	4109	5193	3468	771	5272
Butler	2548	1333	3209	2593	3523	2323	4570	1990	392	4730
Calhoun	2140	946	2169	2990	2474	2541	3311	2150	407	3633
Carroll	3800	2192	3439	5437	3701	4960	5021	3885	736	5017
Cass	2231	1608	3176	2934	3962	2417	5053	2176	475	5391
Cedar	3296	1945	2965	4032	3373	3086	4617	2589	697	4398
Cerro Gordo	11415	4498	8250	12857	9358	11570	11214	9363	2024	11189
Cherokee	2590	1503	2768	3574	3218	3349	4046	2719	599	4087
Chickasaw	2913	1566	2129	3530	2549	3186	3661	2935	500	3929
Clarke	1921	899	1417	2262	1631	2030	2262	1614	310	2417
Clay	3346	1964	3011	4173	3641	3774	4450	3179	991	4479
Clayton	3742	2309	3044	4320	3839	3446	5029	3297	669	5115
Clinton	11683	4414	8746	12549	10243	11240	13914	9698	2140	13025
Crawford	3004	1905	2693	3868	3375	3396	4552	2500	509	4883
Dallas	6554	2665	5587	7501	4858	6564	6080	5310	1200	6296
Davis	1962	718	1344	2246	1563	2187	1956	1689	200	2003
Decatur	1866	786	1316	2192	1406	2098	2104	2048	318	2212
Delaware	3093	2144	3195	3947	3425	3158	4769	2671	727	4316
Des Moines	11309	3386	6378	11593	7652	11173	9559	9977	1041	9158
Dickinson	3106	1974	3196	3342	3678	3025	4064	2620	687	4028
Dubuque	20539	8208	14007	23797	14530	21876	19239	18689	3708	18649
Emmet	2239	1010	1749	2778	2173	2746	2946	2153	446	3062
Fayette	4412	2493	3879	5304	4921	4677	6505	4377	647	6374
Floyd	3688	1611	2404	4377	3266	4154	4341	3634	728	4665
Franklin	2049	1045	2137	2594	2320	2349	3129	1920	406	3290
Fremont	1422	1003	1459	1547	1946	1426	2686	1203	191	2693
Greene	2422	956	1952	3011	2091	2831	2579	2210	510	3154
Grundy	1895	1069	3160	2211	3433	1915	4527	1869	440	4644
Guthrie	2234	1216	1962	2910	2005	2517	2783	1866	384	3214
Hamilton	3262	1348	3031	4156	3277	3330	4279	2741	679	4745
Hancock	2175	1170	2428	2831	2731	2539	3362	1918	462	3681
Hardin	3792	1547	3590	5088	3856	4477	5195	3757	730	5329
Harrison	2349	1691	2763	2883	3108	2495	4352	2152	311	4502
Henry	3544	1522	3435	3754	3951	3377	4516	3317	629	4430
Howard	2099	1193	1516	2330	1970	2135	2718	2214	336	2975
Humboldt	1765	1093	2299	2713	2594	2406	3396	1840	394	3575
Ida	1449	1061	1714	1787	1951	1559	2618	1235	254	2825
Iowa	2560	1709	2656	3338	3247	2815	4352	2606	667	4153
Jackson	4421	2096	2673	4864	3237	4400	4811	3518	622	4479
Jasper	8120	2972	6866	8940	6703	8023	8576	7258	1221	8286

Table 1. Votes for Selected Candidates for U.S. President in Iowa Counties, 1980-1992 (continued).

County	1992			1988		1984		1980		
	Dem	Ind	Rep	Dem	Rep	Dem	Rep	Dem	Ind	Rep
Jefferson	2562	1241	2541	3594	3614	2961	4727	2577	505	4099
Johnson	28656	8625	14041	28759	15453	26000	18677	20122	8101	13642
Jones	3508	2306	3071	4641	3496	3825	4907	3521	759	4506
Keokuk	2329	1238	1981	2899	2278	2649	2913	2390	369	3145
Kossuth	3660	1906	3464	5088	3938	4838	4872	3810	775	5568
Lee	9366	2920	4777	10911	6228	8912	8756	8204	1047	8793
Linn	38567	19643	30215	42993	33129	38528	41061	31950	8773	36254
Louisa	2091	1044	1691	2268	2060	1927	2623	1700	291	2530
Lucas	2072	848	1734	2454	1776	2422	2630	1989	291	2593
Lyon	1331	1068	3272	1706	3517	1401	4178	1431	375	4349
Madison	2525	1168	2421	3421	2410	3067	3168	2496	505	3320
Mahaska	3714	1508	4953	4451	4798	4107	6086	3968	603	5650
Marion	5531	1896	6062	6922	5914	6313	7259	5490	1232	6665
Marshall	8303	3100	6784	9760	7657	8809	10839	7114	1541	10707
Mills	1798	1638	2699	2092	3212	1434	3994	1244	281	3581
Mitchell	2177	1199	1933	2870	2338	2531	3144	2040	361	3401
Monona	1939	1231	1660	2408	2068	2159	2746	1660	275	3268
Monroe	1829	612	1323	2338	1313	2342	1927	1866	216	2003
Montgomery	1599	1341	2404	1898	3166	1661	4224	1556	301	4115
Muscatine	7089	3583	6087	7059	6904	5986	9069	5597	1522	7829
O'Brien	2122	1557	3869	2768	4241	2479	5008	2210	536	4937
Osceola	990	813	1756	1277	1951	1146	2285	1051	234	2177
Page	1951	1669	3670	2185	4583	1914	5876	1772	356	5618
Palo Alto	2374	1186	1789	3377	2041	3018	2715	2463	412	3025
Plymouth	3171	2039	5196	4220	5316	3464	6482	2965	756	6515
Pocahontas	1919	942	1743	2722	1871	2481	2627	1959	397	3194
Polk	78585	24155	63708	84476	57854	75413	71413	61984	15819	64156
Pottawattamie	13228	8035	15671	14958	17193	12329	21527	10709	1870	20222
Poweshiek	4056	1680	3245	4876	3683	4103	4715	3529	821	4598
Ringgold	1341	551	967	1609	1110	1593	1512	1150	195	1884
Sac	1896	1157	2138	2613	2411	2363	3298	1976	467	3725
Scott	33765	11423	28844	34415	31025	32550	38034	26391	5760	34701
Shelby	2094	1614	2809	2806	3019	2291	4200	1892	372	4147
Sioux	2226	1771	10637	2923	10270	2585	11665	2698	610	10768
Story	17118	6275	12702	19051	13782	18277	19804	13529	7252	15829
Tama	3573	1748	2948	4584	3362	4061	4882	3049	593	4840
Taylor	1430	910	1200	1671	1647	1499	2496	1226	240	2715
Union	2565	1280	2224	3236	2751	2875	3583	2182	368	3372
Van Buren	1464	811	1418	1612	1692	1606	2138	1311	183	2142
Wapello	8670	2513	4852	10177	5350	10545	7098	8923	1050	7475
Warren	8612	3217	7242	9627	6424	8171	8277	6610	1369	7360
Washington	3384	1994	3576	3776	3741	3079	4613	2877	703	3967
Wayne	1632	642	1299	1988	1467	1927	2061	1627	218	2221
Webster	8562	3272	6992	10267	6926	9930	9619	9001	1386	10438
Winnebago	2322	1329	2407	2804	2863	2669	3616	2208	417	3808
Winneshiek	3791	2416	3331	4443	4194	3724	5277	3201	938	5033
Woodbury	17398	7182	18148	20153	18790	18951	23002	15930	3184	23553
Worth	2009	1044	1382	2440	1488	2263	1985	1721	301	2247
Wright	2776	1151	2708	3353	2658	2980	3675	2645	497	3936
State of Iowa	586353	253468	504891	670557	545355	605620	703088	508672	115637	676026

Table 2. Votes for Selected Candidates for U.S. Senator in Iowa Counties, 1980-1992.

County	1992		1990		1986		1984		1980	
	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep
Adair	875	2741	2139	1562	1064	2484	2745	1777	1742	2786
Adams	569	1798	1031	921	541	1648	1577	1283	1023	1755
Allamakee	1273	4370	2048	3207	1367	3666	2460	3611	2109	4254
Appanoose	1790	3573	2616	1943	1561	2926	3651	2884	2811	3550
Audubon	824	2364	1814	1513	899	1893	2411	1660	1623	2500
Benton	2416	8073	4381	3675	2428	4944	5603	4595	4374	5977
Black Hawk	16958	38192	23205	19577	16004	27005	35210	27319	28415	34008
Boone	3338	8268	6109	3392	3261	5438	7917	4239	5832	5647
Bremer	2263	8819	4071	4051	2111	5905	4956	5603	3301	7822
Buchanan	2075	7329	3591	3694	2167	4821	4910	4187	3682	5340
Buena Vista	1628	6366	3523	3622	1958	4949	4999	3960	4031	5158
Butler	1322	5486	2026	3045	1167	3900	2740	4019	1676	5422
Calhoun	1175	4051	2183	2034	1241	3096	3196	2545	2359	3716
Carroll	2228	7049	3401	3831	2368	4399	6199	3533	4029	5059
Cass	1471	5588	2737	3303	1302	3837	3253	3969	2312	5242
Cedar	1831	6079	2977	3100	1329	3598	3714	3817	2941	4561
Cerro Gordo	5818	15405	8841	8717	5341	11905	12330	9909	9677	12444
Cherokee	1289	5692	2958	2697	1992	3888	4137	2984	3003	4131
Chickasaw	1323	5094	2725	2464	1671	3568	3692	2993	2580	4692
Clarke	1179	2875	2262	1212	1044	2254	2669	1584	1913	2329
Clay	1772	5034	3160	2778	1943	3957	4668	3287	3697	4481
Clayton	1659	5944	3218	3914	1742	4749	3943	4294	3834	5132
Clinton	6760	14203	8586	9398	5195	11181	13352	11420	11422	12796
Crawford	1240	4800	2807	2733	1679	3652	4429	3221	2490	4901
Dallas	4006	10209	6754	3967	3953	5665	8115	4558	6522	6084
Davis	1225	2586	1942	1118	1142	1711	2394	1622	1784	2035
Decatur	1051	2694	1909	1024	939	2198	2697	1473	2179	2287
Delaware	1420	5888	2474	3966	1314	3609	3850	3855	2905	4613
Des Moines	7387	10261	9125	6149	5560	7161	12255	8058	10251	9286
Dickinson	1593	5477	2779	2969	1770	3939	3661	3196	2997	3864
Dubuque	12713	28334	13939	17964	10755	15457	23615	16064	20877	19172
Emmet	1399	3567	1914	1977	1241	2412	2923	2515	2431	2863
Fayette	2455	7063	4112	4861	2390	5533	5604	5326	4642	6702
Floyd	1684	5542	3108	2928	1987	4014	4422	3987	3590	5246
Franklin	896	3886	2165	2094	1001	3174	2765	2569	1654	3888
Fremont	954	2777	1386	1859	780	2135	1906	2090	1224	2611
Greene	1266	3830	2744	1706	1391	2939	3673	2020	2535	3070
Grundy	895	4708	1916	2803	986	3482	2366	3942	1592	5309
Guthrie	1316	3656	2496	1605	1374	2486	3240	2006	2228	3070
Hamilton	1912	5805	3420	2648	1722	3887	4190	3385	2814	5218
Hancock	921	4762	2706	1918	1169	3361	2736	3019	1879	4044
Hardin	2182	6856	4328	3364	2371	5270	5290	4220	3626	5822
Harrison	1703	4371	2100	2437	1448	3424	3553	3170	2255	4478
Henry	2111	6390	3360	3040	1685	4096	3924	3740	3515	4598
Howard	985	3727	1850	2117	1179	3047	2479	2504	1778	3742
Humboldt	986	4191	2210	2142	1056	3154	2968	2631	2198	3469
Ida	593	2840	1587	1524	875	2298	2085	1942	1365	2765
Iowa	1298	5769	2918	2758	1208	3789	3317	3669	2775	4476
Jackson	2152	6041	3309	3982	1831	4404	4971	3898	3806	4515
Jasper	5345	12115	8386	5288	4532	7762	9264	7083	7902	8496

Table 2. Votes for Selected Candidates for U.S. Senator in Iowa Counties, 1980-1992 (continued).

County	1992		1990		1986		1984		1980	
	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep
Jefferson	1464	4404	2962	2682	1247	2964	3726	3515	2743	4200
Johnson	19494	29663	22027	10420	10353	15815	30549	13576	28412	13311
Jones	1855	6806	3300	3647	1790	4303	4390	4154	3899	4784
Keokuk	1130	3541	2436	1942	1312	2584	3092	2334	2378	3324
Kossuth	1806	6889	3251	4067	2214	4593	5363	4025	3784	5848
Lee	7812	9204	7697	5301	6414	6938	10038	7331	8990	8297
Linn	24077	61450	33212	30193	17413	33559	43720	35447	40460	35829
Louisa	1199	3483	2027	1733	836	2345	2266	2204	1769	2697
Lucas	1156	3253	2231	1336	1167	2353	2858	2039	2089	2668
Lyon	710	4195	1204	2846	758	2946	1634	3784	1487	4303
Madison	1675	4450	1893	3259	1795	2909	3889	2253	2838	3140
Mahaska	2059	6946	3499	4086	1680	5255	4993	5006	4259	5696
Marion	3567	9241	6015	4773	3382	5720	7475	5755	6106	6764
Marshall	5295	13087	8628	6174	5918	8250	10568	8603	7492	11560
Mills	1140	3811	1560	2282	780	2565	2066	3162	1295	3533
Mitchell	1094	4384	1945	2460	1246	3135	2640	2929	1816	3903
Monona	976	3329	1832	1544	1136	2571	2709	2057	1801	3098
Monroe	1075	2707	1988	1243	1168	1785	2636	1509	2013	1942
Montgomery	1124	4230	1528	2424	819	2933	2316	3350	1510	4087
Muscatine	4066	10128	5646	5565	2157	5890	7302	7509	6290	8110
O'Brien	1018	6177	2140	3424	1492	4120	3304	3962	2443	4794
Osceola	469	2596	989	1539	661	1899	1412	1837	1217	2034
Page	1227	5978	1799	3409	933	4161	2831	4707	1947	5423
Palo Alto	1058	3283	2128	1982	1594	2525	3343	2155	2650	2814
Plymouth	1570	6969	3106	4100	2168	5366	4667	4905	3243	6358
Pocahontas	878	3733	1866	1782	1053	2734	3022	1967	2313	3090
Polk	50318	110972	75892	43289	39305	59165	88793	55329	78300	59965
Pottawattamie	10278	21343	11486	11472	6262	13045	16161	16975	12150	18921
Poweshiek	2453	5552	4077	2707	2135	4384	4955	3654	4213	4615
Ringgold	609	2180	1581	942	694	1542	1991	1093	1217	1921
Sac	936	4338	1968	2088	1076	3023	3066	2480	2145	3627
Scott	20354	43640	24704	22023	13054	29125	37922	31381	31228	33653
Shelby	1183	3953	1939	2877	1107	3181	3198	3240	1940	4220
Sioux	1051	12253	2164	8568	1521	8546	3540	10065	2794	10691
Story	10869	22953	16068	9198	7740	15221	22615	14913	20191	15848
Tama	1841	6496	3642	2909	2273	4228	4838	3885	3182	5637
Taylor	704	2526	1708	1338	675	1857	2104	1812	1283	2620
Union	1436	3882	2908	1895	1602	3145	3722	2635	2389	3237
Van Buren	927	2316	1465	1440	915	2016	1882	1786	1364	2183
Wapello	6674	9679	8147	4013	5630	5593	11628	5669	9530	7242
Warren	5228	11537	8865	4822	4550	6944	10331	5871	7834	7200
Washington	1969	6368	3107	3037	1422	3780	3803	3741	3120	4192
Wayne	1001	2359	1901	961	925	2164	2486	1410	1604	2216
Webster	5045	11443	8165	5731	4859	7739	11850	7100	10128	9673
Winnebago	1063	3519	2160	2809	1271	3626	2782	3285	2311	3941
Winneshiek	2187	7381	3564	3710	1514	4410	4541	4244	3420	5478
Woodbury	10575	30415	15595	14486	9947	20226	23016	17632	18484	22093
Worth	890	3408	1660	1826	965	2472	2261	1881	1723	2472
Wright	1452	4773	2550	2328	1444	3160	3565	2990	2551	4426
State of Iowa	351561	899761	529571	453273	299406	588880	716883	564381	580545	683104

Table 3. Votes for Selected Candidates for U.S. Representative in Iowa Counties, 1980-1992.

County	1992		1990		1988		1986		1984		1982		1980	
	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep
Adair	2026	1366	1062	2590	1358	2548	1431	2126	1887	2591	2431	1577	2878	1695
Adams	921	1511	532	1382	664	1587	803	1438	1082	1832	1415	985	1783	1163
Allamakee	2238	4128	1947	3095	2001	3857	1545	3500	1615	4455	1589	3576	1875	4393
Appanoose	2775	2774	0	2379	1953	3469	1507	2703	2000	3953	2392	2749	3064	3285
Audubon	1868	1102	888	2130	1161	2037	1222	1587	2068	1965	2043	1470	2544	1643
Benton	5220	5531	4175	0	6371	3278	4321	2823	3896	6229	3574	5080	3176	6342
Black Hawk	33313	26690	23972	0	34851	20060	23548	19370	25291	36695	25906	30310	33043	28786
Boone	0	7349	5529	0	8055	2793	5858	2675	7288	4305	5866	3115	7851	3611
Bremer	5364	5888	3879	0	5457	4265	3683	4168	3389	7171	2988	6077	4492	6396
Buchanan	4273	5358	3450	3719	3591	4583	2918	4127	3134	6145	3045	4617	4479	4610
Buena Vista	0	7214	1798	5340	3125	5638	3453	3569	6278	2895	5394	1759	6386	3005
Butler	2910	4037	2050	0	2986	2976	1943	2953	1738	4993	1688	4260	2378	4612
Calhoun	0	4493	1177	2653	1985	3197	1765	2406	3332	2362	2473	1836	3990	1946
Carroll	0	7311	2007	4410	3715	4789	3304	3503	6343	3308	4773	2744	6178	2912
Cass	3396	3456	1339	4659	1954	4656	1633	3520	2510	4703	2867	3061	4045	3752
Cedar	1964	5964	3031	2918	2689	4734	1658	3303	2027	5661	2158	4232	2357	4999
Cerro Gordo	12070	11018	5375	12147	8690	13391	7890	9553	13839	8166	9969	7663	11973	10121
Cherokee	0	6154	1751	3953	2644	4154	3584	2463	5076	2248	4253	1415	5076	2231
Chickasaw	3847	2743	3888	0	3757	2024	2720	2490	2504	3967	2449	3445	3350	3177
Clarke	1778	2172	1189	2236	1254	2724	1367	1950	2254	1834	2412	1189	2874	1416
Clay	0	6194	1834	4162	3066	4708	3177	2979	5755	2350	4878	1725	5990	2502
Clayton	3615	5183	3204	3691	3387	4738	2198	4311	2205	6008	2613	4841	3281	5459
Clinton	7576	14166	9101	7634	10092	12477	5704	10838	8681	15998	7455	11356	8901	14823
Crawford	0	4650	1591	3398	2253	4444	2384	2916	4001	3527	3356	2281	4480	2886
Dallas	9298	4861	7841	0	8952	3453	6538	3103	7826	4903	6767	3841	8497	4019
Davis	1943	1835	0	1165	1323	1956	1133	1514	1442	2181	1579	1646	1956	1778
Decatur	1633	2026	948	1926	1149	2487	1334	1853	2204	1826	2463	1066	3151	1248
Delaware	2832	5488	2377	4099	2646	4656	1734	3250	2267	5551	1913	4011	2747	4705
Des Moines	11248	8165	0	8650	8238	10284	4696	7992	7737	12203	7076	7656	7110	12211
Dickinson	0	6151	1697	4028	2503	4426	3159	2928	5024	2112	4047	1547	5381	1959
Dubuque	20993	20971	15470	15952	17632	20582	11284	16026	17555	22779	13392	19072	16790	22834
Emmet	0	4255	1225	2560	1785	3011	2054	1705	3943	1623	2998	1207	4071	1414
Fayette	4515	5983	3916	4796	3712	6244	2794	5121	3384	7536	3316	6156	4262	6830
Floyd	4275	3303	4169	0	4709	2760	2925	2946	3347	4948	3289	3844	4622	4175
Franklin	0	3924	948	3084	1564	3223	1761	2332	2875	2130	2041	1964	2520	2901
Fremont	2153	1447	673	2582	819	2628	854	2285	1208	2874	1638	1431	1895	2044
Greene	0	4117	1469	2866	1931	2927	1949	2283	3175	2442	2949	1635	3656	1938
Grundy	2209	3723	1778	0	2568	2946	1706	2672	1111	5282	1171	4818	1650	5161
Guthrie	2554	1846	1309	2443	1920	2737	1671	2075	2708	2501	2727	1496	3362	1916
Hamilton	0	6106	3021	0	4554	2249	3323	1919	4060	3256	3455	2459	3659	4103
Hancock	0	4985	948	3696	1753	3693	2064	2438	3082	2587	2379	2052	2498	3286
Hardin	0	7452	2138	5488	2912	5514	3303	4110	5211	3433	3803	3214	4252	4575
Harrison	3339	2490	1267	3131	1610	4039	1782	3179	2932	3645	2956	2471	3779	3013
Henry	4002	4325	0	5235	2142	5485	1695	4091	1893	5091	1912	4352	2263	5287
Howard	2538	2320	2951	0	2888	1579	2085	2129	1765	3256	1705	2724	2434	2748
Humboldt	0	4568	911	3214	1570	3600	1845	2297	3552	1905	2793	1454	3509	2079
Ida	0	3203	817	2252	1282	2453	1769	1517	2675	1409	1980	1166	2591	1651
Iowa	3120	4095	2723	0	3792	2572	2301	2435	2284	4532	2215	3728	2265	4655
Jackson	4204	4169	3968	2960	4075	3936	3021	3482	3513	5369	2604	4557	2904	5240
Jasper	8331	8576	10124	0	11432	4456	8374	3940	9800	6438	8693	4807	8279	8176

Table 3. Votes for Selected Candidates for U.S. Representative in Iowa Counties, 1980-1992 (continued).

County	1992		1990		1988		1986		1984		1982		1980	
	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep	Dem	Rep
Jefferson	2616	3236	0	4618	1867	5171	1212	2955	1689	5520	1535	3662	1847	5105
Johnson	16479	32332	24682	0	29795	14361	17184	9024	22002	22662	19221	13380	18061	21902
Jones	2464	5947	3542	3166	3548	4527	2603	3576	3059	5616	2905	4471	3525	4923
Keokuk	2312	2540	0	2185	1757	3155	1306	2346	1609	3476	1552	2665	2952	2604
Kossuth	0	7523	1694	5275	3188	5561	4361	2621	6535	2790	5125	2103	6832	2881
Lee	10201	6600	0	6430	8069	8278	6040	7257	6783	9738	6333	6287	7173	9834
Linn	29122	55215	31002	30620	33065	43209	20444	31174	29895	51775	28549	32589	37651	37647
Louisa	1250	3535	0	3104	1313	2989	803	2372	1073	3345	1180	2393	1181	3201
Lucas	2056	2207	0	2117	1488	2151	1173	2163	1416	2831	1697	2166	2412	2353
Lyon	0	4520	825	3149	1158	3961	1669	2116	2275	3182	1584	2139	2810	2889
Madison	3868	2247	1666	2915	2346	3241	2047	2419	3420	2658	3566	1757	4227	1980
Mahaska	3533	5778	0	4190	2584	5864	1669	4646	2661	6585	2939	4606	4664	5251
Marion	5420	7232	3582	6138	5069	7160	3910	4975	7251	5647	5795	3547	6461	6259
Marshall	9084	8576	10806	0	10688	6096	7550	6139	6908	11533	7091	8602	9088	9481
Mills	2594	2096	799	2981	1129	3934	934	2573	1441	3845	1672	1956	1992	2959
Mitchell	2661	2827	2106	0	3028	1921	1810	2360	1646	3623	1791	2914	2354	3325
Monona	0	3394	1177	2128	1642	2711	2045	1866	3267	1579	2728	1171	3143	1902
Monroe	1736	1848	0	1506	1641	1536	1152	1655	1504	2095	1499	1720	2023	1934
Montgomery	2526	2700	779	3125	1098	3853	983	2873	1457	4305	1834	2274	2457	3398
Muscatine	3843	11188	0	7490	4835	8549	2018	5903	3842	10669	3300	6919	4483	9713
O'Brien	0	6362	1378	4206	2089	4870	2924	2870	4191	3135	3311	2135	4477	3032
Osceola	0	2679	1300	1323	905	2296	1368	1326	1932	1449	1541	1223	2118	1271
Page	1841	5518	897	4247	1145	5754	968	4313	1749	5925	2175	3048	3019	4505
Palo Alto	0	3332	1360	2655	2264	3043	2515	1731	4064	1523	3684	1005	4262	1417
Plymouth	0	7989	2016	5175	3274	6116	4645	3306	5942	3853	4611	2548	6284	3758
Pocahontas	0	4090	945	2616	1838	2745	2031	1929	3617	1274	2823	1063	3865	1546
Polk	106735	53478	87242	0	102974	39339	68868	29887	88305	53651	76431	37053	76506	61662
Pottawattamie	15355	14736	7070	14849	11301	19535	8418	11684	14272	18623	12053	10521	15973	15909
Poweshiek	3846	4265	3725	0	5476	2709	3552	2691	3178	5150	3326	3956	2999	5356
Ringgold	1027	1717	660	1751	705	1730	921	1376	1524	1523	1675	1022	1890	1105
Sac	0	4706	977	2807	1577	3127	1386	2587	2576	2837	2283	2040	3864	2060
Scott	18902	49695	0	30556	23441	39982	11284	30903	20877	47578	18258	31558	18810	42407
Shelby	2898	2220	1096	3432	1745	3851	1607	2725	2731	3665	2662	2412	3473	2788
Sioux	0	12370	1300	9311	2332	10697	3655	6674	4510	9418	4143	5043	5998	7620
Story	17362	15460	14055	0	21098	9766	14310	8117	19643	16164	17637	9259	23858	11603
Tama	4603	3887	3826	0	5254	2550	3839	2588	3127	5550	2897	4482	3860	4716
Taylor	1155	2199	741	2282	749	2495	867	1859	1291	2729	1703	1471	2175	1702
Union	2356	3303	1561	3010	1997	3732	2192	2569	3371	2930	3228	1887	3723	2038
Van Buren	1537	1803	0	1914	1096	2210	1362	1629	908	2582	940	1925	1054	2437
Wapello	8819	7157	0	4670	7507	6695	5564	5033	8066	7822	7862	5405	9579	7033
Warren	8470	9045	5871	6697	7152	8165	5422	5886	9589	6557	8746	3685	4790	10074
Washington	3416	4322	0	3833	2026	4972	1371	3645	1793	5513	1680	3856	2180	4899
Wayne	1535	1741	907	1863	1174	1975	1285	1777	2108	1686	2178	1187	2541	1325
Webster	0	10916	4965	7475	7639	8409	6113	6288	12951	6292	8800	5153	13726	5559
Winnebago	0	3829	1144	3742	1828	3663	2205	2726	3193	2427	2644	2222	3059	2980
Winneshiek	4529	5429	3517	0	4955	3404	2652	3123	2942	5613	2612	4454	2838	5778
Woodbury	0	32313	10148	19415	16091	22686	15314	16275	27239	13980	22250	8516	26548	15278
Worth	2241	1765	2700	0	2629	1181	1685	1475	1446	2533	1658	1998	2099	1971
Wright	0	4793	1334	3414	2111	3699	2016	2530	3631	2714	2711	2153	2979	3725
State of Iowa	492733	729496	400852	385003	580200	606647	428022	461428	595265	673343	528266	475338	630430	620806

Table 4. Votes for Selected Candidates for Governor in Iowa Counties, 1982-1990.

County	1990		1986		1982	
	Democrat	Republican	Democrat	Republican	Democrat	Republican
Adair	1256	2463	1476	2106	1706	2351
Adams	632	1312	821	1417	1062	1343
Allamakee	1631	3567	2196	2945	1652	3528
Appanoose	1880	2753	2229	2402	2772	2702
Audubon	1150	2157	1348	1548	1536	2146
Benton	3053	5061	4403	2999	3757	5031
Black Hawk	17018	25640	23150	19975	25776	29915
Boone	4187	5270	4618	4395	5043	4454
Bremer	2690	5593	3756	4296	3026	6178
Buchanan	2575	3929	3671	3313	3187	4361
Buena Vista	2385	4835	3143	3968	3361	4026
Butler	1397	3712	2011	3072	1791	4182
Calhoun	1473	2775	1977	2533	2068	2740
Carroll	2651	4584	3563	3597	3524	4358
Cass	1648	4265	1747	3556	2271	3906
Cedar	2103	3917	2290	2633	2567	4083
Cerro Gordo	7224	10434	8131	9447	9090	9690
Cherokee	2076	3628	2918	3170	2727	3182
Chickasaw	1933	3227	2601	2761	2371	3556
Clarke	1465	1966	1560	1764	1754	1863
Clay	2249	3807	2978	3210	2969	3864
Clayton	2312	4815	3036	3562	2676	4832
Clinton	7100	10960	7750	9296	8503	10807
Crawford	2193	3250	2766	2892	2704	3561
Dallas	4281	5423	5151	4523	6251	4852
Davis	1509	1608	1578	1338	1736	1706
Decatur	1109	1783	1517	1692	1731	1787
Delaware	1840	4684	2194	2850	2231	4013
Des Moines	6699	8595	7082	6025	8256	6888
Dickinson	2011	3758	2942	3230	2343	3431
Dubuque	12972	18541	15280	12099	15887	16238
Emmet	1460	2446	1766	2030	1906	2517
Fayette	3762	5331	3819	4253	3653	5912
Floyd	2339	3670	2828	3268	3239	3992
Franklin	1359	2884	1759	2478	1836	2756
Fremont	972	2215	1066	2072	1396	1743
Greene	1615	2797	2114	2317	2283	2413
Grundy	1205	3573	1653	2812	1554	4400
Guthrie	1631	2451	1840	2044	2071	2347
Hamilton	2474	3684	2719	3030	2903	3666
Hancock	1371	3199	1814	2800	1948	2778
Hardin	2819	4809	3562	4284	3608	4498
Harrison	1424	3075	1919	3123	2373	2988
Henry	2110	4243	2608	3266	2839	3487
Howard	1302	2547	1871	2385	1596	2814
Humboldt	1472	2912	1816	2470	2045	2812
Ida	1050	2095	1438	1856	1173	2192
Iowa	1778	4078	2258	2819	2316	3755
Jackson	2576	4669	3181	3394	2928	4408
Jasper	6078	7403	6189	6111	7238	6578

Table 4. Votes for Selected Candidates for Governor in Iowa Counties, 1982-1990 (continued).

County	1990		1986		1982	
	Democrat	Republican	Democrat	Republican	Democrat	Republican
Jefferson	1928	3728	1726	2547	2151	3109
Johnson	16196	15687	15503	10700	19304	13263
Jones	2505	4331	3150	3017	2935	4414
Keokuk	1590	2816	1964	1994	2147	2540
Kossuth	2249	5110	2807	4290	2663	5119
Lee	7011	6066	8884	5140	7002	5762
Linn	24278	35597	27869	24313	29140	31828
Louisa	1337	2367	1334	1877	1536	2062
Lucas	1453	2149	1630	1939	1824	2225
Lyon	891	3130	1138	2683	897	2897
Madison	2085	3101	2453	2509	2698	2691
Mahaska	2280	5404	2751	4350	3756	4593
Marion	4187	6617	4460	4901	4755	5387
Marshall	6560	8154	7866	6412	7507	8420
Mills	1153	2760	1145	2383	1501	2233
Mitchell	1478	2969	1731	2706	1782	3002
Monona	1287	2086	1713	2186	1769	2220
Monroe	1401	1861	1546	1475	1762	1669
Montgomery	1009	2970	1230	2661	1518	2727
Muscatine	3919	7323	3475	4743	4412	6131
O'Brien	1421	4090	2232	3555	1843	3732
Osceola	713	1835	984	1706	860	1920
Page	1115	4142	1302	3966	1787	3556
Palo Alto	1558	2560	2186	2117	2337	2556
Plymouth	2160	5087	3056	4866	2541	4780
Pocahontas	1195	2522	1881	2241	1861	2381
Polk	52004	61780	52227	46550	67310	48871
Pottawattamie	8254	14886	7687	12665	10605	12363
Poweshiek	2926	3980	3070	3530	3563	3905
Ringgold	858	1617	1042	1307	1238	1548
Sac	1356	2725	1819	2444	2003	2823
Scott	16905	29834	19333	24216	23718	26850
Shelby	1245	3543	1619	2788	1794	3354
Sioux	1381	9316	2352	7955	1962	7284
Story	10945	14167	12127	11267	14447	13639
Tama	2548	4095	3246	3290	3081	4406
Taylor	1027	1915	1004	1738	1310	1952
Union	1950	2891	2355	2523	2370	2868
Van Buren	1264	1688	1449	1559	1428	1511
Wapello	6668	5446	7371	4229	8541	5611
Warren	6018	7581	6143	5542	7045	5807
Washington	2023	4177	2292	3092	2506	3589
Wayne	1135	1821	1400	1743	1585	1834
Webster	6011	7845	6589	6613	7806	7807
Winnebago	1549	3497	1768	3263	1908	3632
Winneshiek	2334	4965	2452	3581	2379	4779
Woodbury	11274	18104	13957	17550	15249	15959
Worth	1454	1990	1540	1932	1616	2087
Wright	1785	3134	2026	2652	2306	2986
State of Iowa	379372	591852	436987	472712	483291	548312

Table 5. Percentage of Residents 18 or Older Voting for U.S. Senator (1980, 1990, 1992), U.S. President (1980, 1988, 1992), and Iowa Governor (1982, 1990) in Iowa Counties.

County	U.S. President			U.S. Senator			Iowa Governor	
	1992*	1988*	1980	1992*	1990	1980	1990	1982*
Adair	66.4	58.8	66.5	57.4	58.8	65.0	59.1	58.3
Adams	70.1	56.0	69.5	64.4	53.1	65.9	52.9	57.0
Allamakee	64.8	56.7	62.1	56.0	52.1	60.6	51.6	49.4
Appanoose	61.4	53.3	59.3	52.1	44.3	56.6	45.0	48.7
Audubon	70.5	53.9	69.7	58.4	60.9	66.5	60.6	59.4
Benton	64.1	59.7	63.4	64.7	49.7	62.5	50.1	53.1
Black Hawk	66.2	56.4	63.6	59.7	46.3	63.1	46.2	56.3
Boone	63.8	59.8	61.5	61.0	50.0	59.1	49.7	48.9
Bremer	68.0	57.2	63.8	65.0	47.6	63.4	48.6	52.4
Buchanan	66.6	54.2	61.1	65.2	50.5	59.1	45.1	49.4
Buena Vista	62.2	57.0	61.9	54.1	48.3	59.8	48.8	48.1
Butler	61.2	48.9	56.8	58.8	43.8	56.7	44.1	47.7
Calhoun	61.0	54.8	62.1	60.6	48.9	61.0	49.3	48.3
Carroll	62.6	58.6	61.8	61.6	48.0	58.3	48.0	50.5
Cass	62.4	55.6	64.8	62.8	53.7	60.9	52.6	49.8
Cedar	64.4	56.2	58.3	62.0	47.7	56.9	47.2	50.4
Cerro Gordo	68.7	61.8	62.8	60.4	49.9	61.5	50.2	52.2
Cherokee	66.8	58.1	63.3	68.0	55.1	61.0	55.5	50.5
Chickasaw	69.1	57.6	69.8	67.1	54.3	69.0	54.0	56.2
Clarke	69.2	62.4	69.5	66.3	56.8	68.0	56.1	57.9
Clay	65.1	55.8	61.8	53.3	46.5	58.4	47.4	48.8
Clayton	66.2	54.9	61.1	55.4	51.9	60.4	51.9	50.5
Clinton	66.4	56.8	62.0	56.0	48.1	60.4	48.3	48.2
Crawford	62.5	55.2	60.1	49.7	45.6	56.3	44.8	47.7
Dallas	69.0	59.7	61.8	66.2	49.9	60.9	45.2	53.6
Davis	66.5	58.7	60.0	63.0	50.6	58.9	51.5	53.1
Decatur	62.0	48.5	61.7	58.5	45.8	60.2	45.2	47.4
Delaware	67.5	58.8	61.6	58.5	51.5	60.0	52.2	49.8
Des Moines	66.6	58.1	60.9	55.7	48.2	59.0	48.3	45.7
Dickinson	72.6	61.3	64.0	62.0	50.4	59.9	50.6	50.4
Dubuque	67.9	60.1	64.3	65.2	50.6	62.8	50.0	50.4
Emmet	58.8	52.2	59.7	58.5	45.8	55.8	46.0	46.7
Fayette	67.1	56.7	63.2	59.3	55.9	62.9	56.6	53.1
Floyd	61.0	55.2	65.2	57.2	47.8	63.8	47.6	52.2
Franklin	62.0	51.5	58.9	56.7	50.5	58.1	50.3	48.2
Fremont	63.9	51.1	59.7	61.4	53.4	56.1	52.4	45.9
Greene	70.5	57.9	66.7	67.4	58.9	63.6	58.4	53.3
Grundy	68.4	55.0	67.7	62.6	52.7	67.2	53.4	58.0
Guthrie	65.9	56.0	62.2	60.5	49.9	60.3	49.7	50.3
Hamilton	63.7	57.4	63.1	64.4	50.6	62.0	51.4	50.7
Hancock	63.6	56.9	62.0	62.6	50.9	60.6	50.3	48.3
Hardin	62.4	56.2	61.7	63.1	53.7	59.4	53.3	51.0
Harrison	63.2	51.7	60.1	56.4	42.1	58.1	41.8	46.3
Henry	59.1	56.0	60.8	59.1	44.5	58.9	44.2	46.0
Howard	67.0	54.2	69.7	65.6	55.3	69.6	53.6	55.6
Humboldt	64.3	59.8	65.4	64.6	54.3	63.8	54.7	54.7
Ida	70.0	57.7	66.5	56.9	51.6	63.7	52.1	51.9
Iowa	63.6	58.9	66.5	64.9	52.1	64.9	53.8	54.3
Jackson	63.9	53.2	56.6	57.0	50.7	54.6	50.4	48.1
Jasper	69.4	59.8	64.1	67.5	52.8	62.7	52.1	52.8

*Population age 18 and over for 1990 used for 1988, 1990, and 1992 calculations; age 18 and over for 1980 used for 1980 and 1982 calculations.

Table 5. Percentage of Residents 18 or Older Voting for U.S. Senator (1980, 1990, 1992), U.S. President (1980, 1988, 1992), and Iowa Governor (1982, 1990) in Iowa Counties (continued).

County	U.S. President			U.S. Senator			Iowa Governor	
	1992*	1988*	1980	1992*	1990	1980	1990	1982*
Jefferson	51.5	58.8	58.6	47.6	45.8	56.7	45.9	42.9
Johnson	66.8	69.3	65.7	64.0	42.3	65.4	41.5	51.1
Jones	61.5	56.5	61.0	59.9	48.1	60.3	47.3	51.0
Keokuk	64.5	55.0	62.7	54.3	50.9	60.6	51.2	49.8
Kossuth	67.5	59.2	66.6	65.0	54.7	63.2	55.0	51.1
Lee	59.4	55.3	58.3	59.3	45.3	55.8	45.5	41.2
Linn	70.0	63.2	63.9	67.7	50.2	63.4	47.4	50.6
Louisa	57.2	51.9	54.2	55.5	44.6	53.6	43.9	43.2
Lucas	68.1	56.0	64.5	64.5	52.2	63.0	52.7	53.6
Lyon	68.0	58.8	69.3	58.8	48.6	65.2	48.2	42.7
Madison	67.6	65.4	70.9	67.8	57.0	67.0	57.4	60.4
Mahaska	64.0	54.9	60.7	56.6	47.7	59.1	48.3	49.6
Marion	60.4	59.8	62.3	57.4	48.3	59.9	48.4	47.2
Marshall	63.4	58.2	64.7	64.1	51.6	63.7	51.3	53.2
Mills	64.1	56.2	54.1	51.7	40.1	51.2	40.9	39.6
Mitchell	65.7	59.3	66.1	67.8	54.5	65.2	55.0	54.5
Monona	63.7	51.9	60.3	56.8	44.6	56.8	44.5	46.2
Monroe	62.2	54.3	60.8	62.5	53.4	58.8	53.9	51.0
Montgomery	58.7	50.9	60.1	58.8	43.4	56.3	43.7	42.7
Muscatine	58.3	49.9	53.5	49.3	39.0	51.5	39.1	37.7
O'Brien	66.7	57.0	62.4	63.6	49.2	58.8	48.7	45.3
Osceola	67.3	54.1	58.1	58.0	47.8	54.5	48.2	46.6
Page	57.6	48.0	54.9	56.9	41.2	52.2	41.5	37.9
Palo Alto	68.4	59.7	65.0	55.5	52.6	60.2	52.7	53.9
Plymouth	62.7	55.3	59.3	51.5	43.4	55.7	43.7	42.4
Pocahontas	65.3	55.9	67.5	65.4	51.8	65.8	52.7	51.6
Polk	67.9	64.8	64.6	65.8	48.6	62.9	46.4	52.9
Pottawattamie	61.5	53.4	54.5	52.6	38.2	51.6	38.5	38.1
Poweshiek	62.5	60.2	62.9	55.7	47.2	62.0	48.1	52.5
Ringgold	69.4	59.1	70.2	67.7	61.2	68.2	60.0	60.5
Sac	57.4	48.8	59.9	58.3	44.8	56.0	45.1	46.9
Scott	68.0	59.1	60.4	58.8	43.0	58.6	43.0	45.7
Shelby	67.6	55.7	61.3	53.3	49.9	58.9	49.6	49.2
Sioux	69.8	61.9	66.1	63.5	51.2	63.3	51.0	43.4
Story	60.6	57.3	63.9	56.8	42.4	62.9	42.2	49.1
Tama	64.2	57.3	61.2	64.8	50.9	63.6	51.6	54.0
Taylor	66.9	53.5	67.4	61.0	57.6	62.9	55.6	52.6
Union	64.2	59.6	58.9	56.2	50.8	56.0	51.2	52.1
Van Buren	65.2	53.4	58.7	57.3	51.3	57.3	52.1	47.5
Wapello	59.1	52.3	58.8	60.3	44.8	56.5	44.7	47.7
Warren	73.8	68.4	65.3	64.9	53.0	64.0	52.6	54.7
Washington	62.4	52.4	52.6	58.1	42.8	50.9	43.2	42.5
Wayne	66.0	55.5	65.3	62.1	52.9	61.4	54.6	54.9
Webster	63.0	51.7	62.7	55.2	46.5	59.6	46.4	47.0
Winnebago	67.1	59.3	67.4	50.7	55.0	65.5	55.9	58.0
Winneshiek	60.7	54.4	57.8	60.9	46.3	56.1	46.4	45.1
Woodbury	60.4	54.3	59.5	58.0	42.5	56.6	41.6	43.5
Worth	73.8	58.8	63.9	71.5	58.0	62.8	57.3	55.4
Wright	61.5	50.1	59.0	57.7	45.2	58.2	45.6	44.1
State of Iowa	65.3	59.1	62.3	60.8	47.8	60.5	47.2	49.4

winner also had the greatest number of votes in 62 counties; this Democratic candidate received 60% or more of the votes in 19 counties. In 1986, the Republican candidate carried all but one county (Wapello, 49.8%); at least 75% of the votes went to this candidate in 11 counties.

Representative

The influence of the presidential election on voting participation is confirmed when total votes for the races for seats in the U.S. House of Representatives are reviewed. Voting drops by 200,000 to 400,000 in the election two years after a presidential race is on the ballot (Table 3). The decline between 1988 and 1990 was the greatest in the period examined; some of this decrease was caused by the fact that Democrats failed to field a candidate for U.S. representative in 16 counties while Republicans had no one running in 22 counties. In 1992, the Democrats did not have a candidate on the ballot for one of the seats available; this district includes 30 counties.

When the votes were totaled across the state, Republicans received more votes in 1984, 1986, 1988, and 1992, 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 more than 236,000 more votes than did Democrats.

Governor

Contests for governor occur in between the years when the presidential election takes place. The number voting in 1982, 1986, and 1990 varied from about 900,000 to slightly more than 1 million (Table 4). The Republican candidate won each of these elections for governor. The closest race was in 1986, when the Republican received 52.0% of the vote; in 1990, the Republican had 60.9% of the votes for the two candidates for the major political parties.

In the 1990 election, the Republican party's candidate for governor won a majority of the votes in all but three counties (Johnson, Lee, Wapello). The Republican received more than two-thirds of the votes in 32 of Iowa's 99 counties; in three (Lyon, Page, Sioux), at least three of every four voters selected the Republican. A total of 77 counties gave a majority of their votes to the Republican candidate in each of these three elections; only three counties (Johnson, Lee, Wapello) favored the Democrat each time.

Proportion Voting

The 1980 and 1990 races for U.S. senator were the only statewide contests conducted in the same years of the two most recent decennial censuses. In 1980, about 60.5% of those living in Iowa who were 18 years of age or older voted for either of the senatorial candidates of the two major political parties (Table 5). Ten years later, 47.8% of those eligible on age alone voted for senator. Caution is urged in comparing these figures, because the presidential race in 1980 drew more voters to the polling places.

The percentage (60.8%) of those 18 and older estimated to have voted for U.S. senator in 1992 is almost identical to that reported for 1980. In 1992, at least half of those estimated to be 18 and older voted for the two major-party candidates in the senate race in 96 of Iowa's 99 counties, led by figures over 66.7% (two-thirds) in Cherokee, Chickasaw, Greene, Jasper, Linn, Madison, Mitchell, Ringgold, and Worth. Crawford, Jefferson, and Muscatine were the only counties with voting below 50% of those 18 and older, although the percentage for Jefferson would have been well above that point if votes for a third-party candidate had been included in these calculations.

When figures for the three presidential races closest to the census years (1980, 1988, 1992) are compared, the percentages vary less dramatically. In 1988 and 1992, 59.1% and 65.3%, respectively, of those 18 and older voted; these are based on census figures for age in 1990, so they are estimates at best. In 1980, 62.3% of those 18 and older voted. The range across counties in 1992 varied from less than 60% in 10 to at least 70% in eight others (Figure 2). The gubernatorial races (1982, 1990) closest to the census years also produced relatively similar results. In 1982, about 49.4% of those eligible by age

alone voted; this is an estimate based on those age 18 or older in 1980. In 1990, 47.2% of those 18 or older living in Iowa voted in the contest for governor. Percentages across the counties in 1990 ranged from less than 45% in eighteen to at least 55% in 13 others.

Note: Readers can review the biennial Iowa Official Register (numbers 59-64) for additional information on the elections for 1980 through 1990. The 1992 data are available from the office of Iowa's Secretary of State (State Capitol Building, Des Moines, IA 50319); they will be included in the next register. 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 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 offices with the votes that they received, here is that information: Table 1 (President): 1980, Democrat (Carter), Independent (Anderson), Republican (Reagan); 1984, Democrat (Mondale), Republican (Reagan); 1988, Democrat (Dukakis), Republican (Bush); 1992: Democrat (Clinton), Independent (Perot), Republican (Bush); Table 2 (U.S. Senator): 1980, Democrat (Culver), Republican (Grassley); 1984, Democrat (Harkin), Republican (Jepsen); 1986, Democrat (Roehrick), Republican (Grassley); 1990, Democrat (Harkin), Republican (Tauke); 1992, Democrat (Lloyd-Jones), Republican (Grassley); Table 3 (Governor): 1982, Democrat (Conlin), Republican (Branstad); 1986, Democrat (Junkins), Republican (Branstad); 1990, Democrat (Avenson), 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.

Figure 1. Votes for President, 1992.

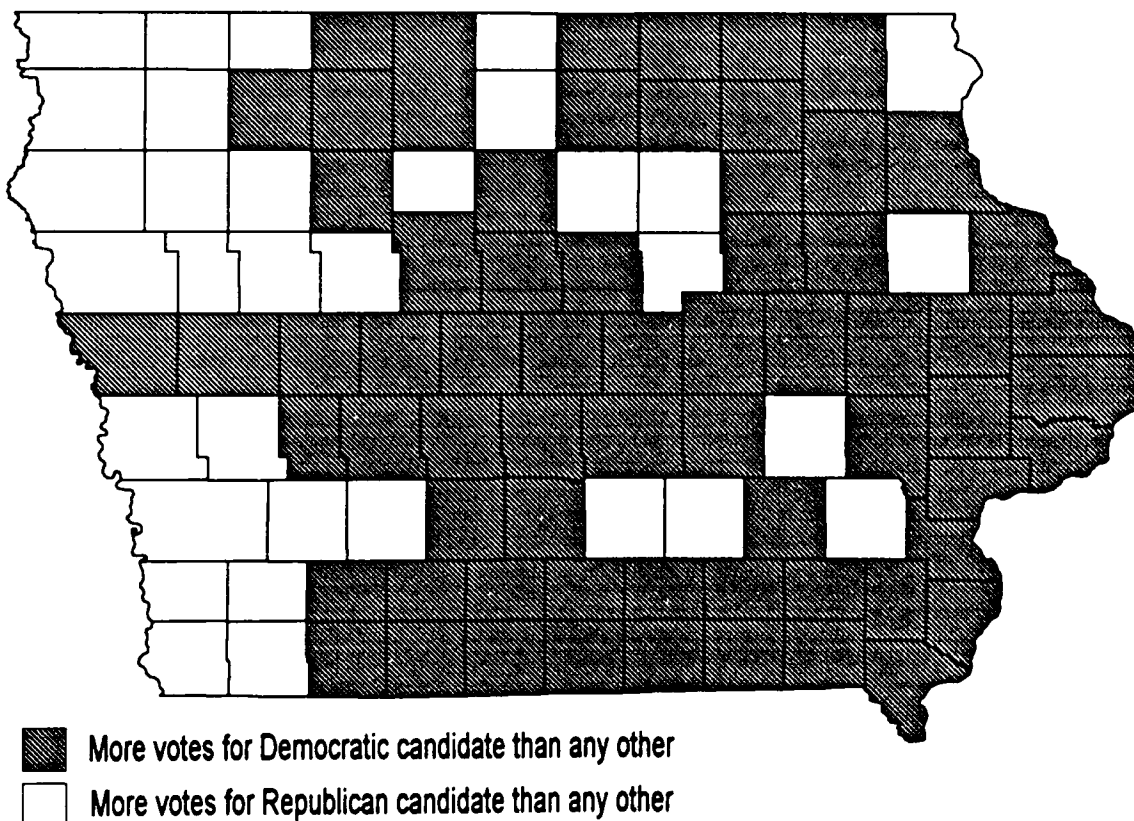
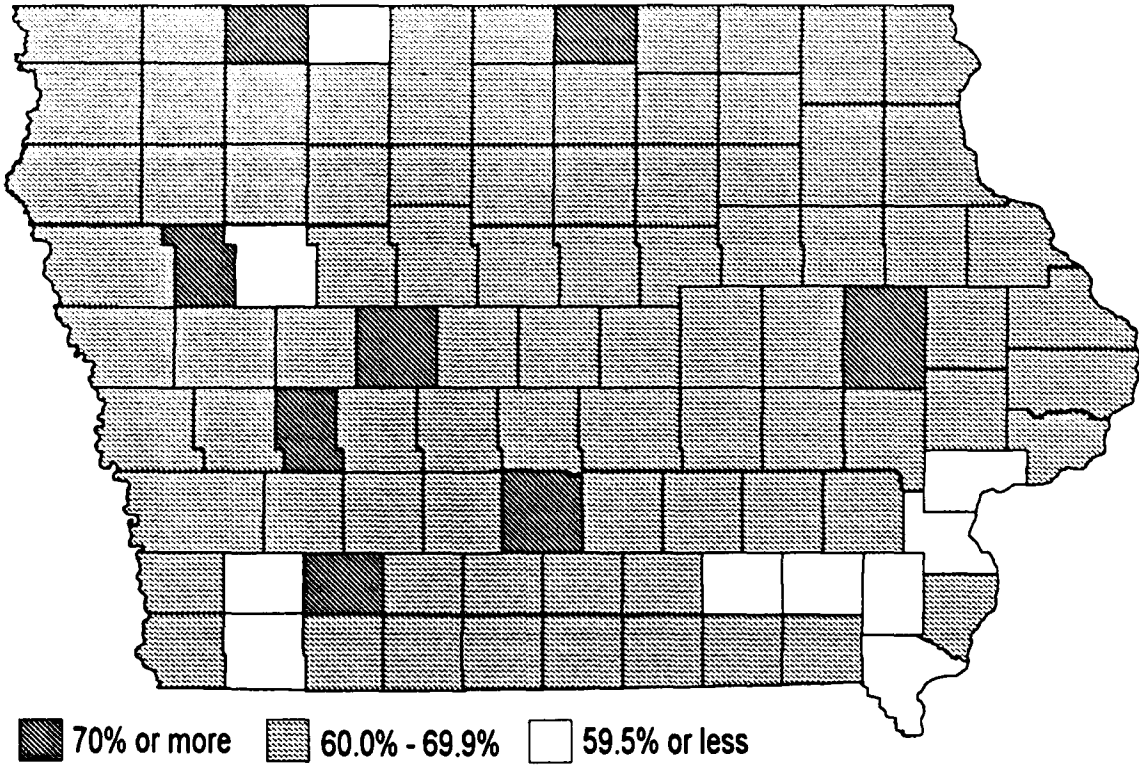


Figure 2. Percentage 18 or Older Who Voted for President, 1992.



Votes on an Equal Rights Amendment to the Constitution of the State of Iowa in Iowa's Counties: 1980 and 1992

Willis Goudy, Iowa State University

An amendment to the constitution of the State of Iowa in the area of equal rights for men and women was brought to a vote in 1980 and in 1992. The wording was the same both years: "All men and women are, by nature, free and equal, and have certain inalienable rights—among which are those of enjoying and defending life and liberty, acquiring, possessing, and protecting property, and pursuing and obtaining safety and happiness. Neither the State nor any of its political subdivisions shall, on the basis of gender, deny or restrict the equality of rights under the law." The second sentence in the proposed amendment was an addition to the language currently in the constitution (Article 1, Section 1), as were the words "and women" in the first sentence.

An amendment needs a simple majority of affirmative votes to pass. In 1980, 55.8% voted "no," while 52.0% voted "no" in 1992 (Table 1). Thus, the proposal failed both years. About 123,000 more voted against the amendment than for it in 1980. This difference narrowed to about 47,000 out of the more than 1.1 million votes cast on this issue in 1992.

Votes in Counties: 1980 and 1992

Eighty-one counties reported more votes against the amendment in 1992 than for it (Figure 1). At least 60% of the votes were cast against the amendment in 28 counties, with the percentage "no" exceeding 70% in three of these (Lyon, Osceola, Sioux). Only in Sioux was this percentage greater than 80. Four counties (Harrison, Johnson, Montgomery, Pottawattamie) had less than 40% voting against the equal rights amendment in 1992, although in none of these was the percentage below 30.

In 1980, 89 counties reported more "no" than "yes" votes. Forty-five counties had at least 60% of the votes cast against the amendment; again, Lyon, Osceola, and Sioux were the only counties in which at least 70% of the votes were in the "no" category. Only in Johnson did less than 40% vote against the amendment in 1980.

In only six counties (Harrison, Johnson, Pottawattamie, Scott, Story, Worth) were more votes tallied in favor of the amendment than against it both years. In contrast, 77 counties recorded majorities of votes against it in 1980 and again in 1992. Twelve (Adams, Cerro Gordo, Des Moines, Dickinson, Fremont, Jefferson, Lee, Linn, Mills, Montgomery, Taylor, Woodbury) moved from defeating the amendment in 1980 to passing it in 1992. And the remaining four (Clinton, Louisa, Muscatine, and Ringgold) passed it in 1980 but not in 1992.

Changes in Votes: 1980 to 1992

Sixty-three counties had greater percentages voting for the equal rights amendment in 1992 than in 1980 (Figure 3). Twelve (Cerro Gordo, Dickinson, Fremont, Ida, Iowa, Linn, Montgomery, Page, Plymouth, Pottawattamie, Taylor, Woodbury) had at least 10 more percentage points favoring the amendment in 1992 than in 1980; Montgomery (+21.2%) was the only county with a gain of affirmative votes exceeding 20 percentage points.

Among the 36 with lower percentages favoring the amendment in 1992 than in 1980, only five (Clayton, Clinton, Decatur, Monroe, Muscatine) had changes greater than five points, with the greatest

Table 1. Actual and Percentage Votes on the Equal Rights Amendment in Iowa Counties, 1980 and 1992.

County	Votes				Percentages			
	1992		1980		1992		1980	
	No	Yes	No	Yes	No	Yes	No	Yes
Adair	2448	1511	2925	1384	61.8	38.2	67.9	32.1
Adams	1229	1273	1525	1198	49.1	50.9	56.0	44.0
Allamakee	2625	1706	3528	1758	60.6	39.4	66.7	33.3
Appanoose	2404	1944	2944	2003	55.3	44.7	59.5	40.5
Audubon	1340	1037	1951	1226	56.4	43.6	61.4	38.6
Benton	5066	4776	5121	3264	51.5	48.5	61.1	38.9
Black Hawk	25146	24495	30542	23276	50.7	49.3	56.8	43.2
Boone	5997	3755	5930	4067	61.5	38.5	59.3	40.7
Bremer	4772	4056	5485	3279	54.1	45.9	62.6	37.4
Buchanan	5165	3749	5145	3574	57.9	42.1	59.0	41.0
Buena Vista	4542	2658	4789	2960	63.1	36.9	61.8	38.2
Butler	3777	1780	3771	1999	68.0	32.0	65.4	34.6
Calhoun	2951	1944	3025	1758	60.3	39.7	63.2	36.8
Carroll	5788	3134	4670	2751	64.9	35.1	62.9	37.1
Cass	3674	2916	2936	2808	55.8	44.2	51.1	48.9
Cedar	3859	3388	3289	2872	53.2	46.8	53.4	46.6
Cerro Gordo	8347	9610	11138	8195	46.5	53.5	57.6	42.4
Cherokee	3613	3087	3690	2174	53.9	46.1	62.9	37.1
Chickasaw	3648	2270	3963	2998	61.6	38.4	56.9	43.1
Clarke	2349	1543	2395	1694	60.4	39.6	58.6	41.4
Clay	3764	2670	4523	2695	58.5	41.5	62.7	37.3
Clayton	4179	2415	3845	2841	63.4	36.6	57.5	42.5
Clinton	10564	8850	8317	9884	54.4	45.6	45.7	54.3
Crawford	2628	2167	2802	2067	54.8	45.2	57.5	42.5
Dallas	7791	6057	5969	4814	56.3	43.7	55.4	44.6
Davis	2088	1556	2143	1373	57.3	42.7	60.9	39.1
Decatur	2240	1390	2304	1812	61.7	38.3	56.0	44.0
Delaware	3680	2304	3674	2530	61.5	38.5	59.2	40.8
Des Moines	7440	7703	7991	7535	49.1	50.9	51.5	48.5
Dickinson	2683	2739	3384	2207	49.5	50.5	60.5	39.5
Dubuque	20140	18350	18657	12384	52.3	47.7	60.1	39.9
Emmet	2423	2131	2720	1920	53.2	46.8	58.6	41.4
Fayette	4683	3479	5718	3741	57.4	42.6	60.5	39.5
Floyd	3432	3142	3838	2923	52.2	47.8	56.8	43.2
Franklin	2235	1511	2644	1986	59.7	40.3	57.1	42.9
Fremont	1568	1820	1808	1099	46.3	53.7	62.2	37.8
Greene	2767	2063	3149	1582	57.3	42.7	66.6	33.4
Grundy	3050	1645	3593	1981	65.0	35.0	64.5	35.5
Guthrie	2636	1511	3241	2007	63.6	36.4	61.8	38.2
Hamilton	4272	3090	4511	2703	58.0	42.0	62.5	37.5
Hancock	3320	1904	3198	1833	63.6	36.4	63.6	36.4
Hardin	5072	3262	4482	3160	60.9	39.1	58.6	41.4
Harrison	2054	3921	2599	3663	34.4	65.6	41.5	58.5
Henry	4099	3937	4113	3968	51.0	49.0	50.9	49.1
Howard	2443	1749	3251	2205	58.3	41.7	59.6	40.4
Humboldt	3432	1537	2772	1496	69.1	30.9	64.9	35.1
Ida	1577	1282	2451	1147	55.2	44.8	68.1	31.9
Iowa	3392	3184	3783	2250	51.6	48.4	62.7	37.3
Jackson	3015	2786	2795	2579	52.0	48.0	52.0	48.0
Jasper	9683	7090	7439	5668	57.7	42.3	56.8	43.2

Table 1. Actual and Percentage Votes on the Equal Rights Amendment in Iowa Counties, 1980 and 1992 (continued).

County	Votes				Percentages			
	1992		1980		1992		1980	
	No	Yes	No	Yes	No	Yes	No	Yes
Jefferson	3545	4058	3535	3304	46.6	53.4	51.7	48.3
Johnson	14963	33776	12136	25264	30.7	69.3	32.4	67.6
Jones	4638	3529	4853	3579	56.8	43.2	57.6	42.4
Keokuk	2375	1682	2721	1783	58.5	41.5	60.4	39.6
Kossuth	5002	3083	4689	2842	61.9	38.1	62.3	37.7
Lee	8000	8042	8480	5790	49.9	50.1	59.4	40.6
Linn	37041	47743	33650	28149	43.7	56.3	54.5	45.5
Louisa	2137	1789	2015	2029	54.4	45.6	49.8	50.2
Lucas	2387	1595	2620	1876	59.9	40.1	58.3	41.7
Lyon	2582	907	3456	989	74.0	26.0	77.8	22.2
Madison	3503	2391	3231	2655	59.4	40.6	54.9	45.1
Mahaska	5671	2784	5244	3053	67.1	32.9	63.2	36.8
Marion	8148	4346	6554	4247	65.2	34.8	60.7	39.3
Marshall	10264	7324	11017	7030	58.4	41.6	61.0	39.0
Mills	1841	2111	2063	1589	46.6	53.4	56.5	43.5
Mitchell	2725	2299	2577	1918	54.2	45.8	57.3	42.7
Monona	1683	1574	2271	1616	51.7	48.3	58.4	41.6
Monroe	2355	1298	2150	1616	64.5	35.5	57.1	42.9
Montgomery	1839	2829	2486	1614	39.4	60.6	60.6	39.4
Muscatine	7027	5776	5474	6565	54.9	45.1	45.5	54.5
O'Brien	4350	2219	4531	2058	66.2	33.8	68.8	31.2
Osceola	1980	644	1928	741	75.5	24.5	72.2	27.8
Page	3499	3150	4246	1940	52.6	47.4	68.6	31.4
Palo Alto	2135	1219	2568	1608	63.7	36.3	61.5	38.5
Plymouth	3789	3145	5367	2682	54.6	45.4	66.7	33.3
Pocahontas	2764	1597	2741	1533	63.4	36.6	64.1	35.9
Polk	80730	79275	57655	57222	50.5	49.5	50.2	49.8
Pottawattamie	9985	16429	11129	12173	37.8	62.2	47.8	52.2
Poweshiek	4242	3053	4056	3441	58.1	41.9	54.1	45.9
Ringgold	1294	1105	1451	1509	53.9	46.1	49.0	51.0
Sac	2804	2109	3130	1778	57.1	42.9	63.8	36.2
Scott	28278	33281	26418	28341	45.9	54.1	48.2	51.8
Shelby	2439	2273	2656	2239	51.8	48.2	54.3	45.7
Sioux	9682	1867	9713	2250	83.8	16.2	81.2	18.8
Story	16147	17782	15481	16938	47.6	52.4	47.8	52.2
Tama	4556	3118	4279	2456	59.4	40.6	63.5	36.5
Taylor	1556	1666	2168	1388	48.3	51.7	61.0	39.0
Union	2695	1915	2530	1934	58.5	41.5	56.7	43.3
Van Buren	1561	1524	1798	1649	50.6	49.4	52.2	47.8
Wapello	8304	6972	8130	6011	54.4	45.6	57.5	42.5
Warren	8397	5997	7559	5697	58.3	41.7	57.0	43.0
Washington	3653	2908	3401	2658	55.7	44.3	56.1	43.9
Wayne	2050	1187	2373	1416	63.3	36.7	62.6	37.4
Webster	7858	5766	10447	5814	57.7	42.3	64.2	35.8
Winnebago	2836	2528	3077	2590	52.9	47.1	54.3	45.7
Winneshiek	5183	4097	4028	3249	55.9	44.1	55.4	44.6
Woodbury	18384	19780	21675	12440	48.2	51.8	63.5	36.5
Worth	1646	2262	2016	2030	42.1	57.9	49.8	50.2
Wright	3226	2237	3676	2124	59.1	40.9	63.4	36.6
State of Iowa	604839	557918	591925	468708	52.0	48.0	55.8	44.2

decline occurring in Muscatine (-9.4%). In general, change tended to be modest, with 41 counties differing by less than three percentage points in either direction when the 1980 and 1992 results were compared (Figure 4).

Both the "yes" and "no" votes increased in 26 counties; in 15 of these counties the gain in the "no" votes outnumbered the gain in "yes" votes. The change was substantially larger in Linn than in other counties, where the increase in votes favoring the amendment outdistanced the gain in "no" votes by more than 16,200 between 1980 and 1992. The only others in which the increases of those "for" outpaced the increases of those "against" by at least 1,000 were Dubuque, Johnson, and Scott. In Marion and Polk, the gains in "no" votes were more than 1,000 greater than those for "yes" votes.

In another 26 counties, both "for" and "against" votes declined between the two elections. In 17 of these counties, the "no" votes dropped more than did the "yes" votes, although only in Webster did the decline in one category exceed that in the other by more than 1,000.

The greatest number of counties—34—had increases in "for" votes and decreases in "against" votes. The sum of the increase in "yes" votes and decrease in "no" votes was greater than 1,000 in 14 counties (Benton, Black Hawk, Bremer, Cerro Gordo, Dickinson, Ida, Iowa, Lee, Marshall, Montgomery, Page, Plymouth, Pottawattamie, Woodbury). The decline of nearly 3,300 "no" votes and the gain of more than 7,300 "yes" votes in Woodbury was the greatest change of this type.

The remaining 13 counties reported more "no" votes and fewer "yes" votes in 1992 than in 1980. The sum of the increase in the "against" votes and the decrease of the "for" votes exceeded 1,000 in Clinton and Muscatine counties.

Figure 1. Percentage voting against the ERA, 1992.

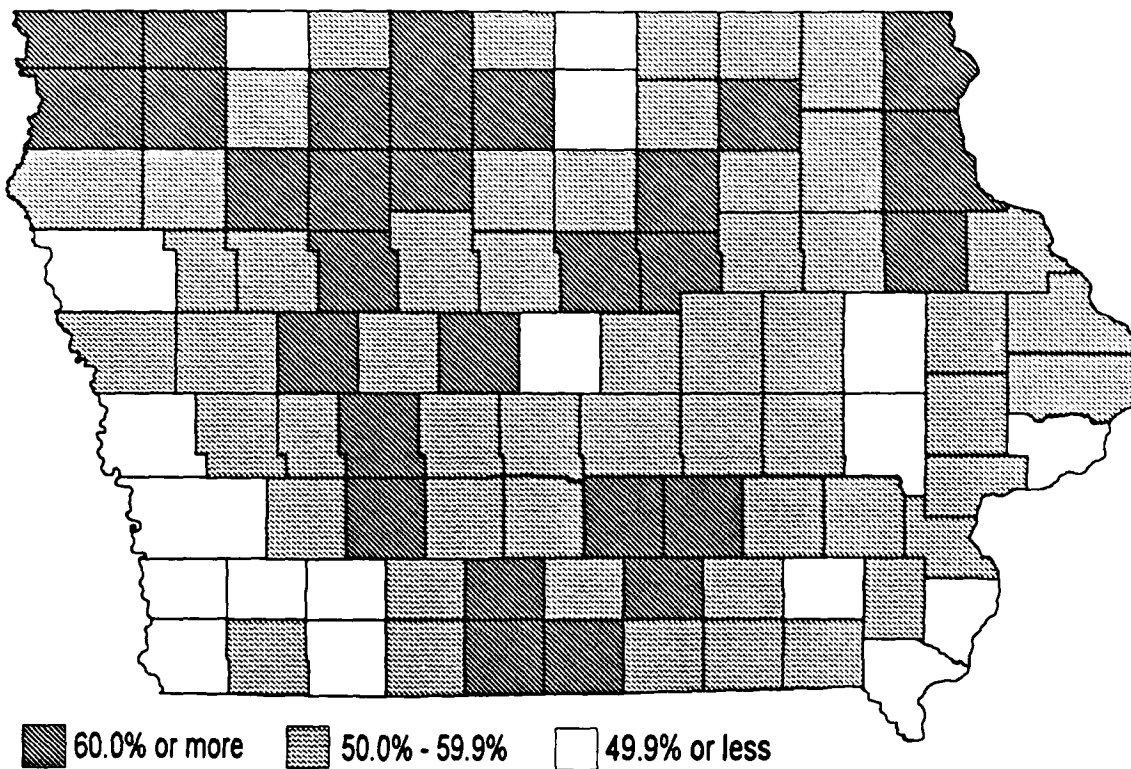


Figure 2. Percentage voting against the ERA, 1980.

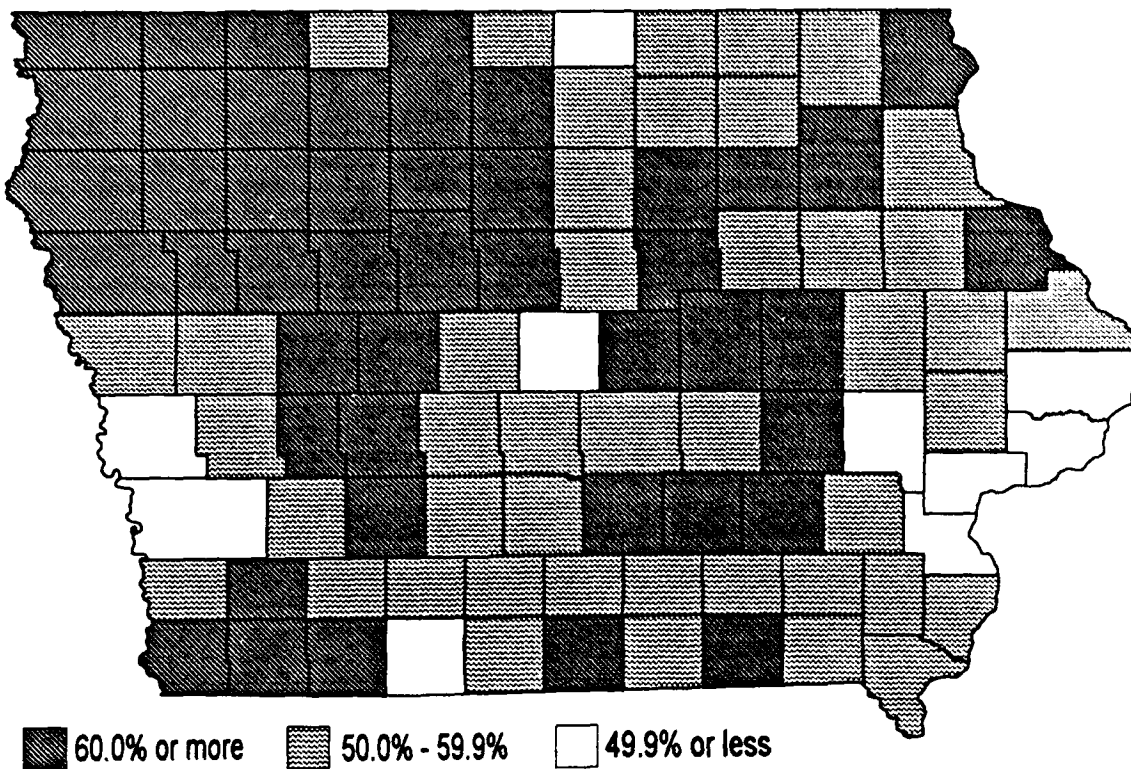


Figure 3. Change in percentage voting "yes" on the ERA, 1980-1992.

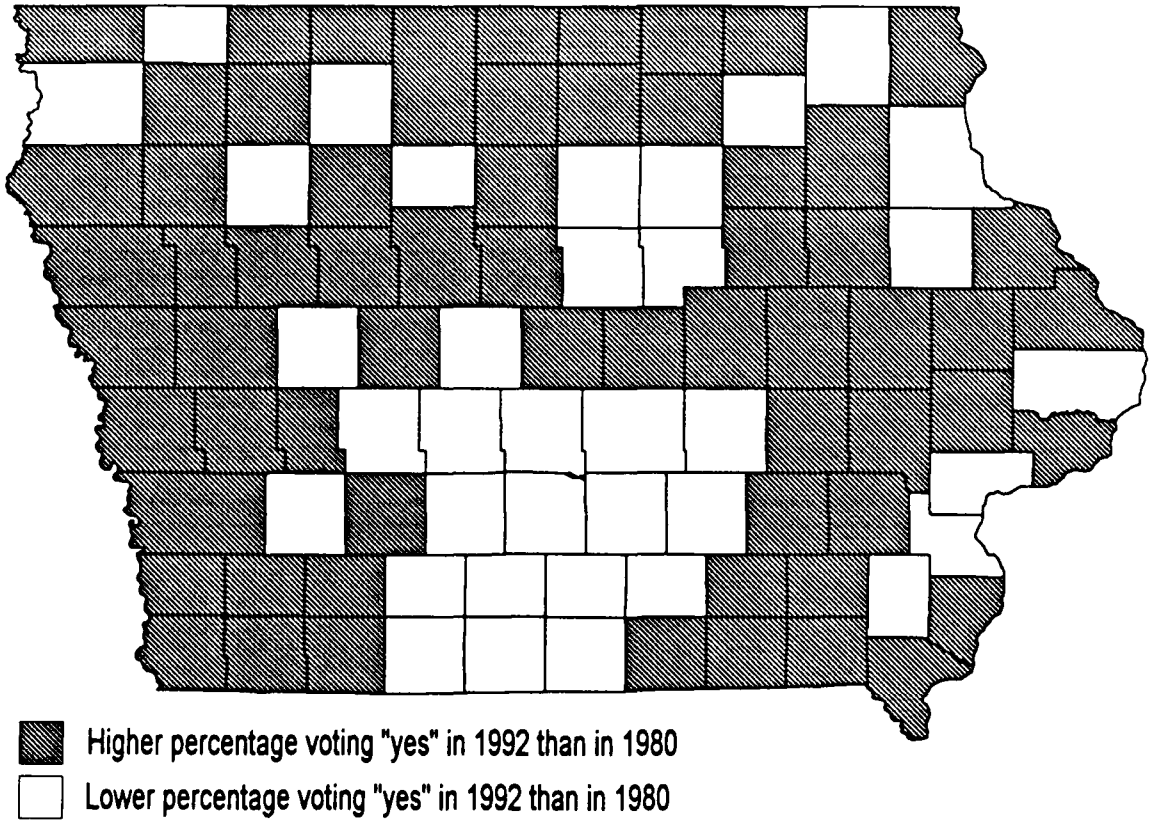
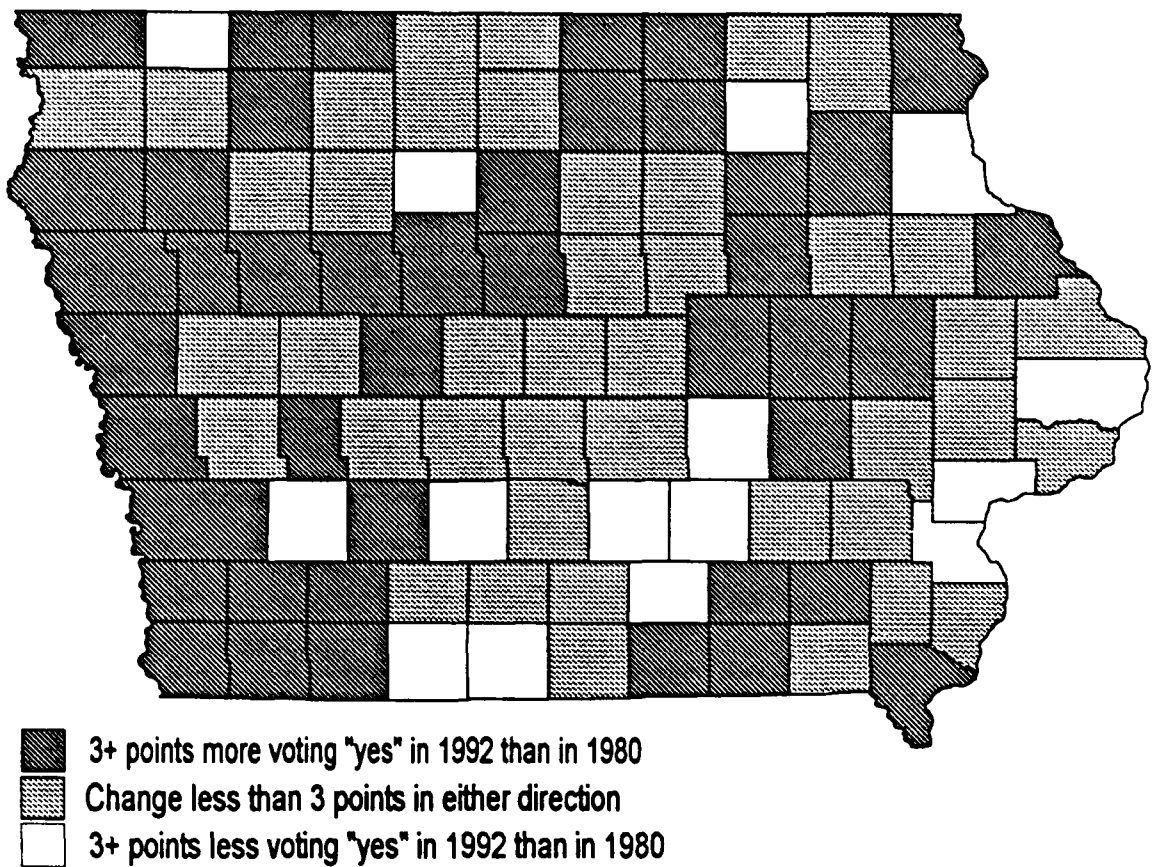


Figure 4. Change in percentage points voting "yes" on the ERA, 1980-1992.



Other Publications from Census Services

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

1990 Census Publications

Six brief reports highlighting data from the 1990 census have been published by Census Services. The first four are based on information on the PL94-171 (Public Law 94-171) computer tape, which was used for redistricting the state for legislative purposes; this tape was released in February of 1991. The fifth one (CS91-6) is from the tape (STF1A) with more detailed demographic and housing data that arrived in May of 1991. The sixth (CS92-4), which was based on a tape (STF3A) received in May of 1992, contains socioeconomic and additional housing variables. Single copies of these reports can be ordered at no charge from Census Services (320 East Hall, Iowa State University, Ames, IA 50011).

- Iowa's Counties in 1980 and 1990: Initial Census Counts on Population, Race, Hispanic Origin, and Housing Units. CS91-2. 6 pages.
- Iowa's Incorporated Places in 1990: Initial Census Counts on Population, Race, Hispanic Origin, and Housing Units. CS91-3. 22 pages.
- Iowa's Townships in 1990: Initial Census Counts on Population, Race, Hispanic Origin, and Housing Units. CS91-4. 28 pages.
- Race and Hispanic Origin in 1990 by Age (18 and Older, 17 and Younger) in Iowa's Counties. CS91-5. 10 pages.
- 1990 Census Data for the State of Iowa from Summary Tape File 1A. CS91-6. 6 pages.
- 1990 Census Data for the State of Iowa from Summary Tape File 3A. CS92-4. 16 pages.

Information for counties and incorporated places equivalent to that in CS91-6 and CS92-4 (the last two reports listed) for 1990 is available through county extension offices. Each office has 21 pages of data for that county and 21 pages for each incorporated place within it. Extension community field specialists located throughout the state have the data for their sets of counties and incorporated places. A complete set of the pages or specialized computer runs can be obtained from Census Services; charges apply, of course.

Other Publications

Single copies of the following reports also can be ordered at no charge from our office while our supplies last.

- Births in Iowa by Race, Age, and Marital Status of Mother: 1980-1990. CS92-3. 10 pages.
- Population Counts for Iowa and Other States: 1980-1990 Censuses and 1991-1992 Estimates. CS93-1. 2 pages.

Some "vintage" publications developed by Census Services are available through Publications Distribution, 112 Printing and Publications Building, Iowa State University, Ames, IA 50011. Indicate the Pm and/or CRD number(s) of the publication(s) you want. There is a charge if more than one copy of a publication is ordered. Information on charges is available from Publications Distribution (515-294-5247). Many of these reports can be reviewed at county extension offices.

Iowa and The World:

Food Self-Sufficiency in the World: 1970-1985. August 1990 (6 pages). CRD 307.
World Population Estimates (1980 and 1985) and Projections (1990 and 2000). June 1988 (12).
CRD 270.

Iowa and Other States:

State Taxes Collected in Iowa and Other States: 1989. June 1990 (4 pages). CRD 305.
Age Distributions in Iowa and the Nation: 1980 and 1989. June 1990 (8). CRD 304.
Household Estimates for Iowa and Other States: 1980-1989. May 1990 (2). CRD 299.
1989 Population Estimates for Iowa and Other States. February 1990 (2). CRD 296.
Projections for Black and White Residents of Iowa and the Nation, 1990-2000. October 1988 (2).
CRD 276.
Vital Statistics and Other Population Components in Iowa and the Nation, 1980-1985. May 1987 (12).
CRD 253.
Iowa and the Nation: Population and Housing Counts. March 1983 (4). CRD 184.

State of Iowa:

Rural and Urban Comparisons in Iowa: 1980-1988. August 1990 (16 pages). CRD 308.
Age Distributions in Iowa: 1980-1989. May 1990 (2). CRD 298.
Estimates of Minority Populations in Iowa: 1980-1985. October 1989 (2). CRD 293.
Changes in the Characteristics of Iowa's Farm Operators: 1978-1987. September 1989 (4). CRD 292.
Changes in Iowa Agriculture: 1978-1987. October 1989 (4). CRD 291.
Preliminary Data on Iowa from the 1987 Census of Agriculture. March 1989 (2). CRD 283.
Iowa's Population from 1910 to 1988: Births, Deaths, and Migration. March 1989 (4). CRD 282.
Rural and Urban Per Capita Income in Iowa, 1969-1986. February 1989 (2). CRD 281.
Farm, Rural Nonfarm, and Urban Residents of Iowa: 1980 and 50 Years of Perspective.
February 1988 (95). Pm-1312.
Minority Groups in Iowa. January 1987 (72). Pm-1286.
Iowa's Elderly: 1980 and a Century of Perspective. October 1986 (82). Pm-1279.
Women in Iowa: 1980 and a Century of Perspective. June 1986 (89). Pm-1270.
Iowa's Retail Trade Establishments: 1954-1982. March 1986 (6). CRD 237.
Estimated Personal Income in Iowa, 1929-1982. February 1985 (6). Pm-1192.
Detailed Ancestry Categories for the State of Iowa. September 1983 (4). CRD 195.
Socioeconomic and Housing Characteristics--Iowa. January 1983 (16). Pm-1074.
Iowa's Urban and Rural Population, 1880-1980. July 1982 (2). CRD 165.
Population Change in Iowa's Incorporated Places, 1970 to 1980. April 1982 (4). CRD 159.
Complete Count Census Data--Iowa. April 1982 (6). Pm-1041.

Iowa's Incorporated Places and Townships:

Population in Iowa's Incorporated Places, 1850-1986. March 1988 (28). CRD 263.
Population in Iowa's Townships: 1900-1980. February 1988 (28). CRD 261.

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