

Indicators Program



Women in Agriculture Farms, Operations, Demographics Iowa and Counties 2012 Census of Agriculture

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Women Farm Operators in the Census of Agriculture

In 2012, women farm operators numbered 32,907 in Iowa. Additional characteristics, including age, primary occupation, work off the farm, and years of farm operation experience were reported for 32,167 of these women. Women were the

principal operators for 7,108 farms (Figure 1; Tables 1, 3).

This report provides information on women farm operators in Iowa and its counties and is based on the 2012 Census of Agriculture. The Census

of Agriculture, conducted every five years by the U.S. Department of Agriculture, asks about the characteristics of farm operators in section 35 of the Census of Agriculture questionnaire (Figures 2, 3). Information on women farm operators is

Figure 1. 3 Ways women counted in 2012 Census of Agriculture

- **Total Operators** 32,907 County Table 45
- from Section 35, Question 1; Only know number count
- **Operators and Characteristics** 32,167 County Table 47 +
- from Section 35, Question 2b, all 3 columns
- more characteristics
- **Principal Operator** 7,108 County Table 46 +
- from Section 35, Question 2b, column 1 only
- many more characteristics
- Different amount and type data for each way counted

Figure 2.

SECTION 35 OPERATOR CHARACTERISTICS

1. In 2012, how many operators (individuals) were involved in the day-to-day decisions for this operation? Enter the number of operators and the number of women operators. Exclude hired workers unless they were a hired manager or family member. . . . 1575

Total Number of Operators	1574
Number of Women Operators	

2. Answer the following questions for up to three primary operators of this operation as of **December 31, 2012**.

	Principal Operator or Senior Partner	Operator 2	Operator 3
a. Full name	1835 []	1852 []	1872 []
b. Sex of operator	0926 1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	1586 1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	1597 1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female
c. Is operator 2 or 3 the spouse of the principal operator?	1590 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1601 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
d. At which occupation did the operator spend the majority (50 percent or more) of his/her worktime in 2012?	0928 Mark one answer only. 1 <input type="checkbox"/> Farm or ranch work 2 <input type="checkbox"/> Other	1580 Mark one answer only. 1 <input type="checkbox"/> Farm or ranch work 2 <input type="checkbox"/> Other	1591 Mark one answer only. 1 <input type="checkbox"/> Farm or ranch work 2 <input type="checkbox"/> Other
e. Is this operator retired?	0924 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1582 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1593 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. How many days did the operator work off the farm in 2012? Include days in which the operator worked at least 4 hours per day in an off-farm job. Include work on someone else's farm for pay.	0929 Mark one answer only. 1 <input type="checkbox"/> None 2 <input type="checkbox"/> 1 - 49 days 3 <input type="checkbox"/> 50 - 99 days 4 <input type="checkbox"/> 100 - 199 days 5 <input type="checkbox"/> 200 days or more	1831 Mark one answer only. 1 <input type="checkbox"/> None 2 <input type="checkbox"/> 1 - 49 days 3 <input type="checkbox"/> 50 - 99 days 4 <input type="checkbox"/> 100 - 199 days 5 <input type="checkbox"/> 200 days or more	1931 Mark one answer only. 1 <input type="checkbox"/> None 2 <input type="checkbox"/> 1 - 49 days 3 <input type="checkbox"/> 50 - 99 days 4 <input type="checkbox"/> 100 - 199 days 5 <input type="checkbox"/> 200 days or more

Figure 3.

	Principal Operator or Senior Partner	Operator 2	Operator 3
g. Did the operator live on this operation at any time in 2012?	0923 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1581 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1592 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
h. In what year did the operator begin to operate any part of THIS operation?	0930 []	1584 []	1595 []
i. What year did the operator begin to operate ANY farm?	1834 []	1851 []	1871 []
j. What was the operator's age on December 31, 2012?	0925 [] years	1585 [] years	1596 [] years
k. Is the operator of Spanish, Hispanic, or Latino origin or background, such as Mexican, Cuban, or Puerto Rican, regardless of race?	0927 Spanish, Hispanic, or Latino origin 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1587 Spanish, Hispanic, or Latino origin 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1598 Spanish, Hispanic, or Latino origin 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
l. What is the operator's race?	1701 <input type="checkbox"/> White 1702 <input type="checkbox"/> Black or African American 1703 <input type="checkbox"/> American Indian or Alaska Native. Specify tribe [] 1733 [] 1705 <input type="checkbox"/> Asian 1704 <input type="checkbox"/> Native Hawaiian or Other Pacific Islander	1801 <input type="checkbox"/> White 1802 <input type="checkbox"/> Black or African American 1803 <input type="checkbox"/> American Indian or Alaska Native. Specify tribe [] 1833 [] 1805 <input type="checkbox"/> Asian 1804 <input type="checkbox"/> Native Hawaiian or Other Pacific Islander	1901 <input type="checkbox"/> White 1902 <input type="checkbox"/> Black or African American 1903 <input type="checkbox"/> American Indian or Alaska Native. Specify tribe [] 1933 [] 1905 <input type="checkbox"/> Asian 1904 <input type="checkbox"/> Native Hawaiian or Other Pacific Islander
m. How many people lived in the operator's household in 2012?	1577 [] number	1589 [] number	1600 [] number
n. Is this operator a hired manager for this operation?	1576 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1588 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	1599 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

Women Farm Operators

reported in Census of Agriculture publications as well as being available from online data bases.¹

Among Iowa's counties, four (Adams, Dickinson, Ida, Montgomery) had fewer than 170 women as farm operators. In contrast, Clayton, Delaware, Linn, Warren, and Win-

neshiek each recorded more than 600 women farm operators (Figure 4, Table 1).

Statewide, women made up 25.0 percent of all reported farm operators. Counties in northwest Iowa tended to have the lowest proportions of women farm operators.

Thirty percent or more of all farm operators were women in Decatur, Jefferson, Lucas, Polk, Warren, and Winneshiek Counties (Figure 5, Table 1). Among all of Iowa's farms, 35.4 percent reported at least one woman farm operator (Figure 6, Table 1).

Figure 4. Total Number of Women Farm Operators, 2012 Census of Agriculture.

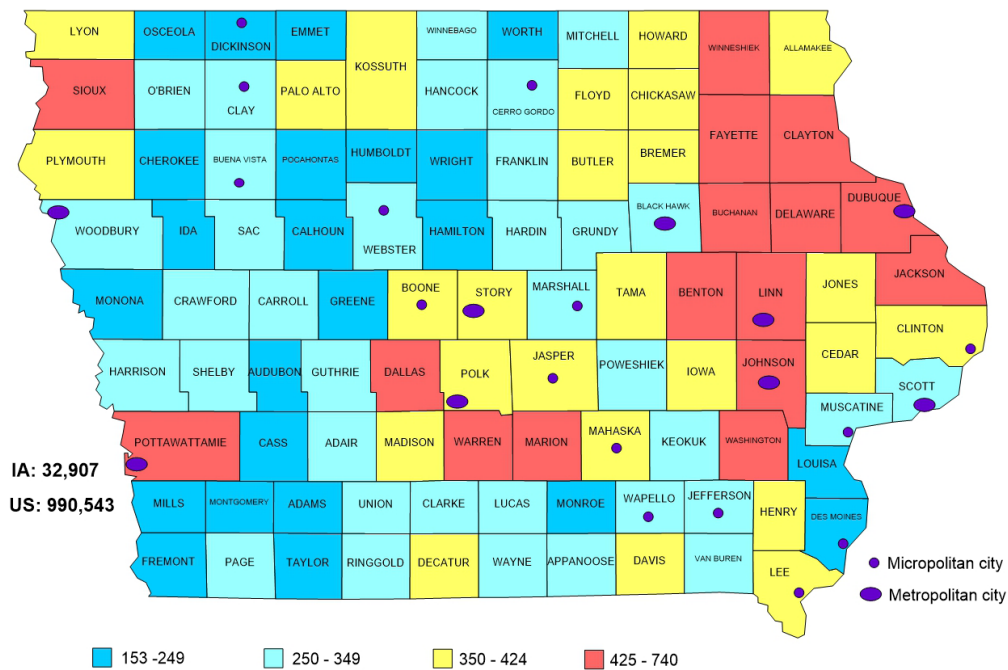


Figure 5. Percent of Total Farm Operators That Were Women, 2012 Census of Agriculture.

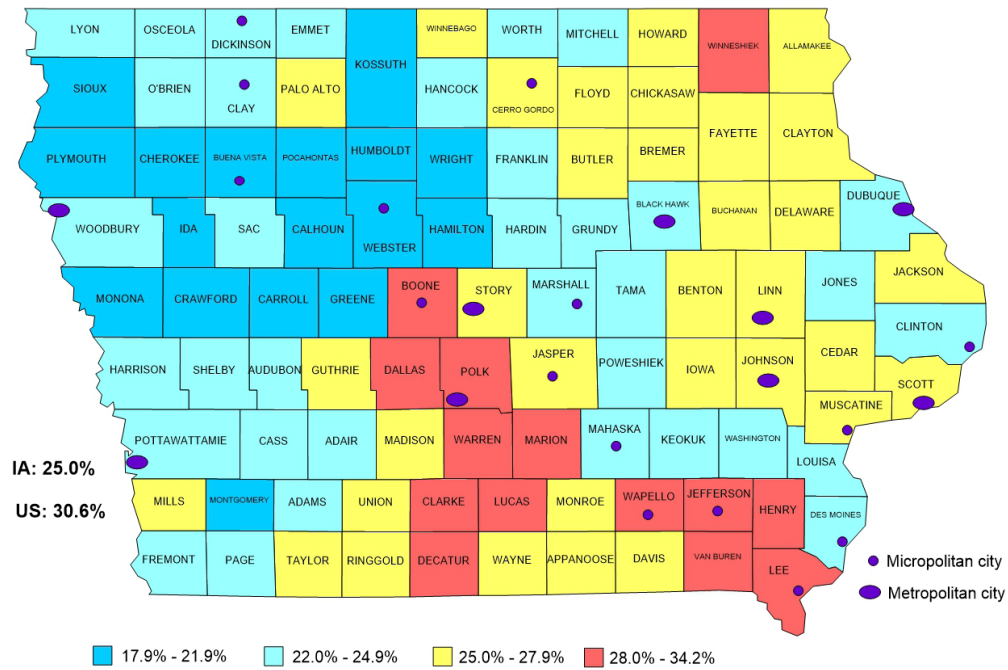


Figure 6. Percent of Farms with Women Operators, 2012 Census of Agriculture.

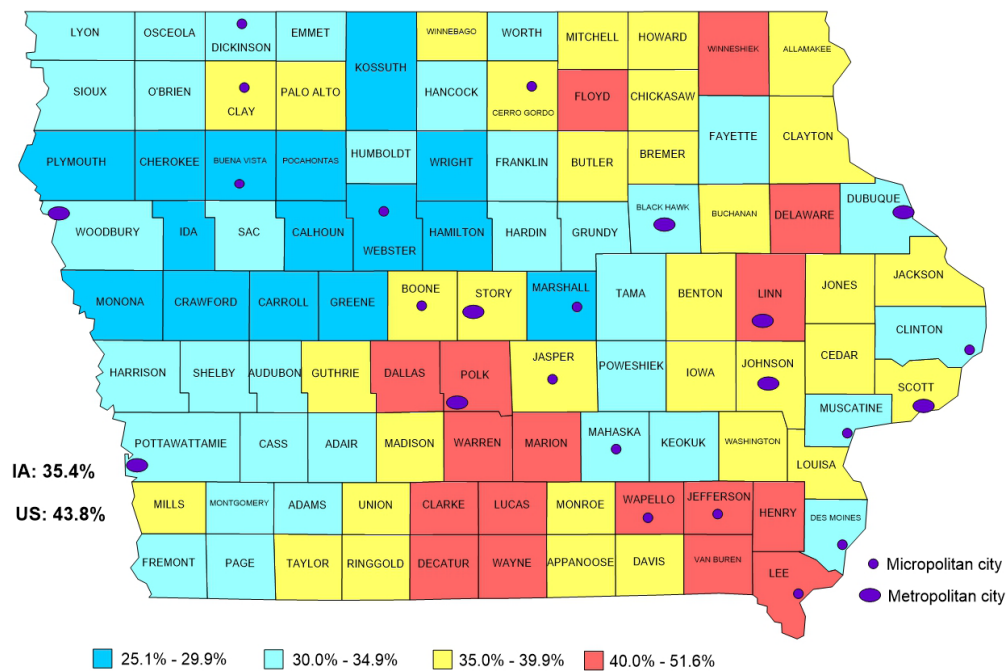


Table 1. Farm Operators, Total Women Farm Operators, Percent of Farm Operators that were Women, Number of Farms, and Percent of Farms with Woman Operator, 2012 Census of Agriculture.¹

County	Total Farm Operators	Women Farm Operators Total	% of Farm Operators that were Women	Number of Farms	% of Farms with Woman Operator	County	Total Farm Operators	Women Farm Operators Total	% of Farm Operators that were Women	Number of Farms	% of Farms with Woman Operator
Adair	1084	264	24.4	726	34.4	Jefferson	1042	320	30.7	685	45.1
Adams	676	161	23.8	467	32.8	Johnson	2043	517	25.3	1342	36.4
Allamakee	1490	386	25.9	1011	36.7	Jones	1574	392	24.9	1061	35.2
Appanoose	1101	307	27.9	744	39.7	Keokuk	1446	339	23.4	982	32.6
Audubon	890	220	24.7	622	33.0	Kossuth	1924	373	19.4	1349	26.7
Benton	1755	466	26.6	1215	37.0	Lee	1401	400	28.6	917	41.2
Black Hawk	1343	300	22.3	924	31.1	Linn	2184	609	27.9	1402	41.9
Boone	1339	379	28.3	938	37.8	Louisa	932	229	24.6	612	35.8
Bremer	1455	381	26.2	982	38.0	Lucas	980	322	32.9	648	47.8
Buchanan	1656	438	26.4	1075	38.9	Lyon	1736	385	22.2	1139	32.5
Buena Vista	1248	254	20.4	858	27.7	Madison	1404	383	27.3	961	38.3
Butler	1586	406	25.6	1096	35.6	Mahaska	1542	353	22.9	1012	33.2
Calhoun	1141	248	21.7	826	29.2	Marion	1537	439	28.6	1024	40.8
Carroll	1520	308	20.3	1065	27.8	Marshall	1232	279	22.6	882	29.9
Cass	1010	230	22.8	703	31.4	Mills	797	199	25.0	500	38.4
Cedar	1436	378	26.3	955	37.7	Mitchell	1336	333	24.9	903	36.1
Cerro Gordo	1133	294	25.9	780	35.9	Monona	790	170	21.5	538	29.7
Cherokee	1162	208	17.9	805	25.1	Monroe	859	238	27.7	592	39.2
Chickasaw	1535	390	25.4	1036	35.0	Montgomery	729	158	21.7	499	30.3
Clarke	951	278	29.2	627	41.5	Muscatine	1144	286	25.0	786	34.9
Clay	1085	259	23.9	720	35.0	O'Brien	1307	302	23.1	884	33.0
Clayton	2409	652	27.1	1577	39.2	Osceola	836	192	23.0	555	33.3
Clinton	1794	416	23.2	1244	32.5	Page	1090	254	23.3	739	32.5
Crawford	1274	266	20.9	900	27.8	Palo Alto	1312	351	26.8	874	37.4
Dallas	1530	442	28.9	1001	42.5	Plymouth	1912	356	18.6	1331	26.1
Davis	1394	374	26.8	917	39.6	Pocahontas	1052	224	21.3	742	28.0
Decatur	1151	394	34.2	711	51.6	Polk	1164	351	30.2	773	43.1
Delaware	2176	603	27.7	1382	42.7	Pottawattamie	1758	433	24.6	1188	34.3
Des Moines	916	214	23.4	663	30.0	Poweshiek	1257	312	24.8	852	34.5
Dickinson	618	153	24.8	441	33.1	Ringgold	942	258	27.4	651	37.6
Dubuque	2222	530	23.9	1462	34.9	Sac	1367	308	22.5	914	32.8
Emmet	700	172	24.6	475	34.9	Scott	1201	300	25.0	759	36.4
Fayette	1838	464	25.2	1286	34.4	Shelby	1248	281	22.5	869	31.1
Floyd	1465	401	27.4	944	40.6	Sioux	2523	536	21.2	1618	31.2
Franklin	1295	288	22.2	853	32.1	Story	1447	367	25.4	966	35.9
Fremont	773	189	24.5	533	34.3	Tama	1640	405	24.7	1132	33.9
Greene	1091	235	21.5	780	28.8	Taylor	948	241	25.4	639	35.5
Grundy	1146	283	24.7	737	34.1	Union	965	265	27.5	648	38.4
Guthrie	1285	321	25.0	829	37.0	Van Buren	1112	317	28.5	753	40.4
Hamilton	1055	231	21.9	761	28.6	Wapello	1097	324	29.5	742	42.3
Hancock	1297	306	23.6	889	33.4	Warren	2031	617	30.4	1334	45.1
Hardin	1173	276	23.5	819	31.3	Washington	1723	428	24.8	1139	35.2
Harrison	1225	291	23.8	819	33.5	Wayne	1040	289	27.8	691	40.2
Henry	1348	392	29.1	903	41.9	Webster	1350	277	20.5	968	26.4
Howard	1326	354	26.7	883	38.2	Winnebago	975	258	26.5	642	38.3
Humboldt	808	177	21.9	574	30.3	Winneshiek	2446	740	30.3	1535	44.2
Ida	779	168	21.6	547	28.2	Woodbury	1418	333	23.5	973	32.5
Iowa	1519	383	25.2	1019	36.2	Worth	904	210	23.2	640	31.3
Jackson	1901	484	25.5	1255	37.6	Wright	1101	229	20.8	775	27.7
Jasper	1633	411	25.2	1098	36.0	State of Iowa	131535	32907	25.0	88637	35.4

¹2012 Census of Agriculture, <http://www.agcensus.usda.gov/Publications/2012/>

Many women and men in Iowa are involved in farming. To get an estimate of the participation in agriculture, the number of farm operators can be divided by the number of persons age 21 and older. In Iowa, women farm operators were estimated to be 3.0 percent of

females age 21 and older. Iowa's large metropolitan counties had fewer than one percent of women farm operators while several rural counties exceeded 10 percent. Male farm operators were estimated to be 9.3% of males age 21 and older, indicating a greater participation

in farm operations for men than for women. In some rural counties, male farm operators were 25 percent or more of the male 21 or older population. Similar to women, metropolitan counties had very low percentages of men as farm operators (Figures 7, 8; Table 2).

Figure 7. Total Women Farm Operators as a Percent of Females 21 Years and Older, 2012 Census of Agriculture.

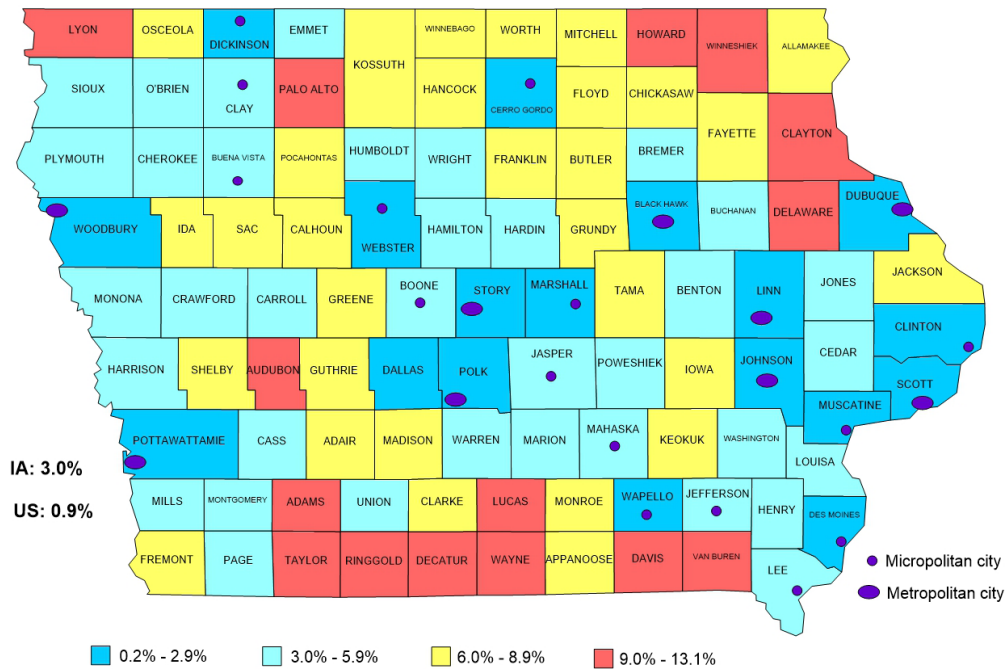


Figure 8. Total Male Farm Operators as a Percent of Males 21 Years and Older, 2012 Census of Agriculture.

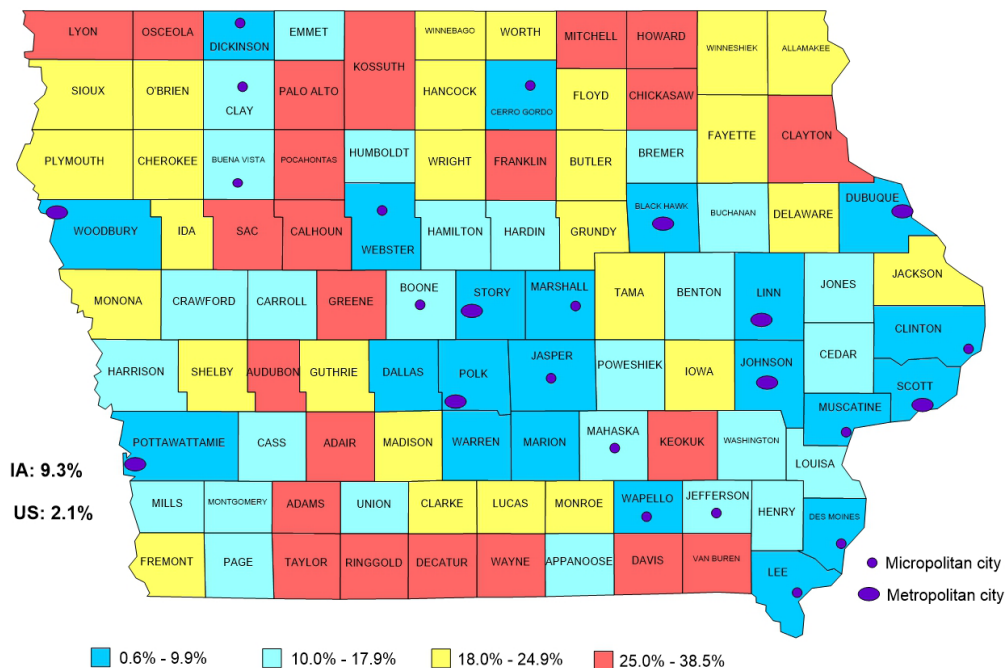


Table 2. Number of Females and Males 21 Years or Over (2010),¹ and Percent of Females and Males 21 Years or Over that were Farm Operators, 2012 Census of Agriculture.²

County	Number of Females 21 Years or Over ¹	% of Females 21+ that were Farm Operators	Number of Males 21 Years or Over ¹	% of Males 21+ that were Farm Operators	County	Number of Females 21 Years or Over ¹	% of Females 21+ that were Farm Operators	Number of Males 21 Years or Over ¹	% of Males 21+ that were Farm Operators
Adair	2967	8.9	2797	29.3	Jefferson	6153	5.2	7108	10.2
Adams	1550	10.4	1500	34.3	Johnson	46550	1.1	46316	3.3
Allamakee	5217	7.4	5337	20.7	Jones	7370	5.3	8042	14.7
Appanoose	4977	6.2	4556	17.4	Keokuk	3937	8.6	3806	29.1
Audubon	2393	9.2	2219	30.2	Kossuth	5917	6.3	5688	27.3
Benton	9477	4.9	9126	14.1	Lee	13300	3.0	13368	7.5
Black Hawk	48308	0.6	45324	2.3	Linn	76894	0.8	72636	2.2
Boone	9761	3.9	9333	10.3	Louisa	4012	5.7	4043	17.4
Bremer	8901	4.3	8304	12.9	Lucas	3317	9.7	3133	21
Buchanan	7481	5.9	7137	17.1	Lyon	4106	9.4	3913	34.5
Buena Vista	7107	3.6	6939	14.3	Madison	5660	6.8	5340	19.1
Butler	5628	7.2	5352	22	Mahaska	8117	4.3	7844	15.2
Calhoun	3843	6.5	3502	25.5	Marion	11871	3.7	11326	9.7
Carroll	7839	3.9	7221	16.8	Marshall	14530	1.9	14238	6.7
Cass	5409	4.3	4949	15.8	Mills	5431	3.7	5335	11.2
Cedar	6867	5.5	6563	16.1	Mitchell	3998	8.3	3755	26.7
Cerro Gordo	17152	1.7	15639	5.4	Monona	3601	4.7	3339	18.6
Cherokee	4671	4.5	4500	21.2	Monroe	2934	8.1	2847	21.8
Chickasaw	4570	8.5	4488	25.5	Montgomery	4133	3.8	3782	15.1
Clarke	3403	8.2	3217	20.9	Muscatine	15318	1.9	14674	5.8
Clay	6371	4.1	5935	13.9	O'Brien	5459	5.5	5115	19.6
Clayton	6730	9.7	6641	26.5	Osceola	2412	8.0	2355	27.3
Clinton	18427	2.3	17257	8	Page	5796	4.4	6150	13.6
Crawford	5906	4.5	5936	17	Palo Alto	3586	9.8	3326	28.9
Dallas	23589	1.9	21812	5	Plymouth	9093	3.9	8645	18
Davis	3019	12.4	2853	35.8	Pocahontas	2813	8.0	2713	30.5
Decatur	3015	13.1	2879	26.3	Polk	157553	0.2	146494	0.6
Delaware	6423	9.4	6329	24.9	Pottawattamie	34431	1.3	32065	4.1
Des Moines	15477	1.4	14093	5	Poweshiek	7038	4.4	6542	14.4
Dickinson	6672	2.3	6375	7.3	Ringgold	1964	13.1	1776	38.5
Dubuque	34341	1.5	32449	5.2	Sac	3999	7.7	3761	28.2
Emmet	3720	4.6	3626	14.6	Scott	61254	0.5	57089	1.6
Fayette	7728	6.0	7455	18.4	Shelby	4627	6.1	4336	22.3
Floyd	6156	6.5	5711	18.6	Sioux	11225	4.8	11004	18.1
Franklin	3941	7.3	3864	26.1	Story	29701	1.2	31791	3.4
Fremont	2816	6.7	2704	21.6	Tama	6527	6.2	6138	20.1
Greene	3584	6.6	3324	25.8	Taylor	2369	10.2	2305	30.7
Grundy	4696	6.0	4412	19.6	Union	4727	5.6	4301	16.3
Guthrie	4134	7.8	3920	24.6	Van Buren	2790	11.4	2734	29.1
Hamilton	5848	4.0	5586	14.8	Wapello	13406	2.4	12461	6.2
Hancock	4267	7.2	4113	24.1	Warren	16752	3.7	15315	9.2
Hardin	6590	4.2	6111	14.7	Washington	8108	5.3	7493	17.3
Harrison	5567	5.2	5300	17.6	Wayne	2409	12.0	2264	33.2
Henry	7239	5.4	7435	12.9	Webster	13654	2.0	13732	7.8
Howard	3498	10.1	3372	28.8	Winnebago	4123	6.3	3908	18.3
Humboldt	3716	4.8	3545	17.8	Winneshiek	7512	9.9	7347	23.2
Ida	2665	6.3	2559	23.9	Woodbury	36112	0.9	33989	3.2
Iowa	6071	6.3	5789	19.6	Worth	2818	7.5	2788	24.9
Jackson	7465	6.5	7143	19.8	Wright	4952	4.6	4778	18.3
Jasper	13535	3.0	13753	8.9	State of Iowa	1115086	3.0	1063532	9.3

¹2010 Decennial Census, <http://www.census.gov/2010census/>

²2012 Census of Agriculture, <http://www.agcensus.usda.gov/Publications/2012/>

Farm Operator Characteristics

Farm operator characteristics are reported for a maximum of three farm operators for each farm (Figures 2, 3). From these questionnaire responses, 32,167 women farm operators were counted. Three-fourths of women farm operators, as well as a majority of male farm operators said that their place of residence was on their farm (Figure 9). Women and men had a similar age distribution. Twenty-six percent reported being

age 65 or older and fewer than 10 percent were younger than age 35 (Figure 10).

Large majorities of both women and men reported at least ten years of experience as a farm operator (Figure 11). Men and women differed, however, in the proportion reporting farming as their primary occupation. Less than a third of the women farm operators said farming was their primary occu-

pation in contrast to nearly 56% of the male operators who said farming was primary (Figure 12). Even though there were differences in primary occupation, women and men had similar profiles in off-farm work. Forty-two percent of women operators and thirty-eight percent of male operators reported at least 200 days of off-farm work (Figure 13).

Figure 9. from Section 35, Question 2, *all 3* columns reported

place of residence of farm operators (of three listed)

	total		women		men	
	129,644	100.0%	32,167	100.0%	97,477	100.0%
on farm	91,329	70.4	24,431	76.0	66,898	68.6
other	38,315	29.6	7,736	24.0	30,579	31.4

Figure 10. from Section 35, Question 2, *all 3* columns reported

age of farm operators (of three listed)

	total		women		men	
age	129,644	100.0%	32,167	100.0%	97,477	100.0%
25 - 34	11,686	9.0	2,638	8.2	9,048	9.3
35 - 64	83,811	64.6	21,086	65.6	62,725	64.3
65+	34,147	26.3	18,443	26.2	25,704	26.4

Figure 11. from Section 35, Question 2, *all 3* columns reported

years operating any farm of farm operators (of three listed)

	total		women		men	
years	129,644	100.0%	32,167	100.0%	97,477	100.0%
9 or less	22,468	17.3	6,621	20.6	15,847	16.3
10 or more	107,176	82.7	25,546	79.4	81,630	83.7

Figure 12. from Section 35, Question 2, *all 3* columns reported

primary occupation of farm operators (of three listed)

	total		women		men	
	129,644	100.0%	32,167	100.0%	97,477	100.0%
farming	64,725	49.9	10,194	31.7	54,531	55.9
other	64,919	50.1	21,973	68.3	42,946	44.1

Figure 13. from Section 35, Question 2, *all 3* columns reported

work off farm of farm operators (of three listed)

	total		women		men	
days	129,644	100.0%	32,167	100.0%	97,477	100.0%
none	52,458	40.5	11,478	35.7	40,980	42.0
any	77,186	59.5	20,689	64.3	56,497	58.0
200+	50,550	39.0	13,523	42.0	37,027	38.0

Principal Farm Operators

Each farm has one operator designated as the principal operator (Figure 2). In 2012, 7,108 of the women farm operators were the principal operator for their farm. The counties ranged from 27

(Monona County) to 153 (Johnson County) women principal operators (Figure 14, Table 3). Statewide, 8.0 percent of farms had a woman principal operator. Iowa's counties ranged from 2.9% (Lyon County)

of farms with women principal operators to 15.1% in Polk County. (Figure 15, Table 3).

The farm operations with a woman principal operator were smaller

Figure 14. Number of Women Principal Farm Operators, 2012 Census of Agriculture.

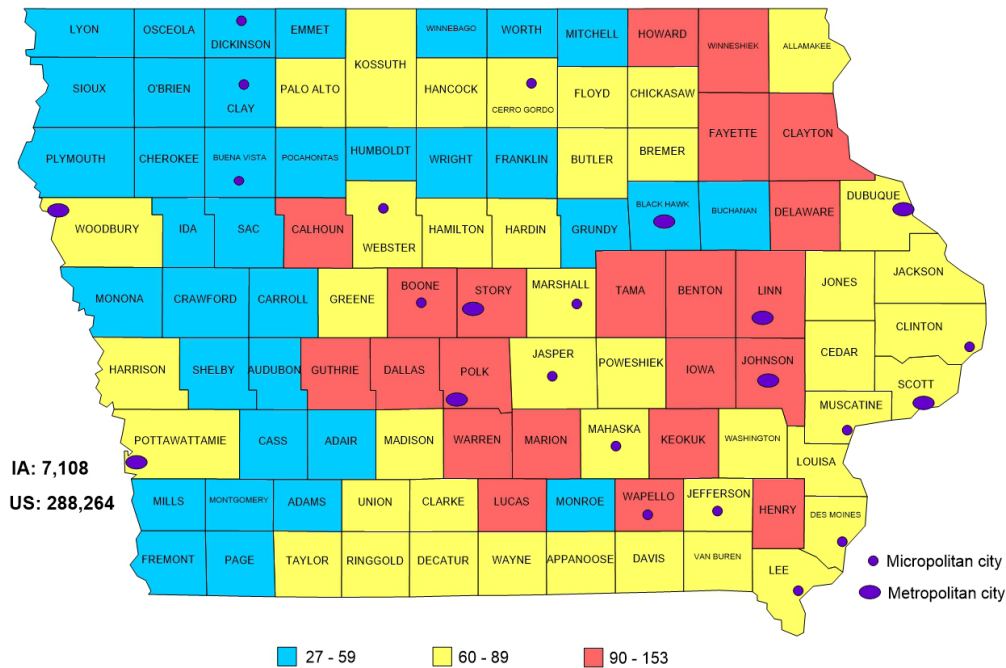
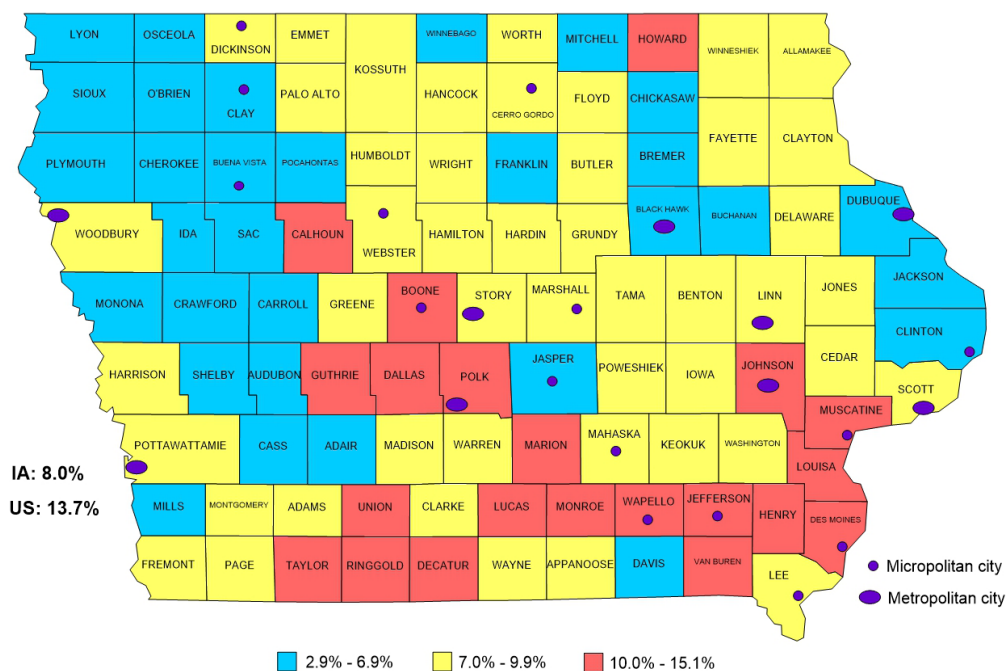


Figure 15. Percent of Principal Farm Operators Who Are Women, 2012 Census of Agriculture.



than those with a male principal operator. Statewide, the farms with a woman principal operator averaged 122 acres. This was much smaller than the average (345 acres) for all farms as well as smaller than the average (365 acres) for farms with a male principal

operator. For Iowa's counties, the average size for farms with women principal operators was smaller than 60 acres in Bremer, Black Hawk, and Polk Counties. These contrasted with six counties (Audubon, Cherokee, Franklin, Harrison, Kossuth, Plymouth) for

which the average size exceeded 220 acres. For male principal operators, the *smallest* county average was 204 acres (Dubuque County) and ranged upward to 652 acres in Monona County (Figure 20, Table 3).

Table 3. Principal Farm Operators, Women Principal Farm Operators, Percent of Principal Farm Operators who were Women, and Average Size (Acres) Farms with Woman or Male Principal Operator, 2012 Census of Agriculture.¹

County	Number of Principal Farm Operators (Farms)	Women Principal Farm Operators	% of Principal Operators that were Women	Average Size (Acres)		County	Number of Principal Farm Operators (Farms)	Women Principal Farm Operators	% of Principal Operators that were Women	Average Size (Acres)	
				Farms with Woman Principal Operator	Farms with Male Principal Operator					Farms with Woman Principal Operator	Farms with Male Principal Operator
Adair	726	48	6.6	170	465	Jefferson	685	76	11.1	104	312
Adams	467	34	7.3	163	517	Johnson	1342	153	11.4	84	266
Allamakee	1011	87	8.6	109	303	Jones	1061	78	7.4	89	312
Appanoose	744	60	8.1	157	261	Keokuk	982	91	9.3	158	316
Audubon	622	43	6.9	296	462	Kossuth	1349	70	5.2	234	456
Benton	1215	116	9.5	100	374	Lee	917	89	9.7	163	267
Black Hawk	924	51	5.5	54	337	Linn	1402	127	9.1	113	255
Boone	938	97	10.3	60	366	Louisa	612	71	11.6	154	291
Bremer	982	65	6.6	56	292	Lucas	648	94	14.5	159	293
Buchanan	1075	59	5.5	117	330	Lyon	1139	33	2.9	102	331
Buena Vista	858	54	6.3	92	443	Madison	961	89	9.3	112	305
Butler	1096	78	7.1	90	349	Mahaska	1012	79	7.8	115	336
Calhoun	826	93	11.3	77	479	Marion	1024	103	10.1	98	277
Carroll	1065	58	5.4	139	348	Marshall	882	80	9.1	109	379
Cass	703	43	6.1	137	430	Mills	500	53	10.6	75	453
Cedar	955	82	8.6	218	337	Mitchell	903	52	5.8	156	339
Cerro Gordo	780	60	7.7	70	448	Monona	538	27	5.0	176	652
Cherokee	805	37	4.6	233	428	Monroe	592	59	10.0	155	349
Chickasaw	1036	72	6.9	121	301	Montgomery	499	41	8.2	179	519
Clarke	627	60	9.6	96	288	Muscatine	786	80	10.2	84	295
Clay	720	44	6.1	166	461	O'Brien	884	34	3.8	125	353
Clayton	1577	117	7.4	142	261	Osceola	555	34	6.1	103	450
Clinton	1244	75	6.0	96	351	Page	739	53	7.2	179	448
Crawford	900	57	6.3	129	526	Palo Alto	874	82	9.4	149	438
Dallas	1001	107	10.7	78	333	Plymouth	1331	56	4.2	221	415
Davis	917	61	6.7	167	238	Pocahontas	742	44	5.9	92	470
Decatur	711	83	11.7	150	349	Polk	773	117	15.1	46	293
Delaware	1382	105	7.6	62	281	Pottawattamie	1188	87	7.3	99	476
Des Moines	663	75	11.3	96	281	Poweshiek	852	65	7.6	86	418
Dickinson	441	40	9.1	78	460	Ringgold	651	66	10.1	181	441
Dubuque	1462	76	5.2	113	204	Sac	914	58	6.3	94	411
Emmet	475	43	9.1	115	496	Scott	759	75	9.9	89	313
Fayette	1286	107	8.3	137	317	Shelby	869	50	5.8	110	448
Floyd	944	73	7.7	84	358	Sioux	1618	59	3.6	95	307
Franklin	853	57	6.7	223	431	Story	966	94	9.7	136	336
Fremont	533	38	7.1	183	567	Tama	1132	94	8.3	96	379
Greene	780	63	8.1	190	481	Taylor	639	72	11.3	140	474
Grundy	737	53	7.2	124	455	Union	648	68	10.5	107	357
Guthrie	829	102	12.3	110	435	Van Buren	753	79	10.5	173	296
Hamilton	761	67	8.8	99	462	Wapello	742	98	13.2	121	275
Hancock	889	71	8.0	93	424	Warren	1334	132	9.9	96	209
Hardin	819	68	8.3	84	435	Washington	1139	80	7.0	146	286
Harrison	819	67	8.2	276	499	Wayne	691	61	8.8	144	421
Henry	903	93	10.3	138	317	Webster	968	85	8.8	122	451
Howard	883	90	10.2	86	368	Winnebago	642	43	6.7	176	380
Humboldt	574	45	7.8	108	435	Winneshiek	1535	133	8.7	120	257
Ida	547	35	6.4	74	505	Woodbury	973	78	8.0	123	487
Iowa	1019	91	8.9	131	349	Worth	640	50	7.8	81	391
Jackson	1255	86	6.9	142	254	Wright	775	58	7.5	123	492
Jasper	1098	72	6.6	104	357	State of Iowa	88637	7108	8.0	122	365

¹2012 Census of Agriculture, <http://www.agcensus.usda.gov/Publications/2012/>

Figure 16. Average Crop Sales, Farms with Sales and Woman Principal Operator, 2012 Census of Agriculture.

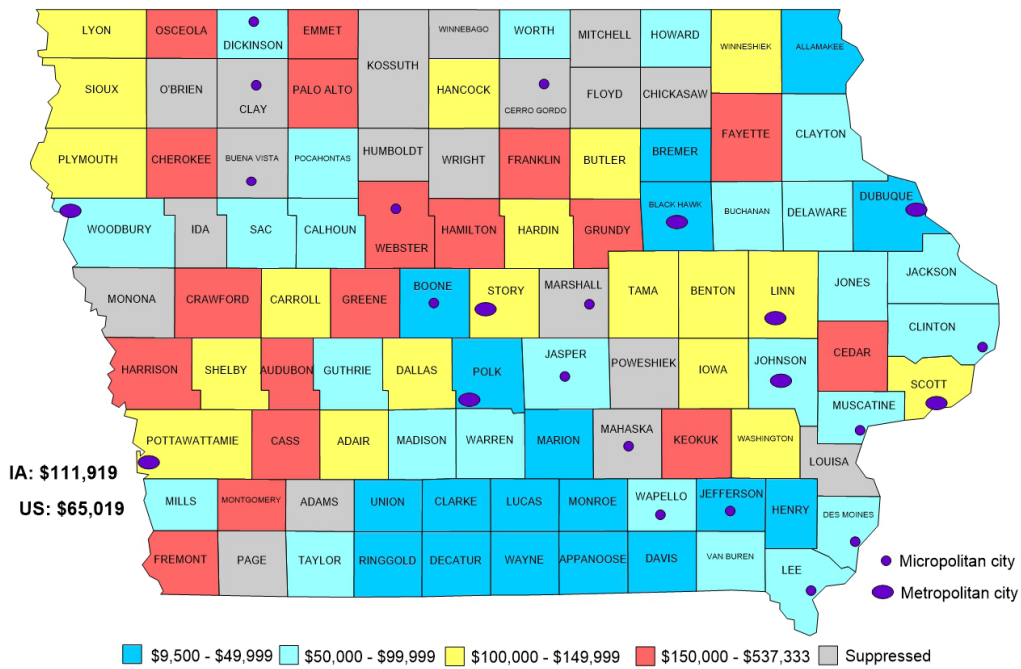
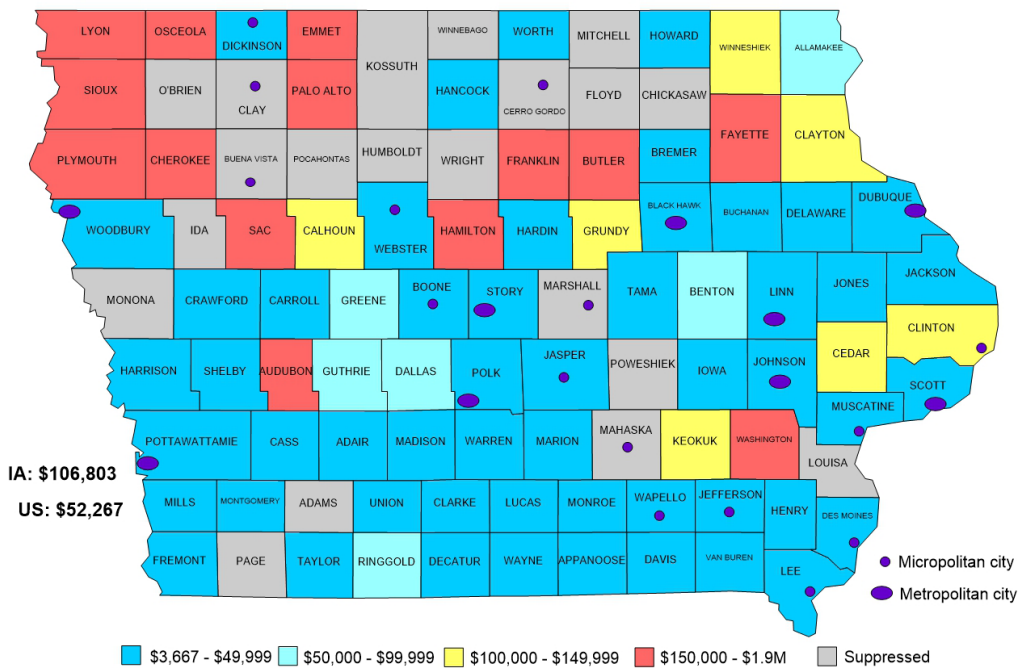


Figure 17. Average Livestock Sales, Farms with Sales and Woman Principal Operator, 2012 Census of Agriculture.



Sales of crops and livestock were reported for farms with women principal operators that had sales, although the information is suppressed and not available for 19 counties. These farms statewide

averaged nearly \$112,000 in crop sales and \$107,000 in livestock sales. There were, however, significant variations in these sales across the counties. Average sales ranged from under \$50,000 in

some counties to more than half a million dollars in others. Counties in northwest Iowa tended to have some of the highest average livestock sales (Figures 16, 17; Table 4).

Table 4. Farms with Woman Principal Operator: Number of Farms with Crop and Livestock Sales and Average Crop and Livestock Sales (Dollars), 2012 Census of Agriculture.¹

County	Number of Farms with Crop Sales	Average Crop Sales (Dollars)	Number of Farms with Livestock Sales	Average Livestock Sales (Dollars)	County	Number of Farms with Crop Sales	Average Crop Sales (Dollars)	Number of Farms with Livestock Sales	Average Livestock Sales (Dollars)
Adair	17	\$122,529	13	\$21,538	Jefferson	26	\$28,231	18	\$11,889
Adams	11	*	*	*	Johnson	67	\$54,582	37	\$22,622
Allamakee	23	\$32,087	23	\$59,261	Jones	31	\$58,452	18	\$6,000
Appanoose	25	\$23,160	24	\$28,625	Keokuk	26	\$156,885	13	\$118,000
Audubon	12	\$537,333	4	\$575,750	Kossuth	31	*	8	*
Benton	38	\$105,553	36	\$96,833	Lee	30	\$99,333	18	\$5,056
Black Hawk	18	\$43,778	10	\$5,600	Linn	66	\$103,621	37	\$11,622
Boone	38	\$43,789	22	\$3,727	Louisa	27	*	15	*
Bremer	23	\$29,957	19	\$19,211	Lucas	33	\$44,030	29	\$18,931
Buchanan	33	\$99,788	18	\$37,556	Lyon	20	\$104,950	15	\$550,200
Buena Vista	27	*	7	*	Madison	33	\$65,576	28	\$15,786
Butler	21	\$135,429	17	\$342,529	Mahaska	21	*	13	*
Calhoun	26	\$81,923	15	\$105,933	Marion	34	\$43,000	25	\$29,320
Carroll	24	\$136,875	5	\$16,400	Marshall	37	*	23	*
Cass	14	\$182,500	12	\$8,833	Mills	16	\$62,000	10	\$11,400
Cedar	34	\$396,824	22	\$102,136	Mitchell	29	*	8	*
Cerro Gordo	17	*	8	*	Monona	20	*	*	*
Cherokee	25	\$198,400	15	\$259,333	Monroe	23	\$17,565	13	\$10,308
Chickasaw	30	*	15	*	Montgomery	19	\$153,526	11	\$27,818
Clarke	20	\$9,500	17	\$5,882	Muscatine	25	\$77,080	8	\$5,125
Clay	20	*	9	*	O'Brien	18	*	6	*
Clayton	32	\$94,344	35	\$139,657	Osceola	10	\$153,200	11	\$1,924,000
Clinton	29	\$54,172	24	\$107,458	Page	25	*	7	*
Crawford	15	\$157,733	21	\$11,381	Palo Alto	19	\$406,947	11	\$334,545
Dallas	41	\$104,341	32	\$57,563	Plymouth	34	\$124,912	24	\$257,583
Davis	21	\$14,524	25	\$29,200	Pocahontas	17	\$87,647	*	*
Decatur	41	\$30,317	25	\$33,800	Polk	55	\$42,473	36	\$9,556
Delaware	34	\$55,147	35	\$29,886	Pottawattamie	38	\$100,737	20	\$6,650
Des Moines	31	\$71,387	14	\$34,143	Poweshiek	14	*	13	*
Dickinson	11	\$83,727	6	\$3,667	Ringgold	19	\$41,579	18	\$98,278
Dubuque	37	\$41,405	36	\$43,583	Sac	30	\$72,900	13	\$231,538
Emmet	10	\$255,400	8	\$183,125	Scott	33	\$100,121	23	\$10,391
Fayette	30	\$221,867	13	\$239,462	Shelby	22	\$134,409	15	\$33,200
Floyd	17	*	5	*	Sioux	21	\$140,524	22	\$535,409
Franklin	25	\$285,000	15	\$152,467	Story	50	\$144,680	26	\$16,385
Fremont	10	\$253,200	5	\$5,800	Tama	31	\$138,226	24	\$19,125
Greene	23	\$286,783	11	\$65,636	Taylor	18	\$69,944	27	\$22,519
Grundy	14	\$241,429	13	\$123,231	Union	23	\$24,348	10	\$31,700
Guthrie	32	\$61,281	18	\$52,222	Van Buren	28	\$50,071	18	\$15,611
Hamilton	14	\$327,357	13	\$465,462	Wapello	51	\$77,706	26	\$19,500
Hancock	24	\$119,417	8	\$16,250	Warren	60	\$58,850	30	\$11,867
Hardin	22	\$115,909	14	\$23,214	Washington	30	\$104,533	12	\$353,167
Harrison	37	\$198,162	8	\$5,875	Wayne	14	\$25,000	22	\$16,955
Henry	20	\$32,850	27	\$12,852	Webster	27	\$221,296	18	\$19,278
Howard	18	\$79,056	21	\$36,810	Winnebago	11	*	1	*
Humboldt	19	*	11	*	Winneshiek	40	\$110,575	36	\$109,639
Ida	7	*	4	*	Woodbury	23	\$91,217	30	\$6,667
Iowa	26	\$116,000	14	\$10,071	Worth	19	\$55,053	4	\$11,250
Jackson	43	\$56,628	29	\$46,172	Wright	28	*	7	*
Jasper	28	\$64,286	14	\$8,143	State of Iowa	2629	\$111,919	1683	\$106,803

¹2012 Census of Agriculture, <http://www.agcensus.usda.gov/Publications/2012/>

*Data not available, suppressed

Figure 18. Average Total Sales, Farms with Woman Principal Operator, 2012 Census of Agriculture.

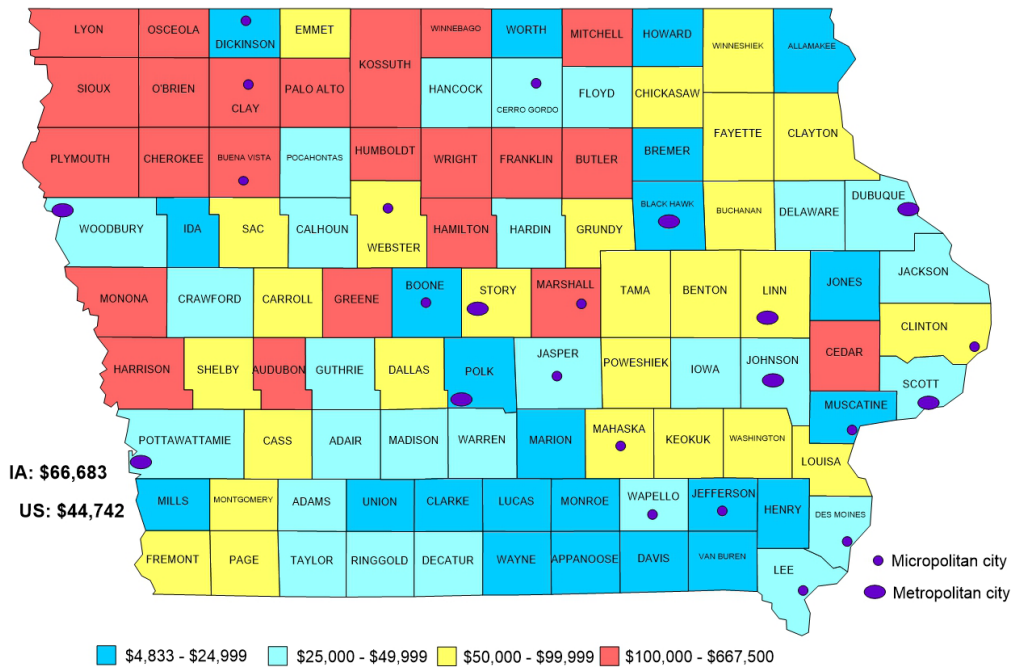
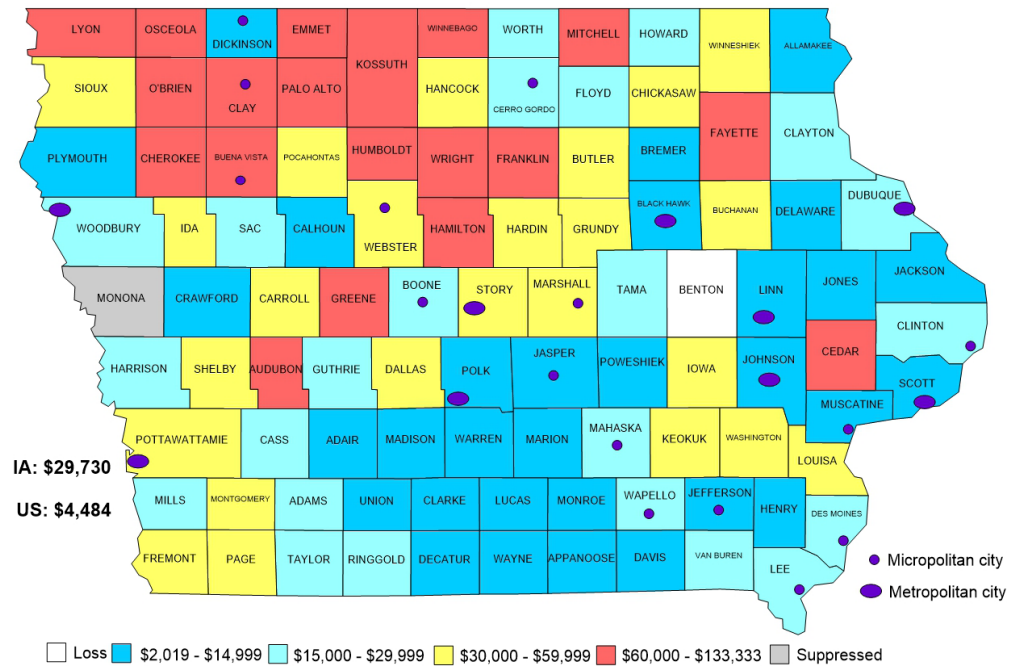


Figure 19. Average Net Cash Income, Farms with Woman Principal Operator, 2012 Census of Agriculture.



When taken together, sales of all agricultural products for farms with a woman principal operator averaged nearly \$66,700 in 2012. Twenty-three counties averaged less than \$25,000, however, and contrasted with another 23 with more than \$100,000 in average

sales. The highest average sales tended to be in counties in northwest Iowa (Figure 18, Table 5).

Net cash income for farms with a woman principal operator averaged \$29,700 statewide in 2012. Once again, the highest averages were in

northwest counties. Benton County farms with a woman principal operator had an average net loss (Figure 19, Table 5).

Women who are principal operators of their farm tend to have a different ownership pattern than do

Table 5. Farms with Woman Principal Operator: Average Total Sales (Dollars), Average Net Cash Income (Dollars), Percent Full Owners; Farms with Male Principal Operator: Percent Full Owners, 2012 Census of Agriculture.¹

County	Woman Principal Operator			Male Principal Operator	County	Woman Principal Operator			Male Principal Operator
	Average Total Sales (Dollars)	Average Net Cash Income (Dollars)	Percent Full Owners	Percent Full Owners		Average Total Sales (Dollars)	Average Net Cash Income (Dollars)	Percent Full Owners	Percent Full Owners
Adair	\$49,208	\$13,531	83.3	54.9	Jefferson	\$12,474	\$11,060	93.4	69.1
Adams	\$26,853	\$20,142	82.4	57.7	Johnson	\$29,373	\$10,752	88.9	59.5
Allamakee	\$24,149	\$11,993	86.2	67.1	Jones	\$24,615	\$8,822	85.9	52.6
Appanoose	\$21,100	\$4,379	88.3	73.1	Keokuk	\$61,681	\$31,229	91.2	58.8
Audubon	\$203,512	\$68,904	83.7	53.2	Kossuth	\$157,871	\$104,686	81.4	39.6
Benton	\$64,638	-\$30,374	85.3	45.5	Lee	\$34,506	\$21,212	87.6	64.1
Black Hawk	\$16,529	\$11,773	90.2	46.3	Linn	\$57,236	\$9,138	80.3	57.8
Boone	\$18,000	\$20,028	93.8	55.1	Louisa	\$97,127	\$53,185	84.5	56.7
Bremer	\$16,215	\$10,566	86.2	52.5	Lucas	\$21,309	\$4,225	84.0	71.8
Buchanan	\$67,288	\$34,649	71.2	50.1	Lyon	\$313,667	\$103,519	75.8	35.6
Buena Vista	\$123,352	\$84,581	87.0	39.8	Madison	\$29,281	\$12,481	88.8	67.2
Butler	\$111,115	\$51,056	89.7	52.0	Mahaska	\$61,000	\$24,399	93.7	56.3
Calhoun	\$39,989	\$12,331	82.8	41.9	Marion	\$21,311	\$10,806	84.5	64.9
Carroll	\$58,034	\$34,828	87.9	42.6	Marshall	\$121,238	\$36,306	92.5	51.7
Cass	\$61,884	\$28,463	88.4	48.8	Mills	\$20,849	\$25,354	96.2	51.5
Cedar	\$191,939	\$95,097	79.3	55.3	Mitchell	\$153,038	\$64,368	76.9	47.4
Cerro Gordo	\$40,000	\$27,484	80.0	48.2	Monona	\$105,519	*	81.5	44.6
Cherokee	\$239,162	\$111,891	73.0	36.5	Monroe	\$9,119	\$4,341	96.6	71.1
Chickasaw	\$65,847	\$30,003	88.9	55.1	Montgomery	\$78,610	\$37,345	90.2	48.3
Clarke	\$4,833	\$2,019	90.0	69.1	Muscatine	\$24,600	\$10,967	90.0	57.1
Clay	\$221,455	\$90,728	77.3	47.2	O'Brien	\$193,412	\$101,800	76.5	39.4
Clayton	\$67,581	\$16,603	85.5	67.7	Osceola	\$667,500	\$133,354	88.2	39.5
Clinton	\$55,333	\$23,850	77.3	42.1	Page	\$59,774	\$43,966	94.3	51.7
Crawford	\$45,702	\$11,169	91.2	42.6	Palo Alto	\$139,171	\$97,873	87.8	47.0
Dallas	\$57,196	\$33,279	91.6	61.0	Plymouth	\$186,250	\$13,886	60.7	39.8
Davis	\$16,967	\$7,739	90.2	73.7	Pocahontas	\$33,864	\$32,518	95.5	37.5
Decatur	\$25,157	\$6,050	90.4	71.5	Polk	\$22,906	\$2,059	79.5	60.1
Delaware	\$27,829	\$13,548	83.8	54.9	Pottawattamie	\$45,529	\$40,725	83.9	45.2
Des Moines	\$35,880	\$16,802	85.3	61.7	Poweshiek	\$91,092	\$6,272	92.3	51.8
Dickinson	\$23,575	\$12,973	92.5	44.9	Ringgold	\$38,773	\$17,195	87.9	63.9
Dubuque	\$40,803	\$15,992	81.6	60.4	Sac	\$89,603	\$27,635	80.1	45.1
Emmet	\$93,465	\$66,147	88.4	42.4	Scott	\$47,240	\$10,626	77.3	45.3
Fayette	\$91,290	\$63,596	86.9	56.7	Shelby	\$69,100	\$46,671	74.0	36.9
Floyd	\$44,521	\$29,156	87.7	54.8	Sioux	\$249,661	\$34,638	88.1	41.6
Franklin	\$165,123	\$72,801	86.0	45.0	Story	\$81,489	\$39,525	71.3	55.7
Fremont	\$67,421	\$45,652	86.8	52.5	Tama	\$50,479	\$24,452	90.4	49.8
Greene	\$116,159	\$68,813	84.1	45.3	Taylor	\$25,917	\$20,219	86.1	65.6
Grundy	\$93,981	\$46,996	86.8	40.2	Union	\$12,897	\$5,560	86.8	66.2
Guthrie	\$28,431	\$23,497	92.2	56.3	Van Buren	\$21,304	\$16,068	92.4	74.0
Hamilton	\$158,731	\$74,018	88.1	47.1	Wapello	\$45,612	\$15,344	83.7	70.3
Hancock	\$42,197	\$35,848	84.5	41.3	Warren	\$29,447	\$5,410	88.6	74.4
Hardin	\$42,279	\$31,498	79.4	44.3	Washington	\$92,175	\$34,709	90.0	58.8
Harrison	\$110,134	\$23,397	85.1	49.5	Wayne	\$11,836	\$3,014	80.3	70.0
Henry	\$10,796	\$10,831	78.5	66.0	Webster	\$74,376	\$45,591	84.7	46.7
Howard	\$24,400	\$28,563	96.7	52.8	Winnebago	\$104,442	\$60,688	86.0	48.4
Humboldt	\$205,400	\$85,345	82.2	41.0	Winneshiekie	\$62,932	\$33,230	91.0	61.3
Ida	\$21,771	\$33,168	88.6	42.8	Woodbury	\$29,449	\$19,479	84.6	48.5
Iowa	\$34,681	\$31,979	92.3	58.8	Worth	\$21,800	\$28,946	94.0	48.5
Jackson	\$43,884	\$13,781	86.0	63.2	Wright	\$149,759	\$103,870	87.9	46.9
Jasper	\$26,583	\$8,629	86.1	50.4	State of Iowa	\$66,683	\$29,730	86.1	53.2

¹2012 Census of Agriculture, <http://www.agcensus.usda.gov/Publications/2012/>

*Data not available, suppressed

male principal operators. In 2012, 86.1% of Iowa's women principal operators said they were full owners of their land. An additional 8.8% were part owners with the remaining 5.5% as tenants. Male principal operators, in contrast, reported 53.2% full ownership, 36.1% part ownership, along with 10.7% tenants (Figures 21, 22; Table 5). All of the counties had at least 60% full ownership for women principal operators. For male principal operators, there was a broad swath of counties from southwest to northeast where male full ownership was below 50%. Male full ownership was highest in

Iowa's southern and northeastern counties (Figure 22, Table 5).

The data and information in this report are from the 2012 Census of Agriculture and can be obtained from the USDA's publications and website.¹ An additional resource for many of these data is the Iowa State University Extension and Outreach Indicators Portal. The Indicators Portal is a "one-stop shop" website for finding, visualizing, and mapping data. The site provides data on many topic and subject areas (including agriculture); tools for designing graphs and maps; *Data for Decision Mak-*

ers county and ISU Extension and Outreach Region profiles; access to city government finance data (Iowa Government Finance Initiative (IGFI)); reports and publications on data trends and topics of interest; and educational materials on data measures and their use. The goal of the Indicators Portal is to make it easier to find, use, visualize, and understand information. The Indicators Portal is funded by Iowa State University Extension and Outreach and is available to Iowa State University faculty, staff, students, and the general public.²

Figure 20. Average Farm Size in Acres, Farms with Woman Principal Operator, 2012 Census of Agriculture.

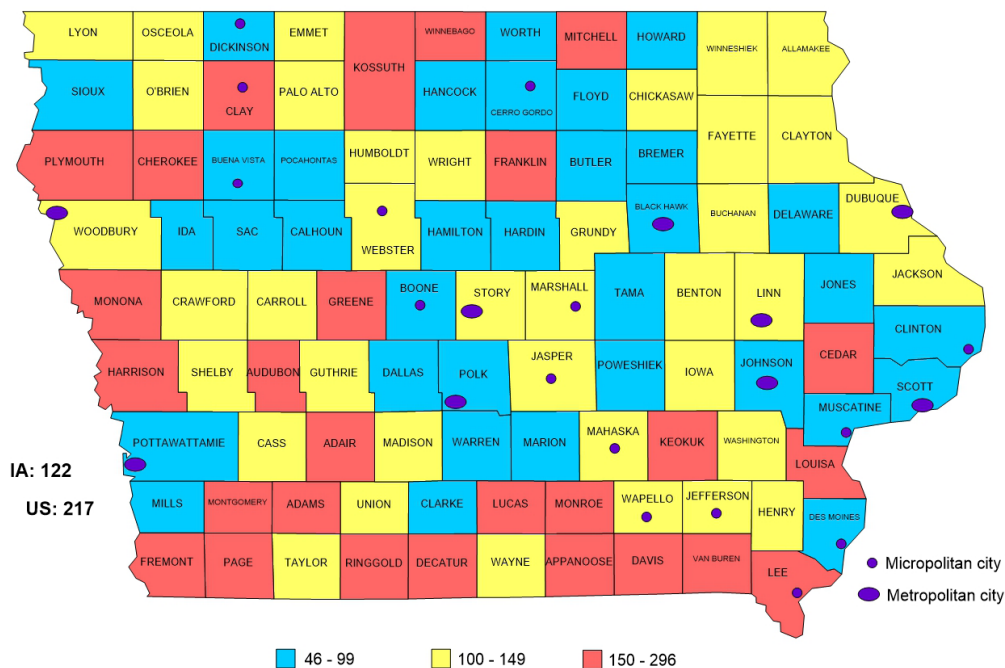


Figure 21. Percent Full Owners, Farms with Woman Principal Operator, 2012 Census of Agriculture.

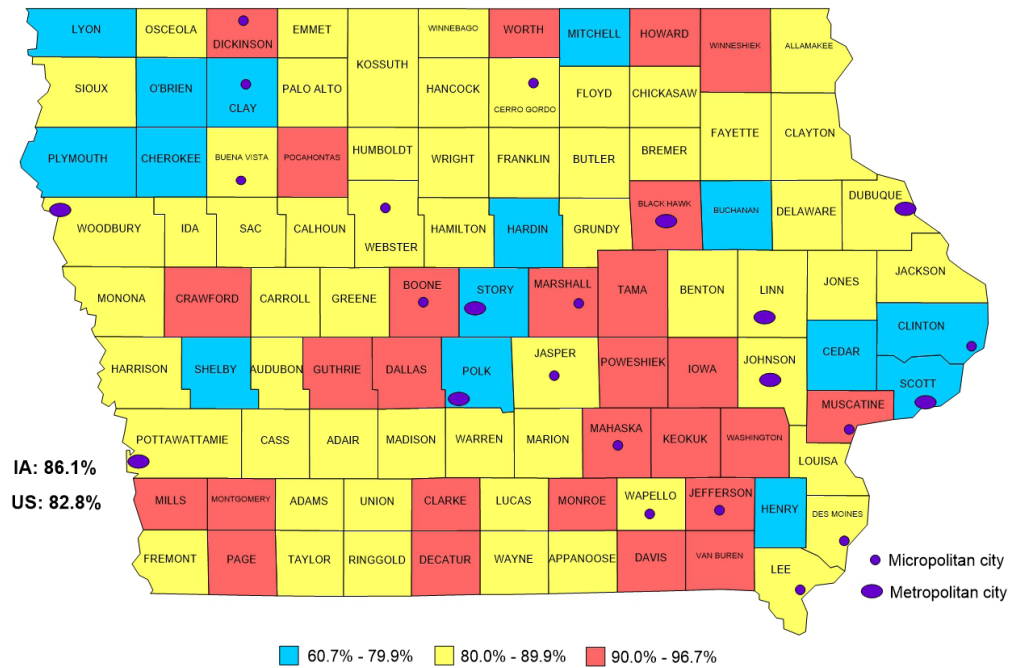
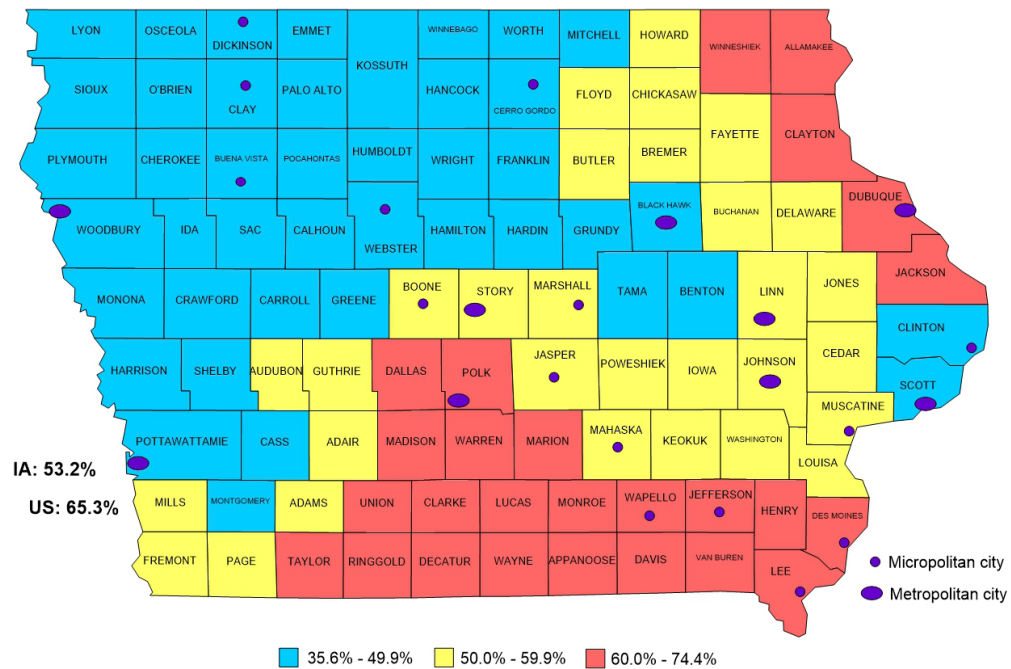


Figure 22. Percent Full Owners, Farms with Male Principal Operator, 2012 Census of Agriculture.



References and Notes:

¹The Census of Agriculture is carried out by the U.S. Department of Agriculture in the years ending in “2” and “7.”
<http://www.agcensus.usda.gov/Publications/2012/>

²Information on the data access, portal, and training project being carried out by Communities and Economic Development Extension and Outreach at Iowa State University can be obtained at: <http://indicators.extension.iastate.edu/>

Links to webinars and materials for Women in Agriculture, the American Community Survey, Income Measures, Poverty Measures, and Youth, Race, and Ethnicity can be found at: <http://indicators.extension.iastate.edu/publications-public>



Thank you

Indicators Portal Page: indicators.extension.iastate.edu

Information email: indicators@iastate.edu

Tweet to: @ISUExtensionIP

Ag Census: <http://www.agcensus.usda.gov/Publications/2012/>

Land Ownership Survey:

<https://store.extension.iastate.edu/Product/Farmland-Ownership-and-Tenure-in-Iowa-2012>

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