

Table 38. Machinery and Equipment on Operation: 2002 and 1997

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Iowa	Adair	Adams	Allamakee	Appanoose	Audubon	Benton	
VALUE OF MACHINERY AND EQUIPMENT								
Estimated market value of all machinery and equipment								
farms, 2002	88,859	845	548	1,045	819	615	1,190	
1997	96,655	834	609	1,027	862	684	1,284	
\$1,000, 2002	8,923,379	91,501	28,443	111,693	32,209	67,229	121,603	
1997	7,694,453	60,281	40,373	68,874	38,050	58,894	114,573	
Average per farm	dollars, 2002	100,422	108,285	51,903	106,884	39,327	109,315	102,187
1997		79,607	72,280	66,293	67,063	44,141	86,102	89,232
Farms by value group:								
\$1 to \$9,999	2002	20,917	249	112	210	364	111	223
1997	15,733	107	87	134	164	116	124	
\$10,000 to \$19,999	2002	9,377	122	93	113	61	52	123
1997	14,528	166	94	106	186	98	172	
\$20,000 to \$29,999	2002	7,835	62	101	156	52	55	109
1997	10,230	100	137	148	116	55	183	
\$30,000 to \$49,999	2002	9,920	75	47	150	145	84	125
1997	12,044	152	98	85	174	88	150	
\$50,000 to \$69,999	2002	7,190	84	91	38	35	54	91
1997	9,003	56	31	168	91	113	68	
\$70,000 to \$99,999	2002	6,898	27	59	106	64	16	95
1997	8,315	110	49	115	61	19	147	
\$100,000 to \$199,999	2002	12,846	105	19	127	62	136	208
1997	15,703	93	62	231	54	81	282	
\$200,000 to \$499,999	2002	11,024	82	20	103	34	85	192
1997	9,977	27	49	36	7	107	136	
\$500,000 or more	2002	2,852	39	6	42	2	22	24
1997	1,122	23	2	4	9	7	22	
SELECTED MACHINERY AND EQUIPMENT								
Tractors	farms, 2002	83,313	785	540	1,002	799	614	1,083
1997	90,063	768	567	980	803	598	1,174	
number, 2002	266,070	2,446	1,337	2,755	1,608	1,868	3,803	
1997	267,556	2,395	1,587	2,975	1,818	1,720	3,646	
Less than 40 horsepower (PTO)	farms, 2002	37,582	373	177	436	258	292	464
1997	40,591	383	208	496	266	223	562	
number, 2002	58,562	560	279	610	412	361	746	
1997	63,530	710	311	811	339	388	791	
40 to 99 horsepower (PTO)	farms, 2002	60,593	575	376	745	523	408	921
1997	66,970	566	349	771	621	404	843	
number, 2002	106,497	1,021	591	1,352	736	735	1,755	
1997	113,867	912	642	1,478	1,042	718	1,538	
100 horsepower (PTO) or more	farms, 2002	49,844	460	326	420	300	350	646
1997	51,763	530	362	426	338	371	700	
number, 2002	101,011	865	467	793	460	772	1,302	
1997	90,159	773	634	686	437	614	1,317	
Grain and bean combines (see text)	farms, 2002	41,026	362	207	253	174	294	530
1997	44,377	470	283	293	276	341	696	
number, 2002	44,901	410	210	277	193	335	554	
1997	48,235	488	319	300	284	365	757	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	2,773	16	19	61	19	11	12
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	2,912	16	19	71	27	11	12	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	27,147	384	235	417	334	152	442
1997	29,761	303	249	551	386	148	431	
number, 2002	31,293	429	273	525	354	190	503	
1997	35,669	392	298	755	530	195	537	
2002 INVENTORY								
Manufactured 1998 to 2002:								
Tractors	farms	10,464	104	38	83	65	94	125
number	15,881	190	44	171	99	102	209	
Less than 40 horsepower (PTO)	farms	2,510	11	2	20	19	14	32
number	2,877	11	(D)	20	19	(D)	33	
40 to 99 horsepower (PTO)	farms	2,558	26	19	31	23	1	42
number	3,118	47	(D)	54	23	(D)	53	
100 horsepower (PTO) or more	farms	6,777	70	20	73	46	79	85
number	9,886	132	22	97	57	86	123	
Grain and bean combines	farms	5,548	87	7	34	12	34	62
number	5,789	89	9	34	12	35	62	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	282	1	-	11	-	1	9
number	292	(D)	-	11	-	(D)	9	
Hay balers	farms	1,842	33	16	38	50	3	15
number	1,886	33	16	38	50	3	15	
Manufactured prior to 1998:								
Tractors	farms	80,693	754	540	983	763	600	1,069
number	250,189	2,256	1,293	2,584	1,509	1,766	3,594	
Less than 40 horsepower (PTO)	farms	35,526	363	176	417	239	278	461
number	55,685	549	(D)	590	393	(D)	713	
40 to 99 horsepower (PTO)	farms	59,045	552	360	733	513	407	902
number	103,379	974	(D)	1,298	713	(D)	1,702	
100 horsepower (PTO) or more	farms	47,796	437	325	384	283	327	621
number	91,125	733	445	696	403	686	1,179	
Grain and bean combines	farms	35,853	278	200	219	165	262	468
number	39,112	321	201	243	181	300	492	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Black Hawk	Boone	Bremer	Buchanan	Buena Vista	Butler	Calhoun	
VALUE OF MACHINERY AND EQUIPMENT								
Estimated market value of all machinery and equipment								
..... farms, 2002	929	828	961	1,053	826	1,073	713	
..... farms, 1997	1,061	919	1,048	1,205	903	1,157	828	
..... \$1,000, 2002	99,112	106,611	116,666	110,766	103,061	88,474	105,822	
..... farms, 1997	88,165	88,966	79,033	91,307	91,222	76,953	95,655	
Average per farm	dollars, 2002	106,687	128,757	121,400	105,191	124,771	82,455	148,418
..... farms, 1997	83,096	96,807	75,413	75,773	101,021	66,511	115,525	
Farms by value group:								
\$1 to \$9,999	2002	214	225	236	167	130	243	151
..... farms, 1997	162	210	162	164	72	175	43	
\$10,000 to \$19,999	2002	51	75	92	153	101	101	15
..... farms, 1997	156	81	182	231	64	178	63	
\$20,000 to \$29,999	2002	84	19	78	49	55	106	46
..... farms, 1997	138	60	192	69	106	203	81	
\$30,000 to \$49,999	2002	147	122	79	167	90	140	54
..... farms, 1997	128	74	76	232	114	135	52	
\$50,000 to \$69,999	2002	89	63	83	132	51	132	12
..... farms, 1997	52	157	118	68	87	95	86	
\$70,000 to \$99,999	2002	62	48	88	65	78	99	57
..... farms, 1997	88	57	57	141	78	129	89	
\$100,000 to \$199,999	2002	132	87	99	130	137	120	201
..... farms, 1997	214	112	122	174	258	155	272	
\$200,000 to \$499,999	2002	103	159	170	148	113	138	
..... farms, 1997	115	144	129	117	116	80	134	
\$500,000 or more	2002	47	30	36	42	33	19	
..... farms, 1997	8	24	10	9	8	7	8	
SELECTED MACHINERY AND EQUIPMENT								
Tractors	farms, 2002	902	794	958	1,027	706	922	703
..... farms, 1997	1,042	857	983	1,040	856	1,078	788	
..... number, 2002	3,033	2,597	3,254	3,523	2,528	3,389	2,636	
..... farms, 1997	2,833	2,554	2,865	3,262	2,853	3,149	2,665	
Less than 40 horsepower (PTO)	farms, 2002	396	439	494	606	340	497	433
..... farms, 1997	511	434	530	467	380	489	381	
..... number, 2002	663	634	811	949	523	879	790	
..... farms, 1997	738	754	792	745	633	767	696	
40 to 99 horsepower (PTO)	farms, 2002	765	521	748	785	532	655	462
..... farms, 1997	724	558	784	818	640	845	535	
..... number, 2002	1,353	865	1,531	1,359	865	1,295	755	
..... farms, 1997	1,061	840	1,316	1,374	1,023	1,440	895	
100 horsepower (PTO) or more	farms, 2002	529	418	497	675	572	637	524
..... farms, 1997	584	504	494	703	629	639	531	
..... number, 2002	1,017	1,098	912	1,215	1,140	1,215	1,091	
..... farms, 1997	1,034	960	757	1,143	1,197	942	1,074	
Grain and bean combines (see text)	farms, 2002	447	409	417	454	448	505	429
..... farms, 1997	501	415	533	595	566	554	553	
..... number, 2002	464	456	432	526	495	549	456	
..... farms, 1997	511	463	541	627	636	602	653	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-
..... farms, 1997	-	-	-	-	-	-	-	
..... number, 2002	-	-	-	-	-	-	-	
..... farms, 1997	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	33	5	38	77	34	-	49
..... farms, 1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... number, 2002	34	6	38	77	43	-	49	
..... farms, 1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	341	227	279	411	127	369	231
..... farms, 1997	236	272	362	406	177	460	138	
..... number, 2002	398	249	352	437	171	435	233	
..... farms, 1997	277	298	400	455	201	510	140	
2002 INVENTORY								
Manufactured 1998 to 2002:								
Tractors	farms	145	108	136	105	97	66	77
..... farms	number	239	168	182	145	173	84	92
Less than 40 horsepower (PTO)	farms	27	15	7	5	21	-	21
..... farms	number	27	17	7	5	26	-	23
40 to 99 horsepower (PTO)	farms	53	15	44	15	4	13	11
..... farms	number	53	17	45	15	5	20	13
100 horsepower (PTO) or more	farms	96	81	94	91	81	57	49
..... farms	number	159	134	130	125	142	64	56
Grain and bean combines	farms	104	107	61	42	76	72	45
..... farms	number	107	107	61	47	77	82	46
Cotton pickers and strippers	farms	-	-	-	-	-	-	-
..... farms	number	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms	8	1	-	-	-	-	-
..... farms	number	8	(D)	-	-	-	-	-
Hay balers	farms	1	20	9	1	3	1	3
..... farms	number	(D)	20	9	(D)	3	(D)	3
Manufactured prior to 1998:								
Tractors	farms	859	780	944	1,011	686	921	702
..... farms	number	2,794	2,429	3,072	3,378	2,355	3,305	2,544
Less than 40 horsepower (PTO)	farms	370	425	491	601	330	497	420
..... farms	number	636	617	804	944	497	879	767
40 to 99 horsepower (PTO)	farms	715	515	748	770	529	652	454
..... farms	number	1,300	848	1,486	1,344	860	1,275	742
100 horsepower (PTO) or more	farms	492	414	448	665	551	623	521
..... farms	number	858	964	782	1,090	998	1,151	1,035
Grain and bean combines	farms	343	304	356	415	386	436	386
..... farms	number	357	349	371	479	418	467	410

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Carroll	Cass	Cedar	Cerro Gordo	Cherokee	Chickasaw	Clarke	
VALUE OF MACHINERY AND EQUIPMENT								
Estimated market value of all machinery and equipment								
farms, 2002	982	708	944	780	837	899	713	
1997	1,150	851	1,020	881	922	977	737	
\$1,000, 2002	126,317	83,544	98,771	102,607	83,677	101,855	36,688	
1997	118,076	62,342	101,174	83,416	84,206	78,420	30,562	
Average per farm	dollars, 2002	128,632	118,000	104,630	131,548	99,972	51,455	
1997	102,675	73,258	99,190	94,683	91,330	80,267	41,469	
Farms by value group:								
\$1 to \$9,999	2002	97	156	182	179	164	150	243
1997	84	219	165	110	87	252	139	
\$10,000 to \$19,999	2002	66	102	123	98	61	25	138
1997	111	77	108	132	66	79	189	
\$20,000 to \$29,999	2002	93	62	36	63	40	76	
1997	85	114	73	79	72	69	35	
\$30,000 to \$49,999	2002	144	33	108	31	114	117	35
1997	159	73	129	87	187	155	133	
\$50,000 to \$69,999	2002	54	77	95	79	76	115	71
1997	157	76	123	60	83	103	70	
\$70,000 to \$99,999	2002	105	53	106	39	51	98	57
1997	94	47	57	101	57	41	14	
\$100,000 to \$199,999	2002	215	101	112	133	178	209	65
1997	303	146	192	212	173	192	74	
\$200,000 to \$499,999	2002	161	92	159	114	115	125	19
1997	143	94	158	82	134	62	20	
\$500,000 or more	2002	47	32	23	44	14	20	9
1997	14	5	15	18	6	24	1	
SELECTED MACHINERY AND EQUIPMENT								
Tractors	farms, 2002	964	699	885	755	718	896	696
1997	1,060	758	956	803	873	895	679	
number, 2002	3,787	2,415	2,776	2,287	2,833	3,112	1,552	
1997	3,803	2,320	3,199	2,351	2,759	2,832	1,881	
Less than 40 horsepower (PTO)	farms, 2002	460	392	525	435	315	540	355
1997	467	310	372	389	345	402	339	
number, 2002	759	658	628	565	650	848	392	
1997	756	424	552	575	611	607	617	
40 to 99 horsepower (PTO)	farms, 2002	727	518	592	459	621	677	434
1997	842	622	785	576	679	702	551	
number, 2002	1,378	926	1,119	675	1,045	1,163	683	
1997	1,660	1,069	1,582	944	1,109	1,325	860	
100 horsepower (PTO) or more	farms, 2002	741	435	524	449	586	506	300
1997	814	445	594	485	620	502	279	
number, 2002	1,650	831	1,029	1,047	1,138	1,101	477	
1997	1,387	827	1,065	832	1,039	900	404	
Grain and bean combines (see text)	farms, 2002	677	381	497	524	425	466	181
1997	701	427	540	454	543	516	253	
number, 2002	735	392	515	562	486	493	184	
1997	743	458	563	506	579	540	264	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	55	7	3	4	91	37	19
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	55	9	3	4	92	37	19	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	326	314	242	253	170	426	300
1997	301	310	345	183	292	423	308	
number, 2002	358	350	296	264	192	477	333	
1997	346	372	402	196	334	493	380	
2002 INVENTORY								
Manufactured 1998 to 2002:								
Tractors	farms	140	81	194	120	87	84	51
number	178	152	248	229	124	181	77	
Less than 40 horsepower (PTO)	farms	17	5	151	20	-	16	14
number	19	5	152	29	-	30	14	
40 to 99 horsepower (PTO)	farms	47	11	21	4	29	14	19
number	49	11	42	5	30	16	28	
100 horsepower (PTO) or more	farms	95	69	34	111	60	59	35
number	110	136	54	195	94	135	35	
Grain and bean combines	farms	79	61	102	131	44	42	5
number	80	62	105	133	45	43	5	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms	1	2	-	-	-	-	-
number	(D)	(D)	-	-	-	-	-	-
Hay balers	farms	11	17	30	9	36	3	41
number	11	18	30	10	36	3	41	
Manufactured prior to 1998:								
Tractors	farms	953	685	769	711	703	886	695
number	3,609	2,263	2,528	2,058	2,709	2,931	1,475	
Less than 40 horsepower (PTO)	farms	448	388	383	415	315	538	342
number	740	653	476	536	650	818	378	
40 to 99 horsepower (PTO)	farms	712	516	591	455	608	666	433
number	1,329	915	1,077	670	1,015	1,147	655	
100 horsepower (PTO) or more	farms	727	420	522	379	570	502	290
number	1,540	695	975	852	1,044	966	442	
Grain and bean combines	farms	599	320	396	395	383	425	178
number	655	330	410	429	441	450	179	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Clay	Clayton	Clinton	Crawford	Dallas	Davis	Decatur	
VALUE OF MACHINERY AND EQUIPMENT								
Estimated market value of all machinery and equipment								
farms, 2002	673	1,584	1,198	887	922	991	777	
1997	703	1,740	1,353	1,171	998	962	804	
\$1,000, 2002	81,400	145,467	116,624	107,201	76,735	44,213	64,605	
1997	78,379	114,258	90,637	103,306	83,032	35,891	34,252	
Average per farm	dollars, 2002	120,950	91,835	97,349	120,858	83,227	44,614	83,147
1997	111,492	65,666	66,990	88,220	83,198	37,309	42,602	
Farms by value group:								
\$1 to \$9,999	2002	114	330	223	243	363	301	271
1997	106	338	269	249	256	296	232	
\$10,000 to \$19,999	2002	83	190	91	65	87	162	113
1997	68	217	190	105	106	235	144	
\$20,000 to \$29,999	2002	27	144	152	51	85	135	28
1997	23	172	168	77	108	67	189	
\$30,000 to \$49,999	2002	59	192	155	99	91	153	74
1997	87	323	238	135	120	129	66	
\$50,000 to \$69,999	2002	41	136	116	55	61	86	60
1997	28	166	114	95	72	103	52	
\$70,000 to \$99,999	2002	39	198	97	120	25	31	63
1997	74	142	45	139	84	37	45	
\$100,000 to \$199,999	2002	126	218	167	119	89	70	46
1997	180	231	203	233	124	78	40	
\$200,000 to \$499,999	2002	170	122	167	79	91	50	95
1997	131	146	122	122	115	15	36	
\$500,000 or more	2002	14	5	30	56	30	2	
1997	6	5	4	16	13	3	-	
SELECTED MACHINERY AND EQUIPMENT								
Tractors	farms, 2002	591	1,530	1,139	794	878	955	725
1997	676	1,656	1,253	1,119	854	854	756	
number, 2002	1,918	4,730	4,025	2,365	2,594	2,130	1,829	
1997	2,238	4,999	3,751	3,352	2,339	1,828	1,632	
Less than 40 horsepower (PTO)	farms, 2002	278	808	389	201	424	328	322
1997	256	645	530	434	393	366	339	
number, 2002	418	1,289	529	337	706	445	564	
1997	419	1,180	798	667	615	449	510	
40 to 99 horsepower (PTO)	farms, 2002	423	1,028	1,000	442	638	748	453
1997	506	1,342	1,013	802	615	561	529	
number, 2002	671	1,854	2,074	775	917	944	705	
1997	812	2,352	1,842	1,471	909	813	789	
100 horsepower (PTO) or more	farms, 2002	443	800	671	672	413	464	318
1997	504	914	662	606	467	342	249	
number, 2002	829	1,587	1,422	1,253	971	741	560	
1997	1,007	1,467	1,111	1,214	815	566	333	
Grain and bean combines (see text)	farms, 2002	390	483	536	471	326	229	143
1997	461	596	629	532	373	314	129	
number, 2002	428	543	571	492	334	241	166	
1997	518	644	674	560	406	316	129	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	24	44	66	38	14	10	30
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	33	45	76	38	14	10	30	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	146	703	410	207	217	469	341
1997	280	803	399	355	194	474	288	
number, 2002	148	912	461	282	227	576	408	
1997	300	1,069	444	455	257	589	321	
2002 INVENTORY								
Manufactured 1998 to 2002:								
Tractors	farms	73	134	111	145	91	57	56
number	114	155	182	192	220	118	73	
Less than 40 horsepower (PTO)	farms	33	58	50	27	23	11	-
number	34	58	52	27	34	11	-	
40 to 99 horsepower (PTO)	farms	25	20	45	22	28	14	46
number	25	21	52	22	38	14	46	
100 horsepower (PTO) or more	farms	39	58	58	118	59	43	19
number	55	76	78	143	148	93	27	
Grain and bean combines	farms	90	34	58	104	57	35	14
number	91	34	61	107	59	36	15	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	9	4	2	1	1	2	11
number	18	4	(D)	(D)	(D)	(D)	(D)	
Hay balers	farms	22	23	3	47	1	68	115
number	22	23	3	47	(D)	68	116	
Manufactured prior to 1998:								
Tractors	farms	558	1,523	1,128	788	852	933	703
number	1,804	4,575	3,843	2,173	2,374	2,012	1,756	
Less than 40 horsepower (PTO)	farms	245	751	351	175	413	317	322
number	384	1,231	477	310	672	434	564	
40 to 99 horsepower (PTO)	farms	399	1,015	988	437	616	735	409
number	646	1,833	2,022	753	879	930	659	
100 horsepower (PTO) or more	farms	430	798	649	667	382	444	306
number	774	1,511	1,344	1,110	823	648	533	
Grain and bean combines	farms	301	451	482	372	275	194	131
number	337	509	510	385	275	205	151	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Delaware	Des Moines	Dickinson	Dubuque	Emmet	Fayette	Floyd	Franklin	
VALUE OF MACHINERY AND EQUIPMENT									
Estimated market value of all machinery and equipment									
farms, 2002	1,251	657	478	1,457	509	1,321	870	823	
1997	1,318	696	550	1,665	555	1,368	910	898	
\$1,000, 2002	144,096	58,424	54,809	129,277	59,837	153,954	97,894	95,145	
1997	117,811	47,238	43,570	111,409	56,352	113,883	80,700	93,155	
Average per farm	dollars, 2002	115,184	88,925	114,663	88,728	117,558	112,522	115,608	
1997	89,386	67,870	79,218	66,912	101,536	83,248	88,682	103,736	
Farms by value group:									
\$1 to \$9,999	2002	212	85	86	382	31	297	161	159
1997	115	190	61	269	39	181	168	65	
\$10,000 to \$19,999	2002	163	122	41	124	48	164	85	136
1997	150	102	112	216	86	139	96	217	
\$20,000 to \$29,999	2002	86	73	40	146	32	102	69	69
1997	84	53	60	166	64	115	103	72	
\$30,000 to \$49,999	2002	109	62	80	119	133	122	153	44
1997	241	52	69	167	63	167	117	67	
\$50,000 to \$69,999	2002	102	64	20	173	37	105	66	80
1997	138	64	53	322	67	217	51	62	
\$70,000 to \$99,999	2002	81	56	17	111	50	137	86	65
1997	158	83	35	171	46	164	33	94	
\$100,000 to \$199,999	2002	309	115	95	206	63	154	114	97
1997	256	72	100	254	94	251	221	192	
\$200,000 to \$499,999	2002	140	58	87	158	97	169	109	135
1997	167	77	52	89	83	110	119	104	
\$500,000 or more	2002	49	22	12	38	18	27	38	
1997	9	3	8	11	13	24	2	25	
SELECTED MACHINERY AND EQUIPMENT									
Tractors	farms, 2002	1,138	654	475	1,434	487	1,263	783	756
1997	1,228	640	524	1,553	507	1,321	828	853	
number, 2002	4,201	1,989	1,724	4,658	1,828	4,126	3,077	3,017	
1997	3,810	1,820	1,602	4,567	1,623	3,997	2,643	2,756	
Less than 40 horsepower (PTO)	farms, 2002	479	176	227	519	194	657	478	354
1997	467	293	238	571	258	605	436	423	
number, 2002	677	302	356	643	354	1,039	756	830	
1997	650	389	451	816	384	889	652	614	
40 to 99 horsepower (PTO)	farms, 2002	829	561	397	1,148	366	836	610	566
1997	1,034	448	358	1,254	399	1,023	608	577	
number, 2002	1,828	972	592	2,277	652	1,531	1,206	1,055	
1997	1,807	786	548	2,411	(D)	1,888	(D)	1,015	
100 horsepower (PTO) or more	farms, 2002	804	358	360	875	393	718	481	530
1997	818	363	333	816	341	698	568	625	
number, 2002	1,696	715	776	1,738	822	1,556	1,115	1,132	
1997	1,353	645	603	1,340	(D)	1,220	(D)	1,127	
Grain and bean combines (see text)	farms, 2002	626	375	325	380	422	590	448	469
1997	658	344	332	545	291	571	378	550	
number, 2002	659	397	351	445	429	659	543	512	
1997	720	357	385	587	314	597	417	585	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	52	-	38	77	13	38	25	29
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	52	-	42	77	13	38	25	29	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	438	214	74	773	83	369	293	205
1997	654	175	108	826	129	586	251	243	
number, 2002	511	234	75	964	91	428	327	215	
1997	843	214	123	1,052	145	737	288	297	
2002 INVENTORY									
Manufactured 1998 to 2002:									
Tractors	farms	130	71	23	112	48	197	75	89
number	329	136	26	144	51	248	160	136	
Less than 40 horsepower (PTO)	farms	7	20	-	77	-	23	18	4
number	9	36	-	86	-	23	18	4	
40 to 99 horsepower (PTO)	farms	40	28	10	8	7	92	5	21
number	155	28	10	10	7	92	6	22	
100 horsepower (PTO) or more	farms	102	52	13	32	41	95	55	77
number	165	72	16	48	44	133	136	110	
Grain and bean combines	farms	89	26	13	34	52	36	54	111
number	89	26	13	34	52	38	64	115	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	14	-	-	14	-	8	-	1
number	14	-	-	14	-	8	-	(D)	
Hay balers	farms	36	7	1	88	1	11	-	22
number	36	7	(D)	88	(D)	12	-	23	
Manufactured prior to 1998:									
Tractors	farms	1,126	654	466	1,391	486	1,179	780	752
number	3,872	1,853	1,698	4,514	1,777	3,878	2,917	2,881	
Less than 40 horsepower (PTO)	farms	473	164	227	453	194	643	460	352
number	668	266	356	557	354	1,016	738	826	
40 to 99 horsepower (PTO)	farms	809	561	388	1,146	366	754	608	547
number	1,673	944	582	2,267	645	1,439	1,200	1,033	
100 horsepower (PTO) or more	farms	774	347	359	871	383	710	469	513
number	1,531	643	760	1,690	778	1,423	979	1,022	
Grain and bean combines	farms	537	350	312	347	374	555	409	362
number	570	371	338	411	377	621	479	397	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Fremont	Greene	Grundy	Guthrie	Hamilton	Hancock	Hardin	Harrison	
VALUE OF MACHINERY AND EQUIPMENT									
Estimated market value of all machinery and equipment									
farms, 2002	519	729	716	846	781	827	833	809	
1997	603	802	792	911	831	895	903	942	
\$1,000, 2002	58,415	96,525	108,163	73,882	128,054	92,210	108,039	84,801	
1997	56,429	75,088	96,805	59,443	99,691	93,169	88,481	95,202	
Average per farm	dollars, 2002	112,553	132,408	151,066	87,331	163,962	111,500	129,699	104,822
1997	93,581	93,626	122,229	65,250	119,965	104,099	97,985	101,064	
Farms by value group:									
\$1 to \$9,999	2002	159	198	93	368	169	166	255	177
1997	51	94	95	180	99	87	120	124	
\$10,000 to \$19,999	2002	15	44	54	75	62	72	79	113
1997	60	89	94	122	66	86	94	93	
\$20,000 to \$29,999	2002	59	58	63	64	56	27	26	53
1997	78	59	9	190	57	64	142	76	
\$30,000 to \$49,999	2002	22	81	76	74	36	72	67	50
1997	112	120	75	97	102	82	77	66	
\$50,000 to \$69,999	2002	38	26	28	49	73	76	77	116
1997	88	129	98	99	69	86	71	143	
\$70,000 to \$99,999	2002	32	83	128	33	81	119	38	68
1997	25	71	60	60	81	130	68	171	
\$100,000 to \$199,999	2002	98	73	119	84	116	175	118	106
1997	97	87	197	87	194	237	178	128	
\$200,000 to \$499,999	2002	69	96	111	77	104	90	145	106
1997	81	145	133	63	137	109	140	118	
\$500,000 or more	2002	27	70	44	22	30	28	20	
1997	11	8	31	13	26	14	16	23	
SELECTED MACHINERY AND EQUIPMENT									
Tractors	farms, 2002	501	726	682	809	771	775	787	740
1997	554	725	768	864	771	829	818	898	
number, 2002	1,986	2,699	2,277	2,127	2,601	3,005	2,723	2,202	
1997	1,744	2,596	2,336	2,340	2,378	3,052	2,898	2,634	
Less than 40 horsepower (PTO)	farms, 2002	99	437	283	417	409	461	334	275
1997	202	254	294	399	319	490	391	350	
number, 2002	126	616	391	507	651	722	519	337	
1997	341	537	381	575	467	804	584	542	
40 to 99 horsepower (PTO)	farms, 2002	338	576	526	457	497	644	599	453
1997	384	523	552	682	505	620	570	645	
number, 2002	1,018	1,062	842	880	823	1,035	1,069	963	
1997	735	1,020	988	1,057	880	957	1,290	(D)	
100 horsepower (PTO) or more	farms, 2002	371	459	464	378	535	537	507	450
1997	348	560	489	431	564	634	580	605	
number, 2002	842	1,021	1,044	740	1,127	1,248	1,135	902	
1997	668	1,039	967	708	1,031	1,291	1,024	(D)	
Grain and bean combines (see text)	farms, 2002	308	557	446	344	430	597	434	454
1997	324	440	473	411	443	648	525	511	
number, 2002	387	599	475	389	483	671	485	520	
1997	392	449	535	455	483	669	581	559	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	21	19	11	12	27	11	4	22
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	21	19	11	12	27	11	4	22	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	80	86	96	142	101	282	109	196
1997	107	147	189	290	77	236	189	182	
number, 2002	85	97	110	149	126	298	134	229	
1997	128	157	214	368	79	275	218	209	
2002 INVENTORY									
Manufactured 1998 to 2002:									
Tractors	farms	102	89	137	58	143	118	107	220
number	126	178	215	121	251	147	170	295	
Less than 40 horsepower (PTO)	farms	7	1	22	1	33	10	5	110
number	9	(D)	22	(D)	36	10	9	121	
40 to 99 horsepower (PTO)	farms	13	14	39	13	34	3	29	25
number	13	(D)	41	(D)	56	4	39	27	
100 horsepower (PTO) or more	farms	93	88	101	54	90	108	84	109
number	104	162	152	107	159	133	122	147	
Grain and bean combines	farms	57	79	100	28	69	37	98	78
number	59	93	112	30	75	37	99	91	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	-	-	-	-	-	-	1	8
number	-	-	-	-	-	-	-	(D)	8
Hay balers	farms	6	11	-	12	-	-	15	42
number	6	11	-	12	-	-	-	15	42
Manufactured prior to 1998:									
Tractors	farms	479	715	628	801	740	773	762	631
number	1,860	2,521	2,062	2,006	2,350	2,858	2,553	1,907	
Less than 40 horsepower (PTO)	farms	94	437	262	416	389	460	331	165
number	117	(D)	369	(D)	615	712	510	216	
40 to 99 horsepower (PTO)	farms	331	575	490	455	468	643	583	441
number	1,005	(D)	801	(D)	767	1,031	1,030	936	
100 horsepower (PTO) or more	farms	347	436	437	368	487	507	487	432
number	738	859	892	633	968	1,115	1,013	755	
Grain and bean combines	farms	256	490	354	322	366	564	342	405
number	328	506	363	359	408	634	386	429	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Henry	Howard	Humboldt	Ida	Iowa	Jackson	Jasper	Jefferson
VALUE OF MACHINERY AND EQUIPMENT								
Estimated market value of all machinery and equipment								
farms, 2002	812	872	605	604	983	1,335	1,193	768
1997	900	918	628	670	1,049	1,353	1,274	831
\$1,000, 2002	67,355	87,142	71,706	61,740	98,088	89,171	116,645	54,364
1997	65,045	67,157	87,907	62,810	74,723	74,458	91,021	40,560
Average per farm	82,950	99,933	118,522	102,219	99,784	66,794	97,775	70,786
1997	72,272	73,155	139,979	93,747	71,233	55,032	71,445	48,809
Farms by value group:								
\$1 to \$9,999	169	254	116	143	182	377	270	235
1997	196	137	37	110	201	240	208	253
\$10,000 to \$19,999	90	93	82	16	160	176	119	79
1997	175	145	67	55	142	333	228	168
\$20,000 to \$29,999	76	92	22	47	102	188	115	127
1997	138	121	17	72	120	198	126	42
\$30,000 to \$49,999	146	79	43	81	114	165	179	84
1997	84	149	48	41	157	156	212	90
\$50,000 to \$69,999	78	65	66	80	117	86	64	94
1997	32	88	45	72	103	52	143	79
\$70,000 to \$99,999	58	43	20	44	42	66	53	40
1997	20	62	58	68	72	94	41	92
\$100,000 to \$199,999	114	102	136	101	144	155	192	27
1997	128	136	194	138	135	186	197	80
\$200,000 to \$499,999	65	126	87	81	85	100	162	64
1997	122	65	140	106	113	93	111	26
\$500,000 or more	16	18	33	11	37	22	39	18
1997	5	15	22	8	6	1	8	1
SELECTED MACHINERY AND EQUIPMENT								
Tractors								
farms, 2002	763	763	570	579	922	1,261	1,139	684
1997	837	859	594	599	1,005	1,258	1,198	802
number, 2002	2,107	2,804	1,781	1,789	2,687	3,888	4,070	2,067
1997	2,062	2,772	2,020	1,847	3,165	3,607	3,171	1,897
Less than 40 horsepower (PTO)								
farms, 2002	360	300	283	178	402	584	521	449
1997	334	464	306	167	489	567	479	371
number, 2002	504	424	462	251	564	1,005	918	576
1997	534	627	489	275	698	953	749	457
40 to 99 horsepower (PTO)								
farms, 2002	642	654	380	428	604	874	956	534
1997	590	621	390	490	828	1,010	918	532
number, 2002	932	1,302	572	670	1,052	1,625	1,744	797
1997	836	1,227	(D)	766	1,465	1,765	1,390	843
100 horsepower (PTO) or more								
farms, 2002	365	461	381	388	533	679	704	340
1997	399	519	475	412	558	553	675	367
number, 2002	671	1,078	747	868	1,071	1,258	1,408	694
1997	692	918	(D)	806	1,002	889	1,032	597
Grain and bean combines (see text)								
farms, 2002	309	375	349	293	440	341	577	259
1997	367	434	403	363	446	354	612	213
number, 2002	353	444	414	303	481	358	614	266
1997	393	528	445	388	485	355	671	241
Cotton pickers and strippers								
farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)								
farms, 2002	10	39	28	47	33	103	11	13
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	10	39	28	48	33	105	12	13
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hay balers								
farms, 2002	121	377	46	183	370	601	365	271
1997	197	374	87	71	403	524	435	289
number, 2002	162	467	56	193	423	691	465	308
1997	249	438	102	86	489	624	481	369
2002 INVENTORY								
Manufactured 1998 to 2002:								
Tractors								
farms	151	67	96	45	99	164	166	49
number	251	91	127	88	231	202	201	57
Less than 40 horsepower (PTO)								
farms	30	13	41	3	23	55	41	9
number	54	13	(D)	10	37	55	41	9
40 to 99 horsepower (PTO)								
farms	80	8	2	13	42	64	48	14
number	80	10	(D)	13	68	79	48	14
100 horsepower (PTO) or more								
farms	62	51	61	35	72	50	80	28
number	117	68	84	65	126	68	112	34
Grain and bean combines								
farms	36	48	41	21	44	18	61	19
number	37	52	41	25	46	20	63	20
Cotton pickers and strippers								
farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)								
farms	-	2	17	1	2	18	1	-
number	-	(D)	17	(D)	(D)	18	(D)	-
Hay balers								
farms	2	4	-	4	6	69	24	20
number	(D)	4	-	4	6	69	24	20
Manufactured prior to 1998:								
Tractors								
farms	701	735	561	577	911	1,238	1,102	676
number	1,856	2,713	1,654	1,701	2,456	3,686	3,869	2,010
Less than 40 horsepower (PTO)								
farms	330	287	264	177	379	540	493	440
number	450	411	(D)	241	527	950	877	567
40 to 99 horsepower (PTO)								
farms	580	651	378	419	577	871	918	534
number	852	1,292	(D)	657	984	1,546	1,696	783
100 horsepower (PTO) or more								
farms	339	446	352	377	511	663	676	340
number	554	1,010	663	803	945	1,190	1,296	660
Grain and bean combines								
farms	276	341	310	274	400	325	517	241
number	316	392	373	278	435	338	551	246

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Johnson	Jones	Keokuk	Kossuth	Lee	Linn	Louisa	Lucas	
VALUE OF MACHINERY AND EQUIPMENT									
Estimated market value of all machinery and equipment									
farms, 2002	1,211	994	1,093	1,346	873	1,399	593	726	
1997	1,364	1,098	1,042	1,471	934	1,610	641	770	
\$1,000, 2002	87,468	96,206	115,202	174,212	62,967	113,056	57,963	29,525	
1997	73,195	83,421	73,808	165,227	63,204	92,693	54,823	32,947	
Average per farm	dollars, 2002	72,228	96,787	105,400	129,429	72,127	80,812	97,746	40,668
1997	53,662	75,976	70,833	112,323	67,670	57,573	85,527	42,788	
Farms by value group:									
\$1 to \$9,999	2002	253	204	331	259	197	373	139	365
1997	323	202	179	140	126	419	92	192	
\$10,000 to \$19,999	2002	151	139	110	20	135	151	78	63
1997	277	126	224	146	223	286	129	154	
\$20,000 to \$29,999	2002	135	144	75	110	89	107	45	52
1997	134	91	159	93	186	154	79	88	
\$30,000 to \$49,999	2002	175	87	137	93	115	127	61	94
1997	158	148	49	174	68	298	61	100	
\$50,000 to \$69,999	2002	122	62	119	114	90	180	61	46
1997	119	107	112	158	56	90	29	66	
\$70,000 to \$99,999	2002	119	35	10	143	51	86	56	25
1997	73	118	51	127	123	136	39	92	
\$100,000 to \$199,999	2002	108	151	105	339	111	251	76	47
1997	227	214	152	341	39	91	156	43	
\$200,000 to \$499,999	2002	136	150	165	206	71	44	30	
1997	48	72	112	251	106	127	52	34	
\$500,000 or more	2002	12	22	41	62	14	33	33	
1997	5	20	4	41	7	10	4	1	
SELECTED MACHINERY AND EQUIPMENT									
Tractors	farms, 2002	1,099	944	1,002	1,266	834	1,287	565	644
1997	1,190	988	1,008	1,402	919	1,526	608	684	
number, 2002	3,413	3,107	2,513	5,125	2,390	3,843	1,654	1,655	
1997	3,818	3,438	2,528	4,982	2,636	4,153	2,039	1,593	
Less than 40 horsepower (PTO)	farms, 2002	547	448	284	565	347	583	257	399
1997	643	429	352	647	422	801	333	304	
number, 2002	747	763	414	936	626	925	385	725	
1997	1,061	679	552	1,055	687	1,374	690	451	
40 to 99 horsepower (PTO)	farms, 2002	795	670	781	1,018	569	914	405	304
1997	935	835	657	1,122	736	1,232	463	486	
number, 2002	1,706	1,367	1,032	1,815	968	1,704	521	488	
1997	1,856	1,747	(D)	1,901	1,229	1,952	745	(D)	
100 horsepower (PTO) or more	farms, 2002	571	538	473	1,023	400	695	354	297
1997	537	569	550	1,071	424	549	331	274	
number, 2002	960	977	1,067	2,374	796	1,214	748	442	
1997	901	1,012	(D)	2,026	720	827	604	(D)	
Grain and bean combines (see text)	farms, 2002	476	418	414	938	384	589	257	108
1997	412	505	443	975	393	532	277	168	
number, 2002	508	450	516	1,008	426	643	282	130	
1997	480	570	503	1,105	419	566	322	185	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	18	8	7	37	5	13	10	49
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	18	8	7	47	6	13	10	49	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	438	310	288	203	311	512	122	415
1997	467	435	224	282	307	466	157	337	
number, 2002	546	385	337	254	421	563	122	447	
1997	568	537	275	332	368	537	184	360	
2002 INVENTORY									
Manufactured 1998 to 2002:									
Tractors	farms	194	133	133	174	126	58	33	42
number	212	199	210	277	176	100	50	45	
Less than 40 horsepower (PTO)	farms	146	70	19	24	54	21	13	9
number	146	79	20	24	70	21	13	9	
40 to 99 horsepower (PTO)	farms	11	27	31	16	44	21	14	15
number	11	38	40	18	56	30	14	15	
100 horsepower (PTO) or more	farms	38	75	105	151	41	37	18	19
number	55	82	150	235	50	49	23	21	
Grain and bean combines	farms	24	65	60	105	18	72	72	2
number	26	67	60	113	21	86	72	(D)	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	-	-	1	-	-	-	-	12
number	-	-	(D)	-	-	-	-	-	12
Hay balers	farms	25	23	46	12	35	12	10	4
number	25	25	46	22	35	12	10	4	
Manufactured prior to 1998:									
Tractors	farms	953	899	990	1,240	789	1,276	553	644
number	3,201	2,908	2,303	4,848	2,214	3,743	1,604	1,610	
Less than 40 horsepower (PTO)	farms	401	394	283	541	303	573	244	390
number	601	684	394	912	556	904	372	716	
40 to 99 horsepower (PTO)	farms	784	651	761	1,005	549	893	392	296
number	1,695	1,329	992	1,797	912	1,674	507	473	
100 horsepower (PTO) or more	farms	569	517	451	998	395	684	352	297
number	905	895	917	2,139	746	1,165	725	421	
Grain and bean combines	farms	454	355	358	836	366	518	185	108
number	482	383	456	895	405	557	210	(D)	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Lyon	Madison	Mahaska	Marion	Marshall	Mills	Mitchell	Monona	
VALUE OF MACHINERY AND EQUIPMENT									
Estimated market value of all machinery and equipment									
farms, 2002	1,045	956	1,018	1,028	816	461	826	622	
1997	1,203	1,069	1,084	1,062	976	532	862	739	
\$1,000, 2002	95,773	60,711	93,889	52,160	112,034	46,190	99,319	72,137	
1997	93,193	54,353	76,706	55,943	77,716	49,074	74,101	67,980	
Average per farm	dollars, 2002	91,649	63,505	92,229	50,739	137,296	100,195	120,240	115,976
1997	77,467	50,845	70,762	52,677	79,627	92,244	85,964	91,989	
Farms by value group:									
\$1 to \$9,999	2002	179	294	225	380	159	86	207	174
1997	98	197	235	266	155	56	117	80	
\$10,000 to \$19,999	2002	77	200	120	137	60	22	33	24
1997	177	262	168	268	110	76	223	133	
\$20,000 to \$29,999	2002	119	95	60	168	64	86	44	67
1997	180	150	103	93	131	90	54	77	
\$30,000 to \$49,999	2002	151	57	173	98	121	27	70	64
1997	181	149	148	53	147	51	64	90	
\$50,000 to \$69,999	2002	75	44	82	61	23	52	72	13
1997	158	41	100	173	87	32	60	53	
\$70,000 to \$99,999	2002	104	89	57	45	48	36	99	89
1997	150	85	70	42	87	54	120	90	
\$100,000 to \$199,999	2002	200	90	129	84	104	68	124	63
1997	121	121	181	98	155	87	110	105	
\$200,000 to \$499,999	2002	114	71	155	45	204	79	148	88
1997	121	61	67	66	89	82	97	88	
\$500,000 or more	2002	26	16	17	10	33	5	29	40
1997	17	3	12	3	15	4	17	13	
SELECTED MACHINERY AND EQUIPMENT									
Tractors	farms, 2002	992	888	947	950	755	415	644	589
1997	1,129	1,021	1,049	997	910	498	787	676	
number, 2002	3,005	2,101	2,754	2,359	3,191	1,237	2,776	2,147	
1997	3,254	2,380	2,918	2,525	2,757	1,439	2,612	2,168	
Less than 40 horsepower (PTO)	farms, 2002	265	283	348	432	405	220	376	223
1997	391	450	477	445	470	194	432	318	
number, 2002	319	391	597	546	897	362	596	408	
1997	722	628	726	706	636	236	801	436	
40 to 99 horsepower (PTO)	farms, 2002	797	687	667	729	452	223	509	390
1997	884	699	762	823	634	365	595	459	
number, 2002	1,312	1,088	941	1,154	1,052	377	1,084	717	
1997	1,462	1,150	1,239	1,133	1,161	631	1,026	897	
100 horsepower (PTO) or more	farms, 2002	707	405	595	438	530	254	494	483
1997	641	444	570	455	508	320	424	452	
number, 2002	1,374	622	1,216	659	1,242	498	1,096	1,022	
1997	1,070	602	953	686	960	572	785	835	
Grain and bean combines (see text)	farms, 2002	543	285	514	301	537	228	430	322
1997	617	382	523	383	469	275	466	334	
number, 2002	596	321	576	351	641	236	502	398	
1997	680	399	560	415	504	292	575	370	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	70	1	24	9	44	7	14	72
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	80	(D)	27	9	44	7	17	84	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	294	405	249	317	242	56	172	206
1997	393	382	311	354	243	102	287	147	
number, 2002	346	448	253	352	301	66	177	208	
1997	435	464	362	447	273	109	340	171	
2002 INVENTORY									
Manufactured 1998 to 2002:									
Tractors	farms	97	121	98	45	147	48	90	80
number	134	139	169	53	234	63	111	104	
Less than 40 horsepower (PTO)	farms	17	37	29	-	23	33	2	-
number	17	37	30	-	33	33	(D)	-	
40 to 99 horsepower (PTO)	farms	32	48	32	4	32	12	23	-
number	33	48	40	5	42	12	(D)	-	
100 horsepower (PTO) or more	farms	61	48	60	43	117	15	68	80
number	84	54	99	48	159	18	83	104	
Grain and bean combines	farms	60	44	50	33	94	27	104	31
number	60	44	57	34	96	27	106	34	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	3	-	-	-	11	-	-	1
number	3	-	-	-	11	-	-	(D)	
Hay balers	farms	11	26	1	11	38	-	5	14
number	12	26	(D)	11	38	-	6	14	
Manufactured prior to 1998:									
Tractors	farms	970	863	918	940	728	413	608	562
number	2,871	1,962	2,585	2,306	2,957	1,174	2,665	2,043	
Less than 40 horsepower (PTO)	farms	248	256	337	432	392	198	374	223
number	302	354	567	546	864	329	(D)	408	
40 to 99 horsepower (PTO)	farms	793	667	638	727	441	211	489	390
number	1,279	1,040	901	1,149	1,010	365	(D)	717	
100 horsepower (PTO) or more	farms	687	380	571	409	482	252	461	455
number	1,290	568	1,117	611	1,083	480	1,013	918	
Grain and bean combines	farms	495	243	467	269	472	203	358	295
number	536	277	519	317	545	209	396	364	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Monroe	Montgomery	Muscatine	O'Brien	Osceola	Page	Palo Alto	Plymouth	
VALUE OF MACHINERY AND EQUIPMENT									
Estimated market value of all machinery and equipment									
farms, 2002	709	573	799	959	632	857	780	1,323	
1997	737	615	844	1,009	676	901	831	1,565	
\$1,000, 2002	50,494	48,446	70,286	112,852	62,723	62,620	89,164	132,580	
1997	31,279	57,911	72,978	110,589	69,535	59,596	77,293	123,062	
Average per farm	dollars, 2002	71,219	84,549	87,967	117,677	99,245	114,313	100,211	
1997	42,441	94,164	86,466	109,603	102,863	66,145	93,012	78,634	
Farms by value group:									
\$1 to \$9,999	2002	211	150	217	155	124	167	48	271
1997	187	90	126	99	28	163	86	242	
\$10,000 to \$19,999	2002	103	87	76	25	25	148	56	109
1997	145	121	142	94	113	130	71	226	
\$20,000 to \$29,999	2002	95	59	108	47	69	74	69	91
1997	118	104	99	71	23	120	45	127	
\$30,000 to \$49,999	2002	89	67	68	141	106	118	129	192
1997	91	50	122	89	72	94	164	195	
\$50,000 to \$69,999	2002	54	27	71	110	75	88	39	142
1997	65	44	42	88	140	89	64	82	
\$70,000 to \$99,999	2002	43	12	40	92	48	62	102	119
1997	57	32	68	123	89	71	107	185	
\$100,000 to \$199,999	2002	47	85	104	174	69	93	202	200
1997	49	70	161	245	96	173	168	360	
\$200,000 to \$499,999	2002	53	75	95	195	105	102	127	164
1997	24	96	47	195	97	58	118	142	
\$500,000 or more	2002	14	11	20	20	5	8	35	
1997	1	8	37	5	18	3	8	6	
SELECTED MACHINERY AND EQUIPMENT									
Tractors	farms, 2002	688	527	739	941	525	821	715	1,265
1997	656	578	802	979	625	819	797	1,413	
number, 2002	1,632	1,509	2,325	3,251	1,674	2,383	2,336	4,338	
1997	1,427	1,969	2,341	3,125	2,076	2,277	2,840	4,124	
Less than 40 horsepower (PTO)	farms, 2002	193	229	417	340	194	185	213	582
1997	242	225	503	403	321	388	437	551	
number, 2002	298	342	760	473	270	386	404	992	
1997	339	378	733	610	555	529	755	942	
40 to 99 horsepower (PTO)	farms, 2002	494	413	548	820	402	650	554	914
1997	522	483	516	744	417	607	581	1,037	
number, 2002	881	618	870	1,462	624	1,173	926	1,780	
1997	686	849	897	1,221	(D)	1,099	1,071	1,748	
100 horsepower (PTO) or more	farms, 2002	261	263	363	676	403	486	460	802
1997	297	347	447	730	478	415	553	919	
number, 2002	453	549	695	1,316	780	824	1,006	1,566	
1997	402	742	711	1,294	(D)	649	1,014	1,434	
Grain and bean combines (see text)	farms, 2002	100	233	356	562	368	343	545	684
1997	153	323	448	617	435	331	500	744	
number, 2002	127	284	361	622	374	367	553	738	
1997	168	369	500	671	445	350	540	802	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	5	14	2	18	29	12	9	50
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	5	14	(D)	18	29	12	9	51	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	269	209	256	184	130	199	108	296
1997	352	170	207	289	178	205	119	313	
number, 2002	340	232	265	195	143	234	108	316	
1997	449	247	233	336	194	269	157	393	
2002 INVENTORY									
Manufactured 1998 to 2002:									
Tractors	farms	84	50	84	82	62	118	91	119
number	100	74	121	110	81	161	128	274	
Less than 40 horsepower (PTO)	farms	18	13	50	-	1	11	2	61
number	18	13	51	-	(D)	11	(D)	110	
40 to 99 horsepower (PTO)	farms	35	12	24	22	23	42	13	37
number	35	12	25	29	(D)	42	(D)	61	
100 horsepower (PTO) or more	farms	46	38	28	73	38	75	80	71
number	47	49	45	81	57	108	110	103	
Grain and bean combines	farms	3	42	16	50	46	16	37	103
number	(D)	46	17	50	47	16	38	104	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	1	11	-	-	2	-	1	-
number	(D)	11	-	-	-	(D)	-	(D)	-
Hay balers	farms	33	1	3	1	1	11	-	17
number	33	(D)	3	(D)	(D)	11	-	17	
Manufactured prior to 1998:									
Tractors	farms	634	527	684	897	510	796	704	1,222
number	1,532	1,435	2,204	3,141	1,593	2,222	2,208	4,064	
Less than 40 horsepower (PTO)	farms	175	216	369	340	193	185	212	525
number	280	329	709	473	(D)	375	(D)	882	
40 to 99 horsepower (PTO)	farms	465	412	528	801	387	641	551	878
number	846	606	845	1,433	(D)	1,131	(D)	1,719	
100 horsepower (PTO) or more	farms	236	239	357	624	391	461	427	787
number	406	500	650	1,235	716	723	716	896	
Grain and bean combines	farms	98	202	342	512	323	327	509	583
number	(D)	238	344	572	327	351	515	634	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Pocahontas	Polk	Pottawattamie	Poweshiek	Ringgold	Sac	Scott	Shelby
VALUE OF MACHINERY AND EQUIPMENT								
Estimated market value of all machinery and equipment								
farms, 2002	729	744	1,215	913	710	775	753	865
1997	811	888	1,417	1,001	729	849	844	959
\$1,000, 2002	98,684	92,729	137,807	84,128	38,838	106,716	98,845	136,625
1997	108,906	58,640	129,479	68,951	38,367	92,503	82,547	78,158
Average per farm	dollars, 2002	135,369	124,636	113,421	92,144	54,702	137,699	131,268
1997	134,286	66,036	91,375	68,882	52,630	108,955	97,805	81,500
Farms by value group:								
\$1 to \$9,999	2002	91	197	190	304	270	56	157
1997	72	198	194	160	234	54	62	106
\$10,000 to \$19,999	2002	51	54	141	106	93	37	83
1997	35	200	207	146	72	113	117	127
\$20,000 to \$29,999	2002	39	50	86	53	51	66	53
1997	26	124	132	104	78	67	81	39
\$30,000 to \$49,999	2002	64	68	177	60	70	113	63
1997	115	77	147	176	85	104	158	181
\$50,000 to \$69,999	2002	86	84	105	67	54	70	38
1997	50	83	114	105	124	67	59	118
\$70,000 to \$99,999	2002	67	88	59	57	49	109	57
1997	91	27	121	105	36	151	83	64
\$100,000 to \$199,999	2002	136	47	204	125	55	116	157
1997	181	91	288	135	58	168	145	184
\$200,000 to \$499,999	2002	155	115	228	108	64	187	76
1997	223	78	202	60	38	96	130	102
\$500,000 or more	2002	40	41	25	33	4	21	69
1997	18	10	12	10	4	29	9	2
SELECTED MACHINERY AND EQUIPMENT								
Tractors	farms, 2002	705	689	1,176	887	647	761	742
1997	749	845	1,347	912	649	821	785	830
number, 2002	2,292	1,966	4,015	2,566	1,766	2,473	2,291	2,836
1997	2,901	1,745	4,270	2,583	1,465	2,722	2,238	3,008
Less than 40 horsepower (PTO)	farms, 2002	291	329	535	289	254	309	333
1997	368	450	644	439	281	340	317	403
number, 2002	401	524	800	419	518	442	436	332
1997	730	638	979	627	389	456	436	608
40 to 99 horsepower (PTO)	farms, 2002	343	461	873	714	467	461	477
1997	565	406	877	631	447	637	545	522
number, 2002	611	737	1,470	1,344	702	790	836	716
1997	1,008	548	1,523	1,080	707	1,147	942	1,048
100 horsepower (PTO) or more	farms, 2002	517	415	715	419	308	542	495
1997	608	333	883	516	253	603	481	607
number, 2002	1,280	705	1,745	803	546	1,241	1,019	597
1997	1,163	559	1,768	876	369	1,119	860	1,180
Grain and bean combines (see text)	farms, 2002	431	309	573	396	257	505	375
1997	570	256	731	425	282	482	481	530
number, 2002	464	343	599	468	302	513	382	612
1997	592	281	755	472	303	503	511	554
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	21	16	52	24	17	27	4
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	21	16	52	27	18	28	4	80
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hay balers	farms, 2002	108	271	293	321	280	194	203
1997	165	240	351	363	257	212	289	361
number, 2002	110	323	323	375	301	223	232	225
1997	196	259	412	448	283	222	348	396
2002 INVENTORY								
Manufactured 1998 to 2002:								
Tractors	farms	96	101	161	102	77	185	114
number	143	157	325	151	109	278	166	193
Less than 40 horsepower (PTO)	farms	4	2	34	17	1	78	47
number	6	(D)	42	18	(D)	82	47	66
40 to 99 horsepower (PTO)	farms	32	53	59	27	42	5	28
number	34	(D)	73	39	(D)	12	31	30
100 horsepower (PTO) or more	farms	86	74	108	74	41	110	67
number	103	102	210	94	49	184	88	97
Grain and bean combines	farms	109	44	114	47	17	91	93
number	109	46	123	48	17	92	95	70
Cotton pickers and strippers	farms	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms	-	-	2	1	-	-	-
number	-	-	(D)	(D)	-	-	-	-
Hay balers	farms	-	-	5	12	73	39	-
number	-	-	5	13	74	39	-	25
Manufactured prior to 1998:								
Tractors	farms	662	668	1,116	869	632	673	707
number	2,149	1,809	3,690	2,415	1,657	2,195	2,125	2,643
Less than 40 horsepower (PTO)	farms	290	328	512	289	254	234	297
number	395	(D)	758	401	(D)	360	389	338
40 to 99 horsepower (PTO)	farms	312	436	824	702	427	457	513
number	577	(D)	1,397	1,305	(D)	778	805	1,018
100 horsepower (PTO) or more	farms	480	369	697	390	304	506	474
number	1,177	603	1,535	709	497	1,057	931	588
Grain and bean combines	farms	323	269	464	355	241	416	283
number	355	297	476	420	285	421	287	462

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Sioux	Story	Tama	Taylor	Union	Van Buren	Wapello	Warren
VALUE OF MACHINERY AND EQUIPMENT								
Estimated market value of all machinery and equipment								
farms, 2002	1,648	974	1,143	760	685	821	811	1,297
1997	1,814	1,005	1,229	809	728	880	862	1,332
\$1,000, 2002	180,626	117,886	128,276	43,171	58,602	59,614	36,429	65,322
1997	168,107	96,683	95,437	32,473	33,668	41,969	51,184	65,798
Average per farm	109,603	121,033	112,228	56,804	85,551	72,611	44,919	50,364
1997	92,672	96,202	77,654	40,140	46,247	47,692	59,378	49,398
Farms by value group:								
\$1 to \$9,999	231	203	335	301	171	274	269	513
1997	168	154	202	183	196	178	210	355
\$10,000 to \$19,999	148	115	76	99	100	177	144	180
1997	192	155	273	168	169	217	141	297
\$20,000 to \$29,999	112	64	70	81	65	62	131	165
1997	169	96	137	148	110	107	160	91
\$30,000 to \$49,999	201	103	103	34	64	86	62	161
1997	333	53	131	108	53	146	94	184
\$50,000 to \$69,999	133	44	97	26	55	8	47	76
1997	178	126	41	36	86	46	25	137
\$70,000 to \$99,999	213	91	106	41	28	65	61	12
1997	167	44	94	53	48	57	72	124
\$100,000 to \$199,999	383	161	151	150	148	74	61	108
1997	363	218	216	91	36	90	79	89
\$200,000 to \$499,999	190	145	146	23	23	54	33	52
1997	219	150	112	21	31	39	73	36
\$500,000 or more	37	48	59	5	31	21	3	30
1997	25	9	23	1	14	-	8	19
SELECTED MACHINERY AND EQUIPMENT								
Tractors								
farms, 2002	1,490	953	991	627	658	739	741	1,134
1997	1,737	957	1,110	731	691	803	803	1,268
number, 2002	5,273	3,211	3,513	1,652	1,772	1,929	1,712	3,150
1997	5,436	2,799	3,383	1,518	1,646	2,050	2,060	2,976
Less than 40 horsepower (PTO)								
farms, 2002	548	527	514	339	304	317	238	630
1997	641	491	378	343	375	419	383	658
number, 2002	835	873	796	437	474	467	358	928
1997	1,084	847	620	439	557	596	586	1,027
40 to 99 horsepower (PTO)								
farms, 2002	1,069	640	764	375	469	554	581	801
1997	1,366	666	890	428	484	540	639	826
number, 2002	2,174	1,027	1,383	675	893	806	828	1,335
1997	2,358	979	1,615	(D)	736	918	881	1,253
100 horsepower (PTO) or more								
farms, 2002	1,109	592	630	274	241	374	283	502
1997	1,135	513	617	296	259	328	402	424
number, 2002	2,264	1,311	1,334	540	505	656	526	887
1997	1,994	973	1,148	(D)	353	536	593	696
Grain and bean combines (see text)								
farms, 2002	848	525	600	257	193	262	165	341
1997	812	467	571	221	153	298	186	365
number, 2002	971	562	636	288	217	274	209	359
1997	849	533	634	284	177	339	191	427
Cotton pickers and strippers								
farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)								
farms, 2002	89	33	21	2	12	19	14	40
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	100	33	21	(D)	12	19	14	41
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hay balers								
farms, 2002	427	219	431	207	252	299	252	367
1997	462	209	401	216	213	363	304	470
number, 2002	485	250	507	242	264	380	280	410
1997	505	256	487	266	272	495	349	584
2002 INVENTORY								
Manufactured 1998 to 2002:								
Tractors								
farms	213	175	172	40	56	105	127	130
number	345	248	239	50	89	135	148	141
Less than 40 horsepower (PTO)								
farms	36	65	2	21	-	35	38	76
number	36	74	(D)	21	-	35	38	84
40 to 99 horsepower (PTO)								
farms	90	26	36	3	5	57	53	9
number	101	32	(D)	3	7	58	53	9
100 horsepower (PTO) or more								
farms	140	90	142	18	54	36	50	45
number	208	142	199	26	82	42	57	48
Grain and bean combines								
farms	71	87	121	4	33	33	19	26
number	84	91	121	5	33	34	19	26
Cotton pickers and strippers								
farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)								
farms	11	19	1	1	9	11	-	-
number	12	19	(D)	(D)	9	11	-	-
Hay balers								
farms	36	4	11	2	3	33	36	14
number	37	4	11	(D)	3	33	36	14
Manufactured prior to 1998:								
Tractors								
farms	1,421	923	977	626	656	706	696	1,133
number	4,928	2,963	3,274	1,602	1,683	1,794	1,564	3,009
Less than 40 horsepower (PTO)								
farms	525	463	513	318	304	282	225	566
number	799	799	(D)	416	374	432	320	844
40 to 99 horsepower (PTO)								
farms	1,032	624	740	374	465	519	550	792
number	2,073	995	(D)	672	886	748	775	1,326
100 horsepower (PTO) or more								
farms	1,054	569	592	272	239	365	243	472
number	2,056	1,169	1,135	514	423	614	469	839
Grain and bean combines								
farms	782	443	496	253	160	229	148	315
number	887	471	515	283	184	240	190	333

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Washington	Wayne	Webster	Winnebago	Winneshiek	Woodbury	Worth	Wright	
VALUE OF MACHINERY AND EQUIPMENT									
Estimated market value of all machinery and equipment									
farms, 2002	1,199	790	913	616	1,445	1,149	574	753	
1997	1,117	785	986	653	1,558	1,403	652	757	
\$1,000, 2002	135,893	44,340	118,582	69,307	143,340	119,286	65,835	101,894	
1997	91,512	37,419	109,049	73,747	93,550	105,505	64,912	102,861	
Average per farm	dollars, 2002	113,339	56,127	129,882	112,511	99,197	114,695	135,317	
1997	81,926	47,668	110,598	112,935	60,045	75,199	99,559	135,880	
Farms by value group:									
\$1 to \$9,999	2002	173	245	207	183	264	352	94	140
1997	215	141	153	81	351	223	73	30	
\$10,000 to \$19,999	2002	149	154	53	10	189	89	101	50
1997	98	233	93	71	232	231	97	81	
\$20,000 to \$29,999	2002	160	38	70	52	168	107	45	74
1997	132	103	51	50	129	219	48	53	
\$30,000 to \$49,999	2002	157	124	57	21	186	133	81	52
1997	119	83	114	86	196	153	61	81	
\$50,000 to \$69,999	2002	61	26	36	31	111	75	13	50
1997	79	40	87	47	174	141	75	58	
\$70,000 to \$99,999	2002	88	60	106	93	147	47	23	60
1997	74	55	62	51	127	92	51	111	
\$100,000 to \$199,999	2002	186	101	166	130	133	152	95	175
1997	244	72	232	112	255	204	113	138	
\$200,000 to \$499,999	2002	196	34	173	71	195	139	94	128
1997	152	57	170	152	89	113	129	180	
\$500,000 or more	2002	29	8	45	25	52	28	24	
1997	4	1	24	3	5	27	5	25	
SELECTED MACHINERY AND EQUIPMENT									
Tractors	farms, 2002	1,169	662	827	606	1,362	1,091	539	723
1997	1,019	743	892	608	1,431	1,312	597	691	
number, 2002	3,200	1,611	2,703	2,086	4,512	3,538	2,102	2,620	
1997	2,903	1,727	3,146	2,000	4,347	3,870	1,957	2,444	
Less than 40 horsepower (PTO)	farms, 2002	417	312	426	312	541	527	295	404
1997	404	367	466	342	727	508	242	414	
number, 2002	769	385	595	479	940	976	370	735	
1997	612	498	746	571	1,198	916	403	695	
40 to 99 horsepower (PTO)	farms, 2002	923	488	563	479	1,053	745	403	412
1997	816	544	715	398	1,195	956	487	458	
number, 2002	1,312	659	947	766	2,022	1,309	832	690	
1997	1,364	(D)	1,196	(D)	2,117	1,584	(D)	715	
100 horsepower (PTO) or more	farms, 2002	544	310	586	349	791	597	377	549
1997	632	260	638	399	634	728	386	508	
number, 2002	1,119	567	1,161	841	1,550	1,253	900	1,195	
1997	927	(D)	1,204	(D)	1,032	1,370	(D)	1,034	
Grain and bean combines (see text)	farms, 2002	492	159	555	380	619	479	466	568
1997	473	247	568	348	518	570	356	500	
number, 2002	500	166	582	397	649	518	480	722	
1997	547	252	604	391	545	626	420	535	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	37	5	2	17	134	49	31	1
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	39	5	(D)	26	143	50	32	(D)	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	227	295	98	124	786	229	303	229
1997	237	313	134	129	832	326	207	137	
number, 2002	260	321	101	135	955	254	341	266	
1997	273	357	182	143	1,020	351	247	147	
2002 INVENTORY									
Manufactured 1998 to 2002:									
Tractors	farms	130	60	118	79	196	138	91	117
number	251	73	174	142	299	193	159	226	
Less than 40 horsepower (PTO)	farms	61	11	15	-	49	12	1	15
number	121	11	16	-	50	24	(D)	42	
40 to 99 horsepower (PTO)	farms	39	21	3	1	64	9	1	10
number	41	21	5	(D)	67	11	(D)	39	
100 horsepower (PTO) or more	farms	65	30	117	79	122	118	90	111
number	89	41	153	(D)	182	158	(D)	145	
Grain and bean combines	farms	67	13	85	52	66	116	53	97
number	68	18	89	52	66	129	53	99	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	10	-	-	-	23	-	-	
number	10	-	-	-	23	-	-	-	
Hay balers	farms	20	71	-	1	68	36	10	
number	30	71	-	(D)	69	36	20	3	
Manufactured prior to 1998:									
Tractors	farms	1,119	650	824	575	1,301	1,081	528	710
number	2,949	1,538	2,529	1,944	4,213	3,345	1,943	2,394	
Less than 40 horsepower (PTO)	farms	357	301	415	312	499	515	295	389
number	648	374	479	479	890	952	(D)	693	
40 to 99 horsepower (PTO)	farms	888	470	560	478	1,013	739	403	402
number	1,271	638	942	(D)	1,955	1,298	(D)	651	
100 horsepower (PTO) or more	farms	518	300	558	318	738	577	366	517
number	1,030	526	1,008	(D)	1,368	1,095	(D)	1,050	
Grain and bean combines	farms	427	146	477	331	554	365	415	472
number	432	148	493	345	583	389	427	623	

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Iowa	Adair	Adams	Allamakee	Appanoose	Audubon	Benton	
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	
number	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text) farms	2,494	15	19	50	19	10	3	
number	2,620	(D)	19	60	27	(D)	3	
Hay balers farms	25,667	367	220	388	284	149	427	
number	29,407	396	257	487	304	187	488	
Item	Black Hawk	Boone	Bremer	Buchanan	Buena Vista	Butler	Calhoun	
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	
number	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text) farms	25	4	38	77	34	-	49	
number	26	(D)	38	77	43	-	49	
Hay balers farms	341	207	277	410	124	368	228	
number	(D)	229	343	(D)	168	(D)	230	
Item	Carroll	Cass	Cedar	Cerro Gordo	Cherokee	Chickasaw	Clarke	
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	
number	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text) farms	54	6	3	4	91	37	19	
number	(D)	(D)	3	4	92	37	19	
Hay balers farms	316	309	229	244	134	423	262	
number	347	332	266	254	156	474	292	
Item	Clay	Clayton	Clinton	Crawford	Dallas	Davis	Decatur	
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	
number	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text) farms	15	41	64	37	13	8	19	
number	15	41	(D)	(D)	(D)	(D)	19	
Hay balers farms	124	683	408	178	216	403	260	
number	126	889	458	235	(D)	508	292	
Item	Delaware	Des Moines	Dickinson	Dubuque	Emmet	Fayette	Floyd	Franklin
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	38	-	38	63	13	30	25	28
number	38	-	42	63	13	30	25	(D)
Hay balers farms	403	207	73	726	82	360	293	183
number	475	227	(D)	876	(D)	416	327	192
Item	Fremont	Greene	Grundy	Guthrie	Hamilton	Hancock	Hardin	Harrison
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	21	19	11	12	27	11	3	14
number	21	19	11	12	27	11	(D)	14
Hay balers farms	74	85	96	133	101	282	108	165
number	79	86	110	137	126	298	119	187
Item	Henry	Howard	Humboldt	Ida	Iowa	Jackson	Jasper	Jefferson
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	10	37	11	46	31	85	10	13
number	10	(D)	11	(D)	(D)	87	(D)	13
Hay balers farms	119	374	46	179	364	543	351	251
number	(D)	463	56	189	417	622	441	288
Item	Johnson	Jones	Keokuk	Kossuth	Lee	Linn	Louisa	Lucas
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	18	8	6	37	5	13	10	37
number	18	8	(D)	47	6	13	10	37
Hay balers farms	424	289	242	191	293	502	112	411
number	521	360	291	232	386	551	112	443

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Table 38. Machinery and Equipment on Operation: 2002 and 1997 - Con.

[Data are based on a sample of farms. For meaning of abbreviations and symbols, see introductory text]

Item	Lyon	Madison	Mahaska	Marion	Marshall	Mills	Mitchell	Monona
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	67	1	24	9	33	7	14	72
number	77	(D)	27	9	33	7	17	(D)
Hay balers farms	291	379	248	307	214	56	167	192
number	334	422	(D)	341	263	66	171	194
Item	Monroe	Montgomery	Muscatine	O'Brien	Osceola	Page	Palo Alto	Plymouth
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	4	3	2	18	27	12	8	50
number	(D)	3	(D)	18	(D)	12	(D)	51
Hay balers farms	238	208	255	183	129	188	108	280
number	307	(D)	262	(D)	(D)	223	108	299
Item	Pocahontas	Polk	Pottawattamie	Poweshiek	Ringgold	Sac	Scott	Shelby
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	21	16	50	23	17	27	4	80
number	21	16	(D)	(D)	18	28	4	80
Hay balers farms	108	271	289	309	207	179	203	180
number	110	323	318	362	227	184	232	200
Item	Sioux	Story	Tama	Taylor	Union	Van Buren	Wapello	Warren
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	78	14	20	1	3	8	14	40
number	88	14	(D)	(D)	3	8	14	41
Hay balers farms	391	215	421	206	249	273	216	363
number	448	246	496	(D)	261	347	244	396
Item	Washington	Wayne	Webster	Winnebago	Winneshiek	Woodbury	Worth	Wright
2002 INVENTORY - Con.								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) farms	27	5	2	17	111	49	31	1
number	29	5	(D)	26	120	50	32	(D)
Hay balers farms	207	236	98	124	726	193	293	226
number	230	250	101	(D)	886	218	321	263