

**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	Minnesota	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	77,179	624	462	1,221	714	895	407	1,112	
1997	78,730	677	545	1,215	736	891	449	1,081	
\$1,000, 2002	6,665,874	29,284	16,518	60,455	29,470	57,011	44,164	115,192	
1997	6,440,856	22,787	30,632	68,917	26,358	61,725	44,133	118,658	
Average per farm	dollars, 2002	86,369	46,930	35,753	49,512	41,275	63,700	103,590	
1997	81,809	33,659	56,205	56,721	35,812	69,276	98,291	109,766	
Farms by value group:									
\$1 to \$9,999	2002	22,606	272	135	386	297	222	53	212
1997	13,806	175	157	278	101	149	30	127	
\$10,000 to \$19,999	2002	9,400	115	146	224	67	108	45	83
1997	11,932	163	83	284	161	140	39	140	
\$20,000 to \$29,999	2002	6,483	50	77	124	98	137	33	139
1997	9,228	60	48	181	237	133	95	138	
\$30,000 to \$49,999	2002	7,884	46	43	153	72	122	34	150
1997	10,400	136	104	117	99	175	61	35	
\$50,000 to \$69,999	2002	5,936	50	42	120	67	127	37	142
1997	7,158	48	24	78	36	46	33	73	
\$70,000 to \$99,999	2002	5,178	35	1	37	67	27	50	52
1997	5,629	43	49	71	32	40	31	66	
\$100,000 to \$199,999	2002	9,694	43	2	123	21	52	78	151
1997	10,905	26	39	115	58	168	79	300	
\$200,000 to \$499,999	2002	7,837	1	10	46	20	86	69	153
1997	8,367	9	40	84	11	33	76	182	
\$500,000 or more	2002	2,161	12	6	8	5	14	8	30
1997	1,305	-	1	7	1	7	5	20	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	68,387	576	461	1,127	636	848	366	1,017
1997	73,535	675	478	1,129	718	854	419	1,049	
number, 2002	223,138	1,534	1,042	3,201	1,587	2,565	1,179	3,601	
1997	219,894	1,789	1,231	3,529	2,069	2,560	1,353	3,327	
Less than 40 horsepower (PTO)	farms, 2002	37,816	453	298	694	378	473	122	610
1997	41,583	508	330	673	439	579	210	613	
number, 2002	63,366	747	490	1,205	583	725	165	1,072	
1997	69,281	859	597	1,466	840	1,059	287	935	
40 to 99 horsepower (PTO)	farms, 2002	50,796	354	331	765	343	589	316	694
1997	54,360	456	315	739	547	587	361	722	
number, 2002	91,631	664	420	1,228	658	1,008	520	1,239	
1997	92,329	749	437	1,347	(D)	1,002	624	1,285	
100 horsepower (PTO) or more	farms, 2002	33,310	51	89	443	212	495	244	631
1997	33,968	123	125	402	201	352	252	601	
number, 2002	68,141	123	132	768	346	832	494	1,290	
1997	58,284	181	197	716	(D)	499	442	1,107	
Grain and bean combines (see text)	farms, 2002	28,386	41	49	314	78	347	243	540
1997	32,526	94	57	393	129	369	275	688	
number, 2002	32,771	41	49	385	80	390	270	596	
1997	37,816	127	59	517	148	432	311	792	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	3,139	1	1	40	32	43	1	4
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	3,772	(D)	(D)	51	34	51	(D)	4	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	29,631	369	150	623	383	420	84	226
1997	32,994	440	131	652	455	526	146	231	
number, 2002	36,465	457	150	792	485	514	111	256	
1997	41,194	593	163	909	563	660	182	253	
<b>2002 INVENTORY</b>									
Manufactured 1998 to 2002:									
Tractors	farms	7,881	28	34	49	16	51	21	123
number	12,793	57	62	83	19	67	40	197	
Less than 40 horsepower (PTO)	farms	1,829	7	25	4	8	7	1	29
number	2,539	7	32	6	8	9	(D)	29	
40 to 99 horsepower (PTO)	farms	2,538	14	4	9	3	23	12	40
number	3,372	34	5	10	5	23	(D)	46	
100 horsepower (PTO) or more	farms	4,739	7	16	44	6	24	11	68
number	6,882	16	25	67	6	35	19	122	
Grain and bean combines	farms	2,935	4	1	15	1	7	23	66
number	3,159	(D)	(D)	19	(D)	7	25	75	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms	224	-	-	3	11	2	-	-
number	238	-	-	3	12	(D)	-	-	-
Hay balers	farms	2,213	25	12	13	35	69	9	2
number	2,327	25	12	13	36	69	9	(D)	
Manufactured prior to 1998:									
Tractors	farms	66,865	576	436	1,121	628	829	365	990
number	210,345	1,477	980	3,118	1,568	2,498	1,139	3,404	
Less than 40 horsepower (PTO)	farms	36,609	446	275	692	370	466	121	591
number	60,827	740	458	1,199	575	716	(D)	1,043	
40 to 99 horsepower (PTO)	farms	49,601	354	329	761	342	568	307	655
number	88,259	630	415	1,218	653	985	(D)	1,193	
100 horsepower (PTO) or more	farms	31,712	51	79	434	212	486	240	609
number	61,259	107	107	701	340	797	475	1,168	
Grain and bean combines	farms	25,737	37	48	307	77	340	220	475
number	29,612	(D)	(D)	366	(D)	383	245	521	

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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	Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clearwater	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	1,055	606	781	626	668	884	825	527	
1997	1,058	614	831	676	630	860	946	627	
\$1,000, 2002	99,519	16,711	81,369	24,926	83,321	37,047	117,504	26,354	
1997	106,780	23,142	80,181	20,304	81,531	36,209	118,585	24,130	
Average per farm	dollars, 2002	94,331	27,577	104,186	39,817	124,731	41,908	142,428	50,008
1997	100,927	37,691	96,487	30,035	129,415	42,103	125,355	38,484	
Farms by value group:									
\$1 to \$9,999	2002	150	222	147	241	191	354	243	119
1997	42	178	103	102	56	230	173	85	
\$10,000 to \$19,999	2002	91	141	66	119	45	145	75	189
1997	109	134	59	204	101	134	110	158	
\$20,000 to \$29,999	2002	101	81	115	56	32	95	69	24
1997	88	66	167	115	39	134	87	173	
\$30,000 to \$49,999	2002	57	74	116	40	55	126	69	43
1997	143	99	99	132	60	151	89	94	
\$50,000 to \$69,999	2002	182	27	91	29	36	24	36	31
1997	101	38	86	74	44	97	93	31	
\$70,000 to \$99,999	2002	151	11	67	39	49	31	40	31
1997	125	62	27	28	71	42	76	38	
\$100,000 to \$199,999	2002	186	49	65	87	141	51	101	75
1997	315	33	145	17	116	52	95	33	
\$200,000 to \$499,999	2002	113	1	86	14	83	56	136	8
1997	122	2	117	4	119	18	159	11	
\$500,000 or more	2002	24	-	28	1	2	56	7	
1997	13	2	28	-	24	2	64	4	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	982	553	753	615	545	841	701	509
1997	982	589	799	647	592	785	899	595	
number, 2002	3,453	1,551	2,632	1,639	2,014	2,030	2,747	1,514	
1997	3,165	1,619	2,522	1,627	1,983	1,962	3,029	1,419	
Less than 40 horsepower (PTO)	farms, 2002	582	363	461	348	308	527	343	380
1997	669	434	458	404	284	469	519	343	
number, 2002	941	672	688	580	560	787	825	546	
1997	988	826	844	628	450	732	890	550	
40 to 99 horsepower (PTO)	farms, 2002	809	446	612	490	395	623	484	380
1997	727	407	610	506	443	565	556	431	
number, 2002	1,308	740	1,250	881	725	944	728	685	
1997	1,228	637	1,091	837	770	967	984	673	
100 horsepower (PTO) or more	farms, 2002	765	90	330	137	332	182	459	174
1997	602	108	383	134	389	172	569	158	
number, 2002	1,204	139	694	178	729	299	1,194	283	
1997	949	156	587	162	763	263	1,155	196	
Grain and bean combines (see text)	farms, 2002	727	20	306	46	303	209	416	129
1997	698	84	368	66	322	279	470	194	
number, 2002	802	(D)	350	58	346	221	587	154	
1997	801	90	411	69	354	294	680	245	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	47	7	35	31	13	21	20	45
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	48	7	49	31	14	21	22	45	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	349	465	473	362	110	449	267	311
1997	332	475	505	273	101	428	342	349	
number, 2002	392	666	580	467	133	561	394	384	
1997	353	629	621	395	134	515	424	455	
<b>2002 INVENTORY</b>									
Manufactured 1998 to 2002:									
Tractors	farms	91	68	121	86	173	57	114	59
number	99	69	215	127	323	63	226	63	
Less than 40 horsepower (PTO)	farms	24	20	29	10	22	12	16	34
number	24	20	36	10	107	12	20	34	
40 to 99 horsepower (PTO)	farms	9	33	57	64	39	19	17	15
number	10	33	80	89	39	24	23	17	
100 horsepower (PTO) or more	farms	59	15	65	28	140	26	111	11
number	65	16	99	28	177	27	183	12	
Grain and bean combines	farms	69	-	9	-	88	3	49	6
number	69	-	9	-	89	3	74	6	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	1	-	2	-	-	-	-	
number	(D)	-	(D)	-	-	-	-	-	
Hay balers	farms	7	80	59	27	16	10	15	47
number	7	81	60	36	16	11	15	47	
Manufactured prior to 1998:									
Tractors	farms	956	533	744	615	523	811	680	509
number	3,354	1,482	2,417	1,512	1,691	1,967	2,521	1,451	
Less than 40 horsepower (PTO)	farms	566	343	439	348	298	515	329	367
number	917	652	652	570	453	775	805	512	
40 to 99 horsepower (PTO)	farms	801	426	611	490	383	605	468	380
number	1,298	707	1,170	792	686	920	705	668	
100 horsepower (PTO) or more	farms	748	75	295	133	287	181	440	173
number	1,139	123	595	150	552	272	1,011	271	
Grain and bean combines	farms	668	20	298	46	230	208	386	123
number	733	(D)	341	58	257	218	513	148	

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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	Cook	Cottonwood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fillmore	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	17	836	668	1,000	644	1,118	895	1,529	
1997	13	808	679	959	716	1,141	892	1,621	
\$1,000, 2002	489	96,586	19,903	86,099	70,953	54,647	132,390	114,540	
1997	487	97,692	21,074	87,341	72,059	59,022	117,435	118,737	
Average per farm	dollars, 2002	28,775	115,533	29,794	86,099	110,176	147,922	74,912	
1997	37,462	120,906	31,037	91,075	100,641	51,729	131,654	73,249	
<b>Farms by value group:</b>									
\$1 to \$9,999	2002	5	235	243	323	125	420	139	353
1997	1	96	184	232	101	354	73	303	
\$10,000 to \$19,999	2002	7	69	157	107	85	187	80	206
1997	4	115	224	162	82	179	106	252	
\$20,000 to \$29,999	2002	4	61	30	145	57	82	64	137
1997	5	44	94	95	49	116	46	208	
\$30,000 to \$49,999	2002	-	32	89	83	49	130	53	167
1997	-	30	49	64	104	71	72	111	
\$50,000 to \$69,999	2002	-	40	82	23	98	56	132	148
1997	-	66	63	73	111	92	82	168	
\$70,000 to \$99,999	2002	-	31	27	47	53	57	34	138
1997	2	126	36	63	56	72	124	142	
\$100,000 to \$199,999	2002	-	209	31	155	62	128	172	216
1997	1	155	14	135	112	203	183	293	
\$200,000 to \$499,999	2002	1	108	9	72	84	53	166	149
1997	-	157	15	109	74	54	170	121	
\$500,000 or more	2002	-	51	-	45	31	5	55	15
1997	-	19	-	26	27	-	36	23	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	16	714	615	910	580	1,010	843	1,387
1997	9	779	637	911	695	1,018	828	1,531	
number, 2002	27	2,620	1,478	2,624	2,330	3,170	3,009	4,149	
1997	23	2,573	1,606	2,477	1,997	3,021	2,958	4,233	
Less than 40 horsepower (PTO)	farms, 2002	6	371	443	445	390	667	410	593
1997	7	379	450	506	370	699	487	779	
number, 2002	12	597	710	856	721	1,118	729	952	
1997	15	656	801	776	574	1,137	727	1,273	
40 to 99 horsepower (PTO)	farms, 2002	11	487	424	612	452	836	550	1,099
1997	3	557	417	639	494	743	566	1,183	
number, 2002	(D)	913	672	1,065	885	1,436	914	2,093	
1997	(D)	1,027	641	1,036	810	1,351	932	2,008	
100 horsepower (PTO) or more	farms, 2002	2	528	56	328	306	362	616	633
1997	3	502	119	364	316	356	609	572	
number, 2002	(D)	1,110	96	703	724	616	1,366	1,104	
1997	(D)	890	164	665	613	533	1,299	952	
Grain and bean combines (see text)	farms, 2002	-	485	49	263	361	400	587	509
1997	-	509	105	282	320	442	604	522	
number, 2002	-	541	51	289	386	455	633	536	
1997	-	572	128	322	352	552	661	580	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	1	11	44	28	33	58	16	64
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	(D)	11	88	28	33	58	16	64	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	7	223	298	299	222	501	199	712
1997	6	251	355	291	308	570	149	717	
number, 2002	(D)	240	383	327	270	643	218	896	
1997	10	280	454	308	352	720	165	881	
<b>2002 INVENTORY</b>									
<b>Manufactured 1998 to 2002:</b>									
Tractors	farms	1	100	44	158	57	113	118	136
number	(D)	193	44	211	107	154	189	261	
Less than 40 horsepower (PTO)	farms	-	10	16	22	6	34	7	23
number	-	13	16	27	6	34	7	23	
40 to 99 horsepower (PTO)	farms	1	12	10	78	9	55	6	73
number	(D)	15	10	84	11	73	6	152	
100 horsepower (PTO) or more	farms	-	95	18	71	51	35	112	70
number	-	165	18	100	90	47	176	86	
Grain and bean combines	farms	-	107	-	39	50	22	66	46
number	-	109	-	43	52	31	70	49	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	1	-	-	5	3	1	2	2
number	(D)	-	-	5	3	(D)	(D)	(D)	
Hay balers	farms	-	34	17	7	13	42	2	75
number	-	34	23	7	13	42	(D)	75	
<b>Manufactured prior to 1998:</b>									
Tractors	farms	16	689	600	884	576	983	820	1,375
number	(D)	2,427	1,434	2,413	2,223	3,016	2,820	3,888	
Less than 40 horsepower (PTO)	farms	6	366	428	425	384	640	405	571
number	12	584	694	829	715	1,084	722	929	
40 to 99 horsepower (PTO)	farms	10	480	424	606	445	805	547	1,062
number	(D)	898	662	981	874	1,363	908	1,941	
100 horsepower (PTO) or more	farms	2	493	56	314	293	362	557	597
number	(D)	945	78	603	634	569	1,190	1,018	
Grain and bean combines	farms	-	396	49	226	313	379	523	467
number	-	432	51	246	334	424	563	487	

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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	Freeborn	Goodhue	Grant	Hennepin	Houston	Hubbard	Isanti	Itasca	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	1,140	1,501	566	573	1,002	513	838	469	
1997	1,193	1,574	510	642	1,003	502	858	476	
\$1,000, 2002	110,227	130,934	66,794	35,838	64,363	21,453	41,758	16,823	
1997	111,405	116,441	61,239	33,411	60,230	24,688	30,401	16,543	
Average per farm	dollars, 2002	96,690	87,231	118,010	62,545	64,234	49,831	35,870	
1997	93,382	73,978	120,076	52,041	60,050	49,180	35,432	34,754	
Farms by value group:									
\$1 to \$9,999	2002	377	408	275	204	246	236	248	139
1997	227	201	43	85	115	148	284	115	
\$10,000 to \$19,999	2002	72	194	15	87	235	105	203	149
1997	159	327	58	187	70	84	190	128	
\$20,000 to \$29,999	2002	84	139	25	27	112	5	89	27
1997	146	165	118	118	138	80	122	49	
\$30,000 to \$49,999	2002	119	152	52	111	114	101	142	61
1997	105	238	49	101	295	87	147	42	
\$50,000 to \$69,999	2002	77	107	5	36	11	4	66	27
1997	112	192	22	31	174	58	30	97	
\$70,000 to \$99,999	2002	71	159	18	1	97	26	6	22
1997	77	92	11	42	51	11	20	20	
\$100,000 to \$199,999	2002	163	95	55	53	103	28	24	23
1997	178	208	126	33	112	2	36	18	
\$200,000 to \$499,999	2002	143	212	92	50	54	1	40	21
1997	178	130	55	40	46	22	25	7	
\$500,000 or more	2002	34	35	29	4	30	7	20	-
1997	11	21	28	5	2	10	4	-	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	1,022	1,282	397	569	917	474	712	415
1997	1,121	1,428	487	588	891	483	775	452	
number, 2002	3,634	4,161	1,340	1,525	2,845	1,317	1,786	1,048	
1997	3,277	3,811	1,431	1,315	2,697	1,189	1,895	1,043	
Less than 40 horsepower (PTO)	farms, 2002	539	563	257	333	526	335	421	283
1997	668	594	214	313	634	318	373	266	
number, 2002	961	835	379	641	1,006	589	585	435	
1997	932	845	325	556	1,088	519	512	425	
40 to 99 horsepower (PTO)	farms, 2002	822	1,026	238	349	680	276	527	277
1997	803	1,098	398	364	681	328	597	322	
number, 2002	1,474	1,798	395	599	1,314	507	812	496	
1997	1,293	1,761	651	548	1,165	499	(D)	494	
100 horsepower (PTO) or more	farms, 2002	505	680	239	118	282	117	210	99
1997	577	788	256	136	316	91	224	100	
number, 2002	1,199	1,528	566	285	525	221	389	117	
1997	1,052	1,205	455	211	444	171	(D)	124	
Grain and bean combines (see text)	farms, 2002	494	516	259	62	250	76	207	70
1997	630	534	262	88	239	118	248	136	
number, 2002	550	546	306	85	261	100	213	88	
1997	694	602	351	94	254	140	264	138	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	41	43	47	107	70	33	22	21
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	55	55	47	176	70	33	22	21	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	355	581	95	273	471	327	474	253
1997	348	694	113	291	495	339	399	324	
number, 2002	380	680	106	329	591	344	548	372	
1997	390	847	130	382	609	464	454	439	
<b>2002 INVENTORY</b>									
Manufactured 1998 to 2002:									
Tractors	farms	94	111	44	59	96	39	62	20
number	162	147	90	77	150	60	145	21	
Less than 40 horsepower (PTO)	farms	6	14	19	20	20	27	9	-
number	6	14	23	20	22	27	9	-	
40 to 99 horsepower (PTO)	farms	34	71	3	-	39	6	29	20
number	39	75	3	-	51	6	61	(D)	
100 horsepower (PTO) or more	farms	67	34	35	39	44	12	44	1
number	117	58	64	57	77	27	75	(D)	
Grain and bean combines	farms	47	42	47	3	44	10	24	-
number	48	50	52	5	44	12	24	-	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	-	8	-	16	1	5	-	-
number	-	11	-	16	(D)	5	-	-	
Hay balers	farms	1	21	3	10	37	31	26	25
number	(D)	21	3	10	38	31	26	25	
Manufactured prior to 1998:									
Tractors	farms	998	1,277	388	559	907	447	702	415
number	3,472	4,014	1,250	1,448	2,695	1,257	1,641	1,027	
Less than 40 horsepower (PTO)	farms	535	550	245	314	515	308	472	283
number	955	821	356	621	984	562	516	435	
40 to 99 horsepower (PTO)	farms	800	984	236	349	675	271	500	269
number	1,435	1,723	392	599	1,263	501	751	(D)	
100 horsepower (PTO) or more	farms	482	671	230	108	268	111	188	98
number	1,082	1,470	502	228	448	194	314	(D)	
Grain and bean combines	farms	447	474	215	59	206	66	185	70
number	502	496	254	80	217	88	189	88	

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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	Jackson	Kanabec	Kandiyo	Kittson	Koochiching	Lac qui Parle	Lake	Lake of the Woods	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	938	778	1,234	647	238	893	45	242	
1997	976	711	1,221	635	246	806	45	235	
\$1,000, 2002	101,160	32,953	114,929	61,005	8,340	86,628	877	15,208	
1997	91,906	24,875	97,297	79,102	7,300	84,939	680	16,249	
Average per farm	dollars, 2002	107,846	42,356	93,135	94,289	35,042	97,008	19,499	62,845
1997	94,166	34,986	79,686	124,569	29,675	105,384	15,109	69,143	
<b>Farms by value group:</b>									
\$1 to \$9,999	2002	175	231	389	297	72	175	15	89
1997	104	158	248	100	80	73	14	43	
\$10,000 to \$19,999	2002	87	193	141	24	41	84	14	42
1997	122	236	200	92	70	100	15	45	
\$20,000 to \$29,999	2002	80	49	115	48	28	135	8	16
1997	108	71	131	41	26	59	13	47	
\$30,000 to \$49,999	2002	80	112	122	54	51	69	5	28
1997	70	124	206	69	35	81	3	23	
\$50,000 to \$69,999	2002	72	79	97	54	23	90	-	14
1997	127	44	37	52	13	92	-	20	
\$70,000 to \$99,999	2002	67	29	40	50	11	56	3	23
1997	105	20	48	24	8	89	-	20	
\$100,000 to \$199,999	2002	184	52	135	36	8	132	-	12
1997	202	40	181	83	7	184	-	21	
\$200,000 to \$499,999	2002	174	26	156	51	2	133	-	13
1997	126	7	155	146	7	108	-	10	
\$500,000 or more	2002	19	7	39	33	2	19	-	5
1997	12	2	15	28	-	20	-	6	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	840	658	1,074	445	232	788	40	229
1997	915	706	1,166	547	233	772	43	219	
number, 2002	3,121	1,923	3,106	1,704	657	2,947	86	649	
1997	3,045	1,651	3,480	1,579	587	2,375	84	648	
Less than 40 horsepower (PTO)	farms, 2002	515	381	494	203	153	366	35	107
1997	413	431	636	274	141	295	38	108	
number, 2002	781	660	752	350	233	710	49	161	
1997	712	654	1,082	385	227	453	61	156	
40 to 99 horsepower (PTO)	farms, 2002	577	519	850	304	202	651	25	167
1997	694	521	825	284	187	577	20	167	
number, 2002	1,029	912	1,400	597	342	1,110	(D)	260	
1997	1,159	758	1,431	449	294	989	(D)	(D)	
100 horsepower (PTO) or more	farms, 2002	655	218	473	273	48	573	4	126
1997	645	165	497	306	48	555	3	136	
number, 2002	1,311	351	954	757	82	1,127	(D)	228	
1997	1,174	239	967	745	66	933	(D)	(D)	
Grain and bean combines (see text)	farms, 2002	550	154	395	223	59	540	1	89
1997	589	175	435	272	61	519	4	104	
number, 2002	616	159	463	267	66	610	(D)	124	
1997	649	201	519	394	74	605	4	138	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	7	40	6	6	16	5	-	-
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	7	53	6	6	16	5	-	-	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	192	413	357	169	164	217	27	104
1997	234	487	443	149	138	234	32	83	
number, 2002	231	534	438	193	203	243	29	124	
1997	279	596	596	174	194	282	41	101	
<b>2002 INVENTORY</b>									
<b>Manufactured 1998 to 2002:</b>									
Tractors	farms	130	53	85	59	4	128	3	17
number	184	113	138	84	5	174	(D)	20	
Less than 40 horsepower (PTO)	farms	17	11	5	17	-	32	-	3
number	18	22	7	18	-	33	-	3	
40 to 99 horsepower (PTO)	farms	23	47	17	6	-	16	-	5
number	23	70	21	6	-	16	-	7	
100 horsepower (PTO) or more	farms	109	19	74	43	4	95	3	10
number	143	21	110	60	5	125	(D)	10	
Grain and bean combines	farms	70	13	58	17	-	53	-	4
number	84	13	61	23	-	53	-	4	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	-	1	3	-	-	1	-	-
number	-	(D)	3	-	-	(D)	-	-	
Hay balers	farms	24	41	12	8	10	10	-	6
number	24	43	12	8	10	12	-	6	
<b>Manufactured prior to 1998:</b>									
Tractors	farms	828	647	1,068	431	231	780	40	229
number	2,937	1,810	2,968	1,620	652	2,773	(D)	629	
Less than 40 horsepower (PTO)	farms	499	370	490	190	153	346	35	107
number	763	638	745	332	233	677	49	158	
40 to 99 horsepower (PTO)	farms	566	506	846	300	202	643	25	165
number	1,006	842	1,379	591	342	1,094	(D)	253	
100 horsepower (PTO) or more	farms	618	206	441	269	77	551	1	124
number	1,168	330	844	697	47	1,002	(D)	218	
Grain and bean combines	farms	484	141	344	209	59	489	1	86
number	532	146	402	244	66	557	(D)	120	

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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	Le Sueur	Lincoln	Lyon	McLeod	Mahnomen	Marshall	Martin	Meeker	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	934	760	896	985	363	1,350	953	1,002	
1997	935	754	952	1,053	385	1,308	999	1,081	
\$1,000, 2002	80,332	55,194	101,939	92,341	26,913	142,214	187,383	101,868	
1997	78,344	49,884	80,272	93,477	31,375	142,832	127,679	96,883	
Average per farm	dollars, 2002	86,009	72,624	113,771	93,747	74,141	105,344	196,624	
1997	83,790	66,159	84,320	88,772	81,495	109,199	127,807	89,623	
Farms by value group:									
\$1 to \$9,999	2002	289	296	184	268	85	504	139	203
1997	236	175	248	100	35	150	118	316	
\$10,000 to \$19,999	2002	120	91	65	32	48	95	94	155
1997	147	43	48	121	128	148	83	94	
\$20,000 to \$29,999	2002	61	75	22	101	16	63	109	134
1997	84	113	56	103	21	213	80	52	
\$30,000 to \$49,999	2002	75	61	126	100	52	174	49	63
1997	127	104	70	134	12	161	145	87	
\$50,000 to \$69,999	2002	85	41	50	115	47	135	71	60
1997	16	82	146	78	46	106	61	116	
\$70,000 to \$99,999	2002	61	33	80	59	34	15	73	33
1997	56	86	58	127	31	45	93	114	
\$100,000 to \$199,999	2002	125	76	221	132	44	125	177	171
1997	110	98	211	150	74	169	222	193	
\$200,000 to \$499,999	2002	104	74	122	161	35	155	175	154
1997	153	51	111	115	34	227	207	88	
\$500,000 or more	2002	14	13	26	17	2	84	66	29
1997	6	2	4	25	4	41	38	21	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	790	580	793	869	313	1,038	828	947
1997	862	711	860	975	381	1,176	860	968	
number, 2002	2,703	2,053	3,173	3,109	940	3,850	3,061	3,117	
1997	2,649	2,222	2,926	3,264	1,166	3,841	2,934	2,935	
Less than 40 horsepower (PTO)	farms, 2002	391	295	392	533	166	511	477	549
1997	525	347	454	520	145	592	474	608	
number, 2002	752	486	703	814	228	1,040	659	994	
1997	757	557	852	882	236	986	726	1,050	
40 to 99 horsepower (PTO)	farms, 2002	700	404	660	753	209	766	610	656
1997	660	575	681	767	312	839	695	746	
number, 2002	1,182	884	1,245	1,423	348	1,241	1,088	1,234	
1997	1,224	1,049	1,130	1,500	600	1,315	1,155	1,237	
100 horsepower (PTO) or more	farms, 2002	424	299	646	444	161	639	684	391
1997	436	372	568	563	185	669	587	417	
number, 2002	769	683	1,225	872	364	1,569	1,314	889	
1997	668	616	944	882	330	1,540	1,053	648	
Grain and bean combines (see text)	farms, 2002	372	307	576	439	115	473	617	403
1997	409	341	526	511	214	613	637	352	
number, 2002	409	370	628	497	206	692	654	510	
1997	465	399	553	579	317	894	681	402	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	51	15	34	34	24	66	5	18
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	70	15	41	34	24	116	5	25	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	288	289	356	412	137	223	165	371
1997	351	300	347	486	191	263	215	436	
number, 2002	316	376	413	550	154	275	170	417	
1997	400	372	413	642	287	328	276	511	
<b>2002 INVENTORY</b>									
Manufactured 1998 to 2002:									
Tractors	farms	89	139	109	116	36	152	170	131
number	126	177	139	139	42	314	247	258	
Less than 40 horsepower (PTO)	farms	27	45	4	33	10	45	2	42
number	27	45	7	34	10	126	(D)	44	
40 to 99 horsepower (PTO)	farms	37	22	14	4	10	46	40	40
number	38	22	14	4	11	47	(D)	48	
100 horsepower (PTO) or more	farms	50	73	103	83	20	92	157	87
number	61	110	118	101	21	141	196	166	
Grain and bean combines	farms	50	40	53	36	6	62	77	32
number	51	43	53	37	6	64	77	35	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	-	1	-	3	-	1	-	-
number	-	(D)	-	3	-	(D)	-	-	
Hay balers	farms	4	18	6	15	18	24	2	3
number	4	19	7	16	26	25	(D)	4	
Manufactured prior to 1998:									
Tractors	farms	770	579	779	838	304	995	810	934
number	2,577	1,876	3,034	2,970	898	3,536	2,814	2,859	
Less than 40 horsepower (PTO)	farms	365	289	391	509	156	479	476	525
number	725	441	696	780	218	914	(D)	950	
40 to 99 horsepower (PTO)	farms	672	404	656	753	208	724	587	642
number	1,144	862	1,231	1,419	337	1,194	(D)	1,186	
100 horsepower (PTO) or more	farms	403	268	610	410	151	629	638	336
number	708	573	1,107	771	343	1,428	1,118	723	
Grain and bean combines	farms	326	270	526	405	112	428	548	378
number	358	327	575	460	200	628	577	475	

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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	Mille Lacs	Morrison	Mower	Murray	Nicollet	Nobles	Norman	Olmsted	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	826	1,774	1,033	910	702	1,011	660	1,247	
1997	800	1,953	1,165	848	735	1,032	732	1,410	
\$1,000, 2002	39,089	143,527	119,104	103,487	87,930	117,269	88,329	114,690	
1997	39,382	126,034	115,760	90,649	87,137	110,551	78,278	99,887	
Average per farm	dollars, 2002	47,324	80,906	115,300	113,721	125,256	133,832	91,973	
1997	dollars, 1997	49,227	64,533	99,365	106,898	118,553	107,123	70,842	
Farms by value group:									
\$1 to \$9,999	2002	332	467	235	168	170	157	213	476
1997	161	248	129	124	48	97	34	367	
\$10,000 to \$19,999	2002	134	210	102	83	50	60	66	
1997	156	356	155	75	75	92	214	202	
\$20,000 to \$29,999	2002	85	127	65	79	69	15	61	
1997	101	101	116	79	74	71	93	160	
\$30,000 to \$49,999	2002	114	213	91	50	40	167	95	103
1997	175	364	157	28	128	125	91	205	
\$50,000 to \$69,999	2002	43	164	27	61	92	71	63	166
1997	79	326	140	69	36	181	11	116	
\$70,000 to \$99,999	2002	31	159	78	104	62	128	4	51
1997	21	179	96	111	46	99	32	88	
\$100,000 to \$199,999	2002	21	163	195	146	129	190	52	150
1997	70	265	223	187	182	189	114	117	
\$200,000 to \$499,999	2002	61	253	210	210	110	136	91	118
1997	34	106	120	167	133	163	125	138	
\$500,000 or more	2002	5	18	30	9	36	67	56	
1997	3	8	29	8	33	15	18	17	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	775	1,676	912	749	646	921	591	1,090
1997	794	1,859	1,050	704	710	954	664	1,308	
number, 2002	2,149	5,656	3,242	2,964	2,571	2,946	1,949	3,109	
1997	2,330	5,547	3,527	2,470	2,420	2,746	2,143	3,359	
Less than 40 horsepower (PTO)	farms, 2002	436	1,061	468	435	380	371	232	643
1997	526	1,133	629	356	389	380	316	681	
number, 2002	714	1,846	783	640	628	513	425	882	
1997	1,101	2,043	1,123	591	637	490	594	1,078	
40 to 99 horsepower (PTO)	farms, 2002	605	1,285	678	580	511	656	327	629
1997	566	1,498	772	552	571	701	434	857	
number, 2002	1,132	2,701	1,241	1,031	1,016	1,053	424	1,228	
1997	956	2,748	1,293	898	1,024	1,051	778	1,431	
100 horsepower (PTO) or more	farms, 2002	181	601	602	595	452	718	398	476
1997	211	561	653	521	450	670	398	520	
number, 2002	303	1,109	1,218	1,293	927	1,380	1,100	999	
1997	273	756	1,111	981	759	1,205	771	850	
Grain and bean combines (see text)	farms, 2002	52	526	494	486	412	655	293	410
1997	179	564	562	575	435	608	367	477	
number, 2002	61	595	531	515	474	712	438	431	
1997	216	628	635	612	515	671	544	503	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	35	166	36	37	22	47	13	18
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	57	170	36	37	22	49	26	19	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	472	1,069	336	330	234	314	190	355
1997	503	1,200	314	345	262	294	124	601	
number, 2002	596	1,396	388	376	240	347	230	472	
1997	674	1,667	363	421	293	341	161	706	
<b>2002 INVENTORY</b>									
Manufactured 1998 to 2002:									
Tractors	farms	96	144	159	90	65	128	74	122
number	131	280	214	145	101	244	135	211	
Less than 40 horsepower (PTO)	farms	70	18	40	25	19	31	14	83
number	87	19	41	31	19	67	18	96	
40 to 99 horsepower (PTO)	farms	42	68	25	16	12	48	14	19
number	(D)	130	39	16	33	48	16	40	
100 horsepower (PTO) or more	farms	2	101	116	73	37	83	61	50
number	(D)	131	134	98	49	129	101	75	
Grain and bean combines	farms	-	7	84	40	35	71	49	47
number	-	7	91	40	35	76	66	47	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	-	16	3	2	-	1	-	2
number	-	16	3	(D)	-	(D)	-	(D)	
Hay balers	farms	40	103	3	3	2	42	-	18
number	40	106	3	3	(D)	42	-	31	
Manufactured prior to 1998:									
Tractors	farms	735	1,669	897	738	643	867	579	1,034
number	2,018	5,376	3,028	2,819	2,470	2,702	1,814	2,898	
Less than 40 horsepower (PTO)	farms	419	1,052	464	419	364	341	219	581
number	627	1,827	742	609	609	446	407	786	
40 to 99 horsepower (PTO)	farms	564	1,261	667	571	501	621	315	620
number	(D)	2,571	1,202	1,015	983	1,005	408	1,188	
100 horsepower (PTO) or more	farms	181	555	573	564	446	677	392	449
number	(D)	978	1,084	1,195	878	1,251	999	924	
Grain and bean combines	farms	52	521	413	447	379	589	254	363
number	61	588	440	475	439	636	372	384	

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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	Otter Tail	Pennington	Pine	Pipestone	Polk	Pope	Ramsey	Red Lake	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	2,865	612	1,150	675	1,426	924	31	370	
1997	2,904	605	1,089	695	1,503	883	64	423	
\$1,000, 2002	169,881	44,648	35,245	62,035	226,212	82,886	1,391	29,160	
1997	198,611	44,199	38,380	57,942	216,024	72,041	2,865	28,698	
Average per farm	dollars, 2002	59,295	72,954	30,648	91,903	158,634	89,703	44,866	78,811
1997	68,392	73,056	35,243	83,369	143,729	81,587	44,759	67,844	
<b>Farms by value group:</b>									
\$1 to \$9,999	2002	1,118	297	531	182	304	381	11	144
1997	744	76	364	95	253	158	23	121	
\$10,000 to \$19,999	2002	284	43	283	57	140	117	4	15
1997	456	54	263	110	208	77	10	74	
\$20,000 to \$29,999	2002	314	33	68	74	162	65	4	50
1997	431	138	103	73	137	131	6	69	
\$30,000 to \$49,999	2002	337	31	68	34	113	16	2	16
1997	365	91	105	66	143	171	7	38	
\$50,000 to \$69,999	2002	200	52	28	49	89	75	3	48
1997	134	47	115	78	78	65	8	16	
\$70,000 to \$99,999	2002	237	2	83	74	110	26	4	18
1997	197	79	57	88	92	42	4	29	
\$100,000 to \$199,999	2002	176	80	67	98	175	138	2	49
1997	303	57	48	79	194	118	2	43	
\$200,000 to \$499,999	2002	152	60	18	99	209	76	1	14
1997	239	59	32	103	301	112	4	24	
\$500,000 or more	2002	47	14	4	8	124	30	-	16
1997	35	4	2	3	97	9	-	9	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	2,293	540	1,028	643	1,237	753	26	316
1997	2,738	577	1,051	649	1,349	845	57	404	
number, 2002	7,382	1,829	2,690	1,939	5,136	2,519	43	966	
1997	8,324	1,776	2,459	1,791	4,833	2,388	113	1,137	
Less than 40 horsepower (PTO)	farms, 2002	1,239	407	595	332	398	15	136	
1997	1,612	408	628	346	708	498	41	183	
number, 2002	2,209	666	932	448	1,195	523	28	206	
1997	3,132	653	944	430	1,219	752	63	287	
40 to 99 horsepower (PTO)	farms, 2002	1,867	350	751	412	853	625	14	268
1997	2,036	354	796	419	849	652	31	309	
number, 2002	3,442	591	1,358	719	1,514	1,143	15	428	
1997	3,672	539	(D)	725	1,568	991	45	500	
100 horsepower (PTO) or more	farms, 2002	923	203	240	396	886	402	-	163
1997	981	283	182	400	870	371	4	197	
number, 2002	1,731	572	400	772	2,427	853	-	332	
1997	1,520	584	(D)	636	2,046	645	5	350	
Grain and bean combines (see text)	farms, 2002	813	254	152	314	696	327	-	148
1997	1,183	285	235	268	773	353	-	160	
number, 2002	974	370	163	326	1,076	388	-	214	
1997	1,334	447	252	274	1,251	411	-	214	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	132	-	64	16	39	52	-	9
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	179	-	81	16	49	61	-	16	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	1,236	155	537	302	416	294	2	103
1997	1,419	184	636	299	388	360	9	113	
number, 2002	1,762	243	702	358	504	345	(D)	133	
1997	1,995	223	857	343	546	427	9	141	
<b>2002 INVENTORY</b>									
<b>Manufactured 1998 to 2002:</b>									
Tractors	farms	259	25	42	60	215	110	2	27
number	485	34	45	64	370	166	(D)	45	
Less than 40 horsepower (PTO)	farms	115	1	8	13	35	17	-	-
number	169	(D)	8	(D)	46	17	-	-	
40 to 99 horsepower (PTO)	farms	138	5	31	2	33	28	2	24
number	183	(D)	32	(D)	37	28	(D)	36	
100 horsepower (PTO) or more	farms	97	20	3	46	183	71	-	5
number	133	22	5	47	287	121	-	9	
Grain and bean combines	farms	54	12	-	16	95	38	-	10
number	62	16	-	16	104	39	-	11	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms	1	-	-	1	-	1	-	-
number	(D)	-	-	(D)	-	(D)	-	-	-
Hay balers	farms	156	8	64	31	25	32	-	14
number	164	8	64	31	25	32	-	20	
<b>Manufactured prior to 1998:</b>									
Tractors	farms	2,250	539	1,028	640	1,189	737	25	310
number	6,897	1,795	2,645	1,875	4,766	2,353	(D)	921	
Less than 40 horsepower (PTO)	farms	1,195	407	587	319	588	381	15	136
number	2,040	(D)	924	(D)	1,149	506	28	206	
40 to 99 horsepower (PTO)	farms	1,833	348	751	410	825	623	12	258
number	3,259	(D)	1,326	(D)	1,477	1,115	(D)	392	
100 horsepower (PTO) or more	farms	876	201	240	394	844	373	-	161
number	1,598	550	395	725	2,140	732	-	323	
Grain and bean combines	farms	760	245	152	299	620	291	-	142
number	912	354	163	310	972	349	-	203	

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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	Redwood	Renville	Rice	Rock	Roseau	St. Louis	Scott	Sherburne
<b>VALUE OF MACHINERY AND EQUIPMENT</b>								
Estimated market value of all machinery and equipment								
farms, 2002	1,203	1,159	1,165	721	1,148	948	920	640
1997	1,166	1,123	1,292	704	1,211	856	897	586
\$1,000, 2002	130,372	181,847	76,690	67,419	86,757	19,898	49,976	35,474
1997	138,422	183,946	88,777	70,198	80,801	21,512	52,955	39,747
Average per farm	108,372	156,900	65,828	93,508	75,572	20,990	54,322	55,429
dollars, 2002								
1997	118,715	163,798	68,713	99,714	66,723	25,131	59,036	67,827
Farms by value group:								
\$1 to \$9,999	285	285	380	146	405	418	303	173
1997	116	55	202	101	183	259	185	158
\$10,000 to \$19,999	67	41	121	51	94	205	158	193
1997	83	24	142	60	181	262	257	95
\$20,000 to \$29,999	53	67	111	51	83	123	97	85
1997	41	104	163	101	278	81	141	75
\$30,000 to \$49,999	99	116	196	117	154	80	106	86
1997	154	204	265	66	180	142	77	89
\$50,000 to \$69,999	132	63	92	64	106	92	19	20
1997	169	61	137	96	92	45	18	52
\$70,000 to \$99,999	157	94	76	65	44	22	56	29
1997	83	52	99	27	66	39	45	-
\$100,000 to \$199,999	188	174	87	136	126	5	119	19
2002	290	249	159	123	135	21	116	83
1997	189	210	80	71	99	3	56	24
\$200,000 to \$499,999	199	318	116	110	81	7	40	21
1997	33	109	22	20	37	-	6	12
\$500,000 or more	31	56	9	20	15	-	18	13
1997								
<b>SELECTED MACHINERY AND EQUIPMENT</b>								
Tractors								
farms, 2002	1,059	1,000	1,039	697	1,023	928	803	629
1997	1,076	1,041	1,199	658	1,160	760	815	555
number, 2002	3,982	3,565	3,355	2,005	3,628	1,957	2,177	1,537
1997	3,802	3,599	3,050	1,903	3,449	1,858	1,895	1,685
Less than 40 horsepower (PTO)								
farms, 2002	644	425	411	294	574	632	498	336
1997	586	518	600	313	584	525	479	371
number, 2002	997	719	1,044	413	987	923	749	526
1997	960	835	968	416	929	892	685	734
40 to 99 horsepower (PTO)								
farms, 2002	772	823	841	436	784	546	495	412
1997	877	755	910	526	823	533	559	397
number, 2002	1,368	1,345	1,598	657	1,561	894	987	785
1997	1,384	1,264	1,440	795	(D)	837	855	757
100 horsepower (PTO) or more								
farms, 2002	809	666	394	492	580	110	272	99
1997	834	776	406	411	714	114	238	119
number, 2002	1,617	1,501	713	935	1,080	140	441	226
1997	1,458	1,500	642	692	(D)	129	355	194
Grain and bean combines (see text)								
farms, 2002	738	663	372	446	441	57	247	132
1997	790	791	471	397	541	140	244	131
number, 2002	783	756	397	471	593	62	251	136
1997	847	887	519	429	704	148	265	157
Cotton pickers and strippers								
farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)								
farms, 2002	23	13	74	64	45	18	29	3
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	23	13	78	64	48	35	31	3
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hay balers								
farms, 2002	285	313	483	194	468	431	349	190
1997	399	308	477	252	436	403	426	234
number, 2002	349	395	568	216	583	595	412	228
1997	474	334	581	300	513	550	484	286
<b>2002 INVENTORY</b>								
Manufactured 1998 to 2002:								
Tractors								
farms	110	200	93	48	140	44	82	47
number	178	328	128	56	223	54	92	72
Less than 40 horsepower (PTO)								
farms	19	6	44	3	36	14	31	3
number	27	10	44	3	36	(D)	31	4
40 to 99 horsepower (PTO)								
farms	20	53	47	5	57	30	25	26
number	20	66	48	5	70	39	25	27
100 horsepower (PTO) or more								
farms	99	163	20	43	75	1	26	24
number	131	252	36	48	117	(D)	36	41
Grain and bean combines								
farms	72	134	23	35	39	-	17	10
number	73	138	24	36	46	-	17	10
Cotton pickers and strippers								
farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)								
farms	-	1	4	-	2	-	1	-
number	-	(D)	4	-	(D)	-	(D)	-
Hay balers								
farms	24	8	3	21	39	24	12	1
number	24	8	3	21	49	24	12	(D)
Manufactured prior to 1998:								
Tractors								
farms	1,059	970	1,010	689	1,007	905	759	626
number	3,804	3,237	3,227	1,949	3,405	1,903	2,085	1,465
Less than 40 horsepower (PTO)								
farms	634	420	388	292	560	618	467	335
number	970	709	1,000	410	951	(D)	718	522
40 to 99 horsepower (PTO)								
farms	769	782	800	435	749	537	470	412
number	1,348	1,279	1,550	652	1,491	855	962	758
100 horsepower (PTO) or more								
farms	791	608	386	481	545	110	269	96
number	1,486	1,249	677	887	963	(D)	405	185
Grain and bean combines								
farms	669	539	351	414	407	57	230	122
number	710	618	373	435	547	62	234	126

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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	Sibley	Stearns	Steele	Stevens	Swift	Todd	Traverse	Wabasha
<b>VALUE OF MACHINERY AND EQUIPMENT</b>								
Estimated market value of all machinery and equipment								
farms, 2002	942	2,954	830	531	807	1,828	439	977
1997	984	3,132	807	524	776	1,892	411	1,001
\$1,000, 2002	110,027	231,364	103,268	65,323	93,426	86,531	78,591	90,385
1997	110,554	215,451	75,092	72,488	87,048	88,349	61,825	77,393
Average per farm	dollars, 2002	116,801	78,322	124,419	123,018	115,769	47,337	179,022
1997	112,352	68,790	93,050	138,335	112,176	46,696	150,425	77,316
Farms by value group:								
\$1 to \$9,999	2002	130	732	241	171	291	510	157
1997	70	544	154	79	85	407	13	152
\$10,000 to \$19,999	2002	114	328	24	51	21	366	19
1997	75	359	102	27	120	340	39	163
\$20,000 to \$29,999	2002	64	178	45	18	27	222	19
1997	80	323	82	23	125	343	38	139
\$30,000 to \$49,999	2002	112	333	78	30	38	197	145
1997	169	539	67	97	66	299	67	111
\$50,000 to \$69,999	2002	68	225	68	25	71	121	21
1997	87	328	112	18	40	181	26	97
\$70,000 to \$99,999	2002	146	240	49	28	84	131	7
1997	77	434	46	18	14	130	18	100
\$100,000 to \$199,999	2002	127	687	185	92	100	209	67
1997	261	285	140	118	184	124	71	123
\$200,000 to \$499,999	2002	130	178	106	89	146	62	90
1997	140	299	84	126	117	56	123	118
\$500,000 or more	2002	51	53	34	27	29	10	59
1997	25	21	20	18	25	12	16	26
<b>SELECTED MACHINERY AND EQUIPMENT</b>								
Tractors	farms, 2002	813	2,780	726	370	537	1,729	326
1997	924	2,916	781	491	719	1,811	394	864
number, 2002	3,372	8,705	2,999	1,520	2,124	5,204	1,301	2,978
1997	3,157	8,861	2,542	1,639	2,474	5,054	1,264	2,837
Less than 40 horsepower (PTO)	farms, 2002	441	1,376	342	204	288	1,110	159
1997	501	1,740	451	259	432	1,045	156	447
number, 2002	839	2,176	877	322	450	1,802	226	610
1997	828	2,895	805	469	884	1,605	254	847
40 to 99 horsepower (PTO)	farms, 2002	727	2,220	524	281	380	1,332	228
1997	796	2,460	563	310	469	1,464	302	701
number, 2002	1,379	4,328	1,196	471	693	2,426	389	759
1997	1,353	4,249	958	546	783	2,612	501	1,203
100 horsepower (PTO) or more	farms, 2002	508	1,274	461	292	406	539	263
1997	631	1,262	431	305	416	627	256	448
number, 2002	1,154	2,201	926	727	981	976	686	363
1997	976	1,717	779	624	807	837	509	928
Grain and bean combines (see text)	farms, 2002	475	839	394	247	335	341	223
1997	667	913	456	299	441	584	283	329
number, 2002	562	901	468	290	388	444	293	397
1997	775	945	495	365	477	633	359	352
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
number, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms, 2002	19	222	91	6	20	119	3
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
number, 2002	19	296	91	6	20	132	3	87
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hay balers	farms, 2002	323	1,406	263	107	162	1,085	86
1997	458	1,841	331	138	249	1,167	111	488
number, 2002	379	1,819	296	117	186	1,272	102	549
1997	543	2,245	358	163	303	1,464	153	546
<b>2002 INVENTORY</b>								
Manufactured 1998 to 2002:								
Tractors	farms	127	407	110	65	94	71	85
number	190	750	316	119	161	141	147	103
Less than 40 horsepower (PTO)	farms	14	106	29	14	13	12	27
number	14	162	197	15	17	13	23	52
40 to 99 horsepower (PTO)	farms	63	185	13	13	11	51	45
number	75	345	19	14	21	103	11	59
100 horsepower (PTO) or more	farms	59	189	73	53	83	20	55
number	101	243	100	90	123	25	113	65
Grain and bean combines	farms	55	67	31	25	59	9	47
number	57	71	32	31	60	9	57	48
Cotton pickers and strippers	farms	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text)	farms	-	26	33	1	-	1	20
number	-	34	33	(D)	-	(D)	-	20
Hay balers	farms	3	182	48	6	19	64	40
number	3	199	48	6	19	64	-	40
Manufactured prior to 1998:								
Tractors	farms	799	2,641	689	350	520	1,690	318
number	3,182	7,955	2,683	1,401	1,963	5,063	1,154	2,802
Less than 40 horsepower (PTO)	farms	441	1,286	338	192	275	1,100	141
number	825	2,014	680	307	433	1,789	203	440
40 to 99 horsepower (PTO)	farms	688	2,124	520	277	372	1,293	221
number	1,304	3,983	1,177	457	672	2,323	378	672
100 horsepower (PTO) or more	farms	481	1,162	422	275	384	538	253
number	1,053	1,958	826	637	858	951	573	438
Grain and bean combines	farms	422	779	367	223	284	332	183
number	505	830	436	259	328	435	236	283

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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	Wadena	Waseca	Washington	Watowan	Wilkin	Winona	Wright	Yellow Medicine	
<b>VALUE OF MACHINERY AND EQUIPMENT</b>									
Estimated market value of all machinery and equipment									
farms, 2002	713	732	763	601	399	1,096	1,486	987	
1997	698	731	738	586	468	1,098	1,544	899	
\$1,000, 2002	32,498	68,525	49,372	77,137	74,637	90,455	91,279	97,813	
1997	29,781	71,829	42,600	68,432	77,468	91,809	87,776	104,796	
Average per farm	dollars, 2002	45,579	93,613	64,708	128,348	187,060	61,426	99,102	
1997	42,666	98,262	57,724	116,779	165,530	83,614	56,850	116,569	
<b>Farms by value group:</b>									
\$1 to \$9,999	2002	278	184	297	148	68	188	470	328
1997	235	97	229	60	67	129	299	139	
\$10,000 to \$19,999	2002	131	53	146	32	25	175	187	68
1997	178	88	139	40	41	145	294	63	
\$20,000 to \$29,999	2002	52	71	33	25	2	112	143	32
1997	43	49	68	71	31	118	184	72	
\$30,000 to \$49,999	2002	50	76	101	72	45	76	135	76
1997	57	141	113	59	57	153	307	52	
\$50,000 to \$69,999	2002	50	31	18	31	25	108	159	31
1997	60	78	38	63	34	168	129	121	
\$70,000 to \$99,999	2002	84	32	59	43	41	101	76	101
1997	32	36	63	43	31	87	69	95	
\$100,000 to \$199,999	2002	43	165	41	108	62	232	204	192
1997	76	117	31	128	55	135	163	171	
\$200,000 to \$499,999	2002	21	112	41	112	92	89	103	126
1997	13	115	53	112	124	141	77	169	
\$500,000 or more	2002	4	8	27	30	9	15	31	
1997	4	10	4	10	28	22	22	17	
<b>SELECTED MACHINERY AND EQUIPMENT</b>									
Tractors	farms, 2002	671	665	661	520	337	1,020	1,364	773
1997	674	688	666	575	419	1,070	1,383	819	
number, 2002	1,884	2,391	1,822	2,126	1,541	3,576	3,968	2,780	
1997	1,756	2,131	1,642	2,027	1,422	3,634	4,002	2,732	
Less than 40 horsepower (PTO)	farms, 2002	434	307	479	311	150	564	764	368
1997	400	345	466	377	190	632	798	381	
number, 2002	662	598	815	607	299	944	1,252	570	
1997	682	556	823	542	297	1,174	1,377	698	
40 to 99 horsepower (PTO)	farms, 2002	549	527	431	405	178	795	1,048	600
1997	508	528	403	453	261	870	1,082	640	
number, 2002	992	1,026	708	741	400	1,659	2,019	1,061	
1997	867	931	628	829	(D)	1,621	2,028	1,049	
100 horsepower (PTO) or more	farms, 2002	131	390	158	348	281	427	428	525
1997	105	402	121	368	315	485	444	501	
number, 2002	230	767	299	778	842	697	697	1,149	
1997	207	644	191	656	(D)	839	597	985	
Grain and bean combines (see text)	farms, 2002	122	355	127	359	233	323	349	538
1997	184	381	82	379	279	339	477	549	
number, 2002	145	384	133	400	351	328	383	571	
1997	213	429	95	415	373	346	508	610	
Cotton pickers and strippers	farms, 2002	-	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	
number, 2002	-	-	-	-	-	-	-	-	
1997	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms, 2002	34	3	8	12	14	85	125	31
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
number, 2002	44	(D)	8	13	14	88	209	44	
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Hay balers	farms, 2002	285	219	247	129	57	528	716	257
1997	375	231	268	129	63	648	761	264	
number, 2002	420	243	281	155	71	623	890	281	
1997	508	273	349	138	69	813	894	307	
<b>2002 INVENTORY</b>									
<b>Manufactured 1998 to 2002:</b>									
Tractors	farms	37	69	54	36	103	126	145	103
number	55	100	75	53	163	233	225	200	
Less than 40 horsepower (PTO)	farms	10	6	23	9	12	36	63	16
number	10	9	38	9	12	51	86	27	
40 to 99 horsepower (PTO)	farms	23	25	24	6	6	58	55	48
number	23	25	24	6	6	81	76	50	
100 horsepower (PTO) or more	farms	17	49	11	23	91	51	45	77
number	22	66	13	38	145	101	63	123	
Grain and bean combines	farms	-	43	8	30	39	43	27	55
number	-	43	8	32	50	44	28	60	
Cotton pickers and strippers	farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-	
Forage harvesters, self-propelled (see text)	farms	1	1	-	-	-	19	14	-
number	(D)	(D)	-	-	-	-	19	15	-
Hay balers	farms	35	1	8	3	10	64	65	21
number	35	(D)	8	3	10	65	77	27	
<b>Manufactured prior to 1998:</b>									
Tractors	farms	659	662	641	518	326	985	1,343	762
number	1,829	2,291	1,747	2,073	1,378	3,343	3,743	2,580	
Less than 40 horsepower (PTO)	farms	434	301	458	304	138	549	720	358
number	652	589	777	598	287	893	1,166	543	
40 to 99 horsepower (PTO)	farms	535	520	431	405	178	762	1,042	585
number	969	1,001	684	735	394	1,578	1,943	1,011	
100 horsepower (PTO) or more	farms	120	384	158	345	252	415	405	493
number	208	701	286	740	697	872	634	1,026	
Grain and bean combines	farms	122	316	120	332	203	281	324	486
number	145	341	125	368	301	284	355	511	

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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	Minnesota	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	2,925	1	1	37	22	41	1	4
number	3,534	(D)	(D)	48	22	(D)	(D)	4
Hay balers . . . . . farms	28,067	361	138	617	350	353	75	225
number	34,138	432	138	779	449	445	102	(D)
Item	Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clearwater
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	47	7	34	31	13	21	20	45
number	(D)	7	(D)	31	14	21	22	45
Hay balers . . . . . farms	343	412	435	335	94	448	255	266
number	385	585	520	431	117	550	379	337
Item	Cook	Cottonwood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fillmore
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	-	11	44	23	30	57	14	62
number	-	11	88	23	30	(D)	(D)	(D)
Hay balers . . . . . farms	7	189	282	293	219	470	197	676
number	(D)	206	360	320	257	601	(D)	821
Item	Freeborn	Goodhue	Grant	Hennepin	Houston	Hubbard	Isanti	Itasca
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	41	35	47	91	69	28	22	21
number	55	44	47	160	(D)	28	22	21
Hay balers . . . . . farms	355	561	94	273	442	296	470	244
number	(D)	659	103	319	553	313	522	347
Item	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching	Lac qui Parle	Lake	Lake of the Woods
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	7	39	3	6	16	4	-	-
number	7	(D)	3	6	16	(D)	-	-
Hay balers . . . . . farms	169	399	346	162	157	208	27	100
number	207	491	426	185	193	231	29	118
Item	Le Sueur	Lincoln	Lyon	McLeod	Mahnomen	Marshall	Martin	Meeker
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	51	14	34	31	24	65	5	18
number	70	(D)	41	31	24	(D)	5	25
Hay balers . . . . . farms	286	272	351	407	119	199	163	369
number	312	357	406	534	128	250	(D)	413
Item	Mille Lacs	Morrison	Mower	Murray	Nicollet	Nobles	Norman	Olmsted
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	35	152	33	35	22	46	13	16
number	57	154	33	(D)	22	(D)	26	(D)
Hay balers . . . . . farms	449	1,030	334	328	232	282	190	339
number	556	1,290	385	373	(D)	305	230	441
Item	Otter Tail	Pennington	Pine	Pipestone	Polk	Pope	Ramsey	Red Lake
<b>2002 INVENTORY - Con.</b>								
Manufactured prior to 1998 - Con.								
Cotton pickers and strippers . . . . . farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Forage harvesters, self-propelled (see text) . . . . . farms	131	-	64	15	39	51	-	9
number	(D)	-	81	(D)	49	(D)	-	16
Hay balers . . . . . farms	1,144	154	491	292	392	267	2	96
number	1,598	235	638	327	479	313	(D)	113

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