

Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992

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

Chemicals used	County							
	Minnesota	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth
Commercial fertilizer farms, 1997..	48 466	242	228	488	295	564	331	796
	1992..	54 306	249	317	583	327	645	924
acres on which used, 1997..	12 717 478	17 810	25 678	162 848	39 969	87 681	126 821	204 347
	1992..	12 647 349	15 451	25 335	152 713	47 588	86 522	153 537
Cropland fertilized, except pastureland farms, 1997..	47 840	235	224	473	295	564	320	787
	1992..	54 002	249	317	576	320	635	923
acres on which used, 1997..	12 624 922	15 907	25 651	162 347	38 209	87 433	126 708	204 222
	1992..	12 574 755	(D)	25 135	151 312	44 278	85 495	(D)
Pastureland and rangeland fertilized. farms, 1997..	2 525	27	9	37	38	22	11	11
	1992..	1 897	1	19	25	53	32	18
acres on which used, 1997..	92 556	1 903	27	501	1 760	248	113	125
	1992..	72 594	(D)	200	1 401	3 310	1 027	(D)
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	9 839	6	25	52	42	57	13	103
	1992..	12 005	13	65	42	8	56	33
acres on which used, 1997..	1 481 648	2 691	1 467	4 524	5 587	7 937	4 098	12 061
	1992..	1 896 881	1 269	4 128	10 570	3 265	8 031	6 324
Nematodes in crops farms, 1997..	806	—	—	2	2	1	—	—
	1992..	1 150	—	10	—	1	9	—
acres on which used, 1997..	111 460	—	—	(D)	(D)	(D)	—	14
	1992..	164 923	—	10	—	(D)	790	—
Diseases in crops and orchards. farms, 1997..	2 346	3	16	28	11	2	2	1
	1992..	2 202	4	33	20	18	26	7
acres on which used, 1997..	626 566	(D)	1 010	8 595	2 036	(D)	(D)	(D)
	1992..	560 511	1 611	1 117	1 668	2 498	3 549	(D)
Weeds, grass, or brush in crops and pasture farms, 1997..	38 120	72	122	315	58	446	279	721
	1992..	43 792	50	228	367	98	527	350
acres on which used, 1997..	13 192 036	2 870	16 505	122 231	11 994	69 914	181 613	286 063
	1992..	13 156 844	4 887	18 340	129 829	20 883	63 548	187 984
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	1 077	—	—	2	6	17	8	17
	1992..	1 165	1	2	11	3	12	5
acres on which used, 1997..	231 934	—	—	(D)	2 824	863	1 269	6 672
	1992..	190 681	(D)	(D)	510	—	(D)	6 680

Chemicals used	County							
	Brown	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clearwater
Commercial fertilizer farms, 1997..	902	212	589	245	483	452	604	232
	1992..	997	179	610	272	589	693	307
acres on which used, 1997..	184 937	11 684	84 503	29 965	182 514	48 519	377 180	44 489
	1992..	169 906	7 087	86 089	31 133	183 981	52 002	389 549
Cropland fertilized, except pastureland farms, 1997..	902	203	589	229	483	451	599	217
	1992..	997	164	610	257	583	693	307
acres on which used, 1997..	184 883	10 376	84 438	28 555	182 514	47 681	376 822	42 729
	1992..	169 494	6 507	85 896	29 293	183 975	51 793	388 949
Pastureland and rangeland fertilized. farms, 1997..	9	32	16	26	—	48	21	45
	1992..	13	22	7	18	6	15	2
acres on which used, 1997..	54	1 308	65	1 410	—	838	358	1 760
	1992..	412	580	193	1 840	6	209	600
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	177	13	158	11	93	82	207	26
	1992..	180	7	253	20	78	53	47
acres on which used, 1997..	18 066	67	13 579	910	13 602	6 169	68 395	7 190
	1992..	21 939	(D)	20 450	1 874	13 429	6 296	61 083
Nematodes in crops farms, 1997..	10	—	26	—	—	12	25	—
	1992..	21	—	27	—	2	16	45
acres on which used, 1997..	710	—	2 307	—	—	(D)	7 424	—
	1992..	2 569	—	2 014	—	(D)	1 775	7 862
Diseases in crops and orchards. farms, 1997..	13	5	16	10	105	37	122	4
	1992..	2	2	34	2	84	26	152
acres on which used, 1997..	1 298	5	116	729	21 277	2 353	48 933	4 674
	1992..	(D)	(D)	982	(D)	19 255	2 450	48 598
Weeds, grass, or brush in crops and pasture farms, 1997..	741	71	461	71	422	313	504	110
	1992..	860	28	564	105	488	407	584
acres on which used, 1997..	218 921	1 722	68 162	6 837	228 301	28 952	348 304	13 211
	1992..	215 615	2 088	79 554	9 123	239 610	55 492	379 746
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	35	10	1	3	13	22	22	4
	1992..	19	1	18	—	3	—	2
acres on which used, 1997..	11 748	200	(D)	765	4 660	326	8 463	1 730
	1992..	1 914	(D)	438	—	150	—	6 360

Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.

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Chemicals used	County							
	Cook	Cottonwood	Crow Wing	Dakota	Dodge	Douglas	Faribault	Fillmore
Commercial fertilizer farms, 1997..	5	642	269	561	494	562	752	1 034
..... farms, 1992..	3	730	287	625	535	575	851	1 128
acres on which used, 1997..	29	167 247	30 141	129 222	138 090	93 991	240 719	185 573
..... acres on which used, 1992..	5	189 978	19 797	121 231	134 516	94 897	236 043	172 311
Cropland fertilized, except pastureland farms, 1997..	5	641	254	542	494	546	745	1 024
..... farms, 1992..	3	730	287	625	535	575	851	1 121
acres on which used, 1997..	29	166 453	28 404	128 184	137 151	93 068	240 507	180 955
..... acres on which used, 1992..	5	189 493	19 217	121 001	134 206	(D)	(D)	163 915
Pastureland and rangeland fertilized..... farms, 1997..	—	19	36	44	41	32	16	120
..... farms, 1992..	—	16	26	7	6	1	3	115
acres on which used, 1997..	—	794	1 737	1 038	939	923	212	4 618
..... acres on which used, 1992..	—	485	580	230	310	(D)	(D)	8 396
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	1	48	15	273	140	36	130	574
..... farms, 1992..	1	93	30	285	202	48	227	680
acres on which used, 1997..	(D)	8 715	1 902	27 562	26 997	7 958	24 778	66 488
..... acres on which used, 1992..	(D)	11 182	184	40 830	28 301	5 979	38 906	87 729
Nematodes in crops farms, 1997..	—	—	—	2	1	7	13	33
..... farms, 1992..	—	9	1	15	5	6	11	42
acres on which used, 1997..	—	—	—	(D)	(D)	440	1 830	1 638
..... acres on which used, 1992..	—	1 126	(D)	1 184	1 194	240	1 935	4 540
Diseases in crops and orchards..... farms, 1997..	—	12	—	53	12	—	4	7
..... farms, 1992..	—	1	—	20	5	2	38	14
acres on which used, 1997..	—	516	9	4 610	8 147	—	(D)	126
..... acres on which used, 1992..	—	(D)	36	352	1 157	(D)	4 473	738
Weeds, grass, or brush in crops and pasture farms, 1997..	—	585	123	376	412	474	654	735
..... farms, 1992..	—	715	146	431	446	525	732	916
acres on which used, 1997..	—	274 477	17 062	123 879	159 241	90 208	310 183	146 188
..... acres on which used, 1992..	—	281 317	15 332	104 912	144 729	86 503	309 266	150 013
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	—	22	2	12	24	11	4	14
..... farms, 1992..	—	10	—	9	14	5	15	20
acres on which used, 1997..	—	2 788	(D)	1 199	5 664	395	3 335	2 351
..... acres on which used, 1992..	—	2 489	—	1 673	4 780	1 005	1 851	2 623

Chemicals used	County							
	Freeborn	Goodhue	Grant	Hennepin	Houston	Hubbard	Isanti	Itasca
Commercial fertilizer farms, 1997..	834	1 071	305	313	660	179	432	163
..... farms, 1992..	905	1 054	378	381	702	129	489	143
acres on which used, 1997..	201 611	191 752	166 623	29 901	84 985	38 685	61 454	15 045
..... acres on which used, 1992..	212 964	177 007	174 319	32 246	82 292	27 276	59 077	6 325
Cropland fertilized, except pastureland farms, 1997..	834	1 053	305	283	651	179	424	163
..... farms, 1992..	905	1 046	378	381	680	129	481	143
acres on which used, 1997..	201 291	190 501	166 543	29 055	82 559	38 685	60 822	13 356
..... acres on which used, 1992..	212 613	175 198	(D)	32 108	78 654	26 786	58 234	(D)
Pastureland and rangeland fertilized..... farms, 1997..	22	58	8	46	94	—	46	26
..... farms, 1992..	13	81	1	23	108	14	38	1
acres on which used, 1997..	320	1 251	80	846	2 426	—	632	1 689
..... acres on which used, 1992..	351	1 809	(D)	138	3 638	490	843	(D)
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	179	433	69	61	381	9	41	24
..... farms, 1992..	298	560	35	119	387	13	42	18
acres on which used, 1997..	18 451	50 811	13 386	4 627	31 465	(D)	3 886	246
..... acres on which used, 1992..	48 043	63 687	5 649	6 350	31 190	(D)	2 502	95
Nematodes in crops farms, 1997..	9	41	—	4	21	—	1	—
..... farms, 1992..	12	41	1	14	23	—	5	1
acres on which used, 1997..	446	3 190	—	(D)	1 107	—	(D)	—
..... acres on which used, 1992..	1 655	3 632	(D)	1 265	3 039	—	250	(D)
Diseases in crops and orchards..... farms, 1997..	10	35	34	17	28	4	12	10
..... farms, 1992..	39	11	16	46	13	12	10	20
acres on which used, 1997..	2 704	4 324	11 956	(D)	1 039	13 862	263	234
..... acres on which used, 1992..	7 058	455	7 214	1 107	252	5 156	260	40
Weeds, grass, or brush in crops and pasture farms, 1997..	717	750	274	189	508	71	295	68
..... farms, 1992..	775	858	348	272	430	75	378	44
acres on which used, 1997..	265 517	149 888	189 126	28 704	57 950	27 278	53 248	3 138
..... acres on which used, 1992..	252 931	155 623	198 548	27 500	56 410	20 960	54 283	1 170
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	3	—	10	5	9	9	17	—
..... farms, 1992..	24	23	1	20	3	1	8	8
acres on which used, 1997..	820	—	1 708	11	2 141	(D)	1 964	—
..... acres on which used, 1992..	6 795	1 842	(D)	549	(D)	(D)	8	106

Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.

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Chemicals used	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching	Lac qui Parle	Lake	Lake of the Woods
	Commercial fertilizer farms, 1997..	779	299	720	326	99	643	12
..... 1992..	874	389	732	444	94	655	8	126
acres on which used, 1997..	191 157	38 019	194 461	302 694	9 198	225 534	137	41 406
..... 1992..	203 722	37 988	168 129	310 476	8 530	184 819	169	37 023
Cropland fertilized, except pastureland farms, 1997..	771	299	720	319	97	629	12	107
..... 1992..	873	381	732	444	94	655	8	116
acres on which used, 1997..	190 542	35 568	194 212	301 994	9 018	224 218	137	40 701
..... 1992..	202 845	36 142	167 603	309 096	8 030	184 573	(D)	36 623
Pastureland and rangeland fertilized..... farms, 1997..	18	29	17	9	5	21	—	11
..... 1992..	13	26	26	9	16	5	1	12
acres on which used, 1997..	615	2 451	249	700	180	1 316	—	705
..... 1992..	877	1 846	526	1 380	500	246	(D)	400
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	131	21	87	121	13	110	4	32
..... 1992..	93	32	209	144	1	50	2	27
acres on which used, 1997..	19 418	1 066	20 191	24 417	750	17 199	4	7 889
..... 1992..	18 870	1 707	31 598	44 138	(D)	13 930	(D)	5 484
Nematodes in crops farms, 1997..	29	—	26	10	—	10	—	1
..... 1992..	4	8	8	3	—	7	—	—
acres on which used, 1997..	6 216	—	3 183	2 083	—	5 560	—	(D)
..... 1992..	450	240	955	711	—	1 428	—	—
Diseases in crops and orchards..... farms, 1997..	18	—	37	84	12	10	4	29
..... 1992..	5	—	19	49	1	3	1	19
acres on which used, 1997..	576	—	6 053	26 101	967	5 560	4	7 392
..... 1992..	1 221	—	5 162	20 847	(D)	1 816	(D)	7 307
Weeds, grass, or brush in crops and pasture farms, 1997..	668	188	559	269	33	569	1	57
..... 1992..	763	223	624	374	37	615	—	72
acres on which used, 1997..	258 702	20 561	223 675	238 898	4 239	263 143	(D)	23 647
..... 1992..	292 557	25 441	190 000	273 679	2 212	240 329	—	25 452
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	2	—	31	16	4	2	—	2
..... 1992..	1	2	32	6	6	1	—	33
acres on which used, 1997..	(D)	—	6 651	5 024	(D)	(D)	—	(D)
..... 1992..	(D)	(D)	3 576	1 505	240	(D)	—	1 327
Chemicals used								
	Le Sueur	Lincoln	Lyon	McLeod	Mahnomen	Marshall	Martin	Meeker
Commercial fertilizer farms, 1997..	535	453	699	762	234	706	797	655
..... 1992..	606	485	745	943	275	870	929	756
acres on which used, 1997..	102 535	122 266	201 433	136 551	120 073	488 074	245 975	154 885
..... 1992..	84 643	113 493	194 430	136 796	114 224	516 909	230 278	150 388
Cropland fertilized, except pastureland farms, 1997..	530	433	692	740	234	678	797	648
..... 1992..	606	481	745	943	275	870	929	756
acres on which used, 1997..	101 695	121 800	200 789	136 354	119 298	484 522	245 451	153 767
..... 1992..	84 498	111 929	193 764	136 533	112 816	513 220	230 053	149 908
Pastureland and rangeland fertilized..... farms, 1997..	16	29	30	38	9	62	9	43
..... 1992..	11	37	26	17	30	39	8	21
acres on which used, 1997..	840	466	644	197	775	3 552	524	1 118
..... 1992..	145	1 564	666	263	1 408	3 689	225	480
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	120	82	209	108	13	135	90	116
..... 1992..	134	71	171	161	11	190	153	160
acres on which used, 1997..	9 338	6 584	23 355	16 902	2 970	40 743	11 426	14 288
..... 1992..	20 180	10 488	22 281	11 660	3 923	47 319	23 346	24 772
Nematodes in crops farms, 1997..	—	5	21	—	11	19	25	11
..... 1992..	8	10	21	28	3	36	28	21
acres on which used, 1997..	—	293	610	—	2 940	2 049	2 941	1 440
..... 1992..	520	434	3 586	1 808	3 528	5 172	2 570	2 408
Diseases in crops and orchards..... farms, 1997..	—	12	16	2	9	156	—	10
..... 1992..	5	4	1	10	15	126	2	9
acres on which used, 1997..	—	327	1 753	(D)	8 296	56 320	—	(D)
..... 1992..	80	524	(D)	1 195	3 291	52 445	(D)	1 990
Weeds, grass, or brush in crops and pasture farms, 1997..	472	378	566	615	160	541	752	543
..... 1992..	531	503	666	809	200	643	840	659
acres on which used, 1997..	122 745	138 171	230 765	140 396	99 882	397 172	318 290	161 629
..... 1992..	115 254	122 413	243 510	154 928	83 433	431 832	330 646	160 579
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	2	—	4	1	5	28	1	12
..... 1992..	3	1	10	12	1	46	13	5
acres on which used, 1997..	(D)	—	812	(D)	1 157	8 672	(D)	4 368
..... 1992..	(D)	(D)	2 279	1 696	(D)	5 599	3 700	845

Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.

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

Chemicals used	Mille Lacs	Morrison	Mower	Murray	Nicollet	Nobles	Norman	Olmsted
	Commercial fertilizer farms, 1997..	424	1 190	852	691	593	860	466
..... 1992..	482	1 273	965	744	671	955	472	924
acres on which used, 1997..	39 335	145 357	211 228	196 631	126 185	186 371	311 927	145 293
..... 1992..	48 741	133 615	212 183	175 687	128 344	207 543	329 550	134 516
Cropland fertilized, except pastureland farms, 1997..	418	1 176	852	688	593	850	452	765
..... 1992..	482	1 273	965	736	671	955	472	885
acres on which used, 1997..	39 043	143 227	211 155	196 312	125 145	184 907	311 558	142 972
..... 1992..	48 522	132 428	211 703	175 390	128 193	207 207	329 094	132 370
Pastureland and rangeland fertilized..... farms, 1997..	28	76	13	13	8	21	15	68
..... 1992..	7	29	9	18	5	15	17	49
acres on which used, 1997..	292	2 130	73	319	1 040	1 464	369	2 321
..... 1992..	219	1 187	480	297	151	336	456	2 146
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	23	128	164	65	88	138	112	322
..... 1992..	69	155	319	116	84	189	141	386
acres on which used, 1997..	2 981	12 228	22 063	6 208	7 701	15 090	31 268	49 599
..... 1992..	4 667	12 486	42 451	23 019	12 131	26 641	37 380	59 635
Nematodes in crops farms, 1997..	1	24	27	8	—	17	7	30
..... 1992..	13	48	15	8	7	3	22	22
acres on which used, 1997..	(D)	2 124	1 128	660	—	3 029	4 554	1 432
..... 1992..	740	5 523	1 465	831	1 281	917	7 256	4 110
Diseases in crops and orchards..... farms, 1997..	2	17	8	1	—	42	92	41
..... 1992..	13	30	8	7	3	13	49	9
acres on which used, 1997..	(D)	1 734	2 556	(D)	—	4 350	30 400	892
..... 1992..	108	4 075	1 050	2 658	(D)	420	23 895	(D)
Weeds, grass, or brush in crops and pasture farms, 1997..	245	867	722	610	551	719	396	680
..... 1992..	380	877	857	603	566	886	411	669
acres on which used, 1997..	27 406	90 504	277 269	257 127	187 282	259 950	298 067	153 681
..... 1992..	40 838	88 049	254 183	242 610	169 128	278 862	297 626	120 938
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	—	40	29	1	1	28	5	23
..... 1992..	6	10	25	2	12	9	15	6
acres on which used, 1997..	—	4 591	3 580	(D)	(D)	11 351	616	4 688
..... 1992..	262	1 717	7 881	(D)	3 419	6 332	1 964	1 452
Chemicals used	Otter Tail	Pennington	Pine	Pipestone	Polk	Pope	Ramsey	Red Lake
Commercial fertilizer farms, 1997..	1 553	336	513	458	952	517	31	222
..... 1992..	1 668	367	560	528	1 108	628	30	261
acres on which used, 1997..	338 360	161 623	63 073	111 650	745 107	164 181	422	94 707
..... 1992..	302 866	173 892	56 287	108 207	789 614	146 299	738	108 976
Cropland fertilized, except pastureland farms, 1997..	1 537	320	513	458	939	517	30	214
..... 1992..	1 657	367	548	517	1 102	627	30	261
acres on which used, 1997..	334 987	159 177	61 800	109 963	741 648	163 616	(D)	88 644
..... 1992..	301 228	172 194	55 644	107 862	788 044	145 614	(D)	107 954
Pastureland and rangeland fertilized..... farms, 1997..	95	28	40	29	32	17	1	44
..... 1992..	70	17	48	17	26	11	1	13
acres on which used, 1997..	3 373	2 446	1 273	1 687	3 459	565	(D)	6 063
..... 1992..	1 638	1 698	643	345	1 570	685	(D)	1 022
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	67	47	37	114	343	111	20	49
..... 1992..	101	25	48	144	389	122	21	32
acres on which used, 1997..	18 876	10 984	1 766	12 218	131 281	19 322	75	8 619
..... 1992..	13 919	13 539	4 288	17 618	170 479	21 277	210	10 682
Nematodes in crops farms, 1997..	2	—	1	2	47	8	1	11
..... 1992..	10	21	1	7	71	18	1	—
acres on which used, 1997..	(D)	—	(D)	(D)	19 002	1 000	(D)	1 353
..... 1992..	261	8 580	(D)	1 771	24 534	3 155	(D)	—
Diseases in crops and orchards..... farms, 1997..	36	34	19	9	296	19	8	13
..... 1992..	50	42	8	—	238	3	11	19
acres on which used, 1997..	7 727	9 645	2 940	842	139 191	3 822	25	5 860
..... 1992..	6 104	21 781	394	—	131 156	780	37	9 676
Weeds, grass, or brush in crops and pasture farms, 1997..	1 186	275	286	416	756	511	10	148
..... 1992..	1 334	268	357	443	944	529	19	180
acres on which used, 1997..	272 507	132 478	34 787	139 604	604 536	187 138	(D)	73 207
..... 1992..	243 640	147 123	29 179	122 291	697 359	150 243	214	82 775
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	49	1	10	10	69	17	3	2
..... 1992..	59	2	5	24	47	6	3	2
acres on which used, 1997..	5 535	(D)	313	600	27 740	1 447	13	(D)
..... 1992..	3 180	(D)	82	3 362	12 941	561	7	(D)

Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.

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

Chemicals used	Redwood	Renville	Rice	Rock	Roseau	St. Louis	Scott	Sherburne
	Commercial fertilizer farms, 1997..	958	928	631	568	533	251	388
..... 1992..	1 102	1 092	669	617	601	303	497	329
acres on which used, 1997..	266 507	330 620	106 943	138 886	301 037	10 369	56 019	46 798
..... 1992..	241 718	331 267	104 130	130 540	253 275	12 678	60 373	55 200
Cropland fertilized, except pastureland farms, 1997..	957	928	621	548	527	241	388	314
..... 1992..	1 101	1 092	669	608	601	288	481	322
acres on which used, 1997..	266 397	330 434	106 517	137 978	297 033	9 673	56 019	46 523
..... 1992..	241 642	330 982	104 005	129 302	251 255	12 305	59 070	54 779
Pastureland and rangeland fertilized..... farms, 1997..	7	18	29	51	36	27	—	15
..... 1992..	4	14	5	38	45	23	27	20
acres on which used, 1997..	110	186	426	908	4 004	696	—	275
..... 1992..	76	285	125	1 238	2 020	373	1 303	421
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	151	186	183	133	94	21	61	56
..... 1992..	85	212	317	209	117	22	111	97
acres on which used, 1997..	14 286	22 833	22 934	20 403	42 147	92	5 582	11 645
..... 1992..	14 386	53 787	42 749	28 503	23 008	132	10 493	21 942
Nematodes in crops farms, 1997..	9	8	23	16	—	—	17	1
..... 1992..	8	6	33	19	11	—	27	11
acres on which used, 1997..	702	488	3 604	2 267	—	—	2 201	(D)
..... 1992..	2 806	2 067	5 712	1 900	1 130	—	1 994	1 237
Diseases in crops and orchards..... farms, 1997..	34	101	23	2	120	20	19	38
..... 1992..	17	76	34	13	169	13	26	34
acres on which used, 1997..	3 174	25 906	3 417	(D)	54 676	88	1 622	5 385
..... 1992..	2 701	25 409	3 525	1 901	50 162	104	996	4 581
Weeds, grass, or brush in crops and pasture farms, 1997..	822	864	559	493	411	93	328	223
..... 1992..	1 017	1 021	621	559	409	63	434	208
acres on which used, 1997..	359 674	468 153	135 078	187 151	237 736	3 255	52 951	26 803
..... 1992..	361 712	439 737	106 742	177 921	195 493	1 675	55 667	41 722
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	6	16	6	24	21	5	18	23
..... 1992..	18	43	15	24	20	1	7	33
acres on which used, 1997..	390	5 212	180	13 791	5 905	212	1 549	3 672
..... 1992..	3 947	8 793	952	5 495	3 125	(D)	497	4 231
Chemicals used								
	Sibley	Stearns	Steele	Stevens	Swift	Todd	Traverse	Wabasha
Commercial fertilizer farms, 1997..	781	1 925	547	348	570	1 148	327	708
..... 1992..	815	2 246	608	457	675	1 260	366	697
acres on which used, 1997..	164 726	270 166	133 874	170 180	219 532	131 109	171 448	100 641
..... 1992..	155 517	300 826	136 232	179 581	227 505	131 485	214 513	105 668
Cropland fertilized, except pastureland farms, 1997..	781	1 925	541	348	570	1 141	327	672
..... 1992..	808	2 246	608	457	675	1 244	366	695
acres on which used, 1997..	(D)	269 373	133 727	170 054	219 052	129 334	171 200	96 113
..... 1992..	155 169	299 434	(D)	178 801	226 490	130 210	(D)	104 252
Pastureland and rangeland fertilized..... farms, 1997..	2	31	14	9	19	72	9	92
..... 1992..	24	49	2	4	22	45	2	47
acres on which used, 1997..	(D)	793	147	126	480	1 775	248	4 528
..... 1992..	348	1 392	(D)	780	1 015	1 275	(D)	1 416
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	74	306	155	134	58	68	106	334
..... 1992..	121	453	215	56	112	85	45	252
acres on which used, 1997..	9 446	30 372	16 083	38 162	14 015	6 159	31 982	30 726
..... 1992..	18 814	43 973	45 082	15 964	29 227	8 334	14 433	24 459
Nematodes in crops farms, 1997..	11	49	3	3	—	15	1	14
..... 1992..	7	84	5	1	11	16	2	21
acres on which used, 1997..	414	4 032	900	764	—	181	(D)	314
..... 1992..	1 429	6 028	2 455	(D)	883	448	(D)	2 186
Diseases in crops and orchards..... farms, 1997..	22	9	4	2	5	14	17	13
..... 1992..	13	31	4	2	19	19	20	10
acres on which used, 1997..	1 733	731	717	(D)	1 810	3 948	5 292	260
..... 1992..	2 318	1 039	1 913	(D)	2 422	1 325	3 727	681
Weeds, grass, or brush in crops and pasture farms, 1997..	669	1 463	460	333	515	865	298	518
..... 1992..	783	1 705	530	371	534	998	330	506
acres on which used, 1997..	206 391	189 316	143 851	204 506	288 690	86 697	209 386	86 898
..... 1992..	197 169	201 158	136 786	202 772	255 890	94 440	247 627	72 089
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	9	28	20	33	1	2	15	21
..... 1992..	2	43	9	9	24	43	32	24
acres on which used, 1997..	963	4 485	5 541	4 081	(D)	(D)	4 502	1 004
..... 1992..	(D)	4 023	1 000	2 927	6 639	1 944	11 731	3 353

Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.

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

Chemicals used	Wadena	Waseca	Washington	Watsonwan	Wilkin	Winona	Wright	Yellow Medicine
Commercial fertilizer farms, 1997..	411	554	338	502	361	716	801	658
..... farms, 1992..	361	650	386	567	374	780	1 051	770
acres on which used, 1997..	47 643	133 838	27 487	127 745	328 777	97 992	111 176	204 104
acres on which used, 1992..	42 868	131 228	47 470	131 475	287 239	114 601	114 612	208 635
Cropland fertilized, except pastureland farms, 1997..	395	547	333	502	361	699	775	657
..... farms, 1992..	361	650	379	567	374	779	1 045	770
acres on which used, 1997..	47 323	133 286	26 250	127 497	(D)	94 346	110 695	202 019
acres on which used, 1992..	(D)	131 228	45 809	131 475	287 239	111 489	114 441	208 447
Pastureland and rangeland fertilized..... farms, 1997..	22	21	36	11	1	110	40	19
..... farms, 1992..	2	—	75	—	—	73	21	5
acres on which used, 1997..	320	552	1 237	248	(D)	3 646	481	2 085
acres on which used, 1992..	(D)	—	1 661	—	—	3 112	171	188
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	20	158	75	43	135	345	118	126
..... farms, 1992..	16	176	121	104	122	424	227	84
acres on which used, 1997..	2 321	14 619	4 904	1 844	38 146	42 378	11 163	17 187
acres on which used, 1992..	1 934	25 669	10 276	16 695	38 295	50 053	17 552	16 513
Nematodes in crops farms, 1997..	1	13	—	7	5	26	1	19
..... farms, 1992..	1	10	15	9	5	46	12	6
acres on which used, 1997..	(D)	1 300	—	7	4 751	1 760	(D)	2 924
acres on which used, 1992..	(D)	453	2 584	738	1 398	3 123	1 227	1 155
Diseases in crops and orchards..... farms, 1997..	4	15	53	7	103	12	41	19
..... farms, 1992..	5	12	61	5	71	41	42	5
acres on which used, 1997..	2 379	1 310	1 243	7	34 867	948	2 153	1 272
acres on which used, 1992..	783	152	5 394	2 277	23 353	2 992	1 829	730
Weeds, grass, or brush in crops and pasture farms, 1997..	287	439	233	456	334	506	687	578
..... farms, 1992..	269	570	233	511	352	624	837	688
acres on which used, 1997..	28 327	160 430	28 085	190 333	319 349	69 180	99 477	271 013
acres on which used, 1992..	26 908	156 579	37 954	172 165	303 702	70 237	107 695	267 567
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	18	2	19	—	18	37	33	2
..... farms, 1992..	12	8	13	9	6	59	20	18
acres on which used, 1997..	(D)	(D)	2 708	—	1 791	2 352	933	(D)
acres on which used, 1992..	1 509	1 114	374	2 542	3 971	4 125	525	4 661