

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	Montana	Beaverhead	Big Horn	Blaine	Broadwater	Carbon	Carter
	Commercial fertilizer farms, 1997..	12 284	207	242	215	132	332
..... 1992..	11 327	180	233	227	126	321	47
acres on which used, 1997..	6 419 445	95 537	170 301	155 571	55 142	63 377	31 654
..... 1992..	5 428 561	94 013	145 482	98 799	54 769	57 828	15 631
Cropland fertilized, except pastureland farms, 1997..	11 705	206	228	208	127	318	57
..... 1992..	10 734	165	223	218	121	292	46
acres on which used, 1997..	6 251 073	89 120	168 234	153 151	49 438	55 670	(D)
..... 1992..	5 300 347	87 435	142 848	97 253	53 639	50 834	(D)
Pastureland and rangeland fertilized..... farms, 1997..	1 672	26	31	8	20	88	2
..... 1992..	1 510	27	19	20	9	98	1
acres on which used, 1997..	168 372	6 417	2 067	2 420	5 704	7 707	(D)
..... 1992..	128 214	6 578	2 634	1 546	1 130	6 994	(D)
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	1 626	19	96	29	15	79	36
..... 1992..	2 557	65	106	23	27	75	14
acres on which used, 1997..	399 395	5 767	21 922	4 936	4 113	14 240	9 826
..... 1992..	772 737	16 621	60 515	28 561	5 055	9 936	3 515
Nematodes in crops farms, 1997..	168	—	8	1	1	17	—
..... 1992..	330	—	28	—	—	14	1
acres on which used, 1997..	26 420	—	1 357	(D)	(D)	1 604	(D)
..... 1992..	73 166	—	3 087	—	—	1 029	(D)
Diseases in crops and orchards..... farms, 1997..	661	2	7	10	7	20	1
..... 1992..	605	10	6	7	1	10	8
acres on which used, 1997..	358 148	(D)	2 427	13 632	6 545	1 724	(D)
..... 1992..	316 018	1 250	2 195	13 803	(D)	651	960
Weeds, grass, or brush in crops and pasture farms, 1997..	9 825	81	192	160	147	284	82
..... 1992..	9 765	80	166	192	98	225	115
acres on which used, 1997..	5 407 461	17 474	118 045	176 397	44 362	44 569	31 241
..... 1992..	4 694 845	17 443	115 432	127 922	40 038	31 028	26 010
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	252	2	31	—	2	4	—
..... 1992..	266	2	5	2	6	2	—
acres on which used, 1997..	70 806	(D)	2 400	—	(D)	646	(D)
..... 1992..	72 340	(D)	608	(D)	246	(D)	(D)
Chemicals used							
	Cascade	Chouteau	Custer	Daniels	Dawson	Deer Lodge	Fallon
Commercial fertilizer farms, 1997..	367	492	166	181	298	34	141
..... 1992..	389	558	168	120	316	29	115
acres on which used, 1997..	222 758	605 164	42 202	164 212	207 879	5 966	55 918
..... 1992..	206 585	608 795	36 964	58 100	180 695	5 432	54 939
Cropland fertilized, except pastureland farms, 1997..	324	492	157	181	298	34	141
..... 1992..	369	558	161	120	315	29	115
acres on which used, 1997..	220 368	(D)	41 408	164 212	206 315	(D)	55 378
..... 1992..	204 050	605 103	35 633	(D)	180 210	(D)	(D)
Pastureland and rangeland fertilized..... farms, 1997..	64	1	31	—	11	4	6
..... 1992..	45	18	13	1	11	2	1
acres on which used, 1997..	2 390	(D)	794	—	1 564	(D)	540
..... 1992..	2 535	3 692	1 331	(D)	485	(D)	(D)
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	38	84	53	20	75	1	28
..... 1992..	87	111	58	47	32	—	4
acres on which used, 1997..	22 360	45 377	7 446	7 858	13 328	(D)	4 864
..... 1992..	41 907	71 803	13 654	23 043	5 898	—	(D)
Nematodes in crops farms, 1997..	—	1	3	—	1	—	—
..... 1992..	5	4	5	1	9	—	1
acres on which used, 1997..	—	(D)	457	—	(D)	—	—
..... 1992..	6 725	1 525	649	(D)	2 311	—	(D)
Diseases in crops and orchards..... farms, 1997..	21	33	12	41	32	—	1
..... 1992..	12	16	3	12	2	1	—
acres on which used, 1997..	25 308	30 169	983	56 633	18 271	(D)	(D)
..... 1992..	9 273	20 690	(D)	18 511	(D)	(D)	—
Weeds, grass, or brush in crops and pasture farms, 1997..	364	454	107	152	245	20	115
..... 1992..	357	451	86	222	251	17	108
acres on which used, 1997..	182 676	519 476	31 124	159 886	180 974	5 290	32 001
..... 1992..	158 826	355 955	31 378	161 667	153 951	4 652	54 798
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	13	22	—	7	—	—	1
..... 1992..	12	35	—	3	3	—	1
acres on which used, 1997..	7 114	20 549	—	2 837	—	—	(D)
..... 1992..	8 012	16 687	—	2 472	850	—	(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	Fergus							Flathead							Gallatin							Garfield							Glacier							Golden Valley							Granite						
	1997..		1992..		1997..		1992..		1997..		1992..		1997..		1992..		1997..		1992..		1997..		1992..		1997..		1992..		1997..		1992..		1997..		1992..														
Commercial fertilizer	farms,	397	462	444	434	478	465	85	89	197	186	58	61	62	56	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62															
acres on which used,	262 676	276 550	53 052	60 873	113 486	127 652	49 642	50 103	197 234	218 144	38 625	21 835	17 785	14 280	54	52	16 404	13 455	11	8	1 381	825	5	18	578	2 770	—	1	—	—	—	—	—																
Cropland fertilized, except pastureland	farms,	391	450	431	392	436	426	84	89	196	186	58	61	54	52	16 404	13 455	11	8	1 381	825	5	18	578	2 770	—	1	—	—	—	—	—	—																
acres on which used,	258 941	273 985	51 306	56 125	104 019	116 764	(D)	(D)	189 970	(D)	38 625	21 835	16 404	13 455	11	8	1 381	825	5	18	578	2 770	—	1	—	—	—	—	—	—	—	—	—																
Pastureland and rangeland fertilized.....	farms,	36	34	44	97	143	81	5	2	29	6	3	—	11	8	1 381	825	5	18	578	2 770	—	1	—	—	—	—	—	—	—	—	—	—																
acres on which used,	3 735	2 565	1 746	4 748	9 467	10 888	(D)	(D)	7 264	(D)	260	—	1 381	825	5	18	578	2 770	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—																
Sprays, dusts, granules, fumigants, etc., to control—																																																	
Insects on hay and other crops	farms,	45	117	71	57	61	100	10	29	12	20	5	7	5	18	578	2 770	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
acres on which used,	11 201	30 519	7 053	4 699	9 228	12 288	1 323	14 902	17 304	19 031	1 388	2 975	578	2 770	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
Nematodes in crops	farms,	1	10	7	10	2	7	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
acres on which used,	(D)	3 060	503	776	(D)	470	(D)	(D)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
Diseases in crops and orchards.....	farms,	13	31	22	21	37	24	1	1	23	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
acres on which used,	10 924	10 741	3 178	2 196	5 880	4 342	(D)	(D)	19 025	24 847	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
Weeds, grass, or brush in crops and pasture	farms,	451	447	255	238	307	321	76	99	174	159	44	41	44	49	4 774	6 239	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
acres on which used,	207 844	186 988	33 136	45 625	71 679	75 520	67 665	61 609	173 372	164 604	24 454	15 702	4 774	6 239	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
Chemicals used on crops to control growth, thin fruit, or defoliate	farms,	8	—	2	2	24	25	1	1	1	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																
acres on which used,	820	—	(D)	(D)	1 743	2 045	(D)	(D)	(D)	(D)	(D)	(D)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																

Chemicals used	Hill		Jefferson		Judith Basin		Lake		Lewis and Clark		Liberty		Lincoln		
	1997..		1992..		1997..		1992..		1997..		1992..		1997..		1992..
Commercial fertilizer	farms,	429	367	71	45	204	151	480	459	205	217	204	176	104	120
acres on which used,	415 019	323 107	15 390	10 814	149 661	119 543	56 714	59 616	35 324	35 501	275 820	223 464	5 152	3 923	
Cropland fertilized, except pastureland	farms,	429	367	66	45	204	151	419	432	205	191	204	176	90	109
acres on which used,	(D)	(D)	15 232	10 650	148 560	118 433	40 873	52 551	35 007	32 731	10 077	223 464	4 722	3 098	
Pastureland and rangeland fertilized.....	farms,	4	1	9	5	17	5	193	70	17	66	2	—	14	22
acres on which used,	(D)	(D)	158	164	1 101	1 110	15 841	7 065	317	2 770	(D)	—	430	825	
Sprays, dusts, granules, fumigants, etc., to control—															
Insects on hay and other crops	farms,	39	58	4	7	20	76	112	167	6	15	4	27	12	1
acres on which used,	24 227	25 435	20	91	8 573	24 141	2 890	5 923	1 142	2 886	3 266	18 014	181	(D)	
Nematodes in crops	farms,	—	2	—	—	—	18	7	10	—	8	—	3	11	—
acres on which used,	(D)	(D)	—	—	6 094	—	—	598	21	528	3 152	—	180	—	
Diseases in crops and orchards.....	farms,	37	29	5	—	15	26	95	110	1	—	21	15	12	1
acres on which used,	35 953	24 070	2 400	—	8 352	19 469	1 811	3 368	(D)	—	10 697	16 888	181	(D)	
Weeds, grass, or brush in crops and pasture	farms,	422	415	71	81	207	215	273	298	170	144	182	153	61	53
acres on which used,	418 294	314 460	6 728	10 512	114 284	88 971	27 509	34 622	25 957	22 624	235 229	167 606	1 103	1 983	
Chemicals used on crops to control growth, thin fruit, or defoliate	farms,	2	8	—	—	—	—	5	37	—	—	10	3	1	—
acres on which used,	(D)	3 260	—	—	—	—	—	4 041	1 453	—	2 879	(D)	—	(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	McCone	Madison	Meagher	Mineral	Missoula	Musselshell	Park
	Commercial fertilizer farms, 1997..	238	212	65	34	228	82
..... farms, 1992..	231	176	57	29	167	67	138
acres on which used, 1997..	130 659	59 201	48 458	2 455	16 213	43 544	37 941
..... farms, 1992..	179 058	58 599	33 482	2 193	13 151	34 492	25 103
Cropland fertilized, except pastureland farms, 1997..	238	202	63	28	203	82	180
..... farms, 1992..	231	173	57	28	122	67	122
acres on which used, 1997..	129 659	52 264	(D)	2 167	15 092	(D)	35 471
..... farms, 1992..	(D)	53 379	(D)	1 989	10 363	33 869	21 705
Pastureland and rangeland fertilized..... farms, 1997..	10	36	8	10	58	1	32
..... farms, 1992..	1	38	2	5	65	5	21
acres on which used, 1997..	1 000	6 937	(D)	288	1 121	(D)	2 470
..... farms, 1992..	(D)	5 220	(D)	204	2 788	623	3 398
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	26	36	—	—	10	9	34
..... farms, 1992..	28	40	7	—	4	10	22
acres on which used, 1997..	6 188	3 374	—	—	183	561	2 425
..... farms, 1992..	6 558	7 628	1 732	(D)	6	12 568	2 652
Nematodes in crops farms, 1997..	—	—	—	—	—	—	7
..... farms, 1992..	12	—	—	—	—	—	2
acres on which used, 1997..	—	—	—	—	—	—	210
..... farms, 1992..	1 568	—	—	—	—	—	(D)
Diseases in crops and orchards..... farms, 1997..	9	17	—	2	9	—	—
..... farms, 1992..	12	3	—	—	1	—	13
acres on which used, 1997..	3 303	2 224	—	(D)	180	—	—
..... farms, 1992..	7 077	(D)	—	—	(D)	—	1 406
Weeds, grass, or brush in crops and pasture farms, 1997..	191	144	60	23	144	81	178
..... farms, 1992..	260	151	60	33	121	78	196
acres on which used, 1997..	123 431	27 273	34 750	1 573	10 745	46 002	19 096
..... farms, 1992..	177 758	17 133	24 876	1 492	7 929	31 538	27 624
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	2	10	—	—	—	1	6
..... farms, 1992..	9	1	—	1	8	—	2
acres on which used, 1997..	(D)	233	—	—	—	(D)	360
..... farms, 1992..	2 238	(D)	—	(D)	160	—	(D)

Chemicals used	Petroleum	Phillips	Pondera	Powder River	Powell	Prairie	Ravalli
	Commercial fertilizer farms, 1997..	21	235	354	75	85	105
..... farms, 1992..	16	212	366	70	103	111	501
acres on which used, 1997..	13 001	126 597	315 162	28 486	28 151	48 229	42 189
..... farms, 1992..	13 643	92 940	272 040	23 218	34 693	40 901	40 164
Cropland fertilized, except pastureland farms, 1997..	21	228	346	74	83	101	485
..... farms, 1992..	16	201	365	69	102	110	414
acres on which used, 1997..	(D)	123 216	313 081	(D)	26 416	47 929	29 293
..... farms, 1992..	13 643	91 907	269 982	(D)	(D)	40 529	27 271
Pastureland and rangeland fertilized..... farms, 1997..	1	27	34	1	11	4	206
..... farms, 1992..	—	24	13	2	3	4	258
acres on which used, 1997..	(D)	3 381	2 081	(D)	1 735	300	12 896
..... farms, 1992..	—	1 033	2 058	(D)	(D)	372	12 893
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	9	24	21	7	2	27	20
..... farms, 1992..	25	24	103	21	7	27	30
acres on which used, 1997..	1 100	7 631	5 869	3 259	(D)	6 810	322
..... farms, 1992..	3 846	6 503	24 927	5 776	875	6 144	608
Nematodes in crops farms, 1997..	—	2	—	—	—	3	—
..... farms, 1992..	—	4	4	3	1	5	—
acres on which used, 1997..	—	(D)	—	—	—	263	—
..... farms, 1992..	—	2 005	2 064	(D)	(D)	484	—
Diseases in crops and orchards..... farms, 1997..	—	1	12	—	1	—	17
..... farms, 1992..	4	25	20	—	—	2	17
acres on which used, 1997..	—	(D)	7 872	—	(D)	—	194
..... farms, 1992..	560	11 406	9 738	—	—	(D)	89
Weeds, grass, or brush in crops and pasture farms, 1997..	24	251	308	67	89	95	167
..... farms, 1992..	40	185	273	78	107	92	187
acres on which used, 1997..	9 899	150 898	279 715	23 061	16 034	46 284	9 652
..... farms, 1992..	12 177	102 343	156 967	26 236	20 486	33 983	10 159
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	—	2	16	1	—	—	15
..... farms, 1992..	2	4	18	1	—	—	1
acres on which used, 1997..	—	(D)	(D)	(D)	—	—	87
..... farms, 1992..	(D)	1 209	7 843	(D)	—	—	(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	Counties							
	Richland	Roosevelt	Rosebud	Sanders	Sheridan	Silver Bow	Stillwater	
Commercial fertilizer farms, 1997..	358	290	151	173	332	20	295	
..... farms, 1992..	326	245	136	128	194	10	214	
acres on which used, 1997..	184 731	259 258	68 472	19 877	180 197	1 834	74 188	
..... acres on which used, 1992..	175 983	116 698	66 598	13 139	112 440	2 566	81 730	
Cropland fertilized, except pastureland farms, 1997..	348	290	143	165	332	16	270	
..... farms, 1992..	326	245	134	128	194	10	194	
acres on which used, 1997..	182 202	257 898	67 744	16 899	(D)	1 730	67 278	
..... acres on which used, 1992..	175 451	116 698	66 007	12 753	(D)	(D)	78 251	
Pastureland and rangeland fertilized..... farms, 1997..	15	13	18	18	1	4	63	
..... farms, 1992..	5	—	14	19	1	1	46	
acres on which used, 1997..	2 529	1 360	728	2 978	(D)	104	6 910	
..... acres on which used, 1992..	532	—	591	386	(D)	(D)	3 479	
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	98	7	29	11	10	—	37	
..... farms, 1992..	91	36	69	3	42	2	28	
acres on which used, 1997..	33 186	2 109	5 779	501	3 618	—	8 599	
..... acres on which used, 1992..	15 018	7 260	21 667	(D)	15 186	(D)	10 784	
Nematodes in crops farms, 1997..	18	1	5	—	—	—	5	
..... farms, 1992..	15	2	23	—	3	—	17	
acres on which used, 1997..	3 558	(D)	821	—	—	—	1 348	
..... acres on which used, 1992..	2 245	(D)	1 689	—	2 403	—	2 052	
Diseases in crops and orchards..... farms, 1997..	43	20	1	11	21	—	—	
..... farms, 1992..	23	36	6	1	14	—	—	
acres on which used, 1997..	22 608	23 124	(D)	170	13 930	—	—	
..... acres on which used, 1992..	4 027	24 720	5 217	(D)	7 318	—	—	
Weeds, grass, or brush in crops and pasture farms, 1997..	253	249	108	84	314	43	237	
..... farms, 1992..	288	318	126	68	302	42	196	
acres on which used, 1997..	127 152	239 357	51 420	9 661	186 841	2 779	49 357	
..... acres on which used, 1992..	174 225	243 857	50 608	6 169	216 308	5 772	65 520	
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	16	—	2	—	—	—	12	
..... farms, 1992..	5	4	18	—	2	—	1	
acres on which used, 1997..	1 216	—	(D)	—	—	—	1 295	
..... acres on which used, 1992..	1 210	3 700	2 277	—	(D)	—	(D)	

Chemicals used	Counties							
	Sweet Grass	Teton	Toole	Treasure	Valley	Wheatland	Wibaux	Yellowstone
Commercial fertilizer farms, 1997..	125	417	212	59	264	72	100	622
..... farms, 1992..	114	454	130	58	230	74	71	582
acres on which used, 1997..	36 046	345 415	202 243	19 902	226 262	79 873	51 116	168 484
..... acres on which used, 1992..	30 551	298 088	109 061	20 971	99 949	63 074	46 618	163 981
Cropland fertilized, except pastureland farms, 1997..	120	403	212	55	264	70	97	548
..... farms, 1992..	108	426	130	58	218	73	71	483
acres on which used, 1997..	30 243	331 373	(D)	18 542	226 082	(D)	50 714	160 025
..... acres on which used, 1992..	29 173	288 782	(D)	20 567	97 259	60 168	46 298	152 027
Pastureland and rangeland fertilized..... farms, 1997..	19	60	1	12	6	8	7	169
..... farms, 1992..	18	85	2	5	23	12	3	173
acres on which used, 1997..	5 803	14 042	(D)	1 360	180	(D)	402	8 459
..... acres on which used, 1992..	1 378	9 306	(D)	404	2 690	2 906	320	11 954
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	20	32	16	27	20	5	14	96
..... farms, 1992..	14	225	25	29	47	14	8	226
acres on which used, 1997..	989	11 995	9 978	7 811	4 457	(D)	1 583	19 443
..... acres on which used, 1992..	1 367	76 604	15 240	6 902	21 799	5 891	5 138	44 566
Nematodes in crops farms, 1997..	—	8	—	7	1	—	—	50
..... farms, 1992..	—	13	3	15	14	—	3	52
acres on which used, 1997..	—	2 530	—	366	(D)	—	—	5 441
..... acres on which used, 1992..	—	2 513	5 287	2 800	2 332	—	36	2 833
Diseases in crops and orchards..... farms, 1997..	—	7	7	1	3	—	—	10
..... farms, 1992..	—	18	20	—	3	4	2	23
acres on which used, 1997..	—	5 115	10 661	(D)	7 770	—	—	1 747
..... acres on which used, 1992..	—	23 853	25 983	—	5 450	2 908	(D)	3 734
Weeds, grass, or brush in crops and pasture farms, 1997..	118	367	257	41	323	53	73	343
..... farms, 1992..	120	381	202	48	264	79	68	321
acres on which used, 1997..	24 722	240 120	244 605	14 058	248 221	62 039	35 389	117 784
..... acres on which used, 1992..	17 609	184 112	210 508	18 193	196 972	37 730	34 184	106 212
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	4	12	1	4	8	—	3	—
..... farms, 1992..	11	6	—	1	2	2	3	14
acres on which used, 1997..	4	6 596	(D)	1 142	8	—	480	—
..... acres on which used, 1992..	89	1 664	—	(D)	(D)	(D)	300	4 271