

Table 39. Fertilizers and Chemicals Applied: 2002 and 1997

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

Item	Montana	Beaverhead	Big Horn	Blaine	Broadwater	Carbon	Carter
Commercial fertilizer, lime, and soil conditioners ¹ farms, 2002	10,809	171	182	235	103	321	69
1997	13,225	227	253	227	151	368	55
acres treated, 2002	6,647,571	85,733	130,028	179,662	53,969	85,038	46,677
1997	6,749,820	102,012	174,645	159,528	62,407	68,116	31,493
Cropland fertilized, except cropland pastured farms, 2002	10,061	154	180	235	101	283	69
1997	12,506	226	237	211	142	347	55
acres treated, 2002	6,463,919	70,104	129,058	178,587	53,104	77,052	(D)
1997	6,574,575	95,617	172,450	156,568	54,099	60,024	(D)
Pastureland and rangeland fertilized farms, 2002	1,869	45	9	12	7	112	1
1997	1,887	26	34	17	24	102	2
acres treated, 2002	183,652	15,629	970	1,075	865	7,986	(D)
1997	175,245	6,395	2,195	2,960	8,308	8,092	(D)
Manure farms, 2002	3,123	63	29	43	39	134	23
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	220,702	5,521	3,883	25,322	2,536	5,513	3,120
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects ² farms, 2002	1,383	14	46	26	14	83	7
1997	1,699	21	98	30	18	84	42
acres treated, 2002	445,226	5,131	13,681	10,813	2,441	19,201	918
1997	404,629	6,052	22,673	5,236	5,353	14,890	9,486
Weeds, grass, or brush farms, 2002	9,166	122	138	174	93	325	92
1997	10,556	80	199	157	178	320	98
acres treated, 2002	5,780,062	22,960	130,175	189,378	46,054	62,802	44,627
1997	5,665,275	19,203	120,051	178,975	52,060	48,089	34,429
Nematodes farms, 2002	133	-	7	11	2	8	-
1997	179	-	8	1	1	16	-
acres treated, 2002	15,858	-	345	2,040	(D)	(D)	-
1997	27,506	-	1,357	(D)	(D)	1,479	-
Diseases in crops and orchards farms, 2002	521	2	11	18	9	3	9
1997	707	4	7	11	7	22	1
acres treated, 2002	248,554	(D)	2,046	10,065	1,636	(D)	3,977
1997	373,362	(D)	2,427	13,691	6,545	1,862	(D)
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	251	4	9	-	4	16	-
1997	277	4	35	-	2	4	-
acres on which used, 2002	64,684	1,026	964	-	246	850	-
1997	76,170	(D)	2,569	-	(D)	646	-
Item	Cascade	Chouteau	Custer	Daniels	Dawson	Deer Lodge	Fallon
Commercial fertilizer, lime, and soil conditioners ¹ farms, 2002	319	475	129	175	265	32	101
1997	402	527	175	193	309	37	130
acres treated, 2002	220,118	595,808	35,061	245,604	193,472	9,601	73,702
1997	229,142	644,555	42,700	180,198	220,117	6,716	66,213
Cropland fertilized, except cropland pastured farms, 2002	296	475	117	175	265	29	100
1997	349	527	165	193	309	37	130
acres treated, 2002	216,147	581,458	35,022	(D)	192,625	8,967	(D)
1997	226,512	(D)	41,846	180,198	218,553	(D)	65,583
Pastureland and rangeland fertilized farms, 2002	71	23	12	1	11	8	1
1997	74	1	36	-	11	5	7
acres treated, 2002	3,971	14,350	39	(D)	847	634	(D)
1997	2,630	(D)	854	-	1,564	(D)	630
Manure farms, 2002	109	45	46	19	35	11	20
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	15,064	2,924	1,864	1,264	1,359	848	1,914
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects ² farms, 2002	16	68	49	5	5	1	-
1997	41	88	49	23	78	1	24
acres treated, 2002	5,390	55,857	5,460	(D)	1,969	(D)	-
1997	22,585	46,076	6,910	9,346	12,695	(D)	4,021
Weeds, grass, or brush farms, 2002	330	418	112	113	198	27	47
1997	403	478	116	161	263	23	117
acres treated, 2002	210,221	631,582	20,051	157,081	170,860	3,001	24,870
1997	187,961	544,461	31,071	175,771	194,467	5,580	43,253
Nematodes farms, 2002	1	5	4	-	10	-	-
1997	-	1	3	-	1	-	-
acres treated, 2002	(D)	400	180	-	10	-	-
1997	-	(D)	457	-	(D)	-	-
Diseases in crops and orchards farms, 2002	8	17	6	6	11	1	6
1997	21	35	8	46	32	-	2
acres treated, 2002	17,206	24,059	591	6,734	15,564	(D)	(D)
1997	25,308	32,363	723	68,620	17,039	-	(D)
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	4	3	-	-	-	-	-
1997	14	25	-	7	-	-	2
acres on which used, 2002	6,859	4,078	-	-	-	-	-
1997	7,141	24,009	-	2,837	-	-	(D)

See footnote(s) at end of table.

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Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.

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

Item	Fergus	Flathead	Gallatin	Garfield	Glacier	Golden Valley	Granite
Commercial fertilizer, lime, and soil conditioners ¹ farms, 2002	340	408	476	89	165	39	48
1997	414	524	538	82	205	57	65
acres treated, 2002	268,608	53,307	151,239	83,002	225,667	26,768	13,342
1997	282,014	58,920	124,704	50,551	196,789	38,423	18,027
Cropland fertilized, except cropland pastured farms, 2002	329	379	387	87	158	36	41
1997	406	510	480	81	204	57	55
acres treated, 2002	263,746	51,669	132,199	82,472	220,162	26,544	12,867
1997	277,959	57,156	114,554	(D)	190,345	38,163	16,272
Pastureland and rangeland fertilized farms, 2002	42	106	200	5	9	3	8
1997	42	46	162	4	25	3	13
acres treated, 2002	4,862	1,638	19,040	530	5,505	224	475
1997	4,055	1,764	10,150	(D)	6,444	260	1,755
Manure farms, 2002	63	93	152	28	33	10	30
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	9,089	1,498	8,590	1,966	5,073	782	2,626
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects ² farms, 2002	45	44	48	4	62	9	2
1997	44	83	61	8	12	4	6
acres treated, 2002	8,826	2,130	11,922	2,576	52,046	3,112	(D)
1997	11,058	7,955	9,322	1,123	17,304	1,101	675
Weeds, grass, or brush farms, 2002	313	298	422	76	133	37	55
1997	474	308	348	72	180	45	48
acres treated, 2002	180,625	35,194	87,520	87,239	189,606	22,896	9,199
1997	234,562	35,181	79,097	66,685	171,318	24,527	4,970
Nematodes farms, 2002	11	13	2	-	1	-	-
1997	1	8	2	-	-	-	-
acres treated, 2002	(D)	(D)	(D)	1	(D)	-	-
1997	(D)	577	(D)	-	-	-	-
Diseases in crops and orchards farms, 2002	26	34	9	2	10	-	-
1997	14	23	39	1	22	-	-
acres treated, 2002	8,366	1,665	2,835	(D)	11,881	-	-
1997	11,424	3,352	6,239	(D)	18,902	-	-
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	17	1	6	1	-	1	-
1997	9	2	26	1	1	1	-
acres on which used, 2002	6,778	(D)	1,485	(D)	-	-	-
1997	860	(D)	1,902	(D)	(D)	(D)	-
Item	Hill	Jefferson	Judith Basin	Lake	Lewis and Clark	Liberty	Lincoln
Commercial fertilizer, lime, and soil conditioners ¹ farms, 2002	370	97	126	552	166	162	129
1997	473	70	200	552	232	213	128
acres treated, 2002	360,406	13,794	117,024	43,357	42,603	221,849	4,800
1997	491,506	13,855	148,137	70,711	37,575	296,879	5,930
Cropland fertilized, except cropland pastured farms, 2002	370	78	126	497	139	162	105
1997	473	67	200	478	232	213	109
acres treated, 2002	(D)	12,516	114,362	34,022	41,343	221,849	4,190
1997	(D)	13,753	147,246	55,287	37,242	(D)	5,428
Pastureland and rangeland fertilized farms, 2002	2	23	9	170	33	-	49
1997	4	9	13	230	22	2	19
acres treated, 2002	(D)	1,278	2,662	9,335	1,260	-	610
1997	(D)	102	891	15,424	333	(D)	502
Manure farms, 2002	14	45	50	141	101	19	27
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	2,755	1,731	3,954	6,525	3,870	2,369	465
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects ² farms, 2002	41	-	27	205	23	38	-
1997	37	7	18	126	7	4	18
acres treated, 2002	27,001	-	4,475	4,319	2,636	35,308	-
1997	23,102	35	7,533	3,788	1,442	3,266	241
Weeds, grass, or brush farms, 2002	376	108	150	385	173	155	60
1997	472	81	202	305	198	187	77
acres treated, 2002	485,799	7,235	103,799	25,353	45,800	277,223	1,748
1997	480,422	6,088	110,577	39,795	28,424	250,092	1,344
Nematodes farms, 2002	1	-	-	19	-	1	-
1997	-	-	-	9	-	-	17
acres treated, 2002	(D)	-	-	538	-	(D)	-
1997	-	-	-	27	-	-	240
Diseases in crops and orchards farms, 2002	22	-	11	112	2	16	-
1997	35	3	20	107	1	18	18
acres treated, 2002	10,132	-	18,160	2,703	(D)	21,458	-
1997	33,077	1,440	9,377	2,387	(D)	9,241	241
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	2	1	4	74	13	8	-
1997	2	-	-	8	-	10	1
acres on which used, 2002	(D)	(D)	240	1,476	367	7,065	-
1997	(D)	-	-	2,003	-	2,879	(D)

See footnote(s) at end of table.

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Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.

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

Item	McCone	Madison	Meagher	Mineral	Missoula	Musselshell	Park
Commercial fertilizer, lime, and soil conditioners ¹ farms, 2002	239	183	53	27	180	58	181
1997	234	239	64	35	266	80	206
acres treated, 2002	231,405	46,590	41,831	1,388	11,076	36,305	30,413
1997	129,747	61,810	47,800	2,553	22,100	43,581	38,176
Cropland fertilized, except cropland pastured farms, 2002	231	171	51	20	139	51	138
1997	234	229	62	29	239	80	200
acres treated, 2002	227,404	41,824	40,146	1,188	7,556	35,360	27,518
1997	128,947	54,843	(D)	2,265	20,924	(D)	35,857
Pastureland and rangeland fertilized farms, 2002	9	44	7	8	81	10	68
1997	8	38	8	10	62	1	34
acres treated, 2002	4,001	4,766	1,685	200	3,520	945	2,895
1997	800	6,967	(D)	288	1,176	(D)	2,319
Manure farms, 2002	36	86	33	8	91	33	136
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	1,379	9,894	2,555	299	755	1,058	3,866
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects ² farms, 2002	18	18	4	1	-	3	47
1997	27	38	-	-	12	8	36
acres treated, 2002	4,204	1,011	4,180	(D)	-	(D)	7,236
1997	6,374	3,561	-	-	223	556	2,445
Weeds, grass, or brush farms, 2002	179	129	48	27	236	80	255
1997	194	146	60	27	167	84	200
acres treated, 2002	195,529	26,024	29,740	2,198	23,025	36,701	48,534
1997	122,262	28,194	35,176	1,757	11,609	44,205	20,508
Nematodes farms, 2002	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-
acres treated, 2002	-	-	-	-	-	-	7
1997	-	-	-	-	-	-	-
Diseases in crops and orchards farms, 2002	2	2	1	-	-	-	210
1997	9	19	-	3	11	-	8
acres treated, 2002	(D)	(D)	(D)	-	-	-	8
1997	3,303	2,306	-	(D)	220	-	-
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	-	3	1	-	-	3	4
1997	2	11	-	-	-	1	7
acres on which used, 2002	-	325	(D)	-	-	60	80
1997	(D)	250	-	-	-	(D)	420

Item	Petroleum	Phillips	Pondera	Powder River	Powell	Prairie	Ravalli
Commercial fertilizer, lime, and soil conditioners ¹ farms, 2002	14	186	322	85	74	94	552
1997	22	247	381	70	86	103	709
acres treated, 2002	6,967	137,750	292,313	27,618	25,712	41,981	38,957
1997	15,312	128,458	321,165	27,659	28,576	47,825	46,766
Cropland fertilized, except cropland pastured farms, 2002	13	179	313	85	64	92	440
1997	22	241	371	69	84	99	568
acres treated, 2002	(D)	130,455	289,257	(D)	22,594	(D)	27,215
1997	(D)	124,657	319,046	(D)	26,841	47,525	32,457
Pastureland and rangeland fertilized farms, 2002	1	46	25	1	20	3	236
1997	1	32	38	1	11	4	252
acres treated, 2002	(D)	7,295	3,056	(D)	3,118	(D)	11,742
1997	(D)	3,801	2,119	(D)	1,735	300	14,309
Manure farms, 2002	4	43	70	10	51	26	194
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	355	2,830	5,866	488	5,261	1,240	7,338
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects ² farms, 2002	2	11	35	6	3	22	21
1997	9	26	20	7	2	27	24
acres treated, 2002	(D)	5,390	12,130	571	15	3,286	1,261
1997	1,100	8,725	5,369	3,259	(D)	6,810	400
Weeds, grass, or brush farms, 2002	20	168	272	68	102	57	300
1997	24	268	331	65	99	93	201
acres treated, 2002	25,378	112,600	278,060	18,532	21,743	26,994	12,945
1997	11,652	150,010	286,036	22,163	16,537	45,069	10,286
Nematodes farms, 2002	-	1	-	-	2	2	-
1997	-	2	-	-	-	3	-
acres treated, 2002	-	(D)	(D)	(D)	(D)	(D)	-
1997	-	(D)	-	-	-	263	-
Diseases in crops and orchards farms, 2002	2	10	20	1	-	8	20
1997	-	1	15	-	1	-	21
acres treated, 2002	(D)	4,674	17,907	(D)	-	1,014	1,018
1997	-	(D)	10,524	-	(D)	-	196
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	-	5	9	-	2	-	9
1997	-	2	17	1	-	-	18
acres on which used, 2002	-	800	9,115	-	(D)	-	33
1997	-	(D)	(D)	(D)	-	-	81

See footnote(s) at end of table.

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Table 39. Fertilizers and Chemicals Applied: 2002 and 1997 - Con.

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

Item	Richland	Roosevelt	Rosebud	Sanders	Sheridan	Silver Bow	Stillwater
Commercial fertilizer, lime, and soil conditioners ¹							
farms, 2002	233	303	85	186	304	23	139
1997	362	300	147	189	358	22	317
acres treated, 2002	162,895	355,668	64,873	13,578	345,763	1,468	68,020
1997	181,818	250,031	68,384	19,751	203,484	1,840	74,717
Cropland fertilized, except cropland pastured							
farms, 2002	224	303	85	163	304	14	131
1997	354	300	139	178	358	17	284
acres treated, 2002	162,482	354,868	63,506	11,220	342,563	1,381	60,514
1997	179,689	249,071	67,666	16,571	(D)	1,734	67,671
Pastureland and rangeland fertilized							
farms, 2002	20	9	17	51	5	9	26
1997	13	9	17	19	1	5	77
acres treated, 2002	413	800	1,367	2,358	3,200	87	7,506
1997	2,129	960	718	3,180	(D)	106	7,046
Manure							
farms, 2002	121	59	33	27	65	32	66
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	10,260	2,565	2,210	489	3,608	1,165	4,115
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects ²							
farms, 2002	43	23	20	1	44	2	11
1997	99	8	27	13	9	-	39
acres treated, 2002	13,520	19,724	3,646	(D)	17,112	(D)	8,653
1997	33,653	2,940	5,549	601	3,443	-	8,029
Weeds, grass, or brush							
farms, 2002	195	265	70	106	245	51	153
1997	257	250	108	94	330	56	259
acres treated, 2002	121,550	267,552	37,187	8,668	296,190	3,583	49,064
1997	123,875	226,448	52,612	10,131	205,202	3,767	51,343
Nematodes							
farms, 2002	11	-	1	-	-	-	1
1997	19	2	5	-	-	-	5
acres treated, 2002	1,830	(D)	(D)	-	-	-	(D)
1997	3,608	-	821	-	-	-	1,348
Diseases in crops and orchards							
farms, 2002	7	2	4	1	14	2	-
1997	45	18	1	13	26	-	-
acres treated, 2002	7,399	(D)	918	(D)	4,677	(D)	-
1997	22,792	20,877	(D)	198	17,630	-	-
Chemicals used to control growth, thin fruit, or defoliate							
farms, 2002	1	2	4	-	11	2	-
1997	14	-	2	-	-	-	13
acres on which used, 2002	(D)	(D)	717	-	4,860	(D)	-
1997	1,064	-	(D)	-	-	-	1,298

Item	Sweet Grass	Teton	Toole	Treasure	Valley	Wheatland	Wibaux	Yellowstone
Commercial fertilizer, lime, and soil conditioners ¹								
farms, 2002	74	390	155	51	300	46	86	442
1997	130	446	209	61	280	70	105	680
acres treated, 2002	19,635	262,331	182,045	17,769	336,198	60,450	62,600	143,733
1997	38,819	354,137	210,106	19,246	233,296	77,084	64,641	169,075
Cropland fertilized, except cropland pastured								
farms, 2002	73	366	155	49	300	46	86	402
1997	125	430	209	56	280	68	102	586
acres treated, 2002	18,835	251,153	(D)	17,250	335,418	58,230	(D)	132,468
1997	33,096	339,336	(D)	18,406	233,116	(D)	64,239	158,978
Pastureland and rangeland fertilized								
farms, 2002	3	66	1	11	4	4	1	111
1997	18	68	1	11	6	8	7	194
acres treated, 2002	800	11,178	(D)	519	780	2,220	(D)	11,265
1997	5,723	14,801	(D)	840	180	(D)	402	10,097
Manure								
farms, 2002	47	70	12	16	39	19	40	234
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	2,705	5,133	3,433	1,096	4,308	2,915	1,680	9,411
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects ²								
farms, 2002	-	22	28	15	9	5	5	82
1997	21	35	14	27	20	4	15	100
acres treated, 2002	-	9,750	15,820	4,891	6,593	(D)	761	17,437
1997	939	12,940	9,808	7,793	4,058	(D)	1,703	19,870
Weeds, grass, or brush								
farms, 2002	93	314	146	35	183	44	79	316
1997	123	397	253	44	337	52	78	369
acres treated, 2002	10,352	212,069	206,925	14,009	213,870	53,849	60,858	93,435
1997	27,612	241,776	248,918	14,165	260,519	59,689	47,149	118,152
Nematodes								
farms, 2002	-	-	-	5	-	-	-	13
1997	-	10	-	8	1	-	-	48
acres treated, 2002	-	-	-	1,016	-	-	-	669
1997	-	2,690	-	399	(D)	-	-	5,438
Diseases in crops and orchards								
farms, 2002	-	40	10	5	3	-	2	6
1997	-	7	7	1	3	-	-	9
acres treated, 2002	-	23,501	8,040	1,311	(D)	-	(D)	102
1997	-	5,115	10,661	(D)	7,770	-	-	1,672
Chemicals used to control growth, thin fruit, or defoliate								
farms, 2002	-	-	25	1	-	-	-	2
1997	5	13	1	4	9	-	3	-
acres on which used, 2002	-	-	11,893	(D)	-	-	-	(D)
1997	5	6,621	(D)	1,142	9	-	480	-

¹ Data for 1997 exclude lime.

² Data for 1997 include treatment of crops, including hay, but not other land.