

**Table 42. Fertilizers and Chemicals Applied: 2007 and 2002**

[For meaning of abbreviations and symbols, see introductory text]

Item	North Dakota	Adams	Barnes	Benson	Billings	Bottineau	Bowman
Commercial fertilizer, lime, and soil conditioners <sup>1,2</sup> .....farms, 2007	15,393	160	448	308	71	451	168
.....farms, 2002	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2007	18,419,224	222,918	580,817	433,636	40,920	668,231	198,847
.....acres treated, 2002	16,671,283	162,394	540,106	387,915	35,398	608,160	153,151
Cropland fertilized, except cropland pastured .....farms, 2007	15,088	160	437	302	71	448	162
.....farms, 2002	15,445	164	448	298	77	446	145
.....acres treated, 2007	18,299,137	220,710	579,602	432,652	(D)	667,020	198,091
.....acres treated, 2002	16,601,444	(D)	538,906	387,190	32,524	(D)	152,250
Pastureland and rangeland fertilized .....farms, 2007	696	8	20	9	7	16	9
.....farms, 2002	520	2	15	4	7	2	7
.....acres treated, 2007	120,087	2,208	1,215	984	(D)	1,211	756
.....acres treated, 2002	69,839	(D)	1,200	725	2,874	(D)	901
Manure <sup>1</sup> .....farms, 2007	3,998	52	108	75	31	46	47
.....farms, 2002	4,662	45	117	92	44	82	64
.....acres treated, 2007	281,150	4,416	6,238	4,621	1,531	1,867	4,189
.....acres treated, 2002	268,782	3,314	4,360	4,905	1,029	4,508	4,631
Chemicals used to control- <sup>1</sup>							
Insects .....farms, 2007	4,035	25	90	79	8	159	13
.....farms, 2002	3,670	34	114	69	4	212	15
.....acres treated, 2007	3,007,826	12,000	63,280	55,626	5,041	115,333	10,842
.....acres treated, 2002	1,601,682	5,152	55,552	32,530	1,800	102,948	2,809
Weeds, grass, or brush .....farms, 2007	14,381	154	434	306	65	435	137
.....farms, 2002	13,871	131	382	273	72	411	114
.....acres treated, 2007	17,066,194	213,275	566,785	413,321	26,555	614,263	145,053
.....acres treated, 2002	14,112,382	121,249	500,202	325,319	24,490	535,337	119,888
Nematodes .....farms, 2007	137	-	2	1	2	2	-
.....farms, 2002	108	6	-	2	-	2	-
.....acres treated, 2007	89,308	-	(D)	(D)	(D)	(D)	-
.....acres treated, 2002	53,245	348	(D)	(D)	-	(D)	-
Diseases in crops and orchards .....farms, 2007	3,668	33	105	64	13	110	29
.....farms, 2002	1,681	15	56	20	-	33	-
.....acres treated, 2007	3,274,633	34,569	62,100	43,926	11,478	114,114	33,769
.....acres treated, 2002	1,208,071	4,228	23,420	10,825	-	14,340	-
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate <sup>1</sup> .....farms, 2007	993	7	22	38	-	27	1
.....farms, 2002	628	-	17	8	-	29	-
.....acres treated, 2007	544,427	2,720	12,244	17,885	-	24,426	(D)
.....acres treated, 2002	284,337	-	6,086	1,260	-	7,710	-
Item	Burke	Burleigh	Cass	Cavalier	Dickey	Divide	Dunn
Commercial fertilizer, lime, and soil conditioners <sup>1,2</sup> .....farms, 2007	231	287	599	413	313	270	252
.....farms, 2002	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2007	277,081	219,764	708,783	714,686	361,449	318,262	201,189
.....acres treated, 2002	271,370	150,466	748,535	649,859	290,802	287,042	163,009
Cropland fertilized, except cropland pastured .....farms, 2007	225	267	593	413	307	269	240
.....farms, 2002	254	214	637	455	261	372	265
.....acres treated, 2007	275,387	216,567	707,850	(D)	355,853	317,310	198,050
.....acres treated, 2002	(D)	149,966	747,612	649,859	289,862	(D)	160,255
Pastureland and rangeland fertilized .....farms, 2007	8	33	21	2	16	6	23
.....farms, 2002	1	10	18	-	12	2	39
.....acres treated, 2007	1,694	3,197	933	(D)	5,596	972	3,139
.....acres treated, 2002	(D)	500	923	-	940	(D)	2,754
Manure <sup>1</sup> .....farms, 2007	34	135	60	42	95	46	129
.....farms, 2002	45	120	108	12	98	112	150
.....acres treated, 2007	1,451	8,669	4,404	2,020	8,133	2,312	5,969
.....acres treated, 2002	1,718	15,028	4,294	556	5,627	4,749	7,610
Chemicals used to control- <sup>1</sup>							
Insects .....farms, 2007	21	72	171	119	87	22	30
.....farms, 2002	36	23	180	196	37	22	25
.....acres treated, 2007	21,607	24,829	129,007	115,184	80,661	27,110	26,537
.....acres treated, 2002	15,186	5,653	77,196	85,653	11,948	12,229	4,263
Weeds, grass, or brush .....farms, 2007	214	327	568	379	271	239	227
.....farms, 2002	207	225	535	411	234	307	221
.....acres treated, 2007	243,396	216,997	839,187	652,326	329,868	326,200	179,409
.....acres treated, 2002	198,050	130,546	764,129	506,606	238,567	237,945	116,817
Nematodes .....farms, 2007	3	1	7	2	8	1	1
.....farms, 2002	2	-	11	2	2	-	-
.....acres treated, 2007	(D)	(D)	5,960	(D)	1,542	(D)	(D)
.....acres treated, 2002	(D)	-	4,626	(D)	(D)	(D)	(D)
Diseases in crops and orchards .....farms, 2007	39	27	146	173	41	22	25
.....farms, 2002	33	1	108	143	3	19	2
.....acres treated, 2007	32,616	26,638	77,472	200,672	34,353	19,194	29,584
.....acres treated, 2002	13,696	(D)	49,562	101,399	(D)	5,994	(D)
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate <sup>1</sup> .....farms, 2007	8	9	37	52	6	30	3
.....farms, 2002	9	1	17	66	5	15	3
.....acres treated, 2007	3,603	1,520	20,691	32,999	2,130	15,787	296
.....acres treated, 2002	2,494	(D)	4,060	28,375	2,047	3,933	600

See footnote(s) at end of table.

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**Table 42. Fertilizers and Chemicals Applied: 2007 and 2002 - Con.**

[For meaning of abbreviations and symbols, see introductory text]

Item	Eddy	Emmons	Foster	Golden Valley	Grand Forks	Grant	Griggs	Hettinger
Commercial fertilizer, lime, and soil conditioners <sup>1 2</sup> ..... farms, 2007	148	370	170	107	450	247	190	210
..... farms, 2002	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2007	157,235	325,347	251,462	124,607	567,867	277,671	199,754	392,651
..... acres treated, 2002	117,459	276,516	219,559	111,847	548,587	186,446	186,765	308,688
Cropland fertilized, except cropland pastured ..... farms, 2007	143	368	165	102	447	245	187	206
..... farms, 2002	134	309	156	123	430	251	126	177
..... acres treated, 2007	155,861	323,311	249,769	123,693	567,336	276,855	198,900	391,827
..... acres treated, 2002	116,523	275,736	219,159	(D)	(D)	183,716	186,765	301,451
Pastureland and rangeland fertilized ..... farms, 2007	10	11	11	10	13	9	9	5
..... farms, 2002	9	3	4	4	3	13	-	40
..... acres treated, 2007	1,374	2,036	1,693	914	531	816	854	824
..... acres treated, 2002	936	780	400	(D)	(D)	2,730	-	7,237
Manure <sup>1</sup> ..... farms, 2007	63	147	48	28	52	138	60	39
..... farms, 2002	60	236	33	39	50	187	25	67
..... acres treated, 2007	4,231	12,785	3,611	2,497	2,837	12,776	2,377	1,795
..... acres treated, 2002	3,478	10,555	1,858	2,215	2,112	10,157	922	3,776
Chemicals used to control- <sup>1</sup>								
Insects ..... farms, 2007	32	147	43	15	192	37	32	41
..... farms, 2002	36	75	33	19	154	29	42	23
..... acres treated, 2007	15,768	76,166	33,762	4,864	159,022	18,255	13,532	51,601
..... acres treated, 2002	8,834	25,073	12,316	8,731	95,688	5,575	13,810	9,801
Weeds, grass, or brush ..... farms, 2007	170	316	164	83	439	227	198	197
..... farms, 2002	124	267	133	103	357	283	143	173
..... acres treated, 2007	149,437	273,025	219,722	96,884	513,778	237,386	199,410	279,244
..... acres treated, 2002	100,154	226,120	177,666	99,917	477,898	136,719	181,175	257,378
Nematodes ..... farms, 2007	1	-	2	2	12	1	-	-
..... farms, 2002	-	-	-	-	11	-	-	-
..... acres treated, 2007	(D)	-	(D)	(D)	7,852	(D)	-	-
..... acres treated, 2002	-	-	-	-	7,548	-	-	-
Diseases in crops and orchards ..... farms, 2007	32	56	46	31	194	47	58	70
..... farms, 2002	5	1	19	7	139	1	29	3
..... acres treated, 2007	14,010	50,480	36,484	25,657	184,920	62,647	46,683	82,838
..... acres treated, 2002	692	(D)	11,398	2,119	113,788	(D)	20,259	2,700
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate <sup>1</sup> ..... farms, 2007	8	2	16	3	76	2	28	4
..... farms, 2002	2	-	8	7	55	11	11	9
..... acres treated, 2007	3,447	(D)	10,490	298	35,568	(D)	14,643	1,040
..... acres treated, 2002	(D)	-	4,977	3,112	18,587	1,188	11,018	2,615
Item	Kidder	LaMoure	Logan	McHenry	McIntosh	McKenzie	McLean	Mercer
Commercial fertilizer, lime, and soil conditioners <sup>1 2</sup> ..... farms, 2007	200	343	169	380	200	280	505	193
..... farms, 2002	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2007	148,815	395,737	167,301	399,273	204,680	253,926	661,707	131,246
..... acres treated, 2002	107,007	417,730	138,148	331,893	177,108	230,108	628,231	115,723
Cropland fertilized, except cropland pastured ..... farms, 2007	196	340	167	360	200	277	488	183
..... farms, 2002	173	314	191	372	186	272	493	206
..... acres treated, 2007	146,784	391,139	166,859	394,163	201,251	251,941	656,385	126,329
..... acres treated, 2002	(D)	416,382	136,231	327,373	174,738	229,658	627,345	(D)
Pastureland and rangeland fertilized ..... farms, 2007	6	22	4	35	7	10	31	14
..... farms, 2002	1	14	9	12	27	6	20	1
..... acres treated, 2007	2,031	4,598	442	5,110	3,429	1,985	5,322	4,917
..... acres treated, 2002	(D)	1,348	1,917	4,520	2,370	450	886	(D)
Manure <sup>1</sup> ..... farms, 2007	116	91	101	148	65	101	144	67
..... farms, 2002	145	111	113	144	105	81	186	54
..... acres treated, 2007	13,012	10,145	11,379	8,665	5,058	5,420	7,473	3,419
..... acres treated, 2002	13,797	11,826	5,043	8,486	8,069	4,884	7,951	1,653
Chemicals used to control- <sup>1</sup>								
Insects ..... farms, 2007	46	64	39	130	58	48	112	26
..... farms, 2002	22	53	34	107	49	14	60	4
..... acres treated, 2007	31,999	64,747	34,406	90,478	28,910	22,424	74,352	6,705
..... acres treated, 2002	15,495	29,684	12,758	33,926	15,552	5,124	25,220	955
Weeds, grass, or brush ..... farms, 2007	206	334	164	400	190	235	449	177
..... farms, 2002	162	302	174	337	181	255	442	224
..... acres treated, 2007	131,031	389,626	135,140	378,760	169,849	242,002	575,838	119,095
..... acres treated, 2002	71,006	328,493	90,748	250,174	143,082	194,875	506,229	128,260
Nematodes ..... farms, 2007	3	-	-	-	1	-	1	2
..... farms, 2002	-	-	-	-	-	-	8	-
..... acres treated, 2007	3,100	-	-	-	(D)	-	(D)	(D)
..... acres treated, 2002	-	-	-	-	-	-	8	-
Diseases in crops and orchards ..... farms, 2007	31	46	15	63	29	11	125	18
..... farms, 2002	4	5	5	15	3	3	36	9
..... acres treated, 2007	25,455	22,327	26,160	42,917	22,496	(D)	119,777	19,169
..... acres treated, 2002	5,593	1,648	200	8,585	1,958	(D)	25,292	1,440
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate <sup>1</sup> ..... farms, 2007	5	12	4	11	9	6	31	3
..... farms, 2002	3	7	5	13	1	4	7	-
..... acres treated, 2007	1,171	5,454	2,224	9,899	2,470	2,100	12,457	1,366
..... acres treated, 2002	(D)	5,493	2,500	1,550	(D)	840	4,975	-

See footnote(s) at end of table.

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**Table 42. Fertilizers and Chemicals Applied: 2007 and 2002 - Con.**

[For meaning of abbreviations and symbols, see introductory text]

Item	Morton	Mountrail	Nelson	Oliver	Pembina	Pierce	Ramsey	Ransom
Commercial fertilizer, lime, and soil conditioners <sup>1,2</sup> .....farms, 2007	381	344	219	127	312	256	301	248
.....farms, 2002	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2007	331,992	453,407	293,491	117,306	491,403	288,893	490,489	218,006
.....acres treated, 2002	256,044	439,929	286,805	91,020	480,546	239,125	468,960	212,319
Cropland fertilized, except cropland pastured .....farms, 2007	371	335	218	123	312	242	297	239
.....farms, 2002	436	419	227	131	334	225	318	235
.....acres treated, 2007	326,747	446,195	293,116	114,695	490,711	284,715	486,654	215,942
.....acres treated, 2002	250,995	438,189	284,705	(D)	(D)	237,285	468,570	210,067
Pastureland and rangeland fertilized .....farms, 2007	18	14	3	13	4	27	6	23
.....farms, 2002	35	11	15	1	2	16	3	22
.....acres treated, 2007	5,245	7,212	375	2,611	692	4,178	3,835	2,064
.....acres treated, 2002	5,049	1,740	2,100	(D)	(D)	1,840	390	2,252
Manure <sup>1</sup> .....farms, 2007	206	50	31	62	28	92	23	95
.....farms, 2002	253	86	60	102	49	102	13	108
.....acres treated, 2007	17,293	2,994	1,913	6,256	2,301	3,832	1,504	7,758
.....acres treated, 2002	15,424	5,564	1,910	5,762	1,486	4,985	1,036	7,107
Chemicals used to control- <sup>1</sup>								
Insects .....farms, 2007	42	41	55	22	141	83	81	59
.....farms, 2002	83	47	105	6	163	68	102	24
.....acres treated, 2007	23,898	57,972	52,703	20,188	164,946	42,687	69,726	29,493
.....acres treated, 2002	14,169	22,542	28,899	2,125	94,250	40,712	48,830	8,759
Weeds, grass, or brush .....farms, 2007	333	285	206	106	286	254	295	246
.....farms, 2002	413	354	195	171	291	208	274	199
.....acres treated, 2007	249,881	425,412	264,602	99,633	451,355	276,588	463,004	207,676
.....acres treated, 2002	204,633	401,381	230,599	91,690	387,240	188,392	408,136	173,561
Nematodes .....farms, 2007	2	1	4	-	12	3	5	5
.....farms, 2002	-	2	-	-	-	-	-	1
.....acres treated, 2007	(D)	(D)	1,420	-	6,532	298	2,465	2,139
.....acres treated, 2002	-	(D)	-	-	6,065	-	-	(D)
Diseases in crops and orchards .....farms, 2007	43	64	78	12	157	71	112	37
.....farms, 2002	1	34	43	-	179	46	38	6
.....acres treated, 2007	39,424	64,698	60,294	10,570	218,634	52,811	101,811	18,702
.....acres treated, 2002	(D)	24,981	37,505	-	142,095	26,080	27,083	10,234
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate <sup>1</sup> .....farms, 2007	4	7	37	2	42	19	46	5
.....farms, 2002	10	32	20	-	36	10	17	3
.....acres treated, 2007	2,742	5,708	26,920	(D)	32,469	10,097	28,325	1,800
.....acres treated, 2002	1,000	9,646	17,755	-	20,497	8,394	8,323	1,877
Item	Renville	Richland	Rolette	Sargent	Sheridan	Sioux	Slope	Stark
Commercial fertilizer, lime, and soil conditioners <sup>1,2</sup> .....farms, 2007	268	635	235	308	161	66	112	325
.....farms, 2002	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2007	438,854	547,992	238,829	276,642	203,676	61,021	171,677	325,416
.....acres treated, 2002	386,035	589,132	189,944	254,492	211,747	43,106	117,203	289,930
Cropland fertilized, except cropland pastured .....farms, 2007	262	620	229	302	157	66	112	319
.....farms, 2002	257	600	189	318	220	72	105	377
.....acres treated, 2007	438,157	545,699	237,293	274,404	202,516	61,021	165,707	323,707
.....acres treated, 2002	385,860	586,802	187,892	254,040	210,857	43,106	114,761	284,816
Pastureland and rangeland fertilized .....farms, 2007	8	32	20	17	6	-	5	19
.....farms, 2002	5	25	19	5	6	-	15	24
.....acres treated, 2007	697	2,293	1,536	2,238	1,160	-	5,970	1,709
.....acres treated, 2002	175	2,330	2,052	452	890	-	2,442	5,114
Manure <sup>1</sup> .....farms, 2007	21	115	96	82	58	29	31	160
.....farms, 2002	15	97	69	80	71	18	41	202
.....acres treated, 2007	1,027	11,887	5,580	5,919	3,182	1,183	3,100	8,161
.....acres treated, 2002	1,043	7,430	2,931	4,064	2,793	1,277	2,482	7,295
Chemicals used to control- <sup>1</sup>								
Insects .....farms, 2007	91	362	46	92	45	5	11	32
.....farms, 2002	122	234	48	35	54	9	21	77
.....acres treated, 2007	76,509	216,274	38,906	52,790	34,417	3,900	7,492	26,955
.....acres treated, 2002	65,427	100,652	16,176	9,615	28,705	7,780	7,985	26,525
Weeds, grass, or brush .....farms, 2007	220	590	241	290	131	53	90	320
.....farms, 2002	197	513	221	300	202	31	86	296
.....acres treated, 2007	350,868	686,941	222,818	301,061	182,405	25,925	133,136	264,472
.....acres treated, 2002	272,798	594,124	186,279	242,552	200,093	22,975	98,853	200,179
Nematodes .....farms, 2007	2	7	2	1	-	2	-	-
.....farms, 2002	1	11	-	-	1	-	-	-
.....acres treated, 2007	(D)	5,452	(D)	(D)	-	(D)	-	-
.....acres treated, 2002	(D)	2,840	-	-	(D)	-	-	-
Diseases in crops and orchards .....farms, 2007	108	77	68	77	37	2	29	71
.....farms, 2002	29	33	4	2	24	-	4	14
.....acres treated, 2007	99,361	34,778	51,942	42,729	40,801	(D)	52,509	80,502
.....acres treated, 2002	29,600	22,992	7,733	(D)	29,350	-	(D)	18,590
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate <sup>1</sup> .....farms, 2007	16	25	15	6	9	1	10	-
.....farms, 2002	4	4	1	2	1	-	1	14
.....acres treated, 2007	8,690	5,409	11,802	1,066	7,330	(D)	2,214	-
.....acres treated, 2002	750	4,329	(D)	(D)	(D)	-	(D)	6,958

See footnote(s) at end of table.

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**Table 42. Fertilizers and Chemicals Applied: 2007 and 2002 - Con.**

[For meaning of abbreviations and symbols, see introductory text]

Item	Steele	Stutsman	Towner	Traill	Walsh	Ward	Wells	Williams
Commercial fertilizer, lime, and soil conditioners <sup>1,2</sup> ..... farms, 2007	215	409	311	328	432	528	319	420
2002	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2007	302,140	573,418	417,994	415,935	521,242	681,672	458,044	493,803
2002	288,843	520,478	311,963	420,761	490,172	673,803	376,203	482,701
Cropland fertilized, except cropland pastured ..... farms, 2007	214	394	307	328	423	525	312	413
2002	219	392	272	346	472	527	314	491
acres treated, 2007	301,828	570,839	414,331	415,935	520,788	676,999	456,393	488,005
2002	288,843	518,428	311,048	420,761	(D)	673,103	376,203	482,344
Pastureland and rangeland fertilized ..... farms, 2007	5	25	12	-	16	14	10	14
2002	-	13	5	-	2	8	-	3
acres treated, 2007	312	2,579	3,663	-	454	4,673	1,651	5,798
2002	-	2,050	915	-	(D)	700	-	357
Manure <sup>1</sup> ..... farms, 2007	20	158	42	14	67	96	71	43
2002	13	170	42	24	75	80	81	86
acres treated, 2007	1,554	12,016	3,482	634	2,445	6,036	5,094	2,699
2002	775	14,746	2,511	1,647	2,054	3,658	7,915	3,776
Chemicals used to control- <sup>1</sup>								
Insects ..... farms, 2007	77	85	78	163	178	150	98	40
2002	68	32	62	163	195	131	41	59
acres treated, 2007	51,838	50,622	57,223	131,002	128,742	120,266	100,240	34,989
2002	19,249	10,853	19,739	90,575	104,157	57,845	21,782	22,870
Weeds, grass, or brush ..... farms, 2007	197	411	266	300	461	475	285	335
2002	214	426	231	277	460	475	271	383
acres treated, 2007	294,175	507,108	358,833	441,501	484,281	613,972	417,451	466,234
2002	296,418	409,342	266,860	385,481	383,362	598,977	293,174	386,244
Nematodes ..... farms, 2007	4	4	1	6	12	2	1	7
2002	1	1	1	2	17	-	1	6
acres treated, 2007	(D)	3,921	(D)	3,968	7,340	(D)	(D)	1,707
2002	(D)	(D)	(D)	(D)	8,517	-	(D)	6,600
Diseases in crops and orchards ..... farms, 2007	95	68	111	126	237	135	91	63
2002	46	6	44	99	193	66	14	39
acres treated, 2007	72,208	54,476	79,533	107,187	213,558	127,334	89,532	53,606
2002	33,765	5,285	20,308	69,337	179,432	35,555	10,455	40,048
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate <sup>1</sup> ..... farms, 2007	37	20	39	35	77	27	27	27
2002	12	35	4	32	58	5	3	11
acres treated, 2007	18,868	11,599	30,347	13,607	32,071	16,884	20,642	16,875
2002	8,001	18,455	2,423	7,697	34,421	4,395	2,600	6,944

<sup>1</sup> 2002 data are based on a sample of farms.

<sup>2</sup> 2002 farm count data are not comparable due to calculation change.