

**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	Missouri	Adair	Andrew	Atchison	Audrain	Barry	Barton
Commercial fertilizer, lime, and soil conditioners <sup>1</sup>							
farms, 2002	59,166	418	486	366	709	839	622
1997	65,173	469	491	427	745	806	703
acres treated, 2002	10,772,234	56,300	95,605	167,532	217,004	79,238	172,920
1997	10,058,615	50,408	75,408	145,419	215,682	67,518	165,275
Cropland fertilized, except cropland pastured							
farms, 2002	42,172	322	419	341	653	444	473
1997	47,482	400	459	427	657	455	569
acres treated, 2002	7,665,904	37,736	87,825	159,609	196,228	30,663	133,131
1997	7,477,168	35,666	70,320	136,053	199,031	31,618	140,059
Pastureland and rangeland fertilized							
farms, 2002	33,960	217	182	94	283	580	355
1997	32,310	163	125	103	281	531	357
acres treated, 2002	3,106,330	18,564	7,780	7,923	20,776	48,575	39,789
1997	2,581,447	14,742	5,088	9,366	16,651	35,900	25,216
Manure							
farms, 2002	11,476	60	81	18	229	371	223
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	650,193	2,030	2,776	666	10,164	45,415	13,715
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects <sup>2</sup>							
farms, 2002	9,503	29	136	128	157	34	101
1997	9,460	22	87	186	182	12	102
acres treated, 2002	1,723,042	2,940	14,319	49,923	35,052	965	20,710
1997	1,431,113	1,157	11,750	36,280	44,028	5,787	20,006
Weeds, grass, or brush							
farms, 2002	26,014	180	346	291	458	318	366
1997	27,840	271	485	391	508	173	412
acres treated, 2002	6,442,157	39,361	92,812	148,516	171,139	22,717	102,625
1997	7,230,901	41,948	119,707	188,604	211,057	12,552	111,233
Nematodes							
farms, 2002	711	30	30	12	13	15	16
1997	840	-	-	13	26	2	-
acres treated, 2002	154,950	240	4,608	2,400	2,577	15	4,355
1997	137,120	-	-	2,830	2,700	(D)	-
Diseases in crops and orchards							
farms, 2002	1,028	-	2	9	1	9	14
1997	1,247	1	19	15	12	9	7
acres treated, 2002	71,721	-	(D)	598	(D)	(D)	4,218
1997	117,677	(D)	632	1,858	340	164	1,683
Chemicals used to control growth, thin fruit, or defoliate							
farms, 2002	694	-	1	8	12	-	-
1997	1,368	19	11	16	-	14	11
acres on which used, 2002	291,349	-	(D)	80	810	-	-
1997	420,230	202	45	4,622	-	346	2,808

  

Item	Bates	Benton	Bollinger	Boone	Buchanan	Butler	Caldwell
Commercial fertilizer, lime, and soil conditioners <sup>1</sup>							
farms, 2002	752	424	601	608	499	438	387
1997	850	508	600	520	539	570	521
acres treated, 2002	175,924	74,225	75,299	72,660	82,342	160,739	48,044
1997	161,390	61,211	65,202	63,458	67,397	174,636	50,057
Cropland fertilized, except cropland pastured							
farms, 2002	477	297	463	424	442	391	362
1997	584	345	390	409	475	465	433
acres treated, 2002	111,482	41,600	50,934	54,893	70,737	154,530	37,519
1997	105,423	38,723	46,825	48,876	59,908	167,227	38,165
Pastureland and rangeland fertilized							
farms, 2002	514	306	362	289	182	82	137
1997	466	320	331	226	164	155	176
acres treated, 2002	64,442	32,625	24,365	17,767	11,605	6,209	10,525
1997	55,967	22,488	18,377	14,582	7,489	7,409	11,892
Manure							
farms, 2002	128	77	54	57	81	49	43
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	5,614	8,148	1,515	2,498	1,968	834	1,690
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects <sup>2</sup>							
farms, 2002	163	36	62	131	176	39	75
1997	108	13	27	97	111	77	50
acres treated, 2002	28,146	2,036	2,173	5,129	17,993	13,370	7,534
1997	18,849	376	856	8,649	11,497	15,606	5,406
Weeds, grass, or brush							
farms, 2002	346	142	190	180	350	252	271
1997	426	181	177	255	404	321	300
acres treated, 2002	105,616	16,860	21,180	37,530	79,755	114,919	59,516
1997	115,970	29,876	31,981	53,878	70,581	163,169	57,273
Nematodes							
farms, 2002	2	20	-	42	1	1	1
1997	5	-	1	21	3	22	-
acres treated, 2002	(D)	20	-	1,192	(D)	(D)	(D)
1997	3,044	-	(D)	713	1,062	1,451	-
Diseases in crops and orchards							
farms, 2002	41	20	15	49	12	21	8
1997	2	-	-	20	17	40	-
acres treated, 2002	2,767	20	24	492	563	3,925	9
1997	(D)	-	-	513	689	6,746	-
Chemicals used to control growth, thin fruit, or defoliate							
farms, 2002	-	-	-	-	1	16	-
1997	-	-	-	15	5	36	-
acres on which used, 2002	-	-	-	-	(D)	3,239	-
1997	-	-	-	8,287	2,323	7,221	-

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	Callaway	Camden	Cape Girardeau	Carroll	Carter	Cass	Cedar
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	638	247	743	579	143	801	503
1997	770	340	842	581	130	856	483
acres treated, 2002	125,967	28,318	130,549	153,693	12,809	126,138	64,890
1997	102,470	26,819	127,485	145,697	9,184	125,081	46,377
Cropland fertilized, except cropland pastured . . . . . farms, 2002	435	158	586	518	62	535	271
1997	547	183	657	512	63	649	278
acres treated, 2002	107,773	12,123	95,800	125,944	2,918	76,237	26,962
1997	83,032	9,920	100,444	135,405	4,480	95,278	22,974
Pastureland and rangeland fertilized . . . . . farms, 2002	326	125	517	254	104	503	368
1997	364	210	440	128	81	405	287
acres treated, 2002	18,194	16,195	34,749	27,749	9,891	49,901	37,928
1997	19,438	16,899	27,041	10,292	4,704	29,803	23,403
Manure . . . . . farms, 2002	81	36	271	81	12	192	75
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	3,452	1,148	8,200	4,069	274	5,493	6,267
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects <sup>2</sup> . . . . . farms, 2002	74	9	110	161	1	133	45
1997	127	23	156	133	-	122	24
acres treated, 2002	10,443	333	7,801	30,042	(D)	11,646	1,359
1997	15,356	1,037	5,895	23,760	-	13,593	515
Weeds, grass, or brush . . . . . farms, 2002	352	54	442	440	9	382	141
1997	358	22	341	479	12	421	136
acres treated, 2002	87,530	2,994	81,913	136,436	331	65,724	11,220
1997	63,623	1,436	73,963	186,300	489	98,194	13,935
Nematodes . . . . . farms, 2002	15	-	7	13	-	1	-
1997	21	2	-	1	-	1	-
acres treated, 2002	660	-	-	1,584	-	(D)	-
1997	868	(D)	77	(D)	-	(D)	-
Diseases in crops and orchards . . . . . farms, 2002	26	(D)	3	19	-	19	10
1997	17	9	13	9	3	14	-
acres treated, 2002	638	-	(D)	266	-	(D)	600
1997	435	1,060	502	145	3	1,257	-
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	-	-	3	-	-	-	-
1997	1	7	18	21	-	10	7
acres on which used, 2002	-	-	270	-	-	-	-
1997	(D)	7	1,058	3,260	-	(D)	105
Item	Chariton	Christian	Clark	Clay	Clinton	Cole	Cooper
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	708	799	370	394	395	707	588
1997	760	811	508	314	409	759	623
acres treated, 2002	150,154	83,686	97,757	37,992	80,567	63,320	124,267
1997	160,523	67,795	107,929	47,763	71,700	46,265	137,806
Cropland fertilized, except cropland pastured . . . . . farms, 2002	640	537	358	236	309	493	477
1997	580	517	448	240	318	468	519
acres treated, 2002	124,818	35,691	88,483	23,423	64,687	34,112	100,934
1997	135,918	32,952	95,218	37,617	54,495	23,078	114,418
Pastureland and rangeland fertilized . . . . . farms, 2002	327	508	100	237	164	552	231
1997	304	511	203	96	160	504	303
acres treated, 2002	25,336	47,995	9,274	14,569	15,880	29,208	23,333
1997	24,605	34,843	12,711	10,146	17,205	23,187	23,388
Manure . . . . . farms, 2002	111	53	58	48	46	158	84
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	1,953	2,657	3,012	1,802	1,593	3,709	5,524
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects <sup>2</sup> . . . . . farms, 2002	242	145	149	33	52	31	132
1997	153	110	150	69	67	87	140
acres treated, 2002	48,285	8,089	27,646	1,911	14,221	1,091	17,561
1997	33,462	6,962	24,868	3,750	7,690	3,012	20,455
Weeds, grass, or brush . . . . . farms, 2002	482	217	246	197	222	196	293
1997	559	165	382	190	260	180	388
acres treated, 2002	129,056	7,255	82,079	18,458	62,708	8,621	66,212
1997	157,545	7,804	97,895	47,423	69,688	7,932	90,819
Nematodes . . . . . farms, 2002	22	-	17	-	14	1	-
1997	18	1	28	1	9	6	2
acres treated, 2002	5,346	-	1,280	-	3,924	(D)	-
1997	1,720	(D)	1,705	(D)	126	300	(D)
Diseases in crops and orchards . . . . . farms, 2002	14	24	17	29	12	1	1
1997	15	4	1	22	15	16	16
acres treated, 2002	474	233	1,007	598	1,824	(D)	(D)
1997	464	75	(D)	472	1,692	196	457
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	1	-	-	-	-	-	11
1997	9	10	1	1	8	6	2
acres on which used, 2002	(D)	-	-	-	-	-	220
1997	495	190	(D)	(D)	18	6	(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	Crawford	Dade	Dallas	Daviess	DeKalb	Dent	Douglas
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> farms, 2002	521	492	633	504	395	483	598
1997	458	573	692	521	366	577	793
acres treated, 2002	49,173	111,480	69,469	101,212	81,135	83,780	56,578
1997	48,306	85,391	48,676	76,487	62,274	55,550	62,283
Cropland fertilized, except cropland pastured farms, 2002	300	310	448	459	281	261	402
1997	274	351	419	460	274	321	423
acres treated, 2002	22,433	59,781	34,626	80,069	53,782	14,747	21,720
1997	19,268	46,882	22,111	58,391	45,078	16,378	24,508
Pastureland and rangeland fertilized farms, 2002	337	370	417	207	262	343	425
1997	338	372	403	202	176	402	543
acres treated, 2002	26,740	51,699	34,843	21,143	27,353	69,033	34,858
1997	29,038	38,509	26,565	18,096	17,196	39,172	37,775
Manure farms, 2002	-	117	158	38	85	32	74
1997	(NA)	-	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	-	9,802	10,071	1,477	3,491	408	2,627
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-							
Insects <sup>2</sup> farms, 2002	-	33	11	73	81	2	32
1997	15	78	28	95	30	14	53
acres treated, 2002	-	8,580	363	18,646	17,104	(D)	965
1997	755	9,755	899	10,105	8,360	194	3,010
Weeds, grass, or brush farms, 2002	45	315	81	321	251	92	97
1997	45	209	73	420	241	50	87
acres treated, 2002	3,461	54,045	2,935	70,925	62,524	4,396	4,394
1997	951	26,843	2,568	101,575	48,988	1,560	5,900
Nematodes farms, 2002	-	2	1	2	14	-	-
1997	1	-	-	-	-	-	-
acres treated, 2002	(D)	(D)	(D)	(D)	6,929	-	-
1997	(D)	-	-	-	-	-	-
Diseases in crops and orchards farms, 2002	-	-	2	15	-	-	-
1997	3	-	20	12	-	1	10
acres treated, 2002	-	-	(D)	90	-	-	-
1997	(D)	-	40	60	-	(D)	10
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	-	-	-	-	7	-	-
1997	3	4	-	-	2	-	4
acres on which used, 2002	-	-	-	-	21	-	-
1997	(D)	911	-	-	(D)	-	4

  

Item	Dunklin	Franklin	Gasconade	Gentry	Greene	Grundy	Harrison	Henry
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> farms, 2002	389	1,099	500	343	1,084	293	447	587
1997	460	1,203	632	387	1,254	347	448	633
acres treated, 2002	224,837	95,464	56,245	97,775	83,903	59,581	85,137	123,298
1997	243,616	109,985	57,503	88,703	92,210	62,850	75,209	110,475
Cropland fertilized, except cropland pastured farms, 2002	384	772	405	279	716	250	367	347
1997	424	878	468	350	828	301	360	422
acres treated, 2002	224,341	61,819	33,457	62,647	43,141	47,431	64,259	73,498
1997	241,868	76,591	28,635	61,603	48,660	54,728	57,362	70,476
Pastureland and rangeland fertilized farms, 2002	18	747	339	177	657	128	198	410
1997	51	630	388	137	671	120	192	359
acres treated, 2002	496	33,645	22,788	35,128	40,762	12,150	20,878	49,800
1997	1,748	33,394	28,868	27,100	43,550	8,122	17,847	39,999
Manure farms, 2002	1	320	124	39	305	46	34	77
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	(D)	18,612	8,833	4,530	8,716	602	4,492	20,657
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> farms, 2002	302	71	49	70	118	70	67	45
1997	258	104	93	97	129	57	47	66
acres treated, 2002	161,247	3,160	1,830	13,491	5,694	12,416	11,626	3,317
1997	123,906	4,004	7,940	18,173	7,549	6,881	4,670	10,561
Weeds, grass, or brush farms, 2002	272	302	140	193	321	181	179	284
1997	344	326	172	261	265	279	341	291
acres treated, 2002	194,442	29,307	11,902	46,127	14,766	53,401	44,616	61,092
1997	236,508	42,940	17,638	67,935	10,992	68,994	81,731	58,434
Nematodes farms, 2002	40	2	7	16	-	-	-	-
1997	100	7	-	-	13	26	22	-
acres treated, 2002	25,293	(D)	7	5,980	-	-	-	-
1997	40,791	273	-	-	13	880	971	-
Diseases in crops and orchards farms, 2002	35	13	1	1	-	8	25	10
1997	51	23	19	5	17	3	-	-
acres treated, 2002	10,041	1,514	(D)	(D)	-	8	3,000	10
1997	17,595	47	684	1,300	(D)	(D)	-	-
Chemicals used to control growth, thin fruit, or defoliate farms, 2002	151	-	1	-	-	-	-	-
1997	261	8	7	10	8	1	-	-
acres on which used, 2002	109,053	-	(D)	-	-	-	-	-
1997	140,979	2,653	28	2,074	292	(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	Hickory	Holt	Howard	Howell	Iron	Jackson	Jasper	Jefferson
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	356	403	391	1,236	158	398	667	358
1997	327	389	563	1,285	188	384	696	265
acres treated, 2002	43,631	118,192	82,870	140,437	10,426	53,825	106,328	27,891
1997	44,186	106,878	79,333	119,443	13,906	58,894	90,126	22,299
Cropland fertilized, except cropland pastured . . . . . farms, 2002	196	356	340	586	104	238	456	274
1997	209	366	481	611	118	281	453	210
acres treated, 2002	20,560	108,914	71,071	35,305	4,528	48,362	65,739	17,062
1997	21,159	100,392	68,779	33,131	5,094	53,786	61,116	16,737
Pastureland and rangeland fertilized . . . . . farms, 2002	255	109	142	1,011	111	233	383	186
1997	223	64	199	962	121	137	349	98
acres treated, 2002	23,071	9,278	11,799	105,132	5,898	5,463	40,589	10,829
1997	23,027	6,486	10,554	86,312	8,812	5,108	29,010	5,562
Manure . . . . . farms, 2002	116	60	44	158	11	42	196	84
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	5,250	2,491	936	8,397	345	699	13,276	1,530
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	10	157	99	59	9	52	85	75
1997	3	113	175	90	8	108	68	52
acres treated, 2002	200	45,269	10,852	3,721	18	(D)	7,124	3,502
1997	(D)	24,329	14,992	3,753	113	8,357	6,712	3,209
Weeds, grass, or brush . . . . . farms, 2002	84	279	236	276	8	147	307	128
1997	40	406	278	110	-	225	256	122
acres treated, 2002	11,242	111,600	46,788	10,559	450	28,829	43,403	11,941
1997	1,467	158,447	52,486	8,514	-	65,330	50,442	8,166
Nematodes . . . . . farms, 2002	-	22	-	-	-	1	13	51
1997	-	9	9	-	-	-	1	-
acres treated, 2002	-	2,038	-	6	-	(D)	9,705	665
1997	-	343	-	-	-	8	(D)	-
Diseases in crops and orchards . . . . . farms, 2002	-	-	1,025	60	-	-	11	17
1997	10	-	2	8	-	9	30	11
acres treated, 2002	-	-	(D)	-	-	18	238	1,435
1997	360	-	3,234	16	-	406	60	210
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	-	6	1	-	-	2	1	-
1997	1	6	19	8	1	4	2	-
acres on which used, 2002	-	108	(D)	-	-	(D)	(D)	-
1997	(D)	43	510	8	(D)	(D)	(D)	-

  

Item	Johnson	Knox	Laclede	Lafayette	Lawrence	Lewis	Lincoln	Linn
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	907	369	891	880	966	438	535	497
1997	1,041	404	908	917	1,084	496	659	474
acres treated, 2002	165,982	122,213	104,536	176,771	114,491	124,937	107,239	90,552
1997	146,293	87,054	83,827	169,014	121,419	115,691	105,324	73,675
Cropland fertilized, except cropland pastured . . . . . farms, 2002	646	342	521	612	478	363	423	292
1997	709	344	567	763	684	439	566	298
acres treated, 2002	101,851	94,722	38,614	151,485	53,709	97,826	94,778	57,253
1997	89,496	70,573	33,640	149,175	54,343	102,896	94,039	47,582
Pastureland and rangeland fertilized . . . . . farms, 2002	580	179	627	493	758	215	185	324
1997	594	170	613	373	681	157	231	261
acres treated, 2002	64,131	27,491	65,922	25,286	60,782	27,111	12,461	33,299
1997	56,797	16,481	50,187	19,839	67,076	12,795	11,285	26,093
Manure . . . . . farms, 2002	167	76	152	150	298	92	157	87
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	8,824	4,744	11,441	3,428	32,429	7,434	6,227	7,302
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	128	113	86	191	104	143	67	28
1997	83	93	38	165	161	105	136	71
acres treated, 2002	12,252	19,272	3,475	42,391	5,353	26,756	15,587	4,710
1997	8,681	9,120	1,816	25,766	10,243	18,150	25,916	8,313
Weeds, grass, or brush . . . . . farms, 2002	470	229	151	597	329	236	286	192
1997	571	354	98	579	215	326	394	260
acres treated, 2002	79,917	54,088	5,603	147,307	34,978	98,691	84,457	41,384
1997	100,699	88,458	3,941	160,754	19,626	107,618	89,580	55,567
Nematodes . . . . . farms, 2002	-	1	-	21	-	1	16	1
1997	7	1	1	25	-	-	5	-
acres treated, 2002	-	(D)	-	2,961	-	(D)	16	(D)
1997	105	(D)	(D)	553	-	-	540	-
Diseases in crops and orchards . . . . . farms, 2002	22	-	9	3	17	-	21	1
1997	13	6	6	14	33	16	18	-
acres treated, 2002	33	-	108	1,080	23	-	272	(D)
1997	50	120	72	2,124	569	696	1,513	-
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	-	-	12	3	3	-	12	-
1997	15	5	-	12	28	-	2	14
acres on which used, 2002	-	-	120	1,080	150	-	168	-
1997	2,193	382	-	3,448	727	-	(D)	625

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	Livingston	McDonald	Macon	Madison	Maries	Marion	Mercer	Miller
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	360	366	488	236	652	457	229	576
1997	488	487	610	325	648	542	321	699
acres treated, 2002	93,766	25,455	82,265	14,083	78,403	104,075	40,570	61,331
1997	90,559	34,280	80,238	28,504	83,625	92,008	47,853	60,433
Cropland fertilized, except cropland pastured . . . . . farms, 2002	347	164	343	134	397	414	133	323
1997	418	275	505	203	393	481	245	496
acres treated, 2002	75,489	8,818	58,403	6,362	27,646	97,082	22,591	22,743
1997	78,283	12,340	60,601	11,881	34,062	81,905	31,359	29,133
Pastureland and rangeland fertilized . . . . . farms, 2002	159	278	242	164	532	135	134	434
1997	197	275	212	202	490	196	158	400
acres treated, 2002	18,277	16,637	23,862	7,721	50,757	6,993	17,979	38,588
1997	12,276	21,940	19,637	16,623	49,563	10,103	16,494	31,300
Manure . . . . . farms, 2002	66	248	109	14	129	132	35	149
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	3,473	24,279	4,328	1,460	7,455	5,630	1,334	7,916
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	63	3	41	9	1	104	30	15
1997	50	11	74	6	8	134	63	16
acres treated, 2002	10,679	101	5,638	153	(D)	23,739	4,922	2,023
1997	15,261	991	12,554	286	129	20,728	5,504	2,322
Weeds, grass, or brush . . . . . farms, 2002	337	178	210	25	65	298	118	80
1997	331	207	337	-	87	332	192	105
acres treated, 2002	108,303	12,356	34,682	1,710	5,239	97,777	23,227	3,480
1997	93,460	10,779	59,914	1,005	3,565	75,183	36,825	10,264
Nematodes . . . . . farms, 2002	28	-	1	-	-	2	8	1
1997	4	-	-	-	-	-	-	-
acres treated, 2002	2,649	-	(D)	-	-	(D)	16	(D)
1997	(D)	-	-	-	-	-	-	-
Diseases in crops and orchards . . . . . farms, 2002	8	-	1	-	-	-	-	-
1997	11	-	10	-	7	26	6	6
acres treated, 2002	(D)	-	(D)	-	-	-	-	-
1997	165	-	300	-	7	9,473	840	600
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	-	10	1	-	-	-	8	-
1997	-	-	-	-	6	11	-	8
acres on which used, 2002	-	200	(D)	-	-	-	480	-
1997	-	-	-	-	60	493	-	160

  

Item	Mississippi	Moniteau	Monroe	Montgomery	Morgan	New Madrid	Newton	Nodaway
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	208	767	498	480	464	332	794	932
1997	228	747	647	554	566	423	849	851
acres treated, 2002	157,925	101,369	140,013	98,597	59,026	263,862	92,879	227,500
1997	148,323	83,918	129,058	100,952	54,238	250,669	75,643	172,076
Cropland fertilized, except cropland pastured . . . . . farms, 2002	208	498	382	395	328	332	470	803
1997	228	380	537	462	438	414	515	722
acres treated, 2002	157,516	58,617	116,496	84,039	32,954	(D)	42,545	167,412
1997	147,742	43,638	108,050	89,402	35,541	250,009	38,096	131,298
Pastureland and rangeland fertilized . . . . . farms, 2002	8	508	260	224	304	2	596	471
1997	10	568	236	197	277	12	483	425
acres treated, 2002	409	42,752	23,517	14,558	26,072	(D)	50,334	60,088
1997	581	40,280	21,008	11,550	18,697	660	37,547	40,778
Manure . . . . . farms, 2002	1	229	97	167	241	19	295	85
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	(D)	11,836	3,402	8,494	18,322	3,474	21,612	3,728
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	53	54	152	124	88	224	22	248
1997	49	38	121	109	61	220	69	209
acres treated, 2002	27,495	1,210	37,136	22,832	2,786	128,313	3,924	52,246
1997	28,020	5,494	16,058	17,517	1,379	77,789	3,081	27,890
Weeds, grass, or brush . . . . . farms, 2002	173	230	273	342	179	312	281	641
1997	227	216	418	312	173	363	144	711
acres treated, 2002	205,110	22,869	125,141	87,294	9,813	287,556	19,970	195,872
1997	218,848	30,545	109,937	94,183	17,951	292,819	12,331	184,243
Nematodes . . . . . farms, 2002	3	1	11	7	-	27	-	12
1997	7	1	37	1	7	32	1	10
acres treated, 2002	(D)	(D)	4,325	(D)	-	6,931	-	3,431
1997	2,591	(D)	6,698	(D)	412	12,573	(D)	1,621
Diseases in crops and orchards . . . . . farms, 2002	9	3	-	24	23	18	10	1
1997	26	20	13	15	34	33	2	10
acres treated, 2002	5,645	(D)	-	431	137	8,581	50	(D)
1997	10,534	387	1,094	87	556	8,778	(D)	177
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	4	-	-	-	-	124	8	25
1997	13	2	13	16	-	196	9	2
acres on which used, 2002	956	-	-	-	-	71,545	24	971
1997	9,220	(D)	661	1,639	-	72,695	204	(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	Oregon	Osage	Ozark	Pemiscot	Perry	Pettis	Phelps	Pike
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	521	925	553	248	579	752	494	600
1997	553	912	581	278	660	861	478	652
acres treated, 2002	72,617	103,863	83,021	185,427	83,886	160,210	47,863	148,979
1997	69,528	84,049	73,384	157,609	83,175	147,365	41,862	135,599
Cropland fertilized, except cropland pastured . . . . . farms, 2002	278	637	357	248	452	221	221	551
1997	335	580	334	278	453	694	312	576
acres treated, 2002	16,961	43,671	21,477	185,427	67,017	129,564	15,525	126,589
1997	18,883	36,193	14,258	157,609	62,647	119,773	14,601	120,339
Pastureland and rangeland fertilized . . . . . farms, 2002	401	690	416	-	343	339	357	226
1997	343	589	436	-	384	380	347	180
acres treated, 2002	55,656	60,192	61,544	-	16,869	30,646	32,338	22,390
1997	50,645	47,856	59,126	-	20,528	27,592	27,261	15,260
Manure . . . . . farms, 2002	29	321	22	4	163	139	31	143
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	2,312	12,557	1,349	343	2,716	22,087	3,562	6,053
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	34	101	16	152	134	115	37	188
1997	54	135	36	133	172	89	16	160
acres treated, 2002	590	4,704	418	108,344	11,361	20,752	370	32,308
1997	1,524	6,371	1,486	71,764	10,260	16,926	77	31,987
Weeds, grass, or brush . . . . . farms, 2002	122	391	145	198	402	476	58	342
1997	88	201	108	213	289	416	121	376
acres treated, 2002	5,675	22,567	10,936	207,929	70,670	120,253	5,885	94,314
1997	1,868	17,024	5,340	221,619	55,455	113,626	5,195	98,387
Nematodes . . . . . farms, 2002	-	-	-	-	-	1	-	10
1997	-	10	2	8	8	8	1	34
acres treated, 2002	-	-	-	5,467	-	(D)	-	1,300
1997	-	106	(D)	6,435	160	620	(D)	2,634
Diseases in crops and orchards . . . . . farms, 2002	7	-	14	5	1	-	8	20
1997	-	11	2	1	8	24	1	15
acres treated, 2002	7	-	994	820	(D)	-	8	1,660
1997	-	151	(D)	3,051	88	1,228	(D)	(D)
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	-	-	14	105	-	-	13	-
1997	-	-	-	141	2	13	-	18
acres on which used, 2002	-	-	994	64,080	-	-	358	-
1997	-	-	-	70,695	(D)	370	-	(D)

  

Item	Platte	Polk	Pulaski	Putnam	Ralls	Randolph	Ray	Reynolds
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	417	938	347	282	335	348	615	171
1997	513	1,047	353	298	343	470	589	184
acres treated, 2002	85,263	108,088	40,454	41,209	109,014	74,739	98,150	15,688
1997	67,929	95,859	29,936	46,072	97,196	48,501	77,452	12,604
Cropland fertilized, except cropland pastured . . . . . farms, 2002	374	558	184	174	290	290	441	100
1997	442	643	197	199	333	384	474	124
acres treated, 2002	64,954	49,223	14,131	19,852	92,418	62,718	73,273	5,091
1997	61,676	52,065	13,128	23,424	90,447	38,374	62,132	5,775
Pastureland and rangeland fertilized . . . . . farms, 2002	176	636	268	196	135	111	265	110
1997	153	610	190	165	91	170	221	121
acres treated, 2002	20,309	58,865	26,323	21,357	16,596	12,021	24,877	10,597
1997	6,253	43,794	16,808	22,648	6,749	10,127	15,320	6,829
Manure . . . . . farms, 2002	47	131	18	38	118	71	53	-
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	1,186	5,355	900	3,029	4,029	1,966	1,629	-
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	84	95	17	18	139	78	96	5
1997	162	80	17	23	90	69	85	-
acres treated, 2002	5,032	2,588	170	640	32,295	11,833	11,781	250
1997	14,006	5,112	647	2,849	16,107	7,703	8,875	-
Weeds, grass, or brush . . . . . farms, 2002	241	214	43	135	221	233	400	22
1997	361	188	30	136	300	271	403	20
acres treated, 2002	49,636	19,368	1,448	10,905	98,084	43,157	93,977	407
1997	73,088	9,899	2,529	15,338	99,397	40,085	84,242	451
Nematodes . . . . . farms, 2002	-	-	-	-	8	8	9	-
1997	13	4	-	5	4	7	-	-
acres treated, 2002	-	-	-	-	2,200	776	9	-
1997	315	400	-	400	685	462	-	-
Diseases in crops and orchards . . . . . farms, 2002	1	18	-	-	-	10	14	-
1997	21	18	2	-	-	6	-	-
acres treated, 2002	(D)	81	-	-	-	335	1,380	-
1997	532	78	(D)	-	-	80	-	-
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	1	-	-	8	10	1	-	-
1997	21	6	-	1	1	-	16	-
acres on which used, 2002	(D)	-	-	720	8,920	(D)	-	-
1997	1,664	66	-	(D)	(D)	-	3,306	-

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	Ripley	St. Charles	St. Clair	Ste. Genevieve	St. Francois	St. Louis	Saline	Schuyler
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	316	513	410	542	375	91	661	249
1997	357	478	514	524	451	147	740	261
acres treated, 2002	33,557	74,903	82,551	47,116	24,722	11,403	187,674	35,763
1997	48,574	88,801	71,996	49,400	31,492	19,419	206,960	44,393
Cropland fertilized, except cropland pastured . . . . . farms, 2002	135	483	271	332	200	77	598	205
1997	185	432	295	382	256	147	673	227
acres treated, 2002	10,228	70,000	51,822	27,976	8,800	(D)	172,980	22,397
1997	28,672	83,508	41,912	30,457	17,597	18,989	190,463	38,484
Pastureland and rangeland fertilized . . . . . farms, 2002	202	134	301	257	268	20	185	128
1997	204	116	302	271	275	16	217	94
acres treated, 2002	23,329	4,903	30,729	19,140	15,922	(D)	14,694	13,366
1997	19,902	5,293	30,084	18,943	13,895	430	16,497	5,909
Manure . . . . . farms, 2002	1	102	60	132	123	40	46	60
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	(D)	3,139	6,346	3,946	2,543	337	3,072	5,278
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	24	147	36	89	18	79	271	35
1997	10	199	45	74	37	62	272	46
acres treated, 2002	1,580	32,623	8,415	3,281	373	2,632	61,663	1,981
1997	1,213	41,477	2,936	5,890	695	3,227	52,505	2,979
Weeds, grass, or brush . . . . . farms, 2002	82	308	136	240	79	96	453	106
1997	88	360	156	144	34	78	471	113
acres treated, 2002	4,455	82,511	33,041	19,840	1,540	11,570	189,564	13,745
1997	23,805	106,201	35,924	20,585	1,309	12,899	190,482	14,171
Nematodes . . . . . farms, 2002	2	6	1	-	-	4	14	-
1997	4	32	-	12	-	10	40	1
acres treated, 2002	(D)	405	(D)	-	-	(D)	4,518	-
1997	(D)	5,533	(D)	-	-	719	3,477	(D)
Diseases in crops and orchards . . . . . farms, 2002	19	27	-	19	-	23	1	7
1997	8	18	-	17	-	19	20	-
acres treated, 2002	1,460	410	-	131	-	477	(D)	28
1997	(D)	374	-	185	-	159	1,662	-
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	-	5	-	-	-	5	1	7
1997	-	17	-	14	-	4	14	1
acres on which used, 2002	-	385	-	-	-	(D)	(D)	28
1997	-	330	-	290	-	10	5,263	(D)
Item	Scotland	Scott	Shannon	Shelby	Stoddard	Stone	Sullivan	Taney
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	355	300	317	448	600	396	371	310
1997	372	405	265	496	749	450	430	261
acres treated, 2002	77,458	139,018	30,975	135,392	290,500	26,112	79,073	23,954
1997	75,376	147,754	22,528	127,430	331,396	31,024	63,275	26,957
Cropland fertilized, except cropland pastured . . . . . farms, 2002	319	251	152	416	479	211	263	96
1997	346	366	114	474	660	244	304	171
acres treated, 2002	66,875	134,874	9,269	121,412	280,189	9,450	54,194	6,384
1997	67,122	144,972	6,469	111,413	325,300	10,272	35,247	7,531
Pastureland and rangeland fertilized . . . . . farms, 2002	107	98	280	192	216	271	211	290
1997	109	87	199	143	202	327	208	148
acres treated, 2002	10,583	4,144	21,706	13,980	10,311	16,662	24,879	17,570
1997	8,254	2,782	16,059	16,017	6,096	20,752	28,028	19,422
Manure . . . . . farms, 2002	131	21	41	131	41	81	36	22
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	5,495	2,918	3,116	6,603	13,077	1,998	1,507	807
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	106	43	-	224	171	80	63	14
1997	97	126	9	144	178	27	39	5
acres treated, 2002	13,536	17,360	-	36,024	75,260	1,988	8,011	242
1997	14,386	25,318	292	16,753	65,937	1,902	6,853	938
Weeds, grass, or brush . . . . . farms, 2002	241	237	31	365	351	108	151	61
1997	244	285	35	381	530	54	165	16
acres treated, 2002	50,360	114,554	1,290	128,113	223,119	3,365	55,800	1,600
1997	57,767	155,652	662	121,196	315,533	4,165	32,299	1,974
Nematodes . . . . . farms, 2002	2	3	-	31	8	-	1	-
1997	-	22	-	17	48	-	1	-
acres treated, 2002	(D)	1,520	-	14,478	4,054	-	(D)	-
1997	-	3,019	-	4,508	8,640	-	(D)	-
Diseases in crops and orchards . . . . . farms, 2002	2	4	-	-	10	-	-	1
1997	1	23	1	1	45	7	-	1
acres treated, 2002	(D)	(D)	-	-	3,662	-	-	(D)
1997	(D)	7,139	(D)	(D)	8,139	7	-	(D)
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	10	6	-	1	26	-	-	-
1997	3	37	-	9	93	-	6	-
acres on which used, 2002	20	2,910	-	(D)	21,628	-	-	-
1997	278	14,269	-	376	35,199	-	360	-

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	Texas	Vernon	Warren	Washington	Wayne	Webster	Worth	Wright
Commercial fertilizer, lime, and soil conditioners <sup>1</sup> . . . . . farms, 2002	949	650	331	197	224	1,050	171	794
1997	1,096	785	358	279	296	1,213	189	941
acres treated, 2002	143,998	149,915	45,568	15,404	21,641	113,660	28,647	126,313
1997	123,292	140,388	38,595	20,450	16,616	103,186	29,368	96,613
Cropland fertilized, except cropland pastured . . . . . farms, 2002	444	497	276	111	148	737	130	526
1997	654	561	293	161	115	842	156	655
acres treated, 2002	41,646	110,212	38,346	6,990	7,448	62,835	18,972	44,921
1997	48,593	102,345	32,556	5,646	7,683	46,737	19,689	43,247
Pastureland and rangeland fertilized . . . . . farms, 2002	820	327	136	150	158	683	78	603
1997	781	353	154	171	203	718	90	593
acres treated, 2002	102,352	39,703	7,222	8,414	14,193	50,825	9,675	81,392
1997	74,699	38,043	6,039	14,804	8,933	56,449	9,679	53,366
Manure . . . . . farms, 2002	144	106	142	22	42	314	28	149
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2002	5,113	8,224	3,590	1,526	481	9,821	2,107	7,962
1997	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals used to control-								
Insects <sup>2</sup> . . . . . farms, 2002	35	132	105	11	11	186	17	52
1997	42	49	63	2	-	128	8	71
acres treated, 2002	3,251	12,241	9,621	55	484	8,698	3,308	2,389
1997	3,640	8,549	6,777	(D)	-	5,633	933	3,688
Weeds, grass, or brush . . . . . farms, 2002	169	339	191	32	71	178	99	113
1997	138	332	205	9	35	154	157	89
acres treated, 2002	8,863	90,197	32,434	2,240	3,521	4,710	19,642	7,820
1997	7,951	88,156	32,542	976	3,170	4,032	31,442	3,086
Nematodes . . . . . farms, 2002	-	2	-	-	-	-	13	-
1997	-	6	6	-	1	-	-	-
acres treated, 2002	-	(D)	-	-	-	-	2,780	-
1997	-	3,275	312	-	(D)	-	-	-
Diseases in crops and orchards . . . . . farms, 2002	-	38	45	11	-	-	4	1
1997	9	10	13	-	9	7	-	20
acres treated, 2002	-	2,176	259	55	-	-	160	(D)
1997	84	4,483	1,580	-	1,234	35	-	425
Chemicals used to control growth, thin fruit, or defoliate . . . . . farms, 2002	1	7	29	11	-	-	-	1
1997	1	5	15	-	-	-	1	-
acres on which used, 2002	(D)	846	59	55	-	-	-	(D)
1997	(D)	3,150	169	-	-	-	(D)	-

<sup>1</sup> Data for 1997 exclude lime.

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