

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982**

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

Chemicals used	County							
	Missouri	Adair	Andrew	Atchison	Audrain	Barry	Barton	
Commercial fertilizer ----- farms, 1987..	66 478	536	611	564	858	991	691	
	1982..	83 251	479	497	500	811	713	
	acres on which used, 1987..	8 789 212	55 732	69 632	147 066	164 534	79 734	141 227
	1982..	8 327 224	51 268	60 970	127 164	163 735	62 063	158 601
Cropland fertilized, except pastureland ----- farms, 1987..	53 762	458	565	548	819	629	586	
	1982..	54 511	433	488	499	787	685	
	acres on which used, 1987..	6 798 379	43 911	64 625	134 339	154 702	36 216	118 389
	1982..	6 874 821	43 822	51 609	113 893	154 555	34 364	144 015
Pastureland and rangeland fertilized ----- farms, 1987..	26 307	162	109	150	226	570	272	
	1982..	21 129	80	107	113	162	183	
	acres on which used, 1987..	1 990 833	11 821	5 007	12 727	9 832	43 518	22 838
	1982..	1 452 403	7 446	9 361	13 271	9 180	27 699	14 586
Lime ----- farms, 1987..	16 221	128	95	55	266	192	123	
	1982..	13 475	90	79	47	179	186	
	acres on which used, 1987..	893 501	8 725	4 156	6 378	14 208	7 900	7 952
	1982..	616 020	3 025	5 394	6 427	8 868	6 175	11 452
Sprays, dusts, granules, fumigants, etc., to control ----- farms, 1987..	2 149 958	43 359	12 300	15 435	40 851	14 257	16 545	
	1982..	1 515 547	9 173	13 735	15 378	22 803	13 205	33 014
	acres on which used, 1987..	1 689 536	9 915	23 269	62 831	30 352	6 147	21 342
	1982..	1 695 285	13 253	18 334	67 263	34 316	4 966	13 505
Nematodes in crops ----- farms, 1987..	824	3	2	16	6	16	-	
	1982..	897	14	3	13	7	-	
	acres on which used, 1987..	86 167	69	(D)	3 702	479	223	-
	1982..	141 514	14	(D)	2 507	730	-	-
Diseases in crops and orchards ----- farms, 1987..	1 640	1	23	8	2	36	8	
	1982..	1 279	14	3	16	13	18	
	acres on which used, 1987..	92 043	(D)	1 255	2 478	(D)	1 079	(D)
	1982..	149 135	857	156	1 200	1 858	610	(D)
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	37 202	349	542	490	703	175	489	
	1982..	37 069	360	624	496	665	183	482
	acres on which used, 1987..	7 144 587	55 199	85 308	163 878	202 160	7 948	112 151
	1982..	7 267 819	56 521	92 317	163 881	187 403	9 804	109 744
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	1 880	-	18	1	19	11	-	
	1982..	1 887	16	11	8	17	8	
	acres on which used, 1987..	227 289	-	762	(D)	1 611	465	
	1982..	199 032	2 393	921	2 952	1 878	514	274

  

Chemicals used	County							
	Bates	Benton	Bollinger	Boone	Buchanan	Butler	Caldwell	
Commercial fertilizer ----- farms, 1987..	785	443	589	732	611	563	580	
	1982..	820	419	586	667	578	527	
	acres on which used, 1987..	130 425	50 786	51 533	69 082	64 787	135 736	54 843
	1982..	141 696	45 897	50 484	62 653	61 305	137 391	62 034
Cropland fertilized, except pastureland ----- farms, 1987..	600	349	439	650	565	510	535	
	1982..	789	353	525	563	548	494	
	acres on which used, 1987..	92 469	36 485	36 484	57 223	58 683	132 034	50 568
	1982..	118 050	34 934	42 450	56 149	56 659	133 126	53 373
Pastureland and rangeland fertilized ----- farms, 1987..	393	217	258	185	117	63	83	
	1982..	215	208	199	187	145	102	
	acres on which used, 1987..	37 956	14 301	15 049	11 859	6 104	3 702	4 275
	1982..	23 646	10 963	8 034	6 504	4 646	4 265	8 661
Lime ----- farms, 1987..	220	109	155	181	120	101	145	
	1982..	193	87	130	144	71	127	
	acres on which used, 1987..	13 942	6 409	6 208	10 531	4 549	4 440	6 607
	1982..	9 474	2 612	3 194	5 800	3 144	5 053	6 777
Sprays, dusts, granules, fumigants, etc., to control ----- farms, 1987..	36 700	17 019	15 366	27 249	11 894	9 008	17 742	
	1982..	24 836	6 973	9 271	16 029	9 429	11 700	13 374
	acres on which used, 1987..	29 569	4 910	4 671	15 523	24 687	15 550	14 382
	1982..	26 022	5 842	12 873	9 943	20 088	15 899	10 062
Nematodes in crops ----- farms, 1987..	8	-	-	17	1	1	15	
	1982..	14	-	7	15	9	42	
	acres on which used, 1987..	160	-	-	1 128	(D)	(D)	616
	1982..	2 000	-	1 860	910	970	754	6 463
Diseases in crops and orchards ----- farms, 1987..	29	-	6	44	12	43	-	
	1982..	19	-	6	17	4	7	
	acres on which used, 1987..	1 857	-	12	640	1 011	4 059	-
	1982..	1 886	-	1 800	83	1 087	4 386	665
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	540	161	232	453	524	420	470	
	1982..	485	160	252	327	475	382	393
	acres on which used, 1987..	96 169	24 237	25 743	68 131	79 176	118 190	64 751
	1982..	80 677	16 626	32 044	61 686	74 770	140 485	66 793
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	4	-	5	10	4	2	-	
	1982..	18	2	8	7	24	40	
	acres on which used, 1987..	110	-	460	517	107	(D)	
	1982..	1 246	(D)	3 348	31	1 478	3 686	2 904

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.**

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

Chemicals used	County						
	Callaway	Camden	Cape Girardeau	Carroll	Carter	Cass	Cedar
Commercial fertilizer ----- farms, 1987..	742	303	950	700	104	834	571
1982..	683	206	963	741	53	858	531
acres on which used, 1987..	84 511	20 635	100 954	131 115	5 055	101 185	51 378
1982..	90 024	16 008	98 427	128 639	3 008	91 545	37 217
Cropland fertilized, except pastureland ----- farms, 1987..	576	206	779	679	62	713	359
1982..	591	136	833	706	42	693	391
acres on which used, 1987..	68 855	9 357	82 186	122 727	1 672	82 924	25 507
1982..	76 002	8 392	88 463	115 191	1 943	74 789	22 349
Pastureland and rangeland fertilized ----- farms, 1987..	287	154	411	116	58	317	283
1982..	221	98	322	149	13	340	230
acres on which used, 1987..	15 656	11 278	18 768	8 388	3 383	18 261	25 871
1982..	14 022	7 616	9 964	13 448	1 065	16 756	14 868
Lime ----- farms, 1987..	184	66	397	85	39	157	141
1982..	139	35	260	152	28	147	53
acres on which used, 1987..	9 204	2 995	15 304	16 603	1 211	10 856	8 011
1982..	6 964	770	6 646	8 057	1 641	8 203	3 170
tons, 1987..	23 574	6 007	41 498	43 968	2 653	21 827	16 657
1982..	17 812	1 822	20 348	23 235	5 007	21 595	7 074
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops ----- farms, 1987..	161	27	190	188	7	178	37
1982..	158	6	201	197	6	170	52
acres on which used, 1987..	14 167	377	9 851	27 778	133	17 536	2 668
1982..	10 241	400	17 468	40 881	114	23 193	1 947
Nematodes in crops ----- farms, 1987..	10	-	7	14	-	16	-
1982..	1	-	12	1	-	7	6
acres on which used, 1987..	953	-	550	538	-	2 757	-
1982..	(D)	-	72	(D)	-	2 246	588
Diseases in crops and orchards ----- farms, 1987..	1	13	9	19	-	33	20
1982..	8	-	18	9	-	31	6
acres on which used, 1987..	(D)	55	(D)	6 359	-	435	713
1982..	123	-	715	481	-	1 268	288
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	373	18	545	691	16	555	74
1982..	456	33	595	648	5	574	116
acres on which used, 1987..	68 458	392	66 678	190 804	324	82 347	9 036
1982..	77 041	730	71 551	153 982	475	81 694	11 341
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	8	6	51	3	-	7	1
1982..	24	-	12	10	-	24	6
acres on which used, 1987..	910	48	2 218	(D)	-	80	(D)
1982..	192	-	943	236	-	1 085	288

  

Chemicals used	County						
	Chariton	Christian	Clark	Clay	Clinton	Cole	Cooper
Commercial fertilizer ----- farms, 1987..	813	722	566	269	469	641	670
1982..	771	660	511	345	494	547	636
acres on which used, 1987..	142 563	55 466	88 988	36 328	62 235	40 651	113 332
1982..	122 759	42 593	82 256	32 946	67 230	33 821	110 384
Cropland fertilized, except pastureland ----- farms, 1987..	758	493	561	192	424	475	632
1982..	754	467	478	241	455	462	588
acres on which used, 1987..	128 513	30 225	81 782	32 274	50 074	20 835	93 991
1982..	110 105	24 443	75 528	20 776	57 457	25 528	96 583
Pastureland and rangeland fertilized ----- farms, 1987..	213	401	121	87	142	328	294
1982..	150	316	106	164	116	243	221
acres on which used, 1987..	14 050	25 241	7 206	4 054	12 161	19 816	19 341
1982..	12 654	18 150	6 728	12 170	9 773	8 293	13 801
Lime ----- farms, 1987..	247	247	110	54	135	194	189
1982..	178	167	73	24	88	75	103
acres on which used, 1987..	17 221	8 742	6 085	2 321	8 303	5 286	12 841
1982..	7 535	5 193	2 350	1 087	6 325	1 306	5 059
tons, 1987..	37 397	20 501	15 833	5 432	20 046	12 385	31 694
1982..	19 679	13 049	6 742	2 991	15 279	2 153	12 880
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops ----- farms, 1987..	290	145	224	84	106	42	215
1982..	247	152	209	85	120	101	162
acres on which used, 1987..	29 366	7 136	24 836	7 412	6 781	2 022	25 586
1982..	27 423	8 449	28 645	6 044	11 374	3 642	23 143
Nematodes in crops ----- farms, 1987..	11	18	12	1	8	1	4
1982..	17	1	11	-	10	1	2
acres on which used, 1987..	1 159	860	963	(D)	320	(D)	80
1982..	716	(D)	1 600	-	(D)	(D)	(D)
Diseases in crops and orchards ----- farms, 1987..	16	32	2	-	11	2	11
1982..	13	16	-	7	16	14	13
acres on which used, 1987..	647	252	(D)	-	452	(D)	903
1982..	4 143	816	-	54	999	20	796
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	695	227	477	294	412	244	466
1982..	727	163	453	268	446	238	433
acres on which used, 1987..	172 713	10 228	90 732	42 953	68 519	14 130	81 310
1982..	165 157	8 647	103 934	28 081	66 294	17 772	90 987
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	21	9	7	8	28	1	18
1982..	41	13	18	-	8	9	2
acres on which used, 1987..	650	38	40	780	784	(D)	606
1982..	6 252	447	829	-	45	17	(D)

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.**

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

Chemicals used	County							
	Crawford	Dade	Dallas	Daviess	De Kalb	Dent	Douglas	
Commercial fertilizer ----- farms, 1987..	360	550	536	620	512	453	649	
1982..	340	525	611	613	527	353	626	
acres on which used, 1987..	27 280	93 329	43 001	71 433	66 090	33 033	48 830	
1982..	21 735	68 515	49 284	77 235	71 266	29 522	37 474	
Cropland fertilized, except pastureland ----- farms, 1987..	229	406	333	579	439	286	415	
1982..	178	371	487	592	496	256	457	
acres on which used, 1987..	9 508	55 725	18 736	62 371	55 548	13 433	17 478	
1982..	5 659	51 079	26 644	72 640	56 558	11 617	18 983	
Pastureland and rangeland fertilized ----- farms, 1987..	220	316	343	118	154	258	425	
1982..	201	246	258	87	163	164	322	
acres on which used, 1987..	17 772	37 604	24 265	9 062	10 542	19 600	31 352	
1982..	16 076	17 436	22 640	4 595	14 708	17 905	18 491	
Lime ----- farms, 1987..	57	177	154	84	97	94	130	
1982..	93	90	198	95	97	62	167	
acres on which used, 1987..	1 780	6 277	5 559	3 797	4 090	4 994	7 436	
1982..	2 870	4 741	6 039	3 321	5 404	2 767	5 351	
tons, 1987..	4 106	14 615	13 669	8 363	9 600	13 915	16 691	
1982..	6 834	12 225	11 722	8 845	12 038	9 665	13 437	
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	14	91	66	209	118	60	60	
1982..	45	59	53	161	159	69	71	
acres on which used, 1987..	265	10 136	2 812	17 472	18 526	1 855	1 917	
1982..	636	6 191	2 981	23 153	18 073	1 515	2 095	
Nematodes in crops ----- farms, 1987..	-	-	-	-	14	-	-	
1982..	-	1	-	8	2	-	-	
acres on which used, 1987..	-	-	-	-	848	-	-	
1982..	-	(D)	-	730	(D)	-	-	
Diseases in crops and orchards ----- farms, 1987..	12	18	-	19	12	17	-	
1982..	2	12	2	27	9	-	7	
acres on which used, 1987..	100	1 316	-	767	1 154	128	-	
1982..	(D)	778	(D)	8 691	496	-	26	
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	62	215	94	558	411	88	72	
1982..	79	200	93	612	381	67	101	
acres on which used, 1987..	3 790	37 219	1 844	94 809	62 967	4 718	2 629	
1982..	4 133	37 030	3 049	107 782	66 929	2 642	6 352	
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	-	21	-	39	21	5	6	
1982..	-	-	3	13	13	-	7	
acres on which used, 1987..	-	452	-	2 393	861	5	60	
1982..	-	-	(D)	3 580	1 182	-	63	

  

Chemicals used	County							
	Dunklin	Franklin	Gasconade	Gentry	Greene	Grundy	Harrison	Henry
Commercial fertilizer ----- farms, 1987..	631	1 049	642	491	1 216	407	636	611
1982..	703	989	571	471	969	439	655	582
acres on which used, 1987..	203 079	79 618	51 499	65 706	88 016	64 800	88 891	104 934
1982..	201 201	76 709	34 989	78 460	66 532	72 017	110 239	106 079
Cropland fertilized, except pastureland ----- farms, 1987..	625	774	506	448	820	383	587	478
1982..	691	851	491	438	735	403	591	522
acres on which used, 1987..	202 494	55 134	34 835	53 962	45 260	54 906	73 467	70 903
1982..	200 111	66 389	23 698	59 930	41 777	64 020	83 933	81 540
Pastureland and rangeland fertilized ----- farms, 1987..	23	510	294	151	616	112	156	298
1982..	22	307	238	165	450	93	243	238
acres on which used, 1987..	585	24 484	16 664	11 744	42 756	9 894	15 424	34 031
1982..	1 090	10 320	11 291	18 530	24 755	7 997	26 306	24 539
Lime ----- farms, 1987..	229	290	173	72	248	45	130	115
1982..	202	154	154	63	236	93	125	108
acres on which used, 1987..	18 102	10 932	3 897	7 173	10 714	4 392	10 013	9 976
1982..	18 023	2 907	4 823	3 393	6 971	4 064	5 515	7 698
tons, 1987..	33 879	26 206	10 292	18 232	25 308	9 042	24 893	27 709
1982..	35 202	7 042	12 535	7 628	17 016	10 395	15 499	20 022
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	379	257	113	172	326	92	183	106
1982..	247	187	65	214	286	139	292	75
acres on which used, 1987..	92 478	12 559	7 190	16 148	11 126	7 853	21 648	13 052
1982..	52 496	10 377	3 710	18 351	14 743	11 544	35 198	12 186
Nematodes in crops ----- farms, 1987..	66	16	-	10	-	9	21	10
1982..	60	34	-	11	-	-	4	9
acres on which used, 1987..	10 684	949	-	3 650	-	275	755	2 828
1982..	16 299	3 737	-	2 060	-	-	855	818
Diseases in crops and orchards ----- farms, 1987..	88	35	15	11	26	12	11	1
1982..	64	22	1	27	32	2	5	10
acres on which used, 1987..	15 143	288	223	295	564	(D)	(D)	(D)
1982..	10 125	1 046	(D)	646	277	(D)	732	4 476
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	521	493	232	447	328	356	482	385
1982..	606	502	226	329	340	474	480	405
acres on which used, 1987..	173 758	51 692	21 011	70 042	15 748	92 843	101 367	73 010
1982..	214 870	57 120	11 349	72 577	14 042	123 443	89 333	70 137
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	350	5	7	17	13	2	1	12
1982..	228	18	11	7	4	28	(D)	21
acres on which used, 1987..	76 716	(D)	290	445	627	(D)	(D)	437
1982..	38 654	1 095	380	670	69	2 879	562	363

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.**

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

Chemicals used	County								
	Hickory	Holt	Howard	Howell	Iron	Jackson	Jasper	Jefferson	
Commercial fertilizer ----- farms, 1987..	356	518	520	1 001	155	459	732	365	
	1982..	232	464	431	1 047	432	723	313	
	acres on which used, 1987..	32 229	100 889	60 908	85 605	8 282	33 881	97 434	21 177
	1982..	21 428	91 553	62 925	72 080	3 684	46 742	112 127	22 225
Cropland fertilized, except pastureland ----- farms, 1987..	258	487	479	493	103	360	546	314	
	1982..	174	463	413	669	61	377	597	282
	acres on which used, 1987..	17 374	92 978	56 257	22 785	3 350	29 333	69 461	18 587
	1982..	13 023	84 031	58 009	26 834	1 552	43 183	90 832	18 385
Pastureland and rangeland fertilized ----- farms, 1987..	153	90	107	744	85	167	305	87	
	1982..	126	54	80	641	65	104	334	79
	acres on which used, 1987..	14 855	7 911	4 651	62 820	4 932	4 548	27 973	2 590
	1982..	8 405	7 522	4 916	45 246	2 132	3 559	21 295	3 840
Lime ----- farms, 1987..	132	34	123	347	26	53	135	87	
	1982..	39	42	43	426	21	58	217	55
	acres on which used, 1987..	7 266	4 245	7 699	12 474	929	670	10 367	1 463
	1982..	1 604	3 104	1 465	11 420	465	2 871	20 634	974
Sprays, dusts, granules, fumigants, etc., to control--									
	Insects on hay and other crops ----- farms, 1987..	49	254	178	165	7	167	177	103
	1982..	32	237	152	152	-	145	102	86
	acres on which used, 1987..	1 838	42 897	21 393	6 415	70	8 296	16 123	2 912
1982..	1 109	38 484	16 968	4 725	-	18 563	6 375	2 903	
Nematodes in crops ----- farms, 1987..	-	7	3	-	-	3	-	9	
	1982..	-	7	13	-	-	6	3	
	acres on which used, 1987..	-	2 423	384	-	-	289	-	64
	1982..	-	801	2 692	-	-	5 855	120	66
Diseases in crops and orchards ----- farms, 1987..	9	1	14	22	-	20	23	26	
	1982..	-	6	12	8	-	64	22	7
	acres on which used, 1987..	(D)	(D)	747	184	-	348	516	295
	1982..	-	(D)	1 997	8	-	3 293	936	540
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	57	449	376	214	19	332	313	153	
	1982..	27	483	294	228	15	297	254	124
	acres on which used, 1987..	2 854	131 536	65 184	11 389	3 726	49 046	39 830	19 737
	1982..	1 711	142 766	50 445	17 239	199	41 855	60 445	13 768
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	18	21	6	-	-	2	15	4	
	1982..	-	18	37	-	7	10	-	
	acres on which used, 1987..	192	1 625	(D)	-	-	(D)	327	120
	1982..	-	2 388	3 855	-	21	683	731	-

  

Chemicals used	County								
	Johnson	Knox	Laclede	Lafayette	Lawrence	Lewis	Lincoln	Linn	
Commercial fertilizer ----- farms, 1987..	1 123	529	671	1 015	1 063	552	766	626	
	1982..	897	455	623	997	1 018	768	658	
	acres on which used, 1987..	111 596	96 785	67 595	141 977	102 073	108 849	98 535	88 718
	1982..	115 417	82 739	46 927	134 672	102 924	99 068	109 576	98 807
Cropland fertilized, except pastureland ----- farms, 1987..	911	521	386	914	735	508	695	557	
	1982..	808	447	476	908	718	749	597	
	acres on which used, 1987..	74 310	83 266	27 940	121 676	53 087	97 450	91 988	71 929
	1982..	91 249	74 543	25 860	118 657	59 616	90 624	101 399	81 268
Pastureland and rangeland fertilized ----- farms, 1987..	492	130	476	358	691	184	185	183	
	1982..	345	103	286	316	626	100	148	
	acres on which used, 1987..	37 286	13 519	39 655	20 301	48 986	11 499	6 547	16 789
	1982..	24 168	8 196	21 067	16 015	43 308	8 444	8 177	17 539
Lime ----- farms, 1987..	292	149	168	261	340	143	195	168	
	1982..	154	142	113	202	179	136	146	
	acres on which used, 1987..	14 404	13 234	6 194	15 213	16 264	7 658	7 642	12 300
	1982..	6 952	10 096	4 276	8 015	8 633	7 478	5 413	5 319
Sprays, dusts, granules, fumigants, etc., to control--									
	Insects on hay and other crops ----- farms, 1987..	178	167	114	442	325	207	253	178
	1982..	178	171	99	426	184	236	235	109
	acres on which used, 1987..	11 768	20 412	6 550	40 356	15 521	35 690	26 253	12 598
1982..	20 021	20 164	5 373	42 918	12 719	33 330	30 256	11 197	
Nematodes in crops ----- farms, 1987..	11	1	-	34	1	19	31	-	
	1982..	-	11	-	14	9	3	7	
	acres on which used, 1987..	1 300	(D)	-	3 381	(D)	663	4 218	-
	1982..	-	276	-	3 662	(D)	2 365	(D)	7
Diseases in crops and orchards ----- farms, 1987..	14	9	10	48	24	1	8	13	
	1982..	17	2	-	47	18	14	22	
	acres on which used, 1987..	47	45	11	2 111	350	(D)	408	
	1982..	1 220	(D)	-	7 187	1 552	3 869	1 015	1 102
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	605	453	70	827	346	402	507	451	
	1982..	629	392	115	812	260	476	520	
	acres on which used, 1987..	81 295	111 071	3 806	140 380	21 860	88 459	77 744	86 787
	1982..	89 194	94 367	5 596	138 777	28 405	97 013	90 778	95 812
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	2	11	7	15	2	1	9	31	
	1982..	26	3	-	34	10	24	20	
	acres on which used, 1987..	(D)	2 177	49	1 553	(D)	(D)	3 122	5 448
	1982..	1 590	(D)	-	2 785	351	1 473	3 970	1 993

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.**

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

Chemicals used	Livingston	McDonald	Macon	Madison	Maries	Marion	Mercer	Miller
Commercial fertilizer ----- farms, 1987--	508	396	692	257	551	648	326	572
1982--	532	374	649	189	512	557	387	413
acres on which used, 1987--	80 042	28 795	100 387	17 150	57 289	89 538	46 335	34 018
1982--	62 672	27 987	88 234	9 127	38 579	85 001	70 545	24 122
Cropland fertilized, except pastureland ----- farms, 1987--	493	285	598	148	382	616	292	398
1982--	513	244	598	121	412	515	370	321
acres on which used, 1987--	73 398	15 106	73 620	7 499	24 611	82 895	38 214	19 278
1982--	58 095	11 059	79 732	5 315	20 951	76 481	57 398	14 558
Pastureland and rangeland fertilized ----- farms, 1987--	98	198	246	143	334	134	103	270
1982--	73	182	124	103	238	137	93	187
acres on which used, 1987--	6 644	13 689	26 767	9 651	32 678	6 703	8 121	14 740
1982--	4 577	16 928	8 502	3 812	17 628	8 520	13 147	9 564
Lime ----- farms, 1987--	134	68	207	56	163	194	82	118
1982--	113	90	163	52	72	182	64	36
acres on which used, 1987--	8 166	2 609	10 350	1 438	6 567	7 179	3 936	5 266
1982--	5 685	3 366	8 559	639	1 758	7 604	4 849	1 264
tons, 1987--	22 570	5 810	26 401	3 303	11 835	21 362	11 399	13 619
1982--	11 036	6 400	23 151	1 847	5 207	22 819	14 113	2 224
Sprays, dusts, granules, fumigants, etc., to control--								
Insects on hay and other crops ----- farms, 1987--	148	46	176	24	34	174	105	62
1982--	90	33	147	3	54	142	148	75
acres on which used, 1987--	19 552	1 659	20 593	360	1 023	15 627	17 466	1 371
1982--	12 681	1 437	20 506	403	1 441	12 579	14 005	2 685
Nematodes in crops ----- farms, 1987--	18	-	3	6	9	9	12	-
1982--	1	-	2	-	5	26	1	5
acres on which used, 1987--	393	-	622	48	358	306	1 200	-
1982--	(D)	-	(D)	-	250	1 315	(D)	90
Diseases in crops and orchards ----- farms, 1987--	1	1	1	-	1	11	-	-
1982--	6	-	6	-	15	1	6	5
acres on which used, 1987--	(D)	(D)	(D)	-	(D)	344	-	-
1982--	352	-	555	-	500	(D)	408	208
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	531	95	560	67	123	505	244	131
1982--	497	81	535	38	79	450	255	105
acres on which used, 1987--	123 622	3 779	106 293	5 801	8 002	88 530	25 909	8 700
1982--	109 279	1 961	98 020	2 648	5 714	80 565	46 918	4 816
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	1	-	6	-	1	3	8	19
1982--	30	18	4	-	-	3	29	-
acres on which used, 1987--	(D)	-	300	-	(D)	(D)	496	57
1982--	1 375	250	1 455	-	-	3 120	2 860	-

  

Chemicals used	Mississippi	Moniteau	Monroe	Montgomery	Morgan	New Madrid	Newton	Nodaway
Commercial fertilizer ----- farms, 1987--	301	680	742	621	475	507	823	1 053
1982--	299	632	612	575	474	556	822	974
acres on which used, 1987--	136 629	61 810	116 492	83 533	42 558	211 659	66 324	178 391
1982--	125 828	52 149	101 762	84 957	39 725	214 106	55 544	168 651
Cropland fertilized, except pastureland ----- farms, 1987--	295	503	685	548	373	507	533	976
1982--	299	569	569	564	416	551	549	891
acres on which used, 1987--	132 727	39 568	97 529	73 194	28 291	(D)	37 868	148 688
1982--	124 255	43 456	87 388	77 823	26 784	212 774	33 729	135 263
Pastureland and rangeland fertilized ----- farms, 1987--	16	371	234	214	245	2	447	380
1982--	8	149	183	113	168	18	421	389
acres on which used, 1987--	3 902	22 242	18 963	10 339	14 267	(D)	28 456	29 703
1982--	1 573	8 693	14 374	7 134	12 941	1 332	21 815	33 388
Lime ----- farms, 1987--	86	118	232	142	115	175	214	215
1982--	88	53	156	122	115	160	309	137
acres on which used, 1987--	13 248	4 438	14 644	7 608	3 869	17 157	13 191	17 123
1982--	12 897	1 070	7 114	5 140	4 558	20 071	12 699	11 273
tons, 1987--	22 939	13 231	40 677	20 724	9 887	32 574	31 256	35 417
1982--	28 031	3 061	18 053	14 974	6 935	37 873	26 457	24 058
Sprays, dusts, granules, fumigants, etc., to control--								
Insects on hay and other crops ----- farms, 1987--	90	102	133	155	101	187	99	441
1982--	74	104	189	117	72	142	60	604
acres on which used, 1987--	20 091	5 151	15 192	18 214	4 243	49 894	2 365	54 144
1982--	26 618	3 556	14 215	12 303	5 100	44 777	3 861	73 276
Nematodes in crops ----- farms, 1987--	6	14	19	44	12	31	10	6
1982--	19	-	1	6	16	36	1	47
acres on which used, 1987--	286	1 001	1 135	1 743	768	6 676	87	1 506
1982--	5 148	-	(D)	2 008	1 160	13 436	(D)	2 588
Diseases in crops and orchards ----- farms, 1987--	7	21	6	10	30	26	14	3
1982--	8	-	23	1	17	1	5	11
acres on which used, 1987--	4 766	1 009	204	114	1 432	953	38	(D)
1982--	3 064	-	615	(D)	2 810	6 362	394	1 728
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	281	328	615	450	213	451	218	915
1982--	287	333	509	479	160	498	169	864
acres on which used, 1987--	184 612	37 571	110 711	78 077	21 445	255 545	16 378	200 460
1982--	189 033	34 539	100 688	83 013	14 162	266 587	10 129	189 570
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	22	8	16	14	16	216	2	23
1982--	29	2	16	9	1	155	16	27
acres on which used, 1987--	4 223	38	1 698	338	536	34 940	(D)	3 592
1982--	6 255	(D)	160	302	(D)	25 611	555	3 883

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.**

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

Chemicals used	Oregon	Osage	Ozark	Pemiscot	Perry	Pettis	Phelps	Pike
Commercial fertilizer ----- farms, 1987--	481	887	411	408	697	831	407	665
1982--	457	688	406	445	615	810	378	712
acres on which used, 1987--	39 603	79 691	47 764	141 371	87 255	119 377	31 816	106 334
1982--	39 460	52 713	37 824	114 632	77 914	128 584	18 269	114 276
Cropland fertilized, except pastureland ----- farms, 1987--	222	701	257	408	642	741	244	603
1982--	270	583	252	445	564	711	241	699
acres on which used, 1987--	7 201	42 379	13 743	141 371	73 769	97 711	14 510	93 789
1982--	12 792	32 275	9 983	114 632	62 529	113 409	10 579	104 191
Pastureland and rangeland fertilized ----- farms, 1987--	301	539	255	--	272	257	232	170
1982--	255	345	258	--	265	247	219	162
acres on which used, 1987--	32 402	37 312	34 021	--	13 488	21 666	17 306	12 545
1982--	26 668	20 438	27 841	--	15 385	15 175	7 690	10 085
Lime ----- farms, 1987--	109	197	117	18	219	232	59	168
1982--	112	110	104	66	225	135	92	218
acres on which used, 1987--	5 498	8 276	5 471	2 703	8 097	17 913	2 886	12 119
1982--	5 326	2 458	2 093	6 906	4 821	8 400	2 971	9 436
tons, 1987--	13 165	19 824	16 426	5 305	24 126	45 012	6 416	33 563
1982--	11 760	5 996	5 731	14 005	12 825	21 974	6 622	24 838
Sprays, dusts, granules, fumigants, etc., to control--								
Insects on hay and other crops ----- farms, 1987--	104	182	106	246	211	160	65	183
1982--	56	123	103	157	190	169	46	279
acres on which used, 1987--	2 782	8 641	3 417	52 071	21 866	17 094	4 281	22 659
1982--	2 267	5 119	2 868	35 963	11 726	17 282	1 230	30 122
Nematodes in crops ----- farms, 1987--	--	14	1	7	19	1	--	1
1982--	--	1	--	8	4	2	1	21
acres on which used, 1987--	--	190	(D)	2 939	2 608	(D)	--	(D)
1982--	--	(D)	--	2 605	1 553	(D)	(D)	3 478
Diseases in crops and orchards ----- farms, 1987--	2	16	6	19	36	6	48	10
1982--	7	9	2	12	15	2	17	14
acres on which used, 1987--	(D)	685	240	3 610	1 637	1 500	289	851
1982--	7	1 000	(D)	4 039	4 150	(D)	324	963
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	122	313	73	289	466	634	89	521
1982--	127	194	40	409	407	526	141	547
acres on which used, 1987--	3 714	20 979	4 609	186 028	52 564	126 378	8 668	96 675
1982--	7 527	15 189	1 442	213 806	50 820	102 545	4 706	98 257
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	7	17	--	211	28	11	--	4
1982--	18	--	--	94	8	22	--	4
acres on which used, 1987--	28	51	--	35 233	1 211	1 683	--	(D)
1982--	1 372	--	--	13 628	510	3 195	--	1 917

  

Chemicals used	Platte	Polk	Pulaski	Putnam	Ralls	Randolph	Ray	Reynolds
Commercial fertilizer ----- farms, 1987--	527	960	264	377	441	493	695	134
1982--	553	785	298	415	429	482	633	180
acres on which used, 1987--	61 724	102 957	24 377	45 566	79 928	74 570	78 057	7 429
1982--	67 797	64 663	23 515	48 431	71 297	51 517	86 822	9 703
Cropland fertilized, except pastureland ----- farms, 1987--	476	695	173	308	424	403	588	99
1982--	501	663	186	334	419	453	587	129
acres on which used, 1987--	54 857	52 636	8 691	26 546	73 076	55 983	64 841	3 114
1982--	61 096	43 088	9 181	33 528	68 182	45 778	78 393	3 116
Pastureland and rangeland fertilized ----- farms, 1987--	142	530	151	162	107	153	193	53
1982--	108	329	208	147	58	85	139	85
acres on which used, 1987--	6 867	50 321	15 686	19 020	6 852	18 587	13 216	4 315
1982--	6 701	21 575	14 334	14 903	3 115	5 739	8 429	6 587
Lime ----- farms, 1987--	73	277	87	90	91	112	112	37
1982--	39	160	39	49	102	132	53	36
acres on which used, 1987--	4 073	17 325	3 857	5 876	3 877	5 632	8 014	1 059
1982--	2 536	4 986	995	1 828	7 198	4 366	3 810	391
tons, 1987--	9 661	31 981	5 027	17 380	11 080	14 325	12 289	1 508
1982--	5 859	11 952	2 138	6 043	17 889	12 323	7 275	907
Sprays, dusts, granules, fumigants, etc., to control--								
Insects on hay and other crops ----- farms, 1987--	232	208	12	64	78	103	246	7
1982--	238	175	12	77	104	127	155	13
acres on which used, 1987--	16 187	11 057	116	6 066	8 673	11 259	23 915	144
1982--	13 184	9 662	324	9 753	9 900	7 961	21 080	148
Nematodes in crops ----- farms, 1987--	20	--	--	14	5	--	2	1
1982--	4	8	--	8	19	17	--	1
acres on which used, 1987--	1 186	--	--	932	1 336	--	(D)	(D)
1982--	2 220	800	--	1 391	961	340	--	(D)
Diseases in crops and orchards ----- farms, 1987--	39	17	11	8	--	2	17	--
1982--	27	6	--	14	8	3	11	--
acres on which used, 1987--	1 340	115	11	(D)	--	(D)	954	--
1982--	840	6	--	2 728	462	(D)	2 258	--
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	416	152	55	279	336	270	571	7
1982--	384	180	73	300	369	411	553	38
acres on which used, 1987--	66 998	7 516	2 075	39 457	77 689	66 151	116 318	450
1982--	69 208	8 415	2 470	36 780	99 855	54 973	116 918	818
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	23	2	6	--	--	--	8	--
1982--	33	9	7	--	1	6	6	--
acres on which used, 1987--	998	(D)	540	--	--	--	1 222	--
1982--	516	217	70	--	(D)	6	1 829	--

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.**

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

Chemicals used	County							
	Ripley	St. Charles	St. Clair	Ste. Genevieve	St. Francois	St. Louis	Saline	Schuyler
Commercial fertilizer ----- farms, 1987..	285	628	519	427	348	154	765	300
1982..	278	675	433	434	315	200	738	267
acres on which used, 1987..	35 755	81 498	89 856	43 456	16 282	11 246	139 555	37 053
1982..	34 650	89 553	72 488	45 606	20 703	13 351	141 567	30 721
Cropland fertilized, except pastureland ----- farms, 1987..	168	575	452	339	263	148	728	249
1982..	201	646	368	342	240	180	718	261
acres on which used, 1987..	21 036	77 824	57 844	30 787	9 163	(D)	126 368	27 977
1982..	26 725	86 426	49 092	33 212	15 375	13 000	131 412	25 875
Pastureland and rangeland fertilized ----- farms, 1987..	172	114	210	229	139	7	178	117
1982..	125	112	186	231	121	21	149	82
acres on which used, 1987..	14 719	3 674	32 012	12 669	7 119	(D)	13 187	9 076
1982..	7 925	3 127	23 396	12 394	5 328	351	10 155	4 846
Lime ----- farms, 1987..	80	97	135	107	97	9	149	89
1982..	57	110	118	69	66	28	103	59
acres on which used, 1987..	4 502	3 875	10 647	2 969	4 680	156	11 202	7 467
1982..	2 018	4 983	7 524	1 257	1 530	564	5 150	1 690
tons, 1987..	10 828	9 847	22 494	7 145	16 627	129	29 257	17 840
1982..	4 709	14 174	19 138	3 842	3 774	1 081	12 661	4 663
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	23	263	87	89	58	99	340	85
1982..	44	253	65	145	66	88	329	74
acres on which used, 1987..	1 375	42 157	8 354	5 820	2 179	4 057	40 772	7 602
1982..	986	31 394	6 707	7 497	1 803	2 170	45 487	9 215
Nematodes in crops ----- farms, 1987..	11	1	-	2	1	13	9	8
1982..	-	24	6	-	-	1	4	7
acres on which used, 1987..	880	(D)	-	(D)	(D)	80	690	373
1982..	-	3 102	30	-	-	(D)	873	1 241
Diseases in crops and orchards ----- farms, 1987..	16	52	23	2	8	11	19	-
1982..	8	14	22	1	2	23	8	-
acres on which used, 1987..	995	1 644	479	(D)	44	116	1 278	-
1982..	40	342	380	(D)	(D)	240	1 124	-
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	98	442	298	217	90	115	654	233
1982..	46	517	210	199	64	107	681	247
acres on which used, 1987..	12 421	88 043	50 111	21 779	3 919	12 923	190 175	27 422
1982..	18 663	91 091	23 404	22 840	2 257	14 772	162 884	33 989
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	10	17	13	3	9	13	8	-
1982..	8	4	12	7	10	16	14	-
acres on which used, 1987..	150	1 207	822	(D)	9	39	1 801	-
1982..	1 550	(D)	285	378	455	91	1 535	-

  

Chemicals used	County							
	Scotland	Scott	Shannon	Shelby	Stoddard	Stone	Sullivan	Taney
Commercial fertilizer ----- farms, 1987..	487	479	271	584	937	360	467	278
1982..	386	498	232	570	1 071	385	476	233
acres on which used, 1987..	84 568	127 669	16 992	124 741	258 474	24 526	60 399	22 988
1982..	63 654	123 946	16 657	92 597	290 526	24 065	72 394	15 830
Cropland fertilized, except pastureland ----- farms, 1987..	431	450	176	536	833	190	354	146
1982..	379	486	126	537	1 034	259	427	146
acres on which used, 1987..	74 236	124 619	8 276	113 953	248 206	7 905	42 451	5 260
1982..	59 781	121 742	7 631	81 243	286 672	13 355	54 321	4 700
Pastureland and rangeland fertilized ----- farms, 1987..	126	84	145	156	178	230	165	202
1982..	79	55	139	140	101	181	101	159
acres on which used, 1987..	10 332	3 050	8 716	10 788	10 268	16 621	17 948	17 728
1982..	3 873	2 204	9 026	11 354	3 854	10 710	18 073	11 130
Lime ----- farms, 1987..	206	114	101	103	282	82	128	46
1982..	76	170	77	171	323	82	36	40
acres on which used, 1987..	18 588	9 994	1 644	5 029	23 041	4 158	10 239	2 789
1982..	6 089	9 895	2 316	8 696	26 896	2 671	2 347	1 681
tons, 1987..	50 626	14 952	4 829	12 780	45 746	8 393	22 924	7 133
1982..	14 932	19 724	7 475	26 501	52 331	8 258	6 649	4 118
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	163	128	8	148	221	72	62	12
1982..	178	140	-	216	201	74	119	25
acres on which used, 1987..	16 499	24 222	60	19 929	34 375	1 657	5 558	336
1982..	26 485	32 440	-	25 316	50 022	2 766	23 225	483
Nematodes in crops ----- farms, 1987..	2	2	-	2	19	-	2	-
1982..	12	16	-	12	49	-	28	-
acres on which used, 1987..	(D)	(D)	-	(D)	5 494	-	(D)	-
1982..	1 760	5 964	-	600	9 213	-	3 896	-
Diseases in crops and orchards ----- farms, 1987..	9	19	9	16	56	16	1	6
1982..	1	25	-	7	51	-	19	7
acres on which used, 1987..	677	1 239	18	1 127	6 383	30	(D)	70
1982..	(D)	8 554	-	2 276	13 308	-	2 389	7
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	350	382	62	499	763	95	253	66
1982..	334	410	30	434	780	38	295	70
acres on which used, 1987..	76 407	143 247	2 031	129 129	253 454	1 910	46 920	1 211
1982..	71 346	149 846	1 024	113 767	278 143	5 356	71 251	3 655
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	3	49	-	4	130	8	-	1
1982..	8	58	-	9	81	-	16	1
acres on which used, 1987..	430	5 031	-	20	12 716	94	-	(D)
1982..	1 050	5 850	-	(D)	8 339	-	580	(D)

**Table 9. Agricultural Chemicals Used, Including Fertilizer and Lime: 1987 and 1982—Con.**

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

Chemicals used	Texas	Vernon	Warren	Washington	Wayne	Webster	Worth	Wright
Commercial fertilizer ----- farms, 1987..	925	804	321	241	185	1 151	209	801
1982..	908	768	386	187	253	834	170	780
acres on which used, 1987..	100 349	129 049	41 330	14 277	12 931	91 881	29 607	80 276
1982..	64 967	149 123	55 527	11 666	24 258	64 164	26 240	60 296
Cropland fertilized, except pastureland ----- farms, 1987..	622	632	274	183	125	797	191	547
1982..	629	696	358	157	211	672	161	588
acres on which used, 1987..	41 774	95 087	37 749	5 449	6 715	43 224	21 858	28 737
1982..	29 825	124 688	50 848	5 176	19 936	35 376	21 865	30 541
Pastureland and rangeland fertilized ----- farms, 1987..	574	296	116	124	86	658	76	525
1982..	491	237	108	70	72	404	43	421
acres on which used, 1987..	58 575	33 962	3 581	8 828	6 216	48 657	7 749	51 539
1982..	35 142	24 435	4 679	6 490	4 322	28 788	4 375	29 755
Lime ----- farms, 1987..	207	173	92	40	20	426	58	180
1982..	263	158	76	54	54	172	31	145
acres on which used, 1987..	9 153	9 632	3 832	1 359	1 520	13 120	3 620	6 478
1982..	7 527	7 734	1 203	1 315	1 158	6 224	816	3 362
tons, 1987..	19 937	26 118	10 753	3 427	3 555	30 197	10 319	12 280
1982..	18 089	19 626	4 162	4 471	3 201	17 154	1 726	7 812
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	131	246	135	18	18	161	64	75
1982..	97	162	152	19	14	138	83	117
acres on which used, 1987..	8 453	37 287	13 384	768	467	6 570	5 004	2 552
1982..	3 284	28 392	19 664	102	123	5 464	5 353	5 190
Nematodes in crops ----- farms, 1987..	-	7	5	-	-	3	-	1
1982..	-	25	2	-	-	2	12	1
acres on which used, 1987..	-	647	758	-	-	156	-	(D)
1982..	-	4 906	(D)	-	-	(D)	455	(D)
Diseases in crops and orchards ----- farms, 1987..	2	50	27	1	1	16	-	11
1982..	-	11	2	6	-	10	13	11
acres on which used, 1987..	(D)	2 188	722	(D)	(D)	55	-	82
1982..	-	2 185	(D)	12	-	(D)	3 639	151
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	129	383	226	21	45	176	207	125
1982..	174	480	277	26	95	289	235	264
acres on which used, 1987..	9 987	84 364	38 013	543	2 269	9 748	37 089	5 952
1982..	7 918	110 261	51 797	2 741	17 458	17 648	40 500	14 262
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	3	7	24	-	6	-	6	9
1982..	8	35	22	14	6	12	1	10
acres on which used, 1987..	5	575	2 700	-	6	-	492	555
1982..	203	1 572	484	212	12	(D)	(D)	559