

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012

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

Item	Iowa	Adair	Adams	Allamakee	Appanoose
Commercial fertilizer, lime, and soil conditionersfarms, 2017	52,144	454	261	483	260
2012	54,093	451	256	483	303
acres treated, 2017	19,295,181	175,855	105,809	123,711	61,469
2012	19,641,333	170,904	96,304	134,586	70,784
Cropland fertilized, except cropland pasturefarms, 2017	50,048	424	237	472	218
2012	52,428	431	242	470	261
acres treated, 2017	18,760,579	154,652	92,069	117,909	51,286
2012	19,161,951	157,957	89,764	130,032	61,199
Pastureland and rangeland fertilizedfarms, 2017	7,595	173	96	103	96
2012	7,396	121	69	94	102
acres treated, 2017	534,602	21,203	13,740	5,802	10,183
2012	479,382	12,947	6,540	4,554	9,585
Manurefarms, 2017	21,111	169	87	283	75
2012	19,443	154	70	268	61
acres treated, 2017	2,762,414	19,641	17,984	32,407	3,416
2012	2,347,716	9,068	6,879	33,268	3,904
Organic fertilizer (see text)farms, 2017	1,463	5	6	8	9
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	192,333	(D)	2,399	293	355
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	23,066	132	60	181	49
2012	27,915	147	58	299	80
acres, 2017	8,704,278	60,389	20,726	41,513	16,856
2012	9,204,573	52,396	21,976	64,006	24,375
Weeds, grass, or brushfarms, 2017	49,212	451	251	456	185
2012	53,988	455	263	491	247
acres, 2017	22,540,781	214,992	133,924	123,753	57,675
2012	23,200,379	220,370	125,197	131,832	61,351
Nematodesfarms, 2017	5,588	22	6	22	13
2012	4,353	32	11	33	16
acres, 2017	1,659,332	4,898	(D)	5,901	2,082
2012	1,045,726	6,861	2,064	3,762	1,468
Diseases in crops and orchardsfarms, 2017	7,187	47	21	52	8
2012	5,302	31	13	45	13
acres, 2017	2,926,494	13,686	7,242	6,808	2,024
2012	1,702,624	16,252	8,253	11,512	728
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	266	-	1	1	-
2012	352	-	1	4	5
acres on which used, 2017	19,162	-	(D)	(D)	-
2012	13,981	-	(D)	(D)	104

Item	Audubon	Benton	Black Hawk	Boone	Bremer
Commercial fertilizer, lime, and soil conditionersfarms, 2017	357	770	579	527	592
2012	356	794	635	527	628
acres treated, 2017	162,887	289,461	211,316	237,537	189,131
2012	179,917	301,754	214,442	225,503	202,907
Cropland fertilized, except cropland pasturefarms, 2017	330	749	549	502	578
2012	341	784	628	512	617
acres treated, 2017	158,963	285,916	210,756	235,251	188,438
2012	175,190	298,014	213,736	222,855	202,274
Pastureland and rangeland fertilizedfarms, 2017	87	80	50	50	41
2012	70	83	34	50	31
acres treated, 2017	3,924	3,545	560	2,286	693
2012	4,727	3,740	706	2,648	633
Manurefarms, 2017	133	254	260	187	244
2012	148	259	200	126	232
acres treated, 2017	17,419	20,691	26,312	13,472	22,700
2012	22,596	18,085	18,211	9,022	23,455
Organic fertilizer (see text)farms, 2017	3	15	5	16	13
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	137	888	1,613	1,296	402
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	132	288	241	195	323
2012	151	489	366	260	384
acres, 2017	69,439	89,101	86,686	68,516	109,803
2012	56,420	126,464	94,437	91,502	119,107
Weeds, grass, or brushfarms, 2017	346	732	561	507	573
2012	371	806	639	533	626
acres, 2017	206,759	344,977	249,325	265,896	214,825
2012	218,254	350,388	260,455	267,493	223,347
Nematodesfarms, 2017	20	93	68	79	66
2012	19	58	61	46	75
acres, 2017	6,930	25,899	26,591	19,730	17,665
2012	7,959	10,957	10,152	10,071	19,723
Diseases in crops and orchardsfarms, 2017	67	135	106	55	103
2012	32	88	70	67	66
acres, 2017	27,294	50,667	44,062	24,965	34,183
2012	9,637	20,106	15,717	18,994	14,010
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	1	8	22	1	1
2012	1	4	-	2	14
acres on which used, 2017	(D)	1,022	923	(D)	(D)
2012	(D)	265	-	(D)	700

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Buchanan	Buena Vista	Butler	Calhoun	Carroll	
Commercial fertilizer, lime, and soil conditioners	farms, 2017	672	583	546	536	735
	2012	722	609	652	550	778
acres treated, 2017	254,617	230,302	245,589	243,429	240,759	
	2012	269,456	235,144	262,826	245,094	267,235
Cropland fertilized, except cropland pasture	farms, 2017	660	580	536	524	724
	2012	713	603	640	546	758
acres treated, 2017	253,479	228,631	244,582	241,563	237,559	
	2012	268,044	232,900	261,216	242,366	262,344
Pastureland and rangeland fertilized	farms, 2017	49	23	41	32	84
	2012	59	26	56	45	79
acres treated, 2017	1,138	1,671	1,007	1,866	3,200	
	2012	1,412	2,244	1,610	2,728	4,891
Manure	farms, 2017	339	283	235	187	354
	2012	341	289	263	142	324
acres treated, 2017	34,264	64,914	33,183	26,189	50,965	
	2012	37,531	51,178	29,447	19,039	43,211
Organic fertilizer (see text)	farms, 2017	25	14	15	19	35
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	3,671	6,908	1,221	4,438	1,038	
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--						
	Insects					
farms, 2017	331	343	215	197	299	
	2012	402	388	293	332	392
acres, 2017	119,037	132,812	108,433	99,601	100,234	
	2012	126,116	152,281	111,010	124,179	133,327
Weeds, grass, or brush	farms, 2017	614	568	535	519	731
	2012	704	622	656	560	787
acres, 2017	265,922	303,624	278,997	284,684	280,390	
	2012	294,701	314,057	306,610	307,981	308,802
Nematodes	farms, 2017	98	75	50	69	74
	2012	72	98	38	54	39
acres, 2017	19,470	24,041	20,090	27,665	16,602	
	2012	15,897	26,601	8,211	14,476	8,759
Diseases in crops and orchards	farms, 2017	115	93	64	59	100
	2012	75	86	36	65	52
acres, 2017	51,344	39,917	49,912	24,964	28,994	
	2012	17,787	31,080	10,828	18,213	15,143
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2017	1	-	1	-	1
	2012	8	3	4	2	3
acres on which used, 2017	(D)	-	(D)	-	(D)	
	2012	373	152	147	(D)	117
Item	Cass	Cedar	Cerro Gordo	Cherokee	Chickasaw	
Commercial fertilizer, lime, and soil conditioners	farms, 2017	416	600	486	665	612
	2012	432	545	493	626	628
acres treated, 2017	163,064	243,448	238,685	198,901	204,671	
	2012	162,682	222,589	248,681	215,245	216,399
Cropland fertilized, except cropland pasture	farms, 2017	386	562	479	647	605
	2012	404	523	490	610	623
acres treated, 2017	148,388	239,416	237,630	193,641	203,434	
	2012	148,017	218,432	247,418	207,556	215,542
Pastureland and rangeland fertilized	farms, 2017	137	102	22	86	32
	2012	139	81	28	103	32
acres treated, 2017	14,676	4,032	1,055	5,260	1,237	
	2012	14,665	4,157	1,263	7,689	857
Manure	farms, 2017	167	256	132	332	253
	2012	132	188	128	283	254
acres treated, 2017	15,537	23,485	10,399	42,007	30,742	
	2012	11,296	12,690	15,400	37,108	28,525
Organic fertilizer (see text)	farms, 2017	8	13	5	31	8
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	1,037	2,246	1,289	4,206	504	
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--						
	Insects					
farms, 2017	111	253	328	317	350	
	2012	172	367	268	431	380
acres, 2017	43,670	94,662	157,613	90,660	129,295	
	2012	72,242	125,366	122,870	165,985	112,008
Weeds, grass, or brush	farms, 2017	411	569	473	653	553
	2012	441	550	505	651	628
acres, 2017	212,556	291,215	280,715	271,207	235,442	
	2012	211,276	252,436	287,783	282,577	248,190
Nematodes	farms, 2017	37	56	50	55	67
	2012	17	46	47	32	74
acres, 2017	8,031	12,392	13,607	8,861	15,370	
	2012	5,564	13,096	15,158	11,767	13,731
Diseases in crops and orchards	farms, 2017	53	82	99	90	120
	2012	55	69	58	82	73
acres, 2017	21,716	26,103	49,641	25,855	51,639	
	2012	23,175	27,459	22,271	25,761	17,982
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2017	1	4	3	2	2
	2012	2	2	5	9	4
acres on which used, 2017	(D)	358	1,378	(D)	(D)	
	2012	(D)	(D)	560	812	86

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Clarke	Clay	Clayton	Clinton	Crawford
Commercial fertilizer, lime, and soil conditionersfarms, 2017	239	473	765	778	610
2012	265	511	816	870	659
acres treated, 2017	44,068	216,530	223,121	287,903	304,461
2012	49,800	211,280	225,176	316,591	333,068
Cropland fertilized, except cropland pasturefarms, 2017	201	471	752	745	587
2012	242	504	802	850	623
acres treated, 2017	(D)	214,807	218,123	283,652	292,226
2012	42,571	208,375	221,216	310,155	322,933
Pastureland and rangeland fertilizedfarms, 2017	85	28	101	102	152
2012	78	38	89	101	139
acres treated, 2017	(D)	1,723	4,998	4,251	12,235
2012	7,229	2,905	3,960	6,436	10,135
Manurefarms, 2017	94	154	445	318	234
2012	81	174	399	347	204
acres treated, 2017	5,779	26,899	35,289	32,479	27,812
2012	5,268	29,878	40,508	29,153	28,696
Organic fertilizer (see text)farms, 2017	2	15	35	7	14
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	(D)	3,954	1,859	632	1,573
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	42	311	303	403	253
2012	57	321	478	576	253
acres, 2017	13,660	139,159	96,389	129,870	120,895
2012	7,845	144,439	133,985	176,647	135,730
Weeds, grass, or brushfarms, 2017	214	466	690	747	596
2012	245	524	800	872	647
acres, 2017	44,901	280,286	223,781	318,321	356,092
2012	55,282	275,178	226,273	345,978	389,167
Nematodesfarms, 2017	14	64	63	129	62
2012	8	62	48	81	44
acres, 2017	7,375	34,377	12,259	36,095	17,983
2012	413	25,209	17,511	18,389	15,733
Diseases in crops and orchardsfarms, 2017	16	55	103	117	98
2012	19	63	83	98	50
acres, 2017	1,924	37,033	46,304	30,448	45,670
2012	454	32,989	36,861	24,977	15,425
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	2	4	7	1	4
2012	5	-	13	8	-
acres on which used, 2017	(D)	329	1,926	(D)	22
2012	58	-	620	481	-

Item	Dallas	Davis	Decatur	Delaware	Des Moines
Commercial fertilizer, lime, and soil conditionersfarms, 2017	517	379	261	898	361
2012	563	407	289	938	382
acres treated, 2017	197,059	78,536	80,314	275,636	109,333
2012	196,806	82,990	73,709	285,438	100,989
Cropland fertilized, except cropland pasturefarms, 2017	496	319	224	378	356
2012	528	363	244	933	374
acres treated, 2017	194,071	65,263	64,149	268,214	106,907
2012	194,007	71,776	60,721	280,710	99,166
Pastureland and rangeland fertilizedfarms, 2017	58	173	106	129	31
2012	73	148	116	111	35
acres treated, 2017	2,988	13,273	16,165	7,422	2,426
2012	2,799	11,214	12,988	4,728	1,823
Manurefarms, 2017	132	227	88	543	95
2012	127	170	80	527	96
acres treated, 2017	14,962	13,811	7,206	74,902	6,982
2012	7,881	11,224	6,984	64,726	7,002
Organic fertilizer (see text)farms, 2017	18	30	4	20	7
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	930	1,834	150	1,678	311
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	226	78	53	496	161
2012	239	126	70	629	167
acres, 2017	91,926	11,570	7,873	129,112	47,688
2012	71,366	31,749	25,293	163,349	43,194
Weeds, grass, or brushfarms, 2017	526	234	192	835	339
2012	567	327	234	922	372
acres, 2017	235,136	69,191	74,171	267,456	123,655
2012	242,726	80,356	69,081	288,493	121,429
Nematodesfarms, 2017	49	15	20	101	47
2012	36	20	10	99	28
acres, 2017	10,417	5,411	3,372	22,465	9,953
2012	4,531	14,710	3,043	19,116	5,952
Diseases in crops and orchardsfarms, 2017	68	14	16	136	62
2012	69	17	9	75	43
acres, 2017	38,329	2,292	6,484	38,264	25,050
2012	27,995	14,716	1,049	16,904	11,937
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	2	1	-	1	1
2012	7	-	1	6	4
acres on which used, 2017	(D)	(D)	-	(D)	(D)
2012	19	-	(D)	209	243

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Dickinson	Dubuque	Emmet	Fayette	Floyd	
Commercial fertilizer, lime, and soil conditioners	farms, 2017	267	938	339	746	541
	2012	298	948	325	761	571
acres treated, 2017	132,453	207,740	164,611	237,803	207,976	
	2012	131,331	180,478	159,334	247,181	223,941
Cropland fertilized, except cropland pasture	farms, 2017	265	911	334	731	532
	2012	290	935	314	759	566
acres treated, 2017	131,216	199,819	161,968	234,594	207,621	
	2012	130,158	175,620	156,793	244,958	223,158
Pastureland and rangeland fertilized	farms, 2017	24	151	27	61	19
	2012	25	116	36	42	29
acres treated, 2017	1,237	7,921	2,643	3,209	355	
	2012	1,173	4,858	2,541	2,223	783
Manure	farms, 2017	80	561	134	339	222
	2012	84	552	107	326	199
acres treated, 2017	15,349	69,511	27,901	41,624	34,084	
	2012	11,718	55,475	25,424	34,743	24,547
Organic fertilizer (see text)	farms, 2017	10	18	5	9	15
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	1,201	470	1,048	403	1,961	
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--	farms, 2017	192	488	221	307	316
	2012	176	658	138	410	260
Insects	acres, 2017	95,184	96,260	101,627	99,361	139,303
	2012	74,815	110,926	58,491	117,424	89,403
Weeds, grass, or brush	farms, 2017	264	788	333	731	531
	2012	314	940	326	760	568
acres, 2017	159,248	173,788	195,189	281,149	259,408	
	2012	157,440	171,109	192,106	293,821	259,561
Nematodes	farms, 2017	30	77	64	81	56
	2012	32	97	48	50	33
acres, 2017	15,610	10,370	21,938	19,209	19,906	
	2012	12,451	13,117	14,109	8,945	7,574
Diseases in crops and orchards	farms, 2017	26	75	26	108	92
	2012	18	95	22	74	45
acres, 2017	27,090	10,322	11,493	53,842	48,330	
	2012	5,066	16,995	9,328	26,411	12,622
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2017	2	6	-	1	1
	2012	3	2	-	2	-
acres on which used, 2017	(D)	96	-	(D)	(D)	
	2012	130	(D)	-	(D)	-
Item	Franklin	Fremont	Greene	Grundy	Guthrie	
Commercial fertilizer, lime, and soil conditioners	farms, 2017	508	359	498	495	436
	2012	567	332	518	481	443
acres treated, 2017	245,932	171,684	259,574	214,033	173,368	
	2012	268,348	181,461	253,143	221,502	177,648
Cropland fertilized, except cropland pasture	farms, 2017	502	345	481	475	407
	2012	559	322	502	473	421
acres treated, 2017	245,533	167,754	257,269	212,734	160,924	
	2012	267,252	176,254	249,600	220,252	169,475
Pastureland and rangeland fertilized	farms, 2017	18	53	54	40	115
	2012	34	69	64	33	85
acres treated, 2017	399	3,930	2,305	1,299	12,444	
	2012	1,096	5,207	3,543	1,250	8,173
Manure	farms, 2017	205	31	180	160	152
	2012	199	37	151	146	132
acres treated, 2017	53,817	7,642	24,098	23,661	21,912	
	2012	40,436	2,404	21,145	18,590	13,958
Organic fertilizer (see text)	farms, 2017	6	5	18	1	4
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	3,038	1,165	3,276	(D)	340	
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--	farms, 2017	239	122	165	263	134
	2012	249	103	291	358	177
Insects	acres, 2017	107,722	81,728	86,390	137,280	69,255
	2012	106,451	50,247	129,996	170,360	58,959
Weeds, grass, or brush	farms, 2017	496	342	471	480	426
	2012	579	330	518	501	455
acres, 2017	304,599	228,220	298,499	276,355	201,535	
	2012	318,881	234,639	299,848	288,078	217,286
Nematodes	farms, 2017	41	42	75	84	21
	2012	46	16	57	30	26
acres, 2017	9,367	24,853	29,302	22,503	9,344	
	2012	11,466	8,500	15,443	10,510	2,792
Diseases in crops and orchards	farms, 2017	86	63	83	121	51
	2012	59	34	76	92	35
acres, 2017	43,553	31,989	37,814	71,593	30,362	
	2012	21,480	10,882	26,026	56,754	6,490
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2017	-	-	1	1	1
	2012	1	1	1	2	-
acres on which used, 2017	-	-	(D)	(D)	(D)	
	2012	(D)	(D)	(D)	(D)	-

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Hamilton	Hancock	Hardin	Harrison	Henry
Commercial fertilizer, lime, and soil conditionersfarms, 2017	426	547	542	518	479
2012	460	619	549	552	438
acres treated, 2017	211,450	270,535	234,345	261,855	147,195
2012	245,716	265,567	238,983	276,983	151,917
Cropland fertilized, except cropland pasturefarms, 2017	417	542	536	486	464
2012	455	615	538	529	425
acres treated, 2017	211,165	270,183	231,132	250,889	144,460
2012	244,081	264,544	234,914	267,063	150,096
Pastureland and rangeland fertilizedfarms, 2017	19	13	49	122	48
2012	23	27	59	121	54
acres treated, 2017	285	352	3,213	10,966	2,735
2012	1,635	1,023	3,455	9,920	1,821
Manurefarms, 2017	190	164	247	82	187
2012	130	196	237	113	143
acres treated, 2017	42,104	32,234	67,879	8,552	14,734
2012	33,159	37,712	54,297	5,562	30,084
Organic fertilizer (see text)farms, 2017	15	15	19	19	10
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	2,233	4,563	6,692	3,273	491
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	157	352	256	212	177
2012	208	388	261	215	200
acres, 2017	80,074	156,907	120,709	112,343	52,332
2012	94,936	142,330	108,924	81,256	59,753
Weeds, grass, or brushfarms, 2017	421	530	525	486	431
2012	475	620	552	547	434
acres, 2017	261,603	311,022	290,329	304,158	175,411
2012	287,171	314,120	292,245	321,262	172,097
Nematodesfarms, 2017	53	100	61	63	35
2012	46	75	43	50	22
acres, 2017	18,781	33,638	21,330	30,250	7,790
2012	10,111	18,651	10,648	19,941	4,559
Diseases in crops and orchardsfarms, 2017	51	106	101	75	42
2012	40	79	82	51	40
acres, 2017	21,605	45,606	35,023	45,103	9,734
2012	10,580	26,389	30,176	16,862	28,196
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	1	-	1	-	2
2012	1	3	2	-	1
acres on which used, 2017	(D)	-	(D)	-	(D)
2012	(D)	(D)	(D)	-	(D)
Item	Howard	Humboldt	Ia	Iowa	Jackson
Commercial fertilizer, lime, and soil conditionersfarms, 2017	514	407	345	562	625
2012	542	393	378	573	688
acres treated, 2017	196,575	171,070	183,612	191,491	174,571
2012	207,333	157,392	175,594	193,132	158,261
Cropland fertilized, except cropland pasturefarms, 2017	497	400	324	538	584
2012	538	392	355	544	661
acres treated, 2017	195,321	170,834	177,953	186,399	165,315
2012	205,776	157,299	171,106	186,514	150,676
Pastureland and rangeland fertilizedfarms, 2017	40	14	93	94	144
2012	36	11	75	115	144
acres treated, 2017	1,254	236	5,659	5,092	9,256
2012	1,557	93	4,488	6,618	7,585
Manurefarms, 2017	223	78	140	235	382
2012	205	74	143	234	363
acres treated, 2017	35,788	17,518	28,018	21,379	29,832
2012	28,149	11,967	19,118	14,907	27,898
Organic fertilizer (see text)farms, 2017	10	11	19	6	17
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	921	873	6,625	324	2,287
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	241	249	147	214	267
2012	258	218	174	292	421
acres, 2017	89,011	115,997	86,195	57,886	79,518
2012	79,047	82,551	85,390	83,649	82,683
Weeds, grass, or brushfarms, 2017	464	384	354	535	567
2012	557	393	377	575	689
acres, 2017	223,616	213,469	222,535	231,284	165,689
2012	240,758	202,415	206,162	221,983	157,011
Nematodesfarms, 2017	35	77	25	59	68
2012	42	32	25	30	41
acres, 2017	7,862	28,055	7,798	12,854	10,464
2012	8,301	8,217	4,971	2,530	2,842
Diseases in crops and orchardsfarms, 2017	88	61	76	84	53
2012	51	44	42	52	40
acres, 2017	33,056	31,597	56,252	25,705	12,244
2012	14,642	20,592	12,811	19,357	4,568
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	1	1	7	4	3
2012	5	1	-	1	5
acres on which used, 2017	(D)	(D)	303	131	(D)
2012	100	(D)	-	(D)	43

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Jasper	Jefferson	Johnson	Jones	Keokuk	
Commercial fertilizer, lime, and soil conditioners	farms, 2017	634	281	712	711	534
	2012	673	288	754	660	503
acres treated, 2017	228,610	107,781	206,413	234,639	176,643	
	2012	237,301	98,921	209,199	212,683	162,135
Cropland fertilized, except cropland pasture	farms, 2017	609	258	691	667	511
	2012	654	275	737	649	500
acres treated, 2017	224,348	105,845	203,377	226,164	170,113	
	2012	232,746	96,727	205,084	207,526	156,923
Pastureland and rangeland fertilized	farms, 2017	95	45	98	140	94
	2012	100	55	128	86	71
acres treated, 2017	4,262	1,936	3,036	8,475	6,530	
	2012	4,555	2,194	4,115	5,157	5,212
Manure	farms, 2017	243	100	382	319	210
	2012	229	87	374	305	176
acres treated, 2017	20,701	7,406	26,177	38,845	25,260	
	2012	17,062	5,452	26,554	29,417	15,576
Organic fertilizer (see text)	farms, 2017	17	15	86	4	10
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	526	955	9,451	(D)	795	
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--	farms, 2017	314	78	249	346	198
	2012	427	115	417	429	236
Insects	acres, 2017	109,815	39,042	70,959	108,505	68,071
	2012	128,172	28,975	90,934	117,697	59,112
Weeds, grass, or brush	farms, 2017	603	239	605	652	507
	2012	676	277	722	684	513
acres, 2017	283,548	129,929	211,968	238,896	197,102	
	2012	291,487	114,059	224,921	229,578	189,209
Nematodes	farms, 2017	85	38	74	74	61
	2012	52	19	56	54	45
acres, 2017	20,604	23,161	14,877	20,658	19,445	
	2012	13,749	2,062	7,726	6,139	7,258
Diseases in crops and orchards	farms, 2017	97	32	70	84	53
	2012	52	29	58	78	33
acres, 2017	42,524	14,475	16,915	25,963	19,773	
	2012	17,332	5,924	9,008	18,778	6,056
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2017	4	-	6	2	3
	2012	3	4	1	2	2
acres on which used, 2017	114	-	107	(D)	132	
	2012	235	88	(D)	(D)	(D)

Item	Kossuth	Lee	Linn	Louisa	Lucas	
Commercial fertilizer, lime, and soil conditioners	farms, 2017	929	489	795	294	207
	2012	982	498	839	318	256
acres treated, 2017	415,412	113,750	232,180	108,380	51,254	
	2012	416,273	120,124	230,305	99,803	48,056
Cropland fertilized, except cropland pasture	farms, 2017	919	465	772	290	187
	2012	975	478	818	307	228
acres treated, 2017	414,843	108,401	227,714	107,546	42,590	
	2012	414,887	116,232	228,063	98,621	40,876
Pastureland and rangeland fertilized	farms, 2017	25	84	93	16	73
	2012	35	79	71	35	76
acres treated, 2017	569	5,349	4,466	834	8,664	
	2012	1,386	3,892	2,242	1,182	7,180
Manure	farms, 2017	303	177	345	111	66
	2012	291	167	258	106	58
acres treated, 2017	63,099	11,112	18,364	12,943	3,785	
	2012	60,107	9,076	14,083	11,112	2,664
Organic fertilizer (see text)	farms, 2017	19	14	17	8	5
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	5,818	1,199	2,039	2,039	98	
	2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--	farms, 2017	669	223	317	131	39
	2012	564	215	491	177	80
Insects	acres, 2017	266,926	62,097	83,186	45,208	10,840
	2012	236,033	62,760	118,505	48,774	13,345
Weeds, grass, or brush	farms, 2017	901	433	769	295	165
	2012	992	462	838	326	229
acres, 2017	500,808	127,416	243,594	143,074	53,991	
	2012	537,476	139,079	259,136	119,551	48,350
Nematodes	farms, 2017	181	36	100	56	19
	2012	139	20	72	19	9
acres, 2017	50,409	6,836	29,143	8,239	1,152	
	2012	39,730	3,878	12,694	5,593	911
Diseases in crops and orchards	farms, 2017	150	35	109	44	11
	2012	109	25	87	44	6
acres, 2017	76,473	15,308	34,123	18,426	879	
	2012	48,987	4,810	19,457	12,786	159
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2017	2	6	5	3	1
	2012	12	3	3	2	5
acres on which used, 2017	(D)	31	23	143	(D)	
	2012	398	756	8	(D)	97

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Lyon	Madison	Mahaska	Marion	Marshall
Commercial fertilizer, lime, and soil conditionersfarms, 2017	858	423	539	486	535
2012	892	453	605	472	548
acres treated, 2017	225,186	114,789	163,538	119,386	205,138
2012	252,185	118,612	176,843	129,764	212,934
Cropland fertilized, except cropland pasturefarms, 2017	843	388	526	442	504
2012	873	418	585	444	537
acres treated, 2017	221,006	102,802	157,101	114,292	201,676
2012	243,630	108,024	172,426	123,957	208,871
Pastureland and rangeland fertilizedfarms, 2017	85	105	81	104	75
2012	139	114	74	76	67
acres treated, 2017	4,180	11,987	6,437	5,094	3,462
2012	8,555	10,588	4,417	5,807	4,063
Manurefarms, 2017	542	159	250	201	184
2012	518	128	240	146	152
acres treated, 2017	98,441	11,217	28,439	11,091	26,940
2012	84,093	7,401	23,914	10,209	14,850
Organic fertilizer (see text)farms, 2017	23	6	15	17	10
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	7,276	479	2,207	347	774
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	479	101	202	146	265
2012	562	134	271	151	309
acres, 2017	134,041	29,323	55,001	38,968	130,793
2012	150,616	29,965	79,830	34,714	107,226
Weeds, grass, or brushfarms, 2017	840	391	550	451	528
2012	919	441	607	459	550
acres, 2017	296,079	141,156	216,274	138,554	257,212
2012	322,898	132,016	228,250	156,625	259,963
Nematodesfarms, 2017	70	13	84	33	102
2012	89	20	44	21	53
acres, 2017	14,053	2,176	17,245	8,335	38,318
2012	14,575	2,955	6,996	5,876	12,110
Diseases in crops and orchardsfarms, 2017	74	37	79	63	121
2012	107	38	40	38	84
acres, 2017	14,177	18,278	16,404	18,448	72,067
2012	19,826	8,536	8,564	9,748	27,531
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	4	2	2	12	3
2012	5	3	8	9	12
acres on which used, 2017	402	(D)	(D)	120	(D)
2012	290	90	225	236	667
Item	Mills	Mitchell	Monona	Monroe	Montgomery
Commercial fertilizer, lime, and soil conditionersfarms, 2017	298	553	426	283	371
2012	316	626	396	279	346
acres treated, 2017	123,583	213,153	233,466	60,622	150,285
2012	128,698	213,821	242,687	67,180	156,139
Cropland fertilized, except cropland pasturefarms, 2017	285	543	400	261	356
2012	290	621	382	253	331
acres treated, 2017	122,052	212,214	223,047	52,973	143,007
2012	124,482	213,124	236,288	59,476	147,476
Pastureland and rangeland fertilizedfarms, 2017	38	48	93	62	83
2012	73	31	65	81	89
acres treated, 2017	1,531	939	10,419	7,649	7,278
2012	4,216	697	6,399	7,704	8,663
Manurefarms, 2017	40	278	118	87	78
2012	32	294	69	76	81
acres treated, 2017	1,342	43,092	13,347	4,978	6,725
2012	932	35,580	4,854	5,053	5,608
Organic fertilizer (see text)farms, 2017	10	19	10	6	3
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	633	716	1,319	109	(D)
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	127	338	151	97	135
2012	104	330	187	94	103
acres, 2017	56,460	141,090	79,652	18,972	49,779
2012	45,768	97,111	95,804	25,456	47,749
Weeds, grass, or brushfarms, 2017	288	541	411	243	347
2012	307	633	399	269	360
acres, 2017	169,419	249,914	258,033	55,699	177,811
2012	172,960	254,216	277,851	67,282	179,921
Nematodesfarms, 2017	23	77	39	25	22
2012	21	50	40	25	15
acres, 2017	6,800	36,857	11,278	5,952	7,777
2012	5,114	10,794	9,232	4,510	5,155
Diseases in crops and orchardsfarms, 2017	59	124	34	20	93
2012	26	53	36	21	23
acres, 2017	24,911	58,983	29,341	5,706	25,175
2012	6,293	13,297	25,667	5,374	8,635
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	1	7	2	-	2
2012	2	14	-	-	1
acres on which used, 2017	(D)	291	(D)	-	(D)
2012	(D)	396	-	(D)	(D)

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Muscatine	O'Brien	Osceola	Page	Palo Alto
Commercial fertilizer, lime, and soil conditioners farms, 2017	448	671	428	503	494
..... 2012	455	677	405	523	546
..... acres treated, 2017	139,881	212,773	155,838	197,075	247,261
..... 2012	144,013	205,078	161,010	201,460	255,459
Cropland fertilized, except cropland pasture farms, 2017	408	669	420	480	486
..... 2012	434	668	402	497	541
..... acres treated, 2017	137,748	210,431	155,413	184,858	246,260
..... 2012	141,746	202,294	160,455	186,680	254,651
Pastureland and rangeland fertilized farms, 2017	83	41	17	133	30
..... 2012	65	66	14	170	29
..... acres treated, 2017	2,133	2,342	425	12,217	1,001
..... 2012	2,267	2,784	555	14,780	808
Manure farms, 2017	169	311	169	95	193
..... 2012	148	278	152	107	191
..... acres treated, 2017	18,624	53,003	33,923	8,360	49,511
..... 2012	11,861	37,320	27,293	6,930	44,176
Organic fertilizer (see text) farms, 2017	3	19	6	9	13
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	243	1,959	791	1,093	623
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insects farms, 2017	216	458	292	132	330
..... 2012	252	396	295	142	365
..... acres, 2017	57,113	147,263	117,695	41,542	176,564
..... 2012	71,543	103,069	90,359	44,330	195,285
Weeds, grass, or brush farms, 2017	410	667	413	482	473
..... 2012	448	688	428	532	553
..... acres, 2017	162,850	266,106	200,494	247,035	289,100
..... 2012	162,320	264,863	213,064	234,411	314,381
Nematodes farms, 2017	69	44	39	46	96
..... 2012	49	61	37	19	100
..... acres, 2017	13,379	10,295	8,242	8,978	43,392
..... 2012	8,606	11,857	9,690	2,802	37,466
Diseases in crops and orchards farms, 2017	56	115	69	82	64
..... 2012	60	71	43	43	67
..... acres, 2017	17,613	40,691	24,346	32,115	31,109
..... 2012	20,165	21,016	9,568	11,315	27,737
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	-	1	2	-	-
..... 2012	2	1	5	5	-
..... acres on which used, 2017	-	(D)	(D)	-	-
..... 2012	(D)	(D)	447	191	-

Item	Plymouth	Pocahontas	Polk	Pottawattamie	Poweshiek
Commercial fertilizer, lime, and soil conditioners farms, 2017	925	546	411	775	535
..... 2012	1,006	563	413	829	528
..... acres treated, 2017	324,016	241,041	131,403	359,439	207,674
..... 2012	358,747	233,224	127,593	382,393	201,560
Cropland fertilized, except cropland pasture farms, 2017	894	536	394	744	507
..... 2012	967	563	388	798	516
..... acres treated, 2017	312,671	240,851	130,113	347,263	199,785
..... 2012	347,531	232,972	126,608	373,287	193,442
Pastureland and rangeland fertilized farms, 2017	128	21	66	165	118
..... 2012	157	13	46	157	102
..... acres treated, 2017	11,345	190	1,290	12,176	7,889
..... 2012	11,216	252	985	9,106	8,118
Manure farms, 2017	460	162	158	202	256
..... 2012	438	153	89	168	227
..... acres treated, 2017	80,857	34,805	6,213	25,114	28,737
..... 2012	71,454	31,298	5,039	16,020	27,534
Organic fertilizer (see text) farms, 2017	20	13	34	32	14
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	3,168	3,405	349	2,359	4,011
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insects farms, 2017	279	286	180	372	182
..... 2012	508	341	222	366	299
..... acres, 2017	104,923	145,765	55,273	186,697	80,996
..... 2012	157,019	152,364	66,889	161,553	107,101
Weeds, grass, or brush farms, 2017	906	528	395	727	517
..... 2012	1,017	570	431	842	541
..... acres, 2017	410,274	294,764	149,001	420,268	240,646
..... 2012	448,214	299,229	164,866	462,967	248,312
Nematodes farms, 2017	43	95	52	48	45
..... 2012	64	77	39	48	40
..... acres, 2017	9,936	37,248	18,718	12,753	16,469
..... 2012	11,846	24,743	7,951	16,001	9,588
Diseases in crops and orchards farms, 2017	54	83	57	149	62
..... 2012	56	74	64	123	47
..... acres, 2017	18,992	52,146	15,243	63,113	32,933
..... 2012	10,738	42,038	18,077	52,938	22,417
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	1	1	5	11	-
..... 2012	2	-	3	7	1
..... acres on which used, 2017	(D)	(D)	8	(D)	-
..... 2012	(D)	-	7	(D)	(D)

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Ringgold	Sac	Scott	Shelby	Sioux
Commercial fertilizer, lime, and soil conditionersfarms, 2017	311	614	478	646	1,199
2012	322	631	511	684	1,166
acres treated, 2017	105,112	230,617	163,007	275,559	322,976
2012	98,007	250,507	176,356	297,285	334,130
Cropland fertilized, except cropland pasturefarms, 2017	261	590	467	617	1,171
2012	300	617	502	665	1,133
acres treated, 2017	84,498	225,617	161,689	269,299	320,842
2012	82,295	246,605	174,349	291,201	331,311
Pastureland and rangeland fertilizedfarms, 2017	133	81	44	147	57
2012	109	83	47	138	85
acres treated, 2017	20,614	5,000	1,318	6,260	2,134
2012	15,712	3,902	2,007	6,084	2,819
Manurefarms, 2017	109	262	177	198	757
2012	86	249	174	199	738
acres treated, 2017	9,690	53,925	13,666	21,642	153,825
2012	9,662	44,637	18,306	17,182	138,334
Organic fertilizer (see text)farms, 2017	8	29	12	20	52
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	320	7,260	1,846	4,244	8,454
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	48	258	263	325	641
2012	99	326	332	294	794
acres, 2017	17,114	105,448	87,111	121,369	176,878
2012	27,040	122,934	95,628	95,499	215,447
Weeds, grass, or brushfarms, 2017	256	603	443	630	1,176
2012	314	633	520	685	1,207
acres, 2017	103,836	296,816	181,035	311,980	417,778
2012	115,910	311,416	189,513	329,478	416,131
Nematodesfarms, 2017	23	72	88	63	89
2012	16	44	50	42	95
acres, 2017	5,819	21,247	16,391	22,076	21,271
2012	7,254	11,809	9,021	8,562	17,638
Diseases in crops and orchardsfarms, 2017	14	80	73	125	138
2012	13	77	38	75	100
acres, 2017	3,798	41,806	18,487	43,844	23,039
2012	5,102	20,429	9,495	22,830	23,607
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	-	3	5	4	7
2012	2	3	-	5	6
acres on which used, 2017	-	251	168	500	422
2012	(D)	(D)	-	280	388
Item	Story	Tama	Taylor	Union	Van Buren
Commercial fertilizer, lime, and soil conditionersfarms, 2017	550	681	370	320	334
2012	576	701	317	322	337
acres treated, 2017	226,856	254,967	137,891	118,570	80,072
2012	217,607	255,777	135,481	84,831	87,034
Cropland fertilized, except cropland pasturefarms, 2017	517	669	347	266	298
2012	549	686	289	290	315
acres treated, 2017	225,003	248,775	123,557	99,457	74,655
2012	216,536	249,338	124,193	72,862	81,209
Pastureland and rangeland fertilizedfarms, 2017	67	94	118	144	89
2012	55	98	117	101	74
acres treated, 2017	1,853	6,192	14,334	19,113	5,417
2012	1,071	6,439	11,288	11,969	5,825
Manurefarms, 2017	168	244	91	104	132
2012	164	230	90	70	99
acres treated, 2017	25,583	24,450	9,785	10,144	8,818
2012	20,064	22,106	14,233	9,325	6,472
Organic fertilizer (see text)farms, 2017	16	19	4	12	10
2012	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	416	719	385	522	754
2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insectsfarms, 2017	232	317	70	53	85
2012	281	406	70	69	97
acres, 2017	113,812	114,888	24,197	22,977	27,294
2012	101,979	144,147	31,273	24,633	33,583
Weeds, grass, or brushfarms, 2017	533	673	335	268	254
2012	597	713	298	301	288
acres, 2017	257,229	312,881	172,566	121,590	84,715
2012	256,952	308,740	165,256	105,615	96,323
Nematodesfarms, 2017	109	81	19	16	28
2012	67	72	10	12	24
acres, 2017	38,100	24,309	2,389	7,558	6,348
2012	16,677	17,757	3,768	1,204	2,834
Diseases in crops and orchardsfarms, 2017	106	170	18	20	15
2012	101	112	11	11	20
acres, 2017	63,280	66,275	5,794	10,420	1,289
2012	29,207	44,134	8,815	5,307	8,071
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	6	16	-	-	2
2012	8	9	-	3	-
acres on which used, 2017	165	517	-	-	(D)
2012	192	521	(D)	29	-

--continued

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012 (continued)

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

Item	Wapello	Warren	Washington	Wayne	Webster
Commercial fertilizer, lime, and soil conditioners farms, 2017	320	487	629	316	599
..... 2012	339	563	623	291	667
..... acres treated, 2017	104,366	112,659	183,028	131,738	290,487
..... 2012	98,772	114,904	187,430	119,444	299,604
Cropland fertilized, except cropland pasture farms, 2017	307	461	611	265	588
..... 2012	321	528	610	262	654
..... acres treated, 2017	100,983	105,523	178,632	114,902	288,723
..... 2012	95,257	108,847	184,095	109,805	297,577
Pastureland and rangeland fertilized farms, 2017	58	98	93	129	28
..... 2012	64	99	79	88	43
..... acres treated, 2017	3,383	7,136	4,396	16,836	1,764
..... 2012	3,515	6,057	3,335	9,639	2,027
Manure farms, 2017	91	144	402	91	144
..... 2012	71	153	340	66	117
..... acres treated, 2017	6,173	4,774	53,371	5,261	26,497
..... 2012	6,462	5,305	49,946	4,421	15,806
Organic fertilizer (see text) farms, 2017	9	11	49	15	14
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	491	561	4,416	507	6,922
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insects farms, 2017	104	144	276	68	229
..... 2012	113	162	301	87	428
..... acres, 2017	37,255	31,853	84,247	50,301	111,158
..... 2012	35,663	37,543	83,171	31,944	179,782
Weeds, grass, or brush farms, 2017	277	483	594	216	584
..... 2012	294	569	612	265	676
..... acres, 2017	98,090	131,606	216,194	127,285	358,469
..... 2012	107,988	138,280	220,613	127,277	351,702
Nematodes farms, 2017	27	44	74	13	77
..... 2012	17	26	52	(D)	74
..... acres, 2017	10,294	6,843	18,855	(D)	39,370
..... 2012	6,572	4,901	8,010	7,926	24,436
Diseases in crops and orchards farms, 2017	16	57	97	12	99
..... 2012	21	49	60	9	83
..... acres, 2017	2,252	13,677	44,036	2,531	41,210
..... 2012	1,764	8,642	30,214	2,084	25,258
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	1	4	2	3	3
..... 2012	2	13	6	4	-
..... acres on which used, 2017	(D)	34	(D)	148	(D)
..... 2012	(D)	375	119	188	-

Item	Winnebago	Winneshek	Woodbury	Worth	Wright
Commercial fertilizer, lime, and soil conditioners farms, 2017	347	863	651	365	463
..... 2012	388	860	656	386	500
..... acres treated, 2017	171,332	247,359	321,589	172,070	248,842
..... 2012	166,289	239,918	323,757	165,734	251,336
Cropland fertilized, except cropland pasture farms, 2017	345	849	588	357	457
..... 2012	385	842	615	386	498
..... acres treated, 2017	(D)	243,546	307,760	171,770	247,898
..... 2012	166,018	236,774	310,440	165,368	250,691
Pastureland and rangeland fertilized farms, 2017	3	113	180	15	18
..... 2012	9	119	158	11	27
..... acres treated, 2017	(D)	3,813	13,829	300	944
..... 2012	271	3,144	13,317	366	645
Manure farms, 2017	107	478	240	95	157
..... 2012	92	462	208	101	158
..... acres treated, 2017	25,515	61,446	27,556	6,615	31,742
..... 2012	23,199	44,863	20,545	6,414	35,386
Organic fertilizer (see text) farms, 2017	5	27	17	8	12
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	(D)	2,812	1,605	2,070	1,949
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--					
Insects farms, 2017	228	394	197	210	202
..... 2012	188	516	330	203	207
..... acres, 2017	113,985	95,981	73,421	99,281	91,479
..... 2012	81,300	124,731	119,353	71,267	82,343
Weeds, grass, or brush farms, 2017	338	772	625	337	452
..... 2012	383	831	657	382	495
..... acres, 2017	210,156	237,418	340,267	190,605	312,276
..... 2012	202,724	239,502	362,007	201,708	320,733
Nematodes farms, 2017	52	60	42	42	49
..... 2012	35	67	50	36	26
..... acres, 2017	17,491	9,691	15,544	20,281	20,601
..... 2012	9,511	14,468	13,343	9,603	6,263
Diseases in crops and orchards farms, 2017	61	103	52	72	57
..... 2012	32	74	50	33	25
..... acres, 2017	32,353	30,262	14,929	28,623	26,812
..... 2012	11,406	17,126	19,042	7,589	5,283
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	7	4	2	2	1
..... 2012	2	4	1	2	4
..... acres on which used, 2017	83	(D)	(D)	(D)	(D)
..... 2012	(D)	192	(D)	(D)	100