

Table 40. Fertilizers and Chemicals Applied: 2022 and 2017

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

Item	Iowa	Adair	Adams	Allamakee	Appanoose	Audubon	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	53,104	463	318	527	266	363
	2017	52,144	454	261	483	260	357
acres treated, 2022	19,050,284	187,951	112,060	124,216	82,738	172,554	
	2017	19,295,181	175,855	105,809	123,711	61,469	162,887
Cropland fertilized, except cropland pasture	farms, 2022	51,158	438	300	495	216	346
	2017	50,048	424	237	472	218	330
acres treated, 2022	18,622,614	173,291	103,285	120,099	72,923	167,769	
	2017	18,760,579	154,652	92,069	117,909	51,286	158,963
Pastureland and rangeland fertilized	farms, 2022	6,174	139	74	81	98	66
	2017	7,595	173	96	103	96	87
acres treated, 2022	427,670	14,660	8,775	4,117	9,815	4,785	
	2017	534,602	21,203	13,740	5,802	10,183	3,924
Manure	farms, 2022	18,937	166	63	269	85	133
	2017	21,111	169	87	283	75	133
acres treated, 2022	2,395,879	17,940	10,532	29,838	3,353	21,457	
	2017	2,762,414	19,641	17,984	32,407	3,416	17,419
Organic fertilizer	farms, 2022	1,305	3	11	13	9	8
	2017	1,463	5	6	8	9	3
acres treated, 2022	225,408	(D)	2,462	1,567	307	379	
	2017	192,333	(D)	2,399	293	355	137
Acres treated to control- Insects	farms, 2022	24,199	144	102	185	59	143
	2017	23,066	132	60	181	49	132
acres, 2022	8,938,660	49,118	41,330	36,832	12,945	60,618	
	2017	8,704,278	60,389	20,726	41,513	16,856	69,439
Weeds, grass, or brush	farms, 2022	53,167	471	330	503	242	357
	2017	49,212	451	251	456	185	346
acres, 2022	22,241,979	217,354	140,143	123,420	71,854	198,302	
	2017	22,540,781	214,992	133,924	123,753	57,675	206,759
Nematodes	farms, 2022	6,822	37	30	38	17	20
	2017	5,588	22	6	22	13	20
acres, 2022	2,046,721	4,307	6,641	4,117	1,804	10,191	
	2017	1,659,332	4,898	(D)	5,901	2,082	6,930
Diseases in crops and orchards	farms, 2022	10,499	50	50	74	18	56
	2017	7,187	47	21	52	8	67
acres, 2022	4,145,706	12,816	18,070	13,799	10,895	28,908	
	2017	2,926,494	13,686	7,242	6,808	2,024	27,294
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	1,224	10	4	16	-	7
	2017	266	-	1	1	-	1
acres on which used, 2022	145,314	124	478	1,499	-	1,612	
	2017	19,162	-	(D)	(D)	-	(D)

Item	Benton	Black Hawk	Boone	Bremer	Buchanan	Buena Vista	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	772	604	576	623	733	533
	2017	770	579	527	592	672	583
acres treated, 2022	272,697	209,204	255,378	174,140	277,648	204,402	
	2017	289,461	211,316	237,537	189,131	254,617	230,302
Cropland fertilized, except cropland pasture	farms, 2022	751	583	553	604	715	533
	2017	749	549	502	578	660	580
acres treated, 2022	269,933	208,548	252,680	173,433	276,493	203,231	
	2017	285,916	210,756	235,251	188,438	253,479	228,631
Pastureland and rangeland fertilized	farms, 2022	64	37	44	36	58	17
	2017	50	50	50	41	49	23
acres treated, 2022	2,764	656	2,698	707	1,155	1,171	
	2017	3,545	560	2,286	693	1,138	1,671
Manure	farms, 2022	211	184	152	221	275	207
	2017	254	260	187	244	339	283
acres treated, 2022	17,427	16,963	11,373	27,570	32,013	41,221	
	2017	20,691	26,312	13,472	22,700	34,264	64,914
Organic fertilizer	farms, 2022	16	22	8	13	21	20
	2017	15	5	16	13	25	14
acres treated, 2022	401	3,364	1,182	2,415	2,779	4,004	
	2017	888	1,613	1,296	402	3,671	6,908
Acres treated to control- Insects	farms, 2022	328	308	246	353	403	253
	2017	288	241	195	323	331	343
acres, 2022	110,303	108,416	113,465	116,240	163,986	88,374	
	2017	89,101	86,686	68,516	109,803	119,037	132,812
Weeds, grass, or brush	farms, 2022	772	605	574	610	738	550
	2017	732	561	507	573	614	568
acres, 2022	309,790	243,106	285,964	197,145	307,016	280,837	
	2017	344,977	249,325	265,896	214,825	265,922	303,624
Nematodes	farms, 2022	124	91	85	88	136	92
	2017	93	68	79	66	98	75
acres, 2022	34,185	28,828	23,025	17,288	35,236	25,589	
	2017	25,899	26,591	19,730	17,665	19,470	24,041
Diseases in crops and orchards	farms, 2022	202	172	91	186	192	101
	2017	135	106	55	103	115	93
acres, 2022	85,173	56,719	44,731	68,482	66,709	37,552	
	2017	50,667	44,062	24,965	34,183	51,344	39,917
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	10	26	20	21	14	1
	2017	8	22	1	1	1	-
acres on which used, 2022	1,139	2,283	2,650	3,721	4,481	(D)	
	2017	1,022	923	(D)	(D)	(D)	-

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Table 40. Fertilizers and Chemicals Applied: 2022 and 2017 (continued)

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

Item	Butler	Calhoun	Carroll	Cass	Cedar	Cerro Gordo	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	542	531	774	459	607	514
	2017	546	536	735	416	600	486
acres treated, 2022	208,490	214,087	232,901	198,259	281,783	251,564	
	2017	245,589	243,429	240,759	163,064	243,448	238,685
Cropland fertilized, except cropland pasture	farms, 2022	529	525	759	433	588	507
	2017	536	524	724	386	562	479
acres treated, 2022	206,987	212,578	230,156	184,045	278,977	250,187	
	2017	244,582	241,563	237,559	148,388	239,416	237,630
Pastureland and rangeland fertilized	farms, 2022	32	25	59	135	68	28
	2017	41	32	84	137	102	22
acres treated, 2022	1,503	1,509	2,745	14,214	2,806	1,377	
	2017	1,007	1,866	3,200	14,676	4,032	1,055
Manure	farms, 2022	194	155	327	134	200	147
	2017	235	187	354	167	256	132
acres treated, 2022	23,981	23,222	39,457	14,270	17,988	12,903	
	2017	33,183	26,189	50,965	15,537	23,485	10,399
Organic fertilizer	farms, 2022	18	13	24	4	9	9
	2017	15	19	35	8	13	5
acres treated, 2022	2,044	1,805	4,193	500	2,696	4,245	
	2017	1,221	4,438	1,038	1,037	2,246	1,289
Acres treated to control- Insects	farms, 2022	256	192	367	173	278	285
	2017	215	197	299	111	253	328
acres, 2022	118,665	85,059	116,622	75,949	146,149	140,166	
	2017	108,433	99,601	100,234	43,670	94,062	157,613
Weeds, grass, or brush	farms, 2022	548	528	788	467	608	510
	2017	535	519	731	411	569	473
acres, 2022	253,806	269,422	289,537	228,876	301,390	291,927	
	2017	278,997	284,684	280,390	212,556	291,215	280,715
Nematodes	farms, 2022	59	67	92	55	98	84
	2017	50	69	74	37	56	50
acres, 2022	15,714	23,480	23,567	25,052	43,027	38,961	
	2017	20,090	27,665	16,602	8,031	12,392	13,607
Diseases in crops and orchards	farms, 2022	102	82	161	75	164	124
	2017	64	59	100	53	82	99
acres, 2022	57,168	36,702	51,319	31,293	90,200	75,087	
	2017	49,912	24,964	28,994	21,716	26,103	49,641
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	5	6	26	4	20	28
	2017	1	-	1	1	4	3
acres on which used, 2022	155	465	6,234	241	2,640	4,426	
	2017	(D)	-	(D)	(D)	358	1,378
Item	Cherokee	Chickasaw	Clarke	Clay	Clayton	Clinton	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	611	691	244	504	779	762
	2017	665	612	239	473	765	778
acres treated, 2022	199,160	200,917	49,705	195,798	227,509	256,302	
	2017	198,901	204,671	44,068	216,530	223,121	287,903
Cropland fertilized, except cropland pasture	farms, 2022	593	674	228	493	761	748
	2017	647	605	201	471	752	745
acres treated, 2022	193,909	199,632	40,090	194,483	222,476	252,572	
	2017	193,641	203,434	(D)	214,807	218,123	283,652
Pastureland and rangeland fertilized	farms, 2022	65	35	56	28	88	90
	2017	86	32	85	28	101	102
acres treated, 2022	5,251	1,285	9,615	1,315	5,033	3,730	
	2017	5,260	1,237	(D)	1,723	4,998	4,251
Manure	farms, 2022	269	258	100	147	393	262
	2017	332	253	94	154	445	318
acres treated, 2022	45,252	30,955	8,487	28,633	41,476	26,056	
	2017	42,007	30,742	5,779	26,899	35,289	32,479
Organic fertilizer	farms, 2022	18	5	5	10	16	17
	2017	31	8	2	15	35	7
acres treated, 2022	2,783	536	1,585	1,316	810	7,063	
	2017	4,206	504	(D)	3,954	1,859	632
Acres treated to control- Insects	farms, 2022	320	374	56	256	367	401
	2017	317	350	42	311	303	403
acres, 2022	110,282	132,717	8,615	96,907	119,449	122,434	
	2017	90,660	129,295	13,660	139,159	96,389	129,870
Weeds, grass, or brush	farms, 2022	633	692	230	509	766	771
	2017	653	553	214	466	690	747
acres, 2022	263,490	222,144	45,248	252,115	224,192	276,317	
	2017	271,207	235,442	44,901	280,286	223,781	318,321
Nematodes	farms, 2022	61	98	12	68	87	154
	2017	55	67	14	64	63	129
acres, 2022	15,766	35,896	2,634	35,949	22,457	40,552	
	2017	8,861	15,370	7,375	34,377	12,259	36,095
Diseases in crops and orchards	farms, 2022	148	204	13	96	151	154
	2017	90	120	16	55	103	117
acres, 2022	42,537	74,672	4,194	50,701	77,071	49,735	
	2017	25,855	51,639	1,924	37,033	46,304	30,448
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	3	30	1	5	15	29
	2017	2	2	2	4	7	1
acres on which used, 2022	6	9,330	(D)	64	659	1,402	
	2017	(D)	(D)	(D)	329	1,926	(D)

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Table 40. Fertilizers and Chemicals Applied: 2022 and 2017 (continued)

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

Item	Crawford	Dallas	Davis	Decatur	Delaware	Des Moines	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	724	496	406	284	1,036	395
	2017	610	517	379	261	898	361
acres treated, 2022	305,090	203,588	74,137	84,877	252,207	92,791	
	2017	304,461	197,059	78,536	80,314	275,636	109,333
Cropland fertilized, except cropland pasture	farms, 2022	683	471	325	249	1,007	391
	2017	587	496	319	224	878	356
acres treated, 2022	297,344	200,396	65,884	70,828	249,709	92,436	
	2017	292,226	194,071	65,263	64,149	268,214	106,907
Pastureland and rangeland fertilized	farms, 2022	135	61	144	87	93	20
	2017	152	58	173	106	129	31
acres treated, 2022	7,746	3,192	8,253	14,049	2,498	355	
	2017	12,235	2,988	13,273	16,165	7,422	2,426
Manure	farms, 2022	210	132	258	116	528	90
	2017	234	132	227	88	543	95
acres treated, 2022	22,837	9,584	15,676	13,222	67,556	5,440	
	2017	27,812	14,962	13,811	7,206	74,902	6,982
Organic fertilizer	farms, 2022	12	20	39	4	25	3
	2017	14	18	30	4	20	7
acres treated, 2022	638	968	3,812	471	3,633	1,209	
	2017	1,573	930	1,834	150	1,678	311
Acres treated to control- Insects	farms, 2022	341	215	96	61	622	173
	2017	253	226	78	53	496	161
acres, 2022	134,148	96,132	24,281	25,925	162,667	44,254	
	2017	120,895	91,926	11,570	7,873	129,112	47,688
Weeds, grass, or brush	farms, 2022	710	515	320	249	1,018	395
	2017	596	526	234	192	835	339
acres, 2022	361,339	235,964	76,503	72,219	257,522	106,561	
	2017	356,092	235,136	69,191	74,171	267,456	123,655
Nematodes	farms, 2022	83	93	33	17	170	54
	2017	62	49	15	20	101	47
acres, 2022	43,922	28,505	5,818	1,523	36,876	10,887	
	2017	17,983	10,417	5,411	3,372	22,465	9,953
Diseases in crops and orchards	farms, 2022	133	107	36	12	235	87
	2017	98	68	14	16	136	62
acres, 2022	74,819	42,525	7,690	2,021	70,111	25,109	
	2017	45,670	38,329	2,292	6,484	38,264	25,050
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	28	20	11	1	30	2
	2017	4	2	1	-	1	1
acres on which used, 2022	9,794	874	403	(D)	2,759	(D)	
	2017	22	(D)	(D)	-	(D)	(D)

Item	Dickinson	Dubuque	Emmet	Fayette	Floyd	Franklin	Fremont	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	278	1,037	288	808	565	561	334
	2017	267	938	339	746	541	508	359
acres treated, 2022	113,159	207,712	157,701	277,056	217,835	246,579	172,733	
	2017	132,453	207,740	164,611	237,803	207,976	245,932	171,684
Cropland fertilized, except cropland pasture	farms, 2022	269	1,018	280	794	559	552	312
	2017	265	911	334	731	532	502	345
acres treated, 2022	111,127	203,680	156,295	274,778	217,135	245,595	168,632	
	2017	131,216	199,819	161,968	234,594	207,621	245,533	167,754
Pastureland and rangeland fertilized	farms, 2022	20	85	25	52	24	27	55
	2017	24	151	27	61	19	18	53
acres treated, 2022	2,032	4,032	1,406	2,278	700	984	4,101	
	2017	1,237	7,921	2,643	3,209	355	399	3,930
Manure	farms, 2022	66	494	73	314	187	189	37
	2017	80	561	134	339	222	205	31
acres treated, 2022	10,936	53,893	24,967	32,050	27,147	45,805	3,069	
	2017	15,349	69,511	27,901	41,624	34,084	53,817	7,642
Organic fertilizer	farms, 2022	3	21	8	13	15	4	5
	2017	10	18	5	9	15	6	5
acres treated, 2022	(D)	1,301	1,254	6,537	2,451	333	95	
	2017	1,201	470	1,048	403	1,961	3,038	1,165
Acres treated to control- Insects	farms, 2022	138	554	141	396	293	304	134
	2017	192	488	221	307	316	239	122
acres, 2022	55,541	110,687	92,132	128,778	129,955	113,930	85,437	
	2017	95,184	96,260	101,627	99,361	139,303	107,722	81,728
Weeds, grass, or brush	farms, 2022	286	979	282	793	594	562	337
	2017	264	788	333	731	531	496	342
acres, 2022	136,413	199,421	186,856	305,593	249,284	290,959	216,446	
	2017	159,248	173,788	195,189	281,149	259,408	304,599	228,220
Nematodes	farms, 2022	24	137	55	97	78	88	36
	2017	30	77	64	81	56	41	42
acres, 2022	7,694	26,723	30,379	28,233	33,228	22,339	6,863	
	2017	15,610	10,370	21,938	19,209	19,906	9,367	24,853
Diseases in crops and orchards	farms, 2022	58	175	44	190	155	170	61
	2017	26	75	26	108	92	86	63
acres, 2022	16,771	40,897	27,594	78,218	72,924	65,404	40,679	
	2017	27,090	10,322	11,493	53,842	48,330	43,553	31,989
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	1	33	-	24	14	8	7
	2017	2	6	-	1	1	-	-
acres on which used, 2022	(D)	3,500	-	8,114	597	754	370	
	2017	(D)	96	-	(D)	(D)	-	

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Table 40. Fertilizers and Chemicals Applied: 2022 and 2017 (continued)

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

Item	Greene	Grundy	Guthrie	Hamilton	Hancock	Hardin	Harrison
Commercial fertilizer, lime, and soil conditioners farms, 2022	514	470	520	491	627	549	525
..... farms, 2017	498	495	436	426	547	542	518
..... acres treated, 2022	229,929	244,551	163,797	263,615	274,385	230,414	248,938
..... acres treated, 2017	259,574	214,033	173,368	211,450	270,535	234,345	261,855
Cropland fertilized, except cropland pasture farms, 2022	492	462	476	486	625	541	504
..... farms, 2017	481	475	407	417	542	536	486
..... acres treated, 2022	227,760	243,635	145,755	263,047	274,014	228,805	240,780
..... acres treated, 2017	257,269	212,734	160,924	211,165	270,183	231,132	250,889
Pastureland and rangeland fertilized farms, 2022	56	28	121	16	10	32	93
..... farms, 2017	54	40	115	19	13	49	122
..... acres treated, 2022	2,169	916	18,042	568	371	1,609	8,158
..... acres treated, 2017	2,305	1,299	12,444	285	352	3,213	10,966
Manure farms, 2022	164	145	141	184	177	203	100
..... farms, 2017	180	160	152	190	164	247	82
..... acres treated, 2022	23,041	21,562	13,864	49,079	31,890	49,127	14,612
..... acres treated, 2017	24,098	23,661	21,912	42,104	32,234	67,879	8,552
Organic fertilizer farms, 2022	14	8	10	21	6	13	15
..... farms, 2017	18	1	4	15	15	19	19
..... acres treated, 2022	4,066	1,076	957	7,374	1,053	2,122	3,117
..... acres treated, 2017	3,276	(D)	340	2,233	4,563	6,692	3,273
Acres treated to control-							
Insects farms, 2022	217	282	224	226	378	263	212
..... farms, 2017	165	263	134	157	352	256	212
..... acres, 2022	95,906	158,290	66,267	138,960	162,133	104,318	104,509
..... acres, 2017	86,390	137,280	69,255	80,074	156,907	120,709	112,343
Weeds, grass, or brush farms, 2022	524	473	503	498	620	557	500
..... farms, 2017	471	480	426	421	530	525	486
..... acres, 2022	268,271	291,038	186,424	317,419	286,221	282,599	284,518
..... acres, 2017	298,499	276,355	201,535	261,603	311,022	290,329	304,158
Nematodes farms, 2022	90	85	59	90	105	79	73
..... farms, 2017	75	84	21	53	100	61	63
..... acres, 2022	33,940	31,931	25,233	42,744	34,293	10,732	20,025
..... acres, 2017	29,302	22,503	9,344	18,781	33,638	21,330	30,250
Diseases in crops and orchards farms, 2022	108	143	96	112	169	142	90
..... farms, 2017	83	121	51	51	106	101	75
..... acres, 2022	41,528	73,910	26,577	55,193	51,990	45,070	30,420
..... acres, 2017	37,814	71,593	30,362	21,605	45,606	35,023	45,103
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2022	12	12	18	2	20	6	16
..... farms, 2017	1	1	1	1	-	1	-
..... acres on which used, 2022	1,360	4,031	3,242	(D)	2,446	813	6,052
..... acres on which used, 2017	(D)	(D)	(D)	(D)	-	(D)	-
Item	Henry	Howard	Humboldt	Ida	Iowa	Jackson	Jasper
Commercial fertilizer, lime, and soil conditioners farms, 2022	409	494	421	303	570	665	739
..... farms, 2017	479	514	407	345	562	625	634
..... acres treated, 2022	140,621	186,457	160,488	142,061	202,456	148,577	288,700
..... acres treated, 2017	147,195	196,575	171,070	183,612	191,491	174,571	228,610
Cropland fertilized, except cropland pasture farms, 2022	396	488	419	290	555	629	698
..... farms, 2017	464	497	400	324	538	584	609
..... acres treated, 2022	137,739	185,379	160,159	139,300	198,559	140,723	283,465
..... acres treated, 2017	144,460	195,321	170,834	177,953	186,399	165,315	224,348
Pastureland and rangeland fertilized farms, 2022	53	24	7	53	74	137	97
..... farms, 2017	48	40	14	93	94	144	95
..... acres treated, 2022	2,882	1,078	329	2,761	3,897	7,854	5,235
..... acres treated, 2017	2,735	1,254	236	5,659	5,092	9,256	4,262
Manure farms, 2022	145	176	75	98	220	372	257
..... farms, 2017	187	223	78	140	235	382	243
..... acres treated, 2022	11,886	22,195	18,905	25,319	27,643	25,397	29,136
..... acres treated, 2017	14,734	35,788	17,518	28,018	21,379	29,832	20,701
Organic fertilizer farms, 2022	7	14	-	5	9	25	6
..... farms, 2017	10	10	11	19	6	17	17
..... acres treated, 2022	802	4,483	-	1,353	1,053	3,053	511
..... acres treated, 2017	491	921	873	6,625	324	2,287	526
Acres treated to control-							
Insects farms, 2022	165	222	216	123	242	277	399
..... farms, 2017	177	241	249	147	214	267	314
..... acres, 2022	63,635	77,663	84,657	66,425	75,991	49,944	160,846
..... acres, 2017	52,332	89,011	115,997	86,195	57,886	79,518	109,815
Weeds, grass, or brush farms, 2022	419	526	418	314	581	645	734
..... farms, 2017	431	464	384	354	535	567	603
..... acres, 2022	156,960	223,970	201,367	174,163	239,958	147,286	339,039
..... acres, 2017	175,411	223,616	213,469	222,535	231,284	165,689	283,548
Nematodes farms, 2022	50	70	66	32	54	94	125
..... farms, 2017	35	35	77	25	59	68	85
..... acres, 2022	15,331	17,246	27,634	8,020	14,036	12,981	35,063
..... acres, 2017	7,790	7,862	28,055	7,798	12,854	10,464	20,604
Diseases in crops and orchards farms, 2022	86	135	108	50	110	112	179
..... farms, 2017	42	88	61	76	84	53	97
..... acres, 2022	27,182	49,781	37,444	31,702	30,245	28,378	79,511
..... acres, 2017	9,734	33,056	31,597	56,252	25,705	12,244	42,524
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2022	1	16	4	2	20	4	22
..... farms, 2017	2	1	1	7	4	3	4
..... acres on which used, 2022	(D)	4,296	423	(D)	742	40	1,017
..... acres on which used, 2017	(D)	(D)	(D)	303	131	(D)	114

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Table 40. Fertilizers and Chemicals Applied: 2022 and 2017 (continued)

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

Item	Jefferson	Johnson	Jones	Keokuk	Kossuth	Lee	Linn
Commercial fertilizer, lime, and soil conditioners farms, 2022	288	684	604	474	947	450	888
..... farms, 2017	281	712	711	534	929	489	795
..... acres treated, 2022	91,246	165,797	207,354	145,152	421,378	105,755	235,990
..... acres treated, 2017	107,781	206,413	234,639	176,643	415,412	113,750	232,180
Cropland fertilized, except cropland pasture farms, 2022	280	668	592	470	946	424	845
..... farms, 2017	258	691	667	511	919	465	772
..... acres treated, 2022	89,610	163,012	200,959	141,430	420,479	101,738	233,761
..... acres treated, 2017	105,845	203,377	226,164	170,113	414,843	108,401	227,714
Pastureland and rangeland fertilized farms, 2022	27	79	84	58	26	73	109
..... farms, 2017	45	98	140	94	25	84	93
..... acres treated, 2022	1,636	2,785	6,395	3,722	899	4,017	2,229
..... acres treated, 2017	1,936	3,036	8,475	6,530	569	5,349	4,466
Manure farms, 2022	102	329	301	181	268	164	274
..... farms, 2017	100	382	319	210	303	177	345
..... acres treated, 2022	9,449	17,250	29,400	17,355	47,349	10,074	14,122
..... acres treated, 2017	7,406	26,177	38,845	25,260	63,099	11,112	18,364
Organic fertilizer farms, 2022	16	74	13	6	19	15	27
..... farms, 2017	15	86	4	10	19	14	17
..... acres treated, 2022	342	6,811	3,280	960	5,540	249	1,643
..... acres treated, 2017	955	9,451	(D)	795	5,818	1,199	2,039
Acres treated to control-							
Insects farms, 2022	94	285	291	202	527	168	360
..... farms, 2017	78	249	346	198	669	223	317
..... acres, 2022	17,337	63,596	97,526	55,548	242,321	48,327	92,978
..... acres, 2017	39,042	70,959	108,505	68,071	266,926	62,097	83,186
Weeds, grass, or brush farms, 2022	309	699	607	505	954	439	872
..... farms, 2017	239	605	652	507	901	433	769
..... acres, 2022	126,302	186,660	229,346	170,085	514,913	134,706	266,641
..... acres, 2017	129,929	211,968	238,896	197,102	500,808	127,416	243,594
Nematodes farms, 2022	23	80	67	69	154	57	101
..... farms, 2017	38	74	74	61	181	36	100
..... acres, 2022	2,757	19,505	17,051	19,357	40,474	14,856	29,028
..... acres, 2017	23,161	14,877	20,658	19,445	50,409	6,836	29,143
Diseases in crops and orchards farms, 2022	38	113	130	96	206	69	169
..... farms, 2017	32	70	84	53	150	35	109
..... acres, 2022	9,655	25,084	49,974	35,143	95,944	19,279	47,857
..... acres, 2017	14,475	16,915	25,963	19,773	76,473	15,308	34,123
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2022	7	23	20	5	14	11	34
..... farms, 2017	-	6	2	3	2	6	5
..... acres on which used, 2022	387	1,158	862	492	1,072	83	686
..... acres on which used, 2017	-	107	(D)	132	(D)	31	23

Item	Louisa	Lucas	Lyon	Madison	Mahaska	Marion	Marshall
Commercial fertilizer, lime, and soil conditioners farms, 2022	337	235	762	484	560	422	583
..... farms, 2017	294	207	858	423	539	486	535
..... acres treated, 2022	110,412	50,722	188,195	147,609	161,710	118,278	239,642
..... acres treated, 2017	108,380	51,254	225,186	114,789	163,538	119,386	205,138
Cropland fertilized, except cropland pasture farms, 2022	332	208	749	426	548	400	569
..... farms, 2017	290	187	843	388	526	442	504
..... acres treated, 2022	110,119	41,156	183,900	138,215	160,072	114,236	237,849
..... acres treated, 2017	107,546	42,590	221,006	102,802	157,101	114,292	201,676
Pastureland and rangeland fertilized farms, 2022	13	64	67	121	45	66	44
..... farms, 2017	16	73	85	105	81	104	75
..... acres treated, 2022	293	9,566	4,295	9,394	1,638	4,042	1,793
..... acres treated, 2017	834	8,664	4,180	11,987	6,437	5,094	3,462
Manure farms, 2022	101	71	468	196	209	132	161
..... farms, 2017	111	66	542	159	250	201	184
..... acres treated, 2022	15,737	3,229	89,616	7,635	26,648	8,146	33,303
..... acres treated, 2017	12,943	3,785	98,441	11,217	28,439	11,091	26,940
Organic fertilizer farms, 2022	3	3	17	19	5	12	7
..... farms, 2017	8	5	23	6	15	17	10
..... acres treated, 2022	(D)	120	2,377	447	756	1,835	(D)
..... acres treated, 2017	2,039	98	7,276	479	2,207	347	774
Acres treated to control-							
Insects farms, 2022	131	51	364	156	257	170	324
..... farms, 2017	131	39	479	101	202	146	265
..... acres, 2022	46,602	6,277	100,115	36,143	75,841	54,691	154,622
..... acres, 2017	45,208	10,840	134,041	29,323	55,001	38,968	130,793
Weeds, grass, or brush farms, 2022	366	201	786	494	592	435	598
..... farms, 2017	295	165	840	391	550	451	528
..... acres, 2022	135,565	52,354	261,134	164,871	216,713	130,624	276,254
..... acres, 2017	143,074	53,991	296,079	141,156	216,274	138,554	257,212
Nematodes farms, 2022	42	13	61	31	70	59	98
..... farms, 2017	56	19	70	13	84	33	102
..... acres, 2022	11,069	573	13,342	4,017	17,566	16,769	31,410
..... acres, 2017	8,239	1,152	14,053	2,176	17,245	8,335	38,318
Diseases in crops and orchards farms, 2022	65	17	116	53	110	62	166
..... farms, 2017	44	11	74	37	79	63	121
..... acres, 2022	28,179	1,490	30,577	11,370	37,462	34,400	87,285
..... acres, 2017	18,426	879	14,177	18,278	16,404	18,448	72,067
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2022	6	2	5	11	18	18	22
..... farms, 2017	3	1	4	2	2	12	3
..... acres on which used, 2022	161	(D)	1,542	129	365	280	1,128
..... acres on which used, 2017	143	(D)	402	(D)	(D)	120	(D)

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Table 40. Fertilizers and Chemicals Applied: 2022 and 2017 (continued)

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

Item	Mills	Mitchell	Monona	Monroe	Montgomery	Muscatine	O'Brien	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	256	561	459	273	331	437	663
	2017	298	553	426	283	371	448	671
acres treated, 2022	133,152	192,470	286,775	67,747	142,945	132,549	189,876	
	2017	123,583	213,153	233,466	60,622	150,285	139,881	212,773
Cropland fertilized, except cropland pasture	farms, 2022	235	555	450	253	310	415	657
	2017	285	543	400	261	356	408	669
acres treated, 2022	131,256	191,949	278,676	59,548	135,614	131,431	187,886	
	2017	122,052	212,214	223,047	52,973	143,007	137,748	210,431
Pastureland and rangeland fertilized	farms, 2022	43	21	62	68	68	49	40
	2017	38	48	93	62	83	83	41
acres treated, 2022	1,896	521	8,099	8,199	7,331	1,118	1,990	
	2017	1,531	939	10,419	7,649	7,278	2,133	2,342
Manure	farms, 2022	45	211	72	82	62	163	308
	2017	40	278	118	87	78	169	311
acres treated, 2022	1,980	30,916	6,463	6,525	3,616	22,673	43,925	
	2017	1,342	43,092	13,347	4,978	6,725	18,624	53,003
Organic fertilizer	farms, 2022	8	9	3	8	6	4	20
	2017	10	19	10	6	3	3	19
acres treated, 2022	1,080	1,697	164	1,526	139	564	5,511	
	2017	633	716	1,319	109	(D)	243	1,959
Acres treated to control- Insects	farms, 2022	99	311	212	78	138	207	372
	2017	127	338	151	97	135	216	458
acres, 2022	49,839	118,086	126,584	22,853	48,814	55,941	114,676	
	2017	56,460	141,090	79,652	18,972	49,779	57,113	147,263
Weeds, grass, or brush	farms, 2022	255	562	467	267	330	447	673
	2017	288	541	411	243	347	410	667
acres, 2022	176,895	220,706	325,443	66,207	182,451	144,927	235,433	
	2017	169,419	249,914	258,033	55,699	177,811	162,850	266,106
Nematodes	farms, 2022	23	61	70	27	38	74	68
	2017	23	77	39	25	22	69	44
acres, 2022	7,308	14,951	21,971	15,545	10,759	13,690	12,206	
	2017	6,800	36,857	11,278	5,952	7,777	13,379	10,295
Diseases in crops and orchards	farms, 2022	47	161	89	25	69	103	135
	2017	59	124	34	20	93	56	115
acres, 2022	21,029	68,418	64,112	15,479	27,297	28,799	44,607	
	2017	24,911	58,983	29,341	5,706	25,175	17,613	40,691
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	6	18	11	13	7	13	7
	2017	1	7	2	-	2	-	1
acres on which used, 2022	680	376	3,640	408	873	307	1,340	
	2017	(D)	291	(D)	-	(D)	-	(D)

Item	Osceola	Page	Palo Alto	Plymouth	Pocahontas	Polk	Pottawattamie	
Commercial fertilizer, lime, and soil conditioners	farms, 2022	385	440	538	990	609	415	849
	2017	428	503	494	925	546	411	775
acres treated, 2022	132,975	176,521	247,171	334,342	246,883	119,179	379,122	
	2017	155,838	197,075	247,261	324,016	241,041	131,403	359,439
Cropland fertilized, except cropland pasture	farms, 2022	385	413	528	955	609	393	815
	2017	420	480	486	894	536	394	744
acres treated, 2022	132,552	164,426	246,897	323,346	246,609	117,971	370,877	
	2017	155,413	184,858	246,260	312,671	240,851	130,113	347,263
Pastureland and rangeland fertilized	farms, 2022	16	131	15	107	10	47	141
	2017	17	133	30	128	21	66	165
acres treated, 2022	423	12,095	274	10,996	274	1,208	8,245	
	2017	425	12,217	1,001	11,345	190	1,290	12,176
Manure	farms, 2022	175	92	177	450	148	135	167
	2017	169	95	193	460	162	158	202
acres treated, 2022	36,455	3,901	50,225	71,306	32,909	4,419	14,177	
	2017	33,923	8,360	49,511	80,857	34,805	6,213	25,114
Organic fertilizer	farms, 2022	17	6	21	36	12	25	11
	2017	6	9	13	20	13	34	32
acres treated, 2022	2,879	895	19,726	6,031	4,681	973	394	
	2017	791	1,093	623	3,168	3,405	349	2,359
Acres treated to control- Insects	farms, 2022	193	157	250	396	304	192	361
	2017	292	132	330	279	286	180	372
acres, 2022	66,141	70,772	149,969	118,023	146,637	65,679	162,348	
	2017	117,695	41,542	176,564	104,923	145,765	55,273	186,697
Weeds, grass, or brush	farms, 2022	411	426	523	1,002	618	394	823
	2017	413	482	473	906	528	395	727
acres, 2022	173,415	204,402	295,636	448,054	284,361	150,004	471,033	
	2017	200,494	247,035	289,100	410,274	294,764	149,001	420,268
Nematodes	farms, 2022	44	32	67	67	117	70	83
	2017	39	46	96	43	95	52	48
acres, 2022	9,813	8,150	40,517	16,671	42,417	17,130	17,300	
	2017	8,242	8,978	43,392	9,936	37,248	18,718	12,753
Diseases in crops and orchards	farms, 2022	58	76	78	114	123	83	173
	2017	69	82	64	54	83	57	149
acres, 2022	17,330	60,190	46,784	38,376	76,774	27,863	56,265	
	2017	24,346	32,115	31,109	18,992	52,146	15,243	63,113
Chemicals used to control growth, thin fruit, ripen, or defoliate	farms, 2022	-	12	1	16	3	17	18
	2017	2	-	-	1	1	5	11
acres on which used, 2022	-	1,698	(D)	1,452	3,857	512	4,204	
	(D)	-	-	(D)	(D)	(D)	(D)	

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Table 40. Fertilizers and Chemicals Applied: 2022 and 2017 (continued)

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

Item	Poweshiek	Ringgold	Sac	Scott	Shelby	Sioux	Story
Commercial fertilizer, lime, and soil conditioners farms, 2022	496	298	611	453	672	1,147	616
..... farms, 2017	535	311	614	478	646	1,199	550
..... acres treated, 2022	181,984	132,099	237,256	160,561	261,824	312,466	216,821
..... acres treated, 2017	207,674	105,112	230,617	163,007	275,559	322,976	226,856
Cropland fertilized, except cropland pasture farms, 2022	465	258	594	440	657	1,116	594
..... farms, 2017	507	261	590	467	617	1,171	517
..... acres treated, 2022	176,193	111,826	235,089	159,242	255,628	310,142	215,179
..... acres treated, 2017	199,785	84,498	225,617	161,689	269,299	320,842	225,003
Pastureland and rangeland fertilized farms, 2022	95	106	46	37	103	68	49
..... farms, 2017	118	133	81	44	147	57	67
..... acres treated, 2022	5,791	20,273	2,167	1,319	6,196	2,324	1,642
..... acres treated, 2017	7,889	20,614	5,000	1,318	6,260	2,134	1,853
Manure farms, 2022	227	99	255	155	174	713	152
..... farms, 2017	256	109	262	177	198	757	168
..... acres treated, 2022	20,514	10,964	49,289	13,640	15,384	141,113	14,735
..... acres treated, 2017	28,737	9,690	53,925	13,666	21,642	153,825	25,583
Organic fertilizer farms, 2022	8	8	23	9	10	30	10
..... farms, 2017	14	8	29	12	20	52	16
..... acres treated, 2022	2,364	58	10,725	2,440	2,616	6,521	1,296
..... acres treated, 2017	4,011	320	7,260	1,846	4,244	8,454	416
Acres treated to control-							
Insects farms, 2022	244	61	308	269	320	606	292
..... farms, 2017	182	48	258	263	325	641	232
..... acres, 2022	92,723	18,751	129,720	90,326	109,067	178,390	88,359
..... acres, 2017	80,996	17,114	105,448	87,111	121,369	176,878	113,812
Weeds, grass, or brush farms, 2022	505	267	625	477	667	1,188	642
..... farms, 2017	517	256	603	443	630	1,176	533
..... acres, 2022	214,228	126,135	296,664	173,944	289,661	417,587	251,338
..... acres, 2017	240,646	103,836	296,816	181,035	311,980	417,778	257,229
Nematodes farms, 2022	45	13	78	89	70	136	112
..... farms, 2017	45	23	72	88	63	89	109
..... acres, 2022	17,528	2,423	26,078	23,051	26,433	42,155	20,882
..... acres, 2017	16,469	5,819	21,247	16,391	22,076	21,271	38,100
Diseases in crops and orchards farms, 2022	85	16	144	115	128	180	141
..... farms, 2017	62	14	80	73	125	138	106
..... acres, 2022	40,711	2,668	65,421	36,131	51,357	53,065	48,095
..... acres, 2017	32,933	3,798	41,806	18,487	43,844	23,039	63,280
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2022	12	8	18	24	7	7	29
..... farms, 2017	-	-	3	5	4	7	6
..... acres on which used, 2022	1,063	193	3,038	804	1,796	619	1,350
..... acres on which used, 2017	-	-	251	168	500	422	165
Item	Tama	Taylor	Union	Van Buren	Wapello	Warren	Washington
Commercial fertilizer, lime, and soil conditioners farms, 2022	676	336	270	310	295	534	635
..... farms, 2017	681	370	320	334	320	487	629
..... acres treated, 2022	227,902	135,400	99,593	81,030	99,826	147,289	175,115
..... acres treated, 2017	254,967	137,891	118,570	80,072	104,366	112,659	183,028
Cropland fertilized, except cropland pasture farms, 2022	659	308	233	292	273	500	609
..... farms, 2017	669	347	266	298	307	461	611
..... acres treated, 2022	224,167	128,302	88,543	77,564	97,313	138,745	173,589
..... acres treated, 2017	248,775	123,557	99,457	74,655	100,983	105,523	178,632
Pastureland and rangeland fertilized farms, 2022	76	85	98	62	54	96	61
..... farms, 2017	94	118	144	89	58	98	93
..... acres treated, 2022	3,735	7,098	11,050	3,466	2,513	8,544	1,526
..... acres treated, 2017	6,192	14,334	19,113	5,417	3,383	7,136	4,396
Manure farms, 2022	233	90	97	116	88	157	380
..... farms, 2017	244	91	104	132	91	144	402
..... acres treated, 2022	24,464	8,730	6,356	6,489	5,343	5,512	46,150
..... acres treated, 2017	24,450	9,785	10,144	8,818	6,173	4,774	53,371
Organic fertilizer farms, 2022	11	-	3	13	1	13	44
..... farms, 2017	19	4	12	10	9	11	49
..... acres treated, 2022	1,470	-	34	388	(D)	1,121	5,103
..... acres treated, 2017	719	385	522	754	491	561	4,416
Acres treated to control-							
Insects farms, 2022	319	95	65	82	82	204	266
..... farms, 2017	317	70	53	85	104	144	276
..... acres, 2022	122,505	45,451	35,064	30,151	48,898	43,424	69,658
..... acres, 2017	114,888	24,197	22,977	27,294	37,255	31,853	84,247
Weeds, grass, or brush farms, 2022	701	322	259	275	271	572	639
..... farms, 2017	673	335	268	254	277	483	594
..... acres, 2022	277,026	173,829	101,626	97,449	104,461	166,623	207,956
..... acres, 2017	312,881	172,566	121,590	84,715	98,090	131,606	216,194
Nematodes farms, 2022	85	33	20	15	15	49	81
..... farms, 2017	81	19	16	28	27	44	74
..... acres, 2022	33,451	16,397	12,948	5,549	3,108	14,946	25,575
..... acres, 2017	24,309	2,389	7,558	6,348	10,294	6,843	18,855
Diseases in crops and orchards farms, 2022	173	25	31	26	25	83	140
..... farms, 2017	170	18	20	15	16	57	97
..... acres, 2022	81,462	21,704	11,526	7,883	10,644	26,475	42,656
..... acres, 2017	66,275	5,794	10,420	1,289	2,252	13,677	44,036
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2022	25	5	-	3	1	21	10
..... farms, 2017	16	-	-	2	1	4	2
..... acres on which used, 2022	1,831	308	-	38	(D)	115	67
..... acres on which used, 2017	517	-	-	(D)	(D)	34	(D)

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Table 40. Fertilizers and Chemicals Applied: 2022 and 2017 (continued)

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

Item	Wayne	Webster	Winnebago	Winneshiek	Woodbury	Worth	Wright
Commercial fertilizer, lime, and soil conditioners farms, 2022	304	610	353	804	685	289	481
..... farms, 2017	316	599	347	863	651	365	463
..... acres treated, 2022	133,277	260,319	150,603	222,602	324,689	111,984	286,780
..... acres treated, 2017	131,738	290,487	171,332	247,359	321,589	172,070	248,842
Cropland fertilized, except cropland pasture farms, 2022	269	600	349	791	615	288	475
..... farms, 2017	265	588	345	849	588	357	457
..... acres treated, 2022	125,077	259,897	150,494	219,481	311,709	111,682	286,442
..... acres treated, 2017	114,902	288,723	(D)	243,546	307,760	171,770	247,898
Pastureland and rangeland fertilized farms, 2022	76	24	9	93	166	10	14
..... farms, 2017	129	28	3	113	180	15	18
..... acres treated, 2022	8,200	422	109	3,121	12,980	302	338
..... acres treated, 2017	16,836	1,764	(D)	3,813	13,829	300	944
Manure farms, 2022	108	132	57	374	185	72	126
..... farms, 2017	91	144	107	478	240	95	157
..... acres treated, 2022	5,674	20,842	4,937	50,739	15,556	6,928	25,512
..... acres treated, 2017	5,261	26,497	25,515	61,446	27,556	6,615	31,742
Organic fertilizer farms, 2022	12	7	17	22	8	8	9
..... farms, 2017	15	14	5	27	17	8	12
..... acres treated, 2022	981	1,677	786	1,687	2,669	2,277	2,908
..... acres treated, 2017	507	6,922	(D)	2,812	1,605	2,070	1,949
Acres treated to control-							
Insects farms, 2022	71	257	191	372	286	159	237
..... farms, 2017	68	229	228	394	197	210	202
..... acres, 2022	34,285	111,669	90,782	89,366	103,085	59,317	151,331
..... acres, 2017	50,301	111,158	113,985	95,981	73,421	99,281	91,479
Weeds, grass, or brush farms, 2022	272	611	360	820	679	309	497
..... farms, 2017	216	584	338	772	625	337	452
..... acres, 2022	159,794	307,575	167,134	231,955	376,210	133,302	334,639
..... acres, 2017	127,285	358,469	210,156	237,418	340,267	190,605	312,276
Nematodes farms, 2022	16	106	49	103	83	44	84
..... farms, 2017	13	77	52	60	42	42	49
..... acres, 2022	2,468	38,064	17,818	17,338	26,049	17,537	44,456
..... acres, 2017	(D)	39,370	17,491	9,691	15,544	20,281	20,601
Diseases in crops and orchards farms, 2022	17	103	80	148	108	87	131
..... farms, 2017	12	99	61	103	52	72	57
..... acres, 2022	6,095	37,962	43,389	43,407	46,677	30,340	72,790
..... acres, 2017	2,531	41,210	32,353	30,262	14,929	28,623	26,812
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2022	1	17	10	31	16	3	3
..... farms, 2017	3	3	7	4	2	2	1
..... acres on which used, 2022	(D)	2,173	504	4,061	3,051	(D)	240
..... acres on which used, 2017	148	(D)	83	(D)	(D)	(D)	(D)