

Table 40. Fertilizers and Chemicals Applied: 2017 and 2012

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

Item	Ohio	Adams	Allen	Ashland	Ashtabula	Athens
Commercial fertilizer, lime, and soil conditionersfarms, 2017	37,222	557	547	563	526	198
.....farms, 2012	35,759	538	565	512	471	183
.....acres treated, 2017	7,542,866	62,518	134,783	86,871	64,739	11,812
.....acres treated, 2012	7,587,961	56,668	122,910	82,236	76,164	8,289
Cropland fertilized, except cropland pasturefarms, 2017	34,434	490	544	504	468	182
.....farms, 2012	33,673	465	556	484	448	146
.....acres treated, 2017	7,410,507	53,014	134,207	84,505	63,555	9,537
.....acres treated, 2012	7,460,338	48,135	122,568	80,705	74,705	6,403
Pastureland and rangeland fertilizedfarms, 2017	5,970	192	22	115	104	58
.....farms, 2012	5,322	229	23	75	71	59
.....acres treated, 2017	132,359	9,504	576	2,366	1,184	2,275
.....acres treated, 2012	127,623	8,533	342	1,531	1,459	1,886
Manurefarms, 2017	18,466	244	154	405	351	136
.....farms, 2012	15,886	225	104	328	283	124
.....acres treated, 2017	920,816	7,855	9,511	24,231	11,270	2,678
.....acres treated, 2012	820,223	9,190	6,414	16,382	12,663	3,127
Organic fertilizer (see text)farms, 2017	1,858	31	9	59	43	24
.....farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2017	95,311	556	463	2,350	958	183
.....acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--						
Insectsfarms, 2017	11,059	100	190	144	135	24
.....farms, 2012	12,878	122	178	177	161	29
.....acres, 2017	2,746,661	6,154	49,583	24,724	16,032	2,039
.....acres, 2012	2,657,942	8,763	39,630	25,142	21,320	921
Weeds, grass, or brushfarms, 2017	30,000	324	516	416	372	72
.....farms, 2012	32,352	338	558	463	395	86
.....acres, 2017	8,723,387	41,250	152,645	82,072	58,301	6,678
.....acres, 2012	8,651,641	39,093	149,783	81,269	76,037	4,653
Nematodesfarms, 2017	1,699	3	49	31	12	2
.....farms, 2012	1,867	12	25	33	26	3
.....acres, 2017	317,088	(D)	10,296	5,946	953	(D)
.....acres, 2012	331,083	699	5,569	4,537	2,061	11
Diseases in crops and orchardsfarms, 2017	4,228	33	66	54	62	15
.....farms, 2012	3,672	36	52	59	63	4
.....acres, 2017	827,096	2,720	16,131	5,739	1,616	283
.....acres, 2012	554,151	1,216	9,365	1,667	823	26
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	557	19	4	5	9	1
.....farms, 2012	834	37	4	10	24	2
.....acres on which used, 2017	20,497	354	(D)	236	409	(D)
.....acres on which used, 2012	49,774	284	1,176	692	773	(D)

Item	Auglaize	Belmont	Brown	Butler	Carroll	Champaign
Commercial fertilizer, lime, and soil conditionersfarms, 2017	648	224	625	386	290	488
.....farms, 2012	674	183	612	369	294	463
.....acres treated, 2017	145,853	11,396	118,520	68,321	35,143	128,877
.....acres treated, 2012	148,082	11,547	101,578	82,761	30,646	120,016
Cropland fertilized, except cropland pasturefarms, 2017	639	202	572	340	259	461
.....farms, 2012	668	152	544	332	269	450
.....acres treated, 2017	145,410	8,638	115,317	66,718	32,131	128,175
.....acres treated, 2012	147,801	6,183	97,544	81,432	28,624	119,362
Pastureland and rangeland fertilizedfarms, 2017	34	83	151	87	86	49
.....farms, 2012	30	69	168	80	68	45
.....acres treated, 2017	443	2,758	3,203	1,603	3,012	702
.....acres treated, 2012	281	5,364	4,034	1,329	2,022	654
Manurefarms, 2017	299	190	271	183	262	185
.....farms, 2012	306	143	257	176	245	173
.....acres treated, 2017	28,133	6,271	6,272	5,143	11,378	6,837
.....acres treated, 2012	23,523	3,577	5,087	7,279	12,112	7,065
Organic fertilizer (see text)farms, 2017	23	25	20	13	20	11
.....farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2017	2,254	244	403	319	433	441
.....acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--						
Insectsfarms, 2017	251	23	145	103	38	191
.....farms, 2012	253	25	147	124	80	206
.....acres, 2017	51,795	912	38,017	20,337	4,392	51,018
.....acres, 2012	44,965	270	23,803	29,627	8,606	41,643
Weeds, grass, or brushfarms, 2017	620	79	453	305	210	416
.....farms, 2012	690	86	500	339	221	429
.....acres, 2017	169,388	3,826	120,927	75,293	30,096	151,332
.....acres, 2012	167,283	1,268	104,870	97,092	25,556	145,469
Nematodesfarms, 2017	51	-	31	15	4	22
.....farms, 2012	45	5	35	19	9	34
.....acres, 2017	9,639	-	14,928	1,094	(D)	6,817
.....acres, 2012	11,580	78	16,078	2,634	562	5,120
Diseases in crops and orchardsfarms, 2017	106	15	45	29	15	72
.....farms, 2012	87	8	37	29	21	55
.....acres, 2017	28,278	179	8,693	4,023	636	17,578
.....acres, 2012	12,362	54	3,185	2,559	1,044	6,968
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	10	3	12	4	7	10
.....farms, 2012	13	6	35	12	8	12
.....acres on which used, 2017	975	30	352	51	134	723
.....acres on which used, 2012	1,133	55	1,529	689	357	1,325

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

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

Item	Clark	Clermont	Clinton	Columbiana	Coshocton	Crawford	Cuyahoga
Commercial fertilizer, lime, and soil conditioners farms, 2017	389	290	442	488	473	443	54
..... 2012	384	278	483	468	413	405	33
..... acres treated, 2017	110,783	41,880	149,900	65,379	61,152	171,753	359
..... 2012	111,260	48,439	155,324	56,706	55,624	181,259	214
Cropland fertilized, except cropland pasture farms, 2017	367	234	420	451	424	436	47
..... 2012	356	224	472	441	374	400	30
..... acres treated, 2017	110,092	39,957	149,428	63,568	58,103	171,481	301
..... 2012	110,380	46,710	154,485	54,943	50,983	180,926	181
Pastureland and rangeland fertilized farms, 2017	47	92	47	109	134	24	10
..... 2012	52	91	39	94	118	24	5
..... acres treated, 2017	691	1,923	472	1,811	3,049	272	58
..... 2012	880	1,729	839	1,763	4,641	333	33
Manure farms, 2017	147	148	111	342	367	166	16
..... 2012	124	118	111	325	265	121	20
..... acres treated, 2017	9,050	2,536	3,923	15,982	15,416	15,342	54
..... 2012	7,411	1,824	4,771	20,926	12,852	7,675	70
Organic fertilizer (see text) farms, 2017	11	17	8	15	42	8	16
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	218	104	148	545	2,660	1,217	29
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insects farms, 2017	163	78	190	152	117	192	23
..... 2012	177	71	211	170	120	177	29
..... acres, 2017	70,036	11,953	86,316	19,737	19,412	66,762	161
..... 2012	55,885	19,184	81,528	20,193	19,610	63,381	174
Weeds, grass, or brush farms, 2017	371	188	409	367	325	422	25
..... 2012	371	207	464	412	360	401	26
..... acres, 2017	139,419	46,470	174,205	60,503	56,643	199,593	195
..... 2012	141,987	75,608	171,928	52,940	51,227	206,691	194
Nematodes farms, 2017	35	4	39	24	14	51	4
..... 2012	29	16	20	23	17	18	3
..... acres, 2017	7,377	(D)	12,833	2,192	2,366	14,287	11
..... 2012	5,881	15,703	4,374	1,387	1,396	8,790	12
Diseases in crops and orchards farms, 2017	46	29	63	54	37	79	9
..... 2012	42	22	48	44	44	52	13
..... acres, 2017	13,790	4,434	31,965	4,656	2,287	23,696	85
..... 2012	9,527	750	22,545	3,406	1,876	19,666	66
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	-	3	1	10	5	3	3
..... 2012	2	7	5	14	6	4	3
..... acres on which used, 2017	-	49	(D)	470	39	(D)	13
..... 2012	(D)	66	2,381	314	55	(D)	10
Item	Darke	Defiance	Delaware	Erie	Fairfield	Fayette	Franklin
Commercial fertilizer, lime, and soil conditioners farms, 2017	1,089	541	353	207	529	277	188
..... 2012	1,102	551	334	191	514	298	175
..... acres treated, 2017	225,184	129,110	80,835	64,107	120,326	138,916	32,261
..... 2012	226,798	124,939	95,700	56,379	122,310	132,382	38,583
Cropland fertilized, except cropland pasture farms, 2017	1,073	537	327	205	472	269	184
..... 2012	1,081	545	302	181	482	291	156
..... acres treated, 2017	224,597	128,931	79,985	63,887	118,283	138,429	32,041
..... 2012	226,228	124,697	95,146	56,229	119,840	131,675	38,369
Pastureland and rangeland fertilized farms, 2017	67	14	47	10	105	27	14
..... 2012	69	27	54	17	97	22	28
..... acres treated, 2017	587	179	850	220	2,043	487	220
..... 2012	570	242	554	150	2,470	707	214
Manure farms, 2017	496	151	154	82	216	90	87
..... 2012	410	113	131	56	226	57	47
..... acres treated, 2017	41,216	17,560	7,443	2,792	7,196	5,988	1,237
..... 2012	29,093	6,368	9,863	2,937	9,911	3,867	763
Organic fertilizer (see text) farms, 2017	43	9	15	9	16	7	29
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	1,655	2,242	303	100	1,570	315	461
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insects farms, 2017	384	130	100	108	151	138	70
..... 2012	392	174	98	91	177	157	91
..... acres, 2017	75,938	30,222	28,762	25,779	49,408	85,013	10,935
..... 2012	69,574	30,564	30,013	20,109	40,558	73,694	19,013
Weeds, grass, or brush farms, 2017	1,027	529	318	204	427	257	154
..... 2012	1,084	551	317	184	491	296	177
..... acres, 2017	282,701	184,965	99,809	70,988	130,205	177,369	39,015
..... 2012	281,959	163,989	111,146	60,110	130,573	157,544	48,577
Nematodes farms, 2017	57	18	17	28	25	21	22
..... 2012	54	17	15	19	24	23	11
..... acres, 2017	11,659	2,281	2,219	2,055	3,139	7,561	4,764
..... 2012	12,924	2,319	3,008	2,324	3,324	7,889	1,088
Diseases in crops and orchards farms, 2017	179	73	40	58	51	49	24
..... 2012	65	24	39	38	51	42	26
..... acres, 2017	35,032	9,325	8,792	8,864	6,418	25,239	3,228
..... 2012	13,886	2,181	6,634	6,653	5,082	25,829	1,460
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	8	2	4	5	13	5	9
..... 2012	15	8	14	10	20	6	11
..... acres on which used, 2017	569	(D)	11	(D)	584	1,026	61
..... 2012	1,225	534	315	1,143	611	1,802	(D)

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

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

Item	Fulton	Gallia	Geauga	Greene	Guernsey	Hamilton	Hancock
Commercial fertilizer, lime, and soil conditionersfarms, 2017	486	357	353	411	324	85	576
.....farms, 2012	476	298	399	367	288	75	582
.....acres treated, 2017	144,976	18,808	16,634	110,475	20,543	4,301	155,306
.....acres treated, 2012	142,208	16,628	17,864	98,624	14,647	6,009	150,702
Cropland fertilized, except cropland pasturefarms, 2017	477	270	266	399	288	72	569
.....farms, 2012	465	240	341	336	243	65	566
.....acres treated, 2017	144,810	13,459	15,310	109,706	17,085	4,143	154,978
.....acres treated, 2012	142,043	12,789	16,479	97,284	12,058	5,653	150,354
Pastureland and rangeland fertilizedfarms, 2017	23	153	118	38	79	15	18
.....farms, 2012	21	108	125	61	88	15	30
.....acres treated, 2017	166	5,349	1,324	769	3,458	158	328
.....acres treated, 2012	165	3,839	1,385	1,340	2,589	356	348
Manurefarms, 2017	171	186	350	126	255	42	104
.....farms, 2012	167	142	316	106	192	25	111
.....acres treated, 2017	14,103	3,806	7,178	6,824	8,131	598	8,313
.....acres treated, 2012	13,841	2,899	8,699	3,507	5,702	470	5,038
Organic fertilizer (see text)farms, 2017	15	27	47	14	18	14	13
.....farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2017	1,843	1,005	730	820	983	48	843
.....acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insectsfarms, 2017	227	46	79	170	17	44	175
.....farms, 2012	249	58	145	161	39	47	200
.....acres, 2017	62,269	629	1,812	46,097	1,379	2,087	41,736
.....acres, 2012	68,308	1,954	3,398	43,744	534	1,226	41,797
Weeds, grass, or brushfarms, 2017	426	151	218	375	119	58	583
.....farms, 2012	466	159	305	352	149	62	591
.....acres, 2017	167,237	10,938	14,654	129,305	10,474	4,846	204,080
.....acres, 2012	162,065	7,514	13,805	115,838	6,886	6,129	194,090
Nematodesfarms, 2017	45	3	2	22	-	2	21
.....farms, 2012	49	7	29	19	9	5	20
.....acres, 2017	7,576	97	(D)	4,404	-	(D)	2,585
.....acres, 2012	7,392	106	201	6,875	287	19	3,734
Diseases in crops and orchardsfarms, 2017	75	19	43	52	8	16	79
.....farms, 2012	68	24	59	44	22	23	66
.....acres, 2017	14,936	153	348	19,107	24	779	17,888
.....acres, 2012	8,904	171	566	19,579	126	278	14,290
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	10	7	10	4	3	8	3
.....farms, 2012	9	13	13	9	6	6	2
.....acres on which used, 2017	750	19	89	97	3	14	175
.....acres on which used, 2012	474	104	217	150	128	29	(D)
Item	Hardin	Harrison	Henry	Highland	Hocking	Holmes	Huron
Commercial fertilizer, lime, and soil conditionersfarms, 2017	421	128	606	599	100	745	473
.....farms, 2012	430	122	609	592	74	855	488
.....acres treated, 2017	151,405	10,641	166,843	157,183	5,826	55,499	150,149
.....acres treated, 2012	157,322	12,479	178,963	131,801	5,374	75,969	155,448
Cropland fertilized, except cropland pasturefarms, 2017	414	97	593	557	63	585	457
.....farms, 2012	427	112	606	536	61	772	485
.....acres treated, 2017	150,656	8,569	166,734	152,840	4,387	51,077	149,958
.....acres treated, 2012	156,817	10,625	178,797	126,973	4,955	70,153	154,477
Pastureland and rangeland fertilizedfarms, 2017	33	52	17	119	48	288	36
.....farms, 2012	18	36	11	141	28	290	41
.....acres treated, 2017	749	2,072	109	4,343	1,439	4,422	191
.....acres treated, 2012	505	1,854	166	4,828	419	5,816	971
Manurefarms, 2017	117	146	100	271	57	921	175
.....farms, 2012	142	115	96	225	57	878	187
.....acres treated, 2017	7,895	5,575	3,948	11,988	1,379	38,520	14,306
.....acres treated, 2012	15,742	4,807	4,538	7,146	776	37,377	14,916
Organic fertilizer (see text)farms, 2017	10	8	9	37	6	113	16
.....farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2017	653	54	1,230	1,106	249	4,365	1,417
.....acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insectsfarms, 2017	108	20	216	236	19	200	169
.....farms, 2012	141	21	224	204	20	410	239
.....acres, 2017	52,238	2,525	56,214	77,830	1,237	19,808	74,785
.....acres, 2012	55,704	1,614	56,660	65,894	758	27,555	66,817
Weeds, grass, or brushfarms, 2017	371	60	579	513	62	439	418
.....farms, 2012	442	70	606	523	64	684	466
.....acres, 2017	211,429	9,955	200,951	175,005	4,799	49,339	189,885
.....acres, 2012	197,218	8,242	193,724	151,638	4,854	61,281	184,429
Nematodesfarms, 2017	17	4	38	31	1	7	21
.....farms, 2012	26	3	38	34	2	32	39
.....acres, 2017	4,942	(D)	7,414	4,990	(D)	3,564	5,448
.....acres, 2012	8,099	(D)	6,133	4,522	(D)	772	5,913
Diseases in crops and orchardsfarms, 2017	35	7	57	76	4	58	65
.....farms, 2012	28	6	55	60	5	79	71
.....acres, 2017	9,365	31	15,363	11,978	(D)	5,721	29,865
.....acres, 2012	19,151	(D)	9,999	9,160	24	1,504	26,990
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	2	2	3	4	2	12	4
.....farms, 2012	3	2	5	18	2	5	13
.....acres on which used, 2017	(D)	(D)	(D)	28	(D)	531	(D)
.....acres on which used, 2012	(D)	(D)	477	2,040	(D)	81	321

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

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

Item	Jackson	Jefferson	Knox	Lake	Lawrence	Licking	Logan
Commercial fertilizer, lime, and soil conditioners farms, 2017	188	164	588	106	139	657	488
..... farms, 2012	172	109	548	107	160	544	435
..... acres treated, 2017	13,069	6,505	98,592	4,469	5,426	99,680	124,825
..... acres treated, 2012	11,776	4,574	93,886	4,722	4,607	116,361	118,023
Cropland fertilized, except cropland pasture farms, 2017	158	130	510	95	117	571	454
..... farms, 2012	137	99	510	94	129	509	420
..... acres treated, 2017	8,672	5,650	96,539	4,323	3,497	97,070	124,055
..... acres treated, 2012	9,124	4,033	91,060	4,610	3,049	114,580	117,134
Pastureland and rangeland fertilized farms, 2017	81	61	138	11	44	174	56
..... farms, 2012	75	33	115	14	57	87	51
..... acres treated, 2017	4,397	855	2,053	146	1,929	2,610	770
..... acres treated, 2012	2,652	541	2,826	112	1,558	1,781	889
Manure farms, 2017	87	174	404	35	96	448	233
..... farms, 2012	85	97	309	31	73	296	172
..... acres treated, 2017	2,507	4,119	18,813	519	1,284	9,651	11,637
..... acres treated, 2012	2,126	3,710	11,502	1,020	1,066	11,050	10,928
Organic fertilizer (see text) farms, 2017	11	12	37	7	6	46	22
..... farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	196	75	1,624	16	104	793	3,328
..... acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insects farms, 2017	27	25	175	62	28	176	132
..... farms, 2012	33	25	168	76	48	177	148
..... acres, 2017	813	1,441	36,849	2,860	95	63,558	52,769
..... acres, 2012	599	775	26,409	3,734	510	35,867	60,354
Weeds, grass, or brush farms, 2017	100	93	422	71	81	504	411
..... farms, 2012	118	91	474	91	101	497	413
..... acres, 2017	7,160	2,705	103,954	3,658	2,596	118,100	149,829
..... acres, 2012	6,216	3,166	95,461	4,510	2,999	125,021	154,926
Nematodes farms, 2017	3	1	17	5	1	27	26
..... farms, 2012	9	4	17	4	12	21	14
..... acres, 2017	77	(D)	2,432	186	(D)	5,846	4,094
..... acres, 2012	115	8	2,098	(D)	37	1,376	4,633
Diseases in crops and orchards farms, 2017	25	8	50	34	17	75	40
..... farms, 2012	15	15	39	38	21	54	39
..... acres, 2017	297	21	4,429	1,678	30	13,656	16,015
..... acres, 2012	113	72	2,711	842	68	4,532	12,691
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	2	5	1	5	3	9	9
..... farms, 2012	6	2	20	8	7	12	2
..... acres on which used, 2017	(D)	10	(D)	134	7	307	265
..... acres on which used, 2012	71	(D)	932	76	12	304	(D)

Item	Lorain	Lucas	Madison	Mahoning	Marion	Medina	Meigs
Commercial fertilizer, lime, and soil conditioners farms, 2017	442	204	424	331	325	455	229
..... farms, 2012	378	180	392	302	290	358	226
..... acres treated, 2017	65,191	49,582	175,905	37,455	128,971	52,139	18,954
..... acres treated, 2012	68,593	42,423	180,855	38,025	123,631	50,858	10,828
Cropland fertilized, except cropland pasture farms, 2017	398	193	412	314	315	416	198
..... farms, 2012	364	174	386	277	288	330	200
..... acres treated, 2017	64,826	49,518	175,530	36,585	128,359	51,511	15,360
..... acres treated, 2012	68,170	42,386	180,235	36,832	123,252	50,386	8,284
Pastureland and rangeland fertilized farms, 2017	66	15	20	55	32	86	84
..... farms, 2012	34	9	24	51	18	65	69
..... acres treated, 2017	365	64	375	870	612	628	3,594
..... acres treated, 2012	423	37	620	1,193	379	472	2,544
Manure farms, 2017	191	35	130	208	118	234	118
..... farms, 2012	145	25	101	184	86	194	115
..... acres treated, 2017	4,765	1,096	15,670	10,620	26,431	5,829	3,639
..... acres treated, 2012	5,824	1,186	6,591	9,143	14,154	7,114	3,129
Organic fertilizer (see text) farms, 2017	21	2	32	13	5	45	4
..... farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	995	(D)	4,573	261	1,167	828	83
..... acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insects farms, 2017	163	95	204	88	95	99	26
..... farms, 2012	160	100	170	108	101	134	58
..... acres, 2017	24,822	16,407	81,034	13,693	49,941	10,722	1,041
..... acres, 2012	26,039	18,739	72,412	6,807	36,775	15,607	1,646
Weeds, grass, or brush farms, 2017	370	187	411	266	290	321	111
..... farms, 2012	368	194	413	269	301	348	146
..... acres, 2017	77,643	56,955	213,369	37,723	166,819	56,243	10,719
..... acres, 2012	87,946	53,159	222,459	37,539	154,859	54,197	4,125
Nematodes farms, 2017	31	16	31	11	20	7	-
..... farms, 2012	20	22	13	20	21	23	12
..... acres, 2017	4,068	1,203	6,689	1,814	6,826	194	-
..... acres, 2012	545	1,991	3,730	232	6,025	733	434
Diseases in crops and orchards farms, 2017	71	29	75	41	39	55	11
..... farms, 2012	63	43	33	45	34	55	32
..... acres, 2017	8,768	5,580	28,955	4,159	15,038	4,292	842
..... acres, 2012	10,515	6,244	5,979	969	9,083	2,442	661
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	19	4	9	15	4	19	3
..... farms, 2012	23	4	5	10	4	15	10
..... acres on which used, 2017	169	(D)	957	138	(D)	503	10
..... acres on which used, 2012	991	29	1,327	440	269	323	156

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

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

Item	Mercer	Miami	Monroe	Montgomery	Morgan	Morrow	Muskingum
Commercial fertilizer, lime, and soil conditionersfarms, 2017	791	580	289	389	216	409	482
.....farms, 2012	812	617	224	368	181	400	433
.....acres treated, 2017	170,775	120,475	9,937	67,325	15,223	92,533	48,131
.....acres treated, 2012	186,234	125,449	8,633	77,880	12,642	100,653	46,625
Cropland fertilized, except cropland pasturefarms, 2017	788	552	244	368	171	383	427
.....farms, 2012	805	603	197	339	161	388	388
.....acres treated, 2017	170,579	119,913	7,382	66,987	11,230	91,346	43,983
.....acres treated, 2012	186,039	125,159	6,311	77,470	9,169	99,634	42,729
Pastureland and rangeland fertilizedfarms, 2017	21	54	103	44	82	60	139
.....farms, 2012	29	37	86	47	49	58	127
.....acres treated, 2017	196	562	2,555	338	3,993	1,187	4,148
.....acres treated, 2012	195	290	2,322	410	3,473	1,019	3,896
Manurefarms, 2017	442	194	199	85	174	258	347
.....farms, 2012	424	164	184	92	143	212	319
.....acres treated, 2017	50,381	6,490	5,602	2,462	4,768	11,539	11,646
.....acres treated, 2012	52,674	7,150	4,245	3,780	3,577	6,675	12,387
Organic fertilizer (see text)farms, 2017	29	21	32	12	9	22	10
.....farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2017	2,873	824	678	439	237	457	433
.....acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insectsfarms, 2017	313	202	13	119	20	71	64
.....farms, 2012	326	253	27	138	30	129	92
.....acres, 2017	61,591	53,853	239	16,785	471	17,398	6,144
.....acres, 2012	55,118	52,330	328	22,270	1,065	28,050	11,082
Weeds, grass, or brushfarms, 2017	763	505	99	318	109	330	251
.....farms, 2012	830	584	107	337	120	363	289
.....acres, 2017	207,068	139,259	2,191	80,345	8,145	118,057	43,970
.....acres, 2012	216,997	145,392	2,089	91,904	5,426	118,628	36,730
Nematodesfarms, 2017	38	37	1	19	-	17	3
.....farms, 2012	41	38	3	17	3	22	11
.....acres, 2017	5,244	6,998	(D)	913	-	4,809	(D)
.....acres, 2012	5,907	4,959	10	560	32	4,092	626
Diseases in crops and orchardsfarms, 2017	96	71	8	38	4	28	42
.....farms, 2012	57	70	14	29	10	44	36
.....acres, 2017	12,456	14,373	17	4,729	36	7,747	1,721
.....acres, 2012	7,273	6,289	61	4,536	173	9,942	1,849
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	13	12	3	16	3	9	5
.....farms, 2012	8	12	5	11	3	9	7
.....acres on which used, 2017	428	267	28	700	16	173	18
.....acres on which used, 2012	1,225	634	(D)	771	29	372	36

Item	Noble	Ottawa	Paulding	Perry	Pickaway	Pike	Portage
Commercial fertilizer, lime, and soil conditionersfarms, 2017	143	317	407	253	432	212	388
.....farms, 2012	137	327	360	229	439	180	316
.....acres treated, 2017	5,671	65,380	129,980	30,228	204,452	36,367	40,065
.....acres treated, 2012	4,898	66,739	135,545	42,294	201,120	30,828	40,435
Cropland fertilized, except cropland pasturefarms, 2017	120	317	406	236	407	175	347
.....farms, 2012	120	327	359	203	421	161	297
.....acres treated, 2017	3,972	65,332	129,918	29,101	203,076	33,913	39,267
.....acres treated, 2012	3,416	66,663	135,469	40,880	199,600	28,702	39,773
Pastureland and rangeland fertilizedfarms, 2017	50	7	5	54	53	68	77
.....farms, 2012	35	5	7	59	44	43	48
.....acres treated, 2017	1,699	48	62	1,127	1,376	2,454	798
.....acres treated, 2012	1,482	76	76	1,414	1,520	2,126	662
Manurefarms, 2017	147	65	92	160	140	76	291
.....farms, 2012	92	52	80	138	95	92	188
.....acres treated, 2017	3,382	2,727	12,864	4,667	4,629	2,475	5,119
.....acres treated, 2012	1,686	1,395	16,801	6,290	4,001	2,678	6,543
Organic fertilizer (see text)farms, 2017	20	8	10	18	5	22	28
.....farms, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
.....acres treated, 2017	247	(D)	4,263	368	(D)	653	418
.....acres treated, 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insectsfarms, 2017	5	128	98	43	155	47	73
.....farms, 2012	13	190	138	53	204	71	98
.....acres, 2017	31	37,203	38,506	6,375	103,974	7,329	6,618
.....acres, 2012	(D)	37,006	55,611	5,730	85,466	10,509	7,329
Weeds, grass, or brushfarms, 2017	42	312	388	164	408	142	261
.....farms, 2012	68	348	386	195	443	143	280
.....acres, 2017	1,329	92,890	180,801	38,251	246,438	30,889	39,977
.....acres, 2012	1,332	87,911	175,067	44,098	237,086	36,911	38,523
Nematodesfarms, 2017	-	19	20	4	31	6	3
.....farms, 2012	1	28	14	5	42	14	18
.....acres, 2017	-	2,832	4,793	235	10,657	1,619	(D)
.....acres, 2012	(D)	5,990	5,300	(D)	18,701	938	395
Diseases in crops and orchardsfarms, 2017	1	38	52	7	57	24	28
.....farms, 2012	3	65	40	6	50	34	39
.....acres, 2017	(D)	10,800	19,672	1,275	19,469	2,403	584
.....acres, 2012	(D)	9,170	10,879	141	21,005	330	1,565
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	1	4	5	1	3	-	5
.....farms, 2012	2	13	4	-	10	2	12
.....acres on which used, 2017	(D)	(D)	240	(D)	24	-	53
.....acres on which used, 2012	(D)	1,477	129	-	1,255	(D)	275

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

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

Item	Preble	Putnam	Richland	Ross	Sandusky	Scioto	Seneca
Commercial fertilizer, lime, and soil conditioners farms, 2017	606	1,006	545	439	507	241	788
..... 2012	614	980	536	400	461	244	752
..... acres treated, 2017	145,736	213,922	73,880	94,971	122,709	30,065	181,870
..... 2012	164,249	205,963	84,126	94,556	124,570	25,968	196,762
Cropland fertilized, except cropland pasture farms, 2017	585	999	508	396	503	197	776
..... 2012	593	979	520	366	455	183	746
..... acres treated, 2017	144,652	213,799	72,007	93,430	122,562	25,490	181,447
..... 2012	163,238	205,851	82,478	92,160	124,423	23,203	196,300
Pastureland and rangeland fertilized farms, 2017	62	21	97	74	16	110	35
..... 2012	61	10	76	77	14	118	33
..... acres treated, 2017	1,084	123	1,873	1,541	147	4,575	423
..... 2012	1,011	112	1,648	2,396	147	2,765	462
Manure farms, 2017	208	274	391	165	120	116	205
..... 2012	219	216	340	133	95	103	217
..... acres treated, 2017	16,405	18,092	19,248	6,221	4,220	1,721	6,182
..... 2012	10,181	13,417	18,787	4,562	2,262	1,449	9,029
Organic fertilizer (see text) farms, 2017	27	21	45	19	8	21	7
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	3,850	2,100	1,530	1,542	1,188	1,126	1,109
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insects farms, 2017	192	347	208	146	203	53	224
..... 2012	204	383	237	124	229	44	281
..... acres, 2017	58,449	72,948	41,531	31,027	48,468	5,932	67,379
..... 2012	56,738	81,529	39,546	29,027	55,450	3,099	73,580
Weeds, grass, or brush farms, 2017	549	980	419	367	495	164	742
..... 2012	577	988	486	349	468	162	757
..... acres, 2017	170,962	254,776	76,632	120,795	152,889	22,875	218,063
..... 2012	178,939	253,956	84,548	110,683	152,841	22,793	231,002
Nematodes farms, 2017	60	51	19	11	49	3	48
..... 2012	27	72	31	15	49	11	46
..... acres, 2017	8,791	8,533	3,500	659	8,723	1,301	6,711
..... 2012	8,267	15,691	3,073	8,362	10,375	463	6,026
Diseases in crops and orchards farms, 2017	76	112	54	54	97	26	112
..... 2012	41	107	55	26	67	15	86
..... acres, 2017	15,777	28,310	7,880	7,208	16,023	3,223	23,625
..... 2012	5,452	21,237	8,057	2,202	11,622	1,942	21,450
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	8	20	7	6	14	1	12
..... 2012	7	10	8	10	8	7	12
..... acres on which used, 2017	381	1,612	154	79	584	(D)	604
..... 2012	(D)	1,371	939	1,377	454	404	879
Item	Shelby	Stark	Summit	Trumbull	Tuscarawas	Union	Van Wert
Commercial fertilizer, lime, and soil conditioners farms, 2017	647	657	107	412	372	481	553
..... 2012	666	565	99	438	388	433	500
..... acres treated, 2017	144,358	67,237	6,196	58,293	50,097	138,493	177,344
..... 2012	141,089	72,465	6,049	58,634	47,333	152,119	160,431
Cropland fertilized, except cropland pasture farms, 2017	638	571	82	363	326	445	537
..... 2012	661	511	85	397	333	420	500
..... acres treated, 2017	143,996	65,950	5,880	57,331	47,376	137,996	177,288
..... 2012	140,909	71,042	5,814	57,219	44,662	151,848	160,283
Pastureland and rangeland fertilized farms, 2017	44	143	36	84	120	55	20
..... 2012	23	112	27	112	116	28	8
..... acres treated, 2017	362	1,287	316	962	2,721	497	56
..... 2012	180	1,423	235	1,415	2,671	271	148
Manure farms, 2017	309	414	85	227	392	175	176
..... 2012	276	361	51	242	334	158	121
..... acres treated, 2017	30,153	15,694	1,054	6,371	19,135	14,033	15,985
..... 2012	25,537	21,303	779	8,005	21,721	9,625	10,182
Organic fertilizer (see text) farms, 2017	20	41	15	18	34	17	17
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
..... acres treated, 2017	603	1,487	45	1,122	665	343	1,107
..... 2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insects farms, 2017	197	151	42	72	66	186	200
..... 2012	218	189	62	111	103	161	191
..... acres, 2017	53,008	14,757	4,111	10,792	9,007	67,047	56,238
..... 2012	36,975	12,949	3,273	15,813	17,140	59,290	49,667
Weeds, grass, or brush farms, 2017	576	481	67	309	218	454	553
..... 2012	651	505	86	360	266	448	492
..... acres, 2017	172,876	64,100	5,768	56,273	42,165	177,042	225,979
..... 2012	158,488	78,336	5,752	55,274	41,048	189,083	199,156
Nematodes farms, 2017	44	24	9	8	5	16	26
..... 2012	32	25	12	5	10	13	28
..... acres, 2017	6,266	1,617	1,156	1,142	340	1,804	5,409
..... 2012	7,227	1,094	1,336	(D)	734	2,509	5,161
Diseases in crops and orchards farms, 2017	68	53	27	24	20	56	83
..... 2012	60	49	35	33	29	37	51
..... acres, 2017	20,046	3,294	433	1,904	1,285	8,505	24,965
..... 2012	8,560	2,067	866	2,215	1,182	8,218	8,434
Chemicals used to control growth, thin fruit, ripen, or defoliate farms, 2017	3	6	6	2	5	7	6
..... 2012	7	14	8	8	6	7	13
..... acres on which used, 2017	65	75	79	(D)	68	104	413
..... 2012	431	464	327	409	189	195	693

--continued

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

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

Item	Vinton	Warren	Washington	Wayne	Williams	Wood	Wyandot
Commercial fertilizer, lime, and soil conditionersfarms, 2017	54	318	455	1,043	431	646	387
2012	44	351	371	1,058	434	694	359
acres treated, 2017	5,877	48,331	33,396	141,570	136,311	178,968	146,570
2012	4,537	59,091	28,202	150,223	116,949	188,097	146,559
Cropland fertilized, except cropland pasturefarms, 2017	37	282	396	916	430	629	382
2012	38	302	328	1,006	423	683	354
acres treated, 2017	5,072	47,632	28,046	138,009	136,100	178,505	146,443
2012	3,298	58,071	23,706	147,229	116,490	187,949	146,305
Pastureland and rangeland fertilizedfarms, 2017	18	53	167	245	22	27	16
2012	15	72	115	202	23	21	16
acres treated, 2017	805	699	5,350	3,561	211	463	127
2012	1,239	1,020	4,496	2,994	459	148	254
Manurefarms, 2017	21	141	280	937	144	112	119
2012	24	127	257	860	124	102	91
acres treated, 2017	435	2,716	8,165	63,782	12,087	8,505	7,403
2012	617	2,385	8,405	64,029	8,937	5,647	4,731
Organic fertilizer (see text)farms, 2017	-	15	20	108	6	10	10
2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
acres treated, 2017	-	1,180	466	9,419	234	1,147	393
2012	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Acres treated to control--							
Insectsfarms, 2017	7	107	57	318	140	210	121
2012	3	150	73	484	160	267	141
acres, 2017	510	23,422	5,371	39,151	38,740	63,028	37,100
2012	(D)	26,380	4,997	60,459	36,424	57,661	34,279
Weeds, grass, or brushfarms, 2017	35	240	271	763	409	633	367
2012	25	315	251	949	461	685	369
acres, 2017	4,870	56,664	23,120	133,984	162,687	222,941	184,058
2012	2,181	68,391	20,603	146,841	141,731	225,790	184,969
Nematodesfarms, 2017	-	18	5	22	26	42	26
2012	1	27	11	52	21	45	18
acres, 2017	-	2,055	153	2,962	1,237	10,356	4,058
2012	(D)	2,358	315	10,282	1,863	9,002	2,397
Diseases in crops and orchardsfarms, 2017	5	32	23	115	65	91	74
2012	1	50	26	106	46	75	43
acres, 2017	811	7,404	1,226	3,898	15,876	19,896	27,173
2012	(D)	5,605	674	6,691	4,418	10,505	22,836
Chemicals used to control growth, thin fruit, ripen, or defoliatefarms, 2017	1	6	6	8	2	12	3
2012	3	21	7	37	3	11	7
acres on which used, 2017	(D)	55	17	158	(D)	429	(D)
2012	3	1,424	256	1,469	(D)	1,290	759