

**Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992**

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

Chemicals used	Virginia	Accomack	Albemarle	Alleghany	Amelia	Amherst	Appomattox
	Commercial fertilizer ..... farms, 1997..	26 558	192	410	84	188	291
..... 1992..	28 903	169	406	90	214	299	282
acres on which used, 1997..	2 101 660	53 103	27 740	3 228	18 652	16 601	20 003
..... 1992..	2 082 495	49 178	29 655	2 477	21 164	15 881	21 666
Cropland fertilized, except pastureland ..... farms, 1997..	23 051	191	295	71	152	219	192
..... 1992..	25 992	167	337	79	205	246	196
acres on which used, 1997..	1 683 550	(D)	17 848	2 177	15 882	11 276	11 658
..... 1992..	1 712 490	49 057	20 063	1 699	19 148	9 411	10 493
Pastureland and rangeland fertilized..... farms, 1997..	9 585	1	185	38	84	139	165
..... 1992..	8 908	4	144	32	50	130	162
acres on which used, 1997..	418 110	(D)	9 892	1 051	2 770	5 325	8 345
..... 1992..	370 005	121	9 592	778	2 016	6 470	11 173
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops ..... farms, 1997..	6 902	98	60	9	48	33	14
..... 1992..	14 112	104	271	13	95	56	102
acres on which used, 1997..	575 771	31 043	3 459	544	3 579	719	702
..... 1992..	628 369	31 684	9 937	422	2 121	1 249	1 532
Nematodes in crops ..... farms, 1997..	1 724	21	2	2	6	1	—
..... 1992..	2 021	20	7	1	39	2	—
acres on which used, 1997..	151 573	6 161	(D)	(D)	844	(D)	—
..... 1992..	132 937	2 403	1 481	(D)	585	(D)	—
Diseases in crops and orchards..... farms, 1997..	3 298	54	35	4	2	10	8
..... 1992..	3 385	33	63	3	20	16	1
acres on which used, 1997..	202 424	13 757	404	4	(D)	390	47
..... 1992..	162 992	11 628	1 585	120	489	114	(D)
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	9 903	172	108	19	72	50	48
..... 1992..	10 674	179	75	31	124	64	80
acres on which used, 1997..	1 119 769	57 728	5 008	445	11 722	1 365	1 982
..... 1992..	1 099 109	60 248	6 355	623	17 614	3 690	4 547
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	1 177	7	16	3	1	—	5
..... 1992..	1 349	12	10	2	9	—	—
acres on which used, 1997..	118 073	1 507	295	3	(D)	—	20
..... 1992..	60 869	2 244	(D)	(D)	211	—	—
Chemicals used	Arlington	Augusta	Bath	Bedford	Bland	Botetourt	Brunswick
Commercial fertilizer ..... farms, 1997..	—	835	58	878	256	290	214
..... 1992..	2	875	59	880	221	323	282
acres on which used, 1997..	—	62 750	5 300	50 728	12 135	14 164	14 248
..... 1992..	(D)	69 587	2 585	52 660	9 259	14 724	17 024
Cropland fertilized, except pastureland ..... farms, 1997..	—	708	44	734	230	247	214
..... 1992..	2	743	40	779	178	281	271
acres on which used, 1997..	—	50 274	4 715	31 492	8 989	10 291	12 415
..... 1992..	(D)	51 865	1 716	37 755	6 135	10 820	13 298
Pastureland and rangeland fertilized..... farms, 1997..	—	301	22	511	71	96	29
..... 1992..	—	309	27	373	86	124	52
acres on which used, 1997..	—	12 476	585	19 236	3 146	3 873	1 833
..... 1992..	—	17 722	869	14 905	3 124	3 904	3 726
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops ..... farms, 1997..	—	247	7	102	26	20	109
..... 1992..	1	485	20	235	124	170	173
acres on which used, 1997..	—	12 693	68	3 354	1 801	2 021	4 245
..... 1992..	(D)	18 812	310	7 466	3 049	4 838	6 514
Nematodes in crops ..... farms, 1997..	—	21	1	12	—	4	74
..... 1992..	—	27	—	6	10	11	63
acres on which used, 1997..	—	1 755	(D)	553	—	334	2 953
..... 1992..	—	1 255	—	840	53	714	2 618
Diseases in crops and orchards..... farms, 1997..	—	33	4	25	14	15	23
..... 1992..	—	25	—	42	10	15	35
acres on which used, 1997..	—	347	34	431	17	629	2 070
..... 1992..	—	666	—	740	17	621	728
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	—	434	29	146	96	87	54
..... 1992..	—	363	19	173	54	121	97
acres on which used, 1997..	—	31 781	1 271	7 682	3 485	3 934	7 511
..... 1992..	—	26 260	547	5 637	999	4 860	8 031
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	—	17	—	13	8	4	5
..... 1992..	—	25	1	10	3	7	23
acres on which used, 1997..	—	659	—	155	12	368	353
..... 1992..	—	1 744	(D)	300	58	252	771

**Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.**

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

Chemicals used	Buchanan	Buckingham	Campbell	Caroline	Carroll	Charles City	Charlotte
	Commercial fertilizer ..... farms, 1997..	50	232	366	129	647	42
..... 1992..	79	228	462	144	573	47	361
acres on which used, 1997..	955	13 001	33 167	28 248	30 740	18 515	22 328
..... 1992..	402	11 491	27 617	28 648	24 252	15 258	21 340
Cropland fertilized, except pastureland ..... farms, 1997..	44	159	302	109	416	35	301
..... 1992..	76	205	387	136	456	38	305
acres on which used, 1997..	309	7 868	18 494	26 769	14 939	18 163	12 858
..... 1992..	(D)	9 300	18 408	26 000	13 321	14 637	13 367
Pastureland and rangeland fertilized..... farms, 1997..	17	131	192	44	422	12	154
..... 1992..	5	72	185	65	264	16	156
acres on which used, 1997..	646	5 133	14 673	1 479	15 801	352	9 470
..... 1992..	(D)	2 191	9 209	2 648	10 931	621	7 973
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops ..... farms, 1997..	7	20	78	29	37	24	171
..... 1992..	23	120	282	98	140	27	254
acres on which used, 1997..	11	418	2 613	4 815	1 253	8 446	3 769
..... 1992..	(D)	1 102	3 242	4 085	3 997	1 998	4 619
Nematodes in crops ..... farms, 1997..	—	—	13	4	4	5	33
..... 1992..	—	—	4	1	9	3	33
acres on which used, 1997..	—	—	437	(D)	114	515	1 246
..... 1992..	—	—	269	(D)	380	430	901
Diseases in crops and orchards..... farms, 1997..	7	9	35	11	44	8	29
..... 1992..	10	1	23	16	59	7	6
acres on which used, 1997..	13	241	108	1 841	588	2 556	370
..... 1992..	10	(D)	187	1 528	1 388	1 622	305
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	10	29	134	67	110	29	123
..... 1992..	9	26	94	70	80	24	77
acres on which used, 1997..	516	837	7 301	26 586	2 812	16 446	4 189
..... 1992..	(D)	908	4 538	19 874	1 936	14 645	2 501
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	4	2	16	5	11	9	17
..... 1992..	—	5	7	—	26	4	1
acres on which used, 1997..	10	(D)	930	884	184	1 417	715
..... 1992..	—	225	41	—	649	1 545	(D)
Chemicals used	Chesterfield	Clarke	Craig	Culpeper	Cumberland	Dickenson	Dinwiddie
Commercial fertilizer ..... farms, 1997..	75	116	105	260	145	62	222
..... 1992..	77	138	103	226	130	68	269
acres on which used, 1997..	3 683	13 686	7 344	32 024	8 547	1 584	24 791
..... 1992..	4 016	16 567	6 274	38 731	7 737	957	22 024
Cropland fertilized, except pastureland ..... farms, 1997..	66	106	99	220	125	48	204
..... 1992..	71	127	91	203	121	64	252
acres on which used, 1997..	3 117	11 282	5 179	27 915	6 521	650	22 798
..... 1992..	3 710	14 569	5 161	34 193	5 172	550	19 988
Pastureland and rangeland fertilized..... farms, 1997..	21	25	41	94	47	30	57
..... 1992..	13	26	46	76	63	19	59
acres on which used, 1997..	566	2 404	2 165	4 109	2 026	934	1 993
..... 1992..	306	1 998	1 113	4 538	2 565	407	2 036
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops ..... farms, 1997..	25	42	2	89	44	7	118
..... 1992..	55	117	21	66	60	24	179
acres on which used, 1997..	712	6 510	(D)	7 169	2 341	7	7 753
..... 1992..	1 521	8 239	295	6 680	2 074	137	7 031
Nematodes in crops ..... farms, 1997..	13	1	—	4	18	4	65
..... 1992..	9	—	—	8	9	—	52
acres on which used, 1997..	307	(D)	—	1 139	858	4	4 483
..... 1992..	182	—	—	81	121	—	3 547
Diseases in crops and orchards..... farms, 1997..	12	9	5	29	8	10	47
..... 1992..	20	16	2	28	4	8	34
acres on which used, 1997..	348	2 491	45	1 811	56	13	3 789
..... 1992..	528	3 138	(D)	1 029	402	8	2 796
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	47	80	35	111	34	26	116
..... 1992..	36	80	44	103	66	14	127
acres on which used, 1997..	2 521	9 503	1 399	18 754	3 148	159	21 271
..... 1992..	3 307	9 933	1 471	19 013	3 722	70	15 928
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	2	6	—	27	1	3	10
..... 1992..	8	8	1	12	1	—	4
acres on which used, 1997..	(D)	1 876	—	1 584	(D)	6	2 882
..... 1992..	77	2 409	(D)	533	(D)	—	632

**Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.**

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Chemicals used	County							
	Essex	Fairfax	Fauquier	Floyd	Fluvanna	Franklin	Frederick	
Commercial fertilizer ..... farms, 1997..	86	48	493	504	148	681	308	
..... 1992..	98	54	408	527	152	767	294	
acres on which used, 1997..	36 162	1 780	57 222	23 171	8 566	55 677	20 646	
..... 1992..	29 977	1 151	49 824	24 180	8 930	59 123	20 471	
Cropland fertilized, except pastureland ..... farms, 1997..	82	38	310	411	115	547	285	
..... 1992..	90	43	340	448	129	679	264	
acres on which used, 1997..	35 900	1 484	39 586	13 963	5 936	36 426	18 625	
..... 1992..	29 334	897	40 562	16 504	6 266	39 276	17 362	
Pastureland and rangeland fertilized..... farms, 1997..	7	16	243	239	78	398	48	
..... 1992..	12	16	160	205	73	404	82	
acres on which used, 1997..	262	296	17 636	9 208	2 630	19 251	2 021	
..... 1992..	643	254	9 262	7 676	2 664	19 847	3 109	
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	44	20	75	56	27	197	110	
..... 1992..	38	48	220	249	52	302	233	
acres on which used, 1997..	13 207	380	8 907	1 979	562	9 336	10 937	
..... 1992..	3 895	736	9 637	4 351	1 094	11 195	14 475	
Nematodes in crops ..... farms, 1997..	2	—	5	2	6	32	16	
..... 1992..	—	2	12	16	1	34	7	
acres on which used, 1997..	(D)	—	1 111	(D)	132	514	522	
..... 1992..	—	(D)	771	270	(D)	1 137	1 052	
Diseases in crops and orchards..... farms, 1997..	13	14	29	33	16	60	84	
..... 1992..	3	14	42	19	2	29	61	
acres on which used, 1997..	3 330	36	238	199	295	1 083	9 377	
..... 1992..	(D)	49	863	693	(D)	646	9 266	
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	76	18	191	94	37	195	148	
..... 1992..	76	16	245	135	5	236	96	
acres on which used, 1997..	29 625	548	30 844	4 308	756	14 374	9 469	
..... 1992..	31 050	354	22 952	3 784	823	11 576	6 187	
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	5	4	10	8	—	3	52	
..... 1992..	3	1	16	5	—	35	27	
acres on which used, 1997..	(D)	61	542	365	—	293	4 205	
..... 1992..	(D)	(D)	1 034	5	—	922	3 543	

  

Chemicals used	County							
	Giles	Gloucester	Goochland	Grayson	Greene	Greensville	Halifax	Hanover
Commercial fertilizer ..... farms, 1997..	247	70	104	603	114	112	801	355
..... 1992..	215	86	146	577	162	123	876	427
acres on which used, 1997..	10 189	13 501	10 499	21 891	6 270	24 065	39 581	45 994
..... 1992..	6 536	12 621	12 320	16 483	7 257	21 350	36 496	49 065
Cropland fertilized, except pastureland ..... farms, 1997..	218	65	84	575	95	102	724	299
..... 1992..	180	81	136	526	132	123	798	373
acres on which used, 1997..	7 430	13 363	8 852	15 173	4 620	22 852	24 856	40 796
..... 1992..	4 069	12 495	10 639	11 030	4 592	20 877	25 496	44 970
Pastureland and rangeland fertilized..... farms, 1997..	97	17	51	194	46	20	307	134
..... 1992..	109	8	56	179	87	35	246	94
acres on which used, 1997..	2 759	138	1 647	6 718	1 650	1 213	14 725	5 198
..... 1992..	2 467	126	1 681	5 453	2 665	473	11 000	4 095
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	15	22	4	101	13	62	374	115
..... 1992..	34	24	37	226	62	97	709	187
acres on which used, 1997..	344	2 450	185	1 916	549	17 048	8 655	11 357
..... 1992..	1 024	1 145	956	3 896	1 433	16 000	12 545	7 889
Nematodes in crops ..... farms, 1997..	1	—	1	23	1	49	106	10
..... 1992..	—	6	1	11	2	75	182	14
acres on which used, 1997..	(D)	—	(D)	78	(D)	8 828	1 905	(D)
..... 1992..	—	52	(D)	143	(D)	9 260	3 133	240
Diseases in crops and orchards..... farms, 1997..	2	7	1	84	8	46	78	44
..... 1992..	13	9	3	75	16	59	81	45
acres on which used, 1997..	(D)	(D)	(D)	281	78	5 548	1 440	4 628
..... 1992..	154	270	(D)	307	194	5 495	1 340	2 457
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	131	39	18	139	30	72	274	167
..... 1992..	155	70	22	155	34	92	300	214
acres on which used, 1997..	4 638	10 739	5 354	4 770	895	23 056	10 548	27 241
..... 1992..	4 881	13 308	5 562	2 730	960	17 288	7 429	32 788
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	1	2	—	7	5	35	41	7
..... 1992..	1	—	9	21	—	22	46	3
acres on which used, 1997..	(D)	(D)	—	(D)	35	5 256	1 093	21
..... 1992..	(D)	—	315	65	—	4 136	1 115	(D)

**Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.**

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Chemicals used	Henrico	Henry	Highland	Isle of Wight	James City	King and Queen	King George	King William
	Commercial fertilizer ..... farms, 1997..	81	193	91	150	37	103	95
..... 1992..	97	189	137	187	38	94	90	96
acres on which used, 1997..	9 164	9 122	3 589	45 957	4 262	26 750	12 673	29 131
..... 1992..	9 657	7 647	4 298	46 123	3 459	28 059	14 874	32 596
Cropland fertilized, except pastureland ..... farms, 1997..	77	138	78	146	34	98	84	81
..... 1992..	89	146	111	187	32	92	79	87
acres on which used, 1997..	9 010	4 652	2 707	45 220	4 119	26 416	12 028	28 089
..... 1992..	9 423	3 899	2 914	44 399	3 350	27 919	13 989	31 790
Pastureland and rangeland fertilized..... farms, 1997..	15	119	26	18	9	17	20	25
..... 1992..	16	111	43	27	8	9	21	24
acres on which used, 1997..	154	4 470	882	737	143	334	645	1 042
..... 1992..	234	3 748	1 384	1 724	109	140	885	806
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	32	25	23	119	20	32	25	43
..... 1992..	51	64	20	162	31	37	41	41
acres on which used, 1997..	1 278	449	544	31 074	540	8 396	1 683	12 391
..... 1992..	1 413	1 049	360	28 120	998	6 155	2 991	4 071
Nematodes in crops ..... farms, 1997..	4	1	4	70	4	5	—	10
..... 1992..	—	11	—	86	1	2	1	—
acres on which used, 1997..	54	(D)	56	12 412	47	2 274	—	1 477
..... 1992..	—	13	—	9 407	(D)	(D)	(D)	—
Diseases in crops and orchards..... farms, 1997..	10	9	5	54	10	21	9	17
..... 1992..	15	13	—	77	10	4	7	11
acres on which used, 1997..	690	79	59	11 654	555	3 521	108	4 794
..... 1992..	1 188	40	—	8 057	148	447	360	1 520
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	40	20	24	119	17	64	47	61
..... 1992..	36	6	52	159	14	73	39	74
acres on which used, 1997..	4 511	408	2 082	45 376	2 760	21 652	10 371	25 419
..... 1992..	7 853	(D)	754	38 693	1 356	27 785	9 438	27 180
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	4	1	—	44	2	3	—	2
..... 1992..	5	2	—	14	—	2	—	2
acres on which used, 1997..	13	(D)	—	15 792	(D)	639	—	(D)
..... 1992..	122	(D)	—	1 863	—	(D)	—	(D)
Chemicals used	Lancaster	Lee	Loudoun	Louisa	Lunenburg	Madison	Mathews	Mecklenburg
Commercial fertilizer ..... farms, 1997..	58	934	395	214	205	272	34	484
..... 1992..	62	1 155	394	223	289	314	45	521
acres on which used, 1997..	11 107	20 916	48 852	16 452	8 773	33 533	3 302	34 295
..... 1992..	10 464	20 836	44 250	21 648	10 835	34 816	3 390	35 528
Cropland fertilized, except pastureland ..... farms, 1997..	58	872	325	181	197	212	32	424
..... 1992..	60	1 101	322	208	257	288	43	463
acres on which used, 1997..	10 925	11 969	40 240	11 942	6 814	22 368	3 014	24 496
..... 1992..	10 204	9 808	36 962	16 368	7 895	21 250	3 202	23 168
Pastureland and rangeland fertilized..... farms, 1997..	3	270	118	93	44	157	10	210
..... 1992..	8	258	138	86	59	157	5	185
acres on which used, 1997..	182	8 947	8 612	4 510	1 959	11 165	288	9 799
..... 1992..	260	11 028	7 288	5 280	2 940	13 566	188	12 360
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	31	157	100	36	72	62	8	190
..... 1992..	27	458	231	80	195	193	22	368
acres on which used, 1997..	3 885	1 676	5 602	1 894	2 310	4 780	776	8 780
..... 1992..	3 375	3 159	9 792	2 155	4 500	7 738	657	9 140
Nematodes in crops ..... farms, 1997..	7	25	8	10	63	5	3	69
..... 1992..	—	47	12	5	63	17	—	87
acres on which used, 1997..	453	139	80	203	1 025	1 560	(D)	3 384
..... 1992..	—	107	931	130	1 563	1 492	—	2 944
Diseases in crops and orchards..... farms, 1997..	16	194	38	14	14	15	7	39
..... 1992..	5	177	66	11	21	17	5	32
acres on which used, 1997..	1 970	664	534	15	269	2 553	496	1 820
..... 1992..	(D)	785	3 663	156	701	1 204	16	1 013
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	45	284	311	75	29	123	19	144
..... 1992..	44	247	322	114	81	116	27	155
acres on which used, 1997..	8 890	3 606	29 306	6 838	1 112	10 702	3 758	12 058
..... 1992..	8 219	5 460	31 572	6 863	3 035	6 841	2 308	8 931
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	7	50	21	—	7	9	—	22
..... 1992..	5	110	12	1	24	9	1	23
acres on which used, 1997..	657	242	1 002	—	190	111	—	1 438
..... 1992..	97	288	718	(D)	658	242	(D)	650

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Chemicals used	Middlesex	Montgomery	Nelson	New Kent	Northampton	Northumber-land	Nottoway	Orange
	Commercial fertilizer ..... farms, 1997..	51	345	193	47	134	98	172
..... 1992..	58	379	211	52	139	116	190	252
acres on which used, 1997..	13 124	18 403	8 953	9 941	37 482	27 200	13 659	26 234
..... 1992..	11 195	20 165	9 509	9 704	34 375	26 824	12 305	23 763
Cropland fertilized, except pastureland ..... farms, 1997..	49	283	127	38	133	98	136	166
..... 1992..	57	321	177	44	137	110	156	228
acres on which used, 1997..	12 921	12 751	5 336	9 567	37 392	26 975	8 268	18 847
..... 1992..	10 785	15 476	7 364	9 442	34 313	26 748	7 364	19 391
Pastureland and rangeland fertilized..... farms, 1997..	7	157	107	15	7	12	80	93
..... 1992..	11	159	67	12	7	10	99	93
acres on which used, 1997..	203	5 652	3 617	374	90	225	5 391	7 387
..... 1992..	410	4 689	2 145	262	62	76	4 941	4 372
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	24	53	7	16	90	61	40	37
..... 1992..	38	165	112	15	120	44	128	175
acres on which used, 1997..	4 031	1 846	975	3 093	27 092	10 319	1 334	3 454
..... 1992..	1 857	5 197	2 588	1 149	24 599	5 184	3 011	8 076
Nematodes in crops ..... farms, 1997..	3	12	1	1	25	2	5	2
..... 1992..	2	14	1	2	13	—	13	4
acres on which used, 1997..	184	292	(D)	(D)	2 108	(D)	259	(D)
..... 1992..	(D)	911	(D)	(D)	1 636	—	815	(D)
Diseases in crops and orchards..... farms, 1997..	8	13	7	10	66	28	5	14
..... 1992..	5	22	29	7	58	22	6	7
acres on which used, 1997..	1 211	174	907	1 540	14 734	6 433	38	590
..... 1992..	(D)	602	906	357	9 097	1 751	1 026	248
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	29	137	49	25	106	73	37	63
..... 1992..	32	100	48	34	106	76	43	69
acres on which used, 1997..	11 056	5 115	1 315	8 381	34 333	19 982	2 976	7 303
..... 1992..	8 225	8 309	789	9 973	25 848	21 601	3 055	8 081
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	1	7	5	2	15	7	2	6
..... 1992..	5	21	7	—	17	2	1	7
acres on which used, 1997..	(D)	263	792	(D)	3 457	868	(D)	135
..... 1992..	966	344	852	—	1 781	(D)	(D)	44
Chemicals used								
	Page	Patrick	Pittsylvania	Powhatan	Prince Edward	Prince George	Prince William	Pulaski
Commercial fertilizer ..... farms, 1997..	196	409	962	117	179	75	138	240
..... 1992..	190	478	1 179	110	206	125	88	189
acres on which used, 1997..	7 252	17 769	56 858	7 733	16 189	17 048	12 527	19 830
..... 1992..	7 968	16 687	68 724	8 769	12 665	23 492	10 895	11 148
Cropland fertilized, except pastureland ..... farms, 1997..	195	311	818	81	143	67	106	208
..... 1992..	180	423	1 053	99	187	113	71	160
acres on which used, 1997..	6 650	9 310	39 356	5 464	8 955	16 651	11 237	14 111
..... 1992..	6 998	9 603	49 862	7 527	8 939	22 669	10 095	8 968
Pastureland and rangeland fertilized..... farms, 1997..	11	245	373	64	94	16	45	92
..... 1992..	39	234	403	38	75	34	29	47
acres on which used, 1997..	602	8 459	17 502	2 269	7 234	397	1 290	5 719
..... 1992..	970	7 084	18 862	1 242	3 726	823	800	2 180
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	89	120	431	14	66	24	18	20
..... 1992..	94	170	783	31	160	44	63	42
acres on which used, 1997..	3 524	2 860	14 918	235	1 717	5 374	2 424	1 395
..... 1992..	3 028	3 677	18 089	1 526	4 071	6 102	952	2 818
Nematodes in crops ..... farms, 1997..	2	28	122	2	16	7	3	2
..... 1992..	5	21	279	—	13	18	1	1
acres on which used, 1997..	(D)	677	4 347	(D)	114	1 044	72	(D)
..... 1992..	170	385	6 617	—	587	1 499	(D)	(D)
Diseases in crops and orchards..... farms, 1997..	19	59	88	2	16	17	14	9
..... 1992..	20	86	102	1	31	22	—	2
acres on which used, 1997..	88	744	2 650	(D)	(D)	2 587	666	376
..... 1992..	124	1 050	2 168	(D)	367	2 668	—	(D)
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	197	79	217	37	42	53	48	69
..... 1992..	122	78	304	30	64	67	39	100
acres on which used, 1997..	9 116	3 318	13 019	3 054	4 011	14 260	6 845	3 954
..... 1992..	4 563	1 756	13 900	2 267	4 424	19 114	4 119	4 144
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	1	10	61	1	3	—	—	7
..... 1992..	8	5	79	10	2	1	8	8
acres on which used, 1997..	(D)	189	1 855	(D)	35	—	—	360
..... 1992..	218	134	2 076	202	(D)	(D)	200	270

**Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.**

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

Chemicals used	Rappahannock	Richmond	Roanoke	Rockbridge	Rockingham	Russell	Scott	Shenandoah
	Commercial fertilizer ..... farms, 1997..	147	116	134	352	828	857	1 185
..... 1992..	164	114	158	395	860	978	1 339	462
acres on which used, 1997..	9 271	20 914	3 323	22 926	51 590	17 388	21 975	20 717
..... 1992..	11 462	24 295	2 572	20 452	52 352	15 820	18 915	23 364
Cropland fertilized, except pastureland ..... farms, 1997..	110	116	119	312	788	820	1 165	408
..... 1992..	123	109	127	383	815	958	1 294	407
acres on which used, 1997..	6 503	20 695	1 983	16 573	45 321	11 537	14 979	18 380
..... 1992..	8 221	23 970	1 957	16 296	45 625	11 016	12 548	19 716
Pastureland and rangeland fertilized..... farms, 1997..	39	10	34	129	159	163	291	89
..... 1992..	86	16	33	103	205	192	278	143
acres on which used, 1997..	2 768	219	1 340	6 353	6 269	5 851	6 996	2 337
..... 1992..	3 241	325	615	4 156	6 727	4 804	6 367	3 648
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	35	52	29	54	341	129	241	96
..... 1992..	114	49	49	226	601	426	406	294
acres on which used, 1997..	385	5 348	374	2 046	20 375	1 126	1 432	8 703
..... 1992..	2 996	6 035	582	4 820	24 250	2 313	2 951	8 830
Nematodes in crops ..... farms, 1997..	1	6	1	10	61	45	48	12
..... 1992..	16	3	1	4	57	25	26	5
acres on which used, 1997..	(D)	100	(D)	658	4 154	242	387	429
..... 1992..	133	70	(D)	585	4 090	105	421	317
Diseases in crops and orchards..... farms, 1997..	20	22	19	4	46	160	257	14
..... 1992..	45	21	30	3	57	187	216	27
acres on which used, 1997..	232	910	300	61	1 683	932	862	2 873
..... 1992..	1 057	1 234	414	(D)	2 286	936	1 059	2 440
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	42	74	34	115	616	194	294	238
..... 1992..	60	87	62	133	647	270	338	213
acres on which used, 1997..	921	14 058	859	5 285	38 106	5 068	4 158	12 811
..... 1992..	1 669	16 347	1 233	5 408	41 737	5 270	2 549	10 362
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	12	7	9	1	19	18	76	14
..... 1992..	9	1	3	10	65	87	90	19
acres on which used, 1997..	265	759	290	(D)	821	374	421	1 897
..... 1992..	681	(D)	(D)	302	2 506	274	465	2 207
Chemicals used								
	Smyth	Southampton	Spotsylvania	Stafford	Surry	Sussex	Tazewell	Warren
Commercial fertilizer ..... farms, 1997..	630	231	156	89	95	105	279	94
..... 1992..	712	249	148	99	98	123	254	105
acres on which used, 1997..	20 528	78 456	11 961	5 632	24 103	32 580	9 024	4 098
..... 1992..	18 040	74 864	12 728	5 396	25 419	33 372	10 239	4 022
Cropland fertilized, except pastureland ..... farms, 1997..	545	207	131	69	90	95	247	82
..... 1992..	671	246	131	86	96	117	246	76
acres on which used, 1997..	12 284	74 690	8 733	4 670	23 587	32 056	7 144	2 679
..... 1992..	12 191	72 240	11 264	4 592	24 979	32 767	8 620	3 211
Pastureland and rangeland fertilized..... farms, 1997..	270	81	71	46	7	17	78	18
..... 1992..	160	55	40	35	14	13	59	36
acres on which used, 1997..	8 244	3 766	3 228	962	516	524	1 880	1 419
..... 1992..	5 849	2 624	1 464	804	440	605	1 619	811
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	102	172	32	10	62	66	23	3
..... 1992..	192	242	102	67	79	97	45	28
acres on which used, 1997..	1 445	59 704	822	97	15 817	15 892	302	(D)
..... 1992..	4 623	50 052	4 869	897	15 246	23 897	582	2 591
Nematodes in crops ..... farms, 1997..	9	140	1	1	41	61	1	—
..... 1992..	32	152	—	—	58	70	2	—
acres on which used, 1997..	159	37 055	(D)	(D)	4 014	9 241	(D)	—
..... 1992..	485	28 982	—	—	5 956	10 259	(D)	—
Diseases in crops and orchards..... farms, 1997..	101	109	12	6	51	45	24	12
..... 1992..	96	162	11	11	48	64	24	6
acres on which used, 1997..	427	30 940	137	69	6 922	5 667	68	535
..... 1992..	620	22 785	175	78	5 606	7 407	42	(D)
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	210	162	33	32	74	74	111	36
..... 1992..	198	222	54	27	74	90	134	29
acres on which used, 1997..	5 022	65 098	4 149	3 293	21 692	25 700	2 841	2 210
..... 1992..	8 249	68 649	6 151	1 618	23 177	29 629	3 191	850
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	30	116	—	2	19	27	12	—
..... 1992..	39	55	7	6	10	13	—	1
acres on which used, 1997..	152	36 277	—	(D)	1 761	4 783	62	—
..... 1992..	231	7 360	94	18	660	999	—	(D)

**Table 10. Agricultural Chemicals Used, Including Fertilizer: 1997 and 1992—Con.**

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

Chemicals used	Washington	Westmoreland	Wise	Wythe	York	Chesapeake (IC)	Suffolk (IC)	Virginia Beach (IC)
Commercial fertilizer ..... farms, 1997..	1 361	122	93	449	23	135	148	87
1992..	1 722	137	81	453	42	121	167	110
acres on which used, 1997..	36 325	33 196	1 961	28 406	261	42 338	47 254	16 874
1992..	29 725	34 041	2 089	25 505	(D)	35 214	50 657	27 380
Cropland fertilized, except pastureland ..... farms, 1997..	1 315	116	66	395	20	132	145	81
1992..	1 666	134	68	351	41	114	160	94
acres on which used, 1997..	22 318	32 302	1 320	18 360	(D)	42 087	43 785	16 766
1992..	21 807	33 204	1 548	18 081	(D)	34 473	49 727	26 938
Pastureland and rangeland fertilized..... farms, 1997..	379	15	41	193	4	14	31	10
1992..	306	16	28	198	2	17	19	18
acres on which used, 1997..	14 007	894	641	10 046	(D)	251	3 469	108
1992..	7 918	837	541	7 424	(D)	741	930	442
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ..... farms, 1997..	262	58	9	83	13	69	130	45
1992..	503	64	27	147	28	72	155	61
acres on which used, 1997..	3 558	7 980	36	4 685	41	18 148	35 198	3 448
1992..	5 960	7 285	171	4 872	319	8 135	30 903	14 236
Nematodes in crops ..... farms, 1997..	62	14	1	10	1	9	104	2
1992..	59	8	3	8	1	9	85	1
acres on which used, 1997..	650	1 985	(D)	259	(D)	(D)	15 030	(D)
1992..	748	2 280	6	558	(D)	(D)	12 532	(D)
Diseases in crops and orchards..... farms, 1997..	313	27	7	28	4	24	121	16
1992..	328	28	9	12	9	15	93	24
acres on which used, 1997..	1 823	2 632	25	213	4	2 797	17 920	(D)
1992..	1 348	1 584	49	842	63	606	13 437	4 808
Weeds, grass, or brush in crops and pasture ..... farms, 1997..	344	90	34	228	11	92	134	53
1992..	516	106	9	153	16	83	140	61
acres on which used, 1997..	6 918	26 170	2 158	8 203	96	39 824	46 270	15 451
1992..	9 507	27 669	523	7 325	473	26 098	48 279	27 453
Chemicals used on crops to control growth, thin fruit, or defoliate ..... farms, 1997..	82	7	4	9	1	7	33	—
1992..	143	7	2	5	—	5	8	5
acres on which used, 1997..	1 206	353	22	92	(D)	(D)	7 864	—
1992..	595	1 373	(D)	259	—	(D)	1 614	221