

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

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

Chemicals used	Virginia		Accomack		Albemarle		Alleghany		Amelia		Amherst		Appomattox	
	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982
Commercial fertilizer ----- farms,	32 186	36 864	215	300	410	419	91	95	217	353	315	282	282	338
acres on which used,	2 032 895	2 226 798	46 650	50 855	30 631	30 898	2 371	2 272	17 433	27 958	13 106	10 725	16 718	12 576
1982--														
Cropland fertilized, except pastureland ----- farms,	28 853	33 991	215	289	285	345	79	80	200	341	249	225	263	313
acres on which used,	1 646 711	1 898 780	46 504	50 600	17 966	22 921	1 616	1 594	15 680	25 523	8 004	7 809	10 899	10 398
1982--														
Pastureland and rangeland fertilized ----- farms,	10 060	9 878	4	18	234	176	34	42	50	63	116	115	110	111
acres on which used,	386 124	328 018	146	255	12 665	7 977	755	678	1 753	2 435	5 102	2 916	5 819	2 178
1982--														
Lime ----- farms,	9 154	11 149	100	142	164	157	28	38	62	106	108	91	84	130
acres on which used,	346 270	447 130	7 196	11 996	5 802	4 995	485	341	2 079	3 886	4 839	1 864	1 633	2 410
tons,	501 586	614 829	7 349	11 821	11 272	9 250	921	630	3 350	6 259	6 899	2 295	3 409	4 717
1982--														
Sprays, dusts, granules, fumigants, etc., to control—														
Insects on hay and other crops ----- farms,	11 662	11 781	171	214	76	102	17	8	96	127	25	69	91	135
acres on which used,	678 466	731 928	32 923	45 555	4 321	5 315	212	82	3 736	5 694	440	1 803	1 587	738
1982--														
Nematodes in crops ----- farms,	3 141	3 802	18	50	5	4	1	-	22	32	-	1	-	10
acres on which used,	134 215	163 290	3 297	4 354	256	(D)	(D)	(D)	433	(D)	(D)	(D)	(D)	88
1982--														
Diseases in crops and orchards ----- farms,	3 921	4 311	70	31	27	27	2	-	19	34	7	19	6	19
acres on which used,	135 909	143 271	7 158	4 280	1 218	1 029	(D)	(D)	1 447	1 582	94	65	110	29
1982--														
Weeds, grass, or brush in crops and pasture ----- farms,	13 779	13 813	193	299	185	119	30	25	115	206	63	39	113	81
acres on which used,	1 153 803	1 276 528	53 980	51 792	6 429	7 919	484	1 120	9 894	19 044	976	1 492	7 677	2 476
1982--														
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms,	1 658	2 152	17	28	10	10	-	-	18	13	2	2	6	26
acres on which used,	55 322	87 325	1 870	1 819	1 300	895	-	-	401	202	(D)	(D)	6	367
1982--														

  

Chemicals used	Arlington		Augusta		Bath		Bedford		Bland		Botetourt		Brunswick	
	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982
Commercial fertilizer ----- farms,	1	4	936	1 043	61	80	841	898	235	265	357	299	307	507
acres on which used,	(D)	4	67 470	64 388	3 289	4 755	43 742	35 026	9 766	8 893	15 314	15 158	18 998	25 529
1982--														
Cropland fertilized, except pastureland ----- farms,	1	4	806	933	52	62	744	805	218	224	296	259	293	478
acres on which used,	(D)	4	53 912	50 407	1 864	2 877	31 350	26 632	6 291	6 049	10 477	10 939	15 392	22 191
1982--														
Pastureland and rangeland fertilized ----- farms,	-	-	331	355	29	44	299	345	91	97	122	122	62	87
acres on which used,	-	-	13 558	13 981	1 425	1 878	12 392	8 394	3 475	2 844	4 837	4 219	3 606	3 338
1982--														
Lime ----- farms,	-	1	301	376	27	35	233	270	71	79	94	103	83	161
acres on which used,	-	(D)	8 827	11 643	815	1 223	6 800	5 746	1 343	1 432	2 148	2 981	3 250	4 065
tons,	-	(D)	16 579	22 380	1 019	1 696	13 025	11 758	2 876	2 494	4 168	4 854	4 168	4 978
1982--														
Sprays, dusts, granules, fumigants, etc., to control—														
Insects on hay and other crops ----- farms,	-	3	366	284	10	5	328	252	47	49	94	111	191	178
acres on which used,	-	3	22 406	16 520	352	(D)	8 400	6 519	1 779	1 325	3 602	4 796	4 185	6 442
1982--														
Nematodes in crops ----- farms,	-	-	54	40	2	4	25	18	-	1	2	2	140	148
acres on which used,	-	-	4 207	2 086	(D)	111	443	926	(D)	(D)	(D)	(D)	3 040	2 788
1982--														
Diseases in crops and orchards ----- farms,	-	1	58	56	1	3	53	59	14	10	16	14	59	48
acres on which used,	-	(D)	1 191	1 899	(D)	210	874	988	658	19	744	937	1 152	1 238
1982--														
Weeds, grass, or brush in crops and pasture ----- farms,	1	-	551	506	52	26	182	169	124	93	106	77	106	201
acres on which used,	(D)	-	37 577	31 737	2 098	1 034	7 579	6 794	3 207	2 648	4 968	4 588	8 115	15 290
1982--														
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms,	-	-	35	26	4	9	21	15	8	-	4	15	40	23
acres on which used,	-	-	1 249	1 156	31	242	447	604	67	-	290	284	1 221	1 156
1982--														

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

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

Chemicals used	Buchanan	Buckingham	Campbell	Caroline	Carroll	Charles City	Charlotte
	Commercial fertilizer ----- farms, 1987--	79	228	459	185	703	35
1982--	74	247	554	197	740	46	583
acres on which used, 1987--	562	14 508	29 092	19 883	26 271	10 999	20 462
1982--	259	12 086	27 831	32 832	24 199	12 393	21 558
Cropland fertilized, except pastureland ----- farms, 1987--	79	164	406	172	557	32	381
1982--	72	188	522	191	619	46	546
acres on which used, 1987--	505	10 300	21 318	17 979	15 074	10 744	15 743
1982--	(D)	8 787	21 292	31 681	14 485	12 185	16 267
Pastureland and rangeland fertilized ----- farms, 1987--	6	120	175	40	332	7	109
1982--	3	118	140	21	303	8	123
acres on which used, 1987--	57	4 208	7 774	1 904	11 197	255	4 719
1982--	(D)	3 309	6 539	1 151	9 714	208	5 291
Lime ----- farms, 1987--	8	69	176	66	104	16	101
1982--	6	105	119	109	206	23	130
acres on which used, 1987--	85	951	4 588	3 575	2 394	1 571	2 283
1982--	(D)	3 262	4 872	8 304	3 887	2 189	2 645
tons, 1987--	186	1 330	8 391	3 824	4 864	1 616	3 971
1982--	(D)	7 405	8 083	10 054	9 987	2 268	4 490
Sprays, dusts, granules, fumigants, etc., to control--							
Insects on hay and other crops ----- farms, 1987--	9	38	165	85	175	21	184
1982--	5	63	206	38	160	26	268
acres on which used, 1987--	12	1 119	3 974	8 915	3 211	4 442	4 716
1982--	22	1 263	5 530	5 386	3 687	5 965	5 140
Nematodes in crops ----- farms, 1987--	-	-	46	9	9	1	79
1982--	1	7	103	8	14	4	95
acres on which used, 1987--	-	-	935	520	329	(D)	1 842
1982--	(D)	189	1 812	2 061	211	68	1 195
Diseases in crops and orchards ----- farms, 1987--	15	18	5	9	109	2	36
1982--	7	-	32	17	104	3	13
acres on which used, 1987--	24	119	(D)	219	1 175	(D)	355
1982--	12	-	117	2 944	1 930	12	184
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	7	50	147	89	197	27	123
1982--	3	29	174	122	183	36	120
acres on which used, 1987--	(D)	2 823	6 325	16 141	5 355	11 269	4 990
1982--	(D)	6 617	6 775	29 494	3 905	12 171	4 922
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	8	1	16	9	45	1	43
1982--	3	-	52	-	27	3	31
acres on which used, 1987--	13	(D)	331	401	350	(D)	587
1982--	4	-	954	-	113	918	375

  

Chemicals used	Chesterfield	Clarke	Craig	Culpeper	Cumberland	Dickenson	Dinwiddie
	Commercial fertilizer ----- farms, 1987--	102	183	104	295	172	84
1982--	146	168	114	361	212	114	416
acres on which used, 1987--	5 240	21 932	5 105	32 576	7 906	1 327	20 321
1982--	5 319	20 040	4 188	44 044	9 501	1 083	26 386
Cropland fertilized, except pastureland ----- farms, 1987--	93	163	91	230	148	68	283
1982--	125	136	98	290	192	112	400
acres on which used, 1987--	4 140	16 735	3 635	24 132	5 544	650	18 614
1982--	5 051	17 139	3 188	35 423	7 936	820	25 377
Pastureland and rangeland fertilized ----- farms, 1987--	51	77	49	133	60	39	63
1982--	35	51	43	155	52	29	51
acres on which used, 1987--	1 100	5 197	1 470	8 444	2 362	677	1 707
1982--	268	2 901	1 000	8 621	1 585	263	989
Lime ----- farms, 1987--	30	70	38	129	41	15	85
1982--	52	37	33	170	84	9	134
acres on which used, 1987--	487	5 403	1 280	6 099	730	152	4 830
1982--	655	2 944	1 165	9 704	3 219	71	5 921
tons, 1987--	265	11 392	2 601	6 520	760	243	4 843
1982--	924	4 029	2 612	14 174	6 338	85	5 771
Sprays, dusts, granules, fumigants, etc., to control--							
Insects on hay and other crops ----- farms, 1987--	63	81	26	93	34	14	171
1982--	50	81	4	88	19	25	189
acres on which used, 1987--	850	6 863	353	6 177	1 127	39	8 560
1982--	589	12 164	(D)	8 657	1 049	105	7 439
Nematodes in crops ----- farms, 1987--	41	5	-	2	5	2	107
1982--	21	6	-	2	6	8	117
acres on which used, 1987--	255	694	-	(D)	60	(D)	3 219
1982--	157	1 206	-	(D)	401	48	4 178
Diseases in crops and orchards ----- farms, 1987--	41	17	-	28	5	18	46
1982--	22	28	2	41	1	14	56
acres on which used, 1987--	256	1 904	-	904	285	125	1 557
1982--	182	5 098	(D)	2 391	(D)	68	1 937
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	33	90	43	122	72	15	160
1982--	48	89	37	184	55	36	198
acres on which used, 1987--	4 489	7 239	1 107	13 563	3 290	119	18 128
1982--	3 498	12 890	1 191	26 116	3 917	150	21 560
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	2	4	5	14	3	10	1
1982--	26	12	1	15	-	8	31
acres on which used, 1987--	(D)	1 130	(D)	1 092	(D)	21	(D)
1982--	225	2 586	(D)	4 199	-	48	1 251

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

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

Chemicals used	Counties								
	Essex	Fairfax	Fauquier	Floyd	Fluvanna	Franklin	Frederick		
Commercial fertilizer ----- farms, 1987--	129	82	526	561	180	837	345		
	1982--	188	121	530	673	954	386		
	acres on which used, 1987--	28 731	1 491	54 588	21 217	8 202	57 796	24 221	
	1982--	39 979	3 121	62 484	20 954	8 629	43 380	25 812	
Cropland fertilized, except pastureland ----- farms, 1987--	124	60	405	462	124	797	296		
	1982--	168	101	446	574	111	887	349	
	acres on which used, 1987--	28 177	1 029	40 472	13 324	5 234	38 619	20 886	
	1982--	39 455	2 618	48 449	14 126	4 868	31 813	21 119	
Pastureland and rangeland fertilized ----- farms, 1987--	12	23	182	249	92	430	108		
	1982--	31	39	234	274	84	392	113	
	acres on which used, 1987--	554	462	14 116	7 893	2 968	19 177	3 335	
	1982--	524	503	14 035	6 828	3 761	11 567	4 693	
Lime ----- farms, 1987--	59	40	195	141	56	231	91		
	1982--	85	39	202	180	88	281	144	
	acres on which used, 1987--	6 645	543	7 412	2 974	1 354	6 496	2 753	
	1982--	12 059	406	13 959	3 769	4 083	5 715	4 266	
Sprays, dusts, granules, fumigants, etc., to control--	tons, 1987--	7 038	804	11 875	5 452	1 933	11 914	4 126	
	1982--	10 967	471	21 615	5 643	6 113	11 000	6 906	
	Insects on hay and other crops ----- farms, 1987--	48	21	188	94	30	325	105	
		1982--	68	64	186	138	10	400	100
acres on which used, 1987--		12 020	290	13 036	2 061	662	10 231	12 944	
1982--		9 284	382	14 396	2 265	326	12 593	11 032	
Nematodes in crops ----- farms, 1987--	3	-	9	1	-	105	4		
	1982--	6	6	20	17	-	74	14	
	acres on which used, 1987--	432	-	800	(D)	-	3 165	186	
	1982--	955	45	1 946	95	-	1 989	702	
Diseases in crops and orchards ----- farms, 1987--	3	6	62	43	-	69	66		
	1982--	1	25	56	26	-	68	102	
	acres on which used, 1987--	(D)	23	646	286	-	1 755	9 643	
	1982--	(D)	260	1 836	294	-	1 734	10 663	
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	97	65	260	114	51	296	159		
	1982--	82	32	206	146	9	257	155	
	acres on which used, 1987--	24 930	1 013	25 537	4 841	1 283	14 600	7 743	
	1982--	35 624	1 277	29 758	4 561	148	12 917	11 289	
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	2	2	35	4	-	45	37		
	1982--	6	11	47	24	-	38	53	
	acres on which used, 1987--	(D)	(D)	786	315	-	866	5 044	
	1982--	6	(D)	1 380	384	-	1 173	3 646	

  

Chemicals used	Counties								
	Giles	Gloucester	Goochland	Grayson	Greene	Greensville	Halifax	Hanover	
Commercial fertilizer ----- farms, 1987--	236	94	144	662	139	176	1 150	410	
	1982--	223	124	165	707	156	225	515	
	acres on which used, 1987--	8 522	10 475	15 032	19 216	8 698	24 649	48 059	
	1982--	5 756	15 891	14 859	14 855	8 206	32 762	41 624	
Cropland fertilized, except pastureland ----- farms, 1987--	210	90	118	603	117	176	1 092	342	
	1982--	204	119	145	636	133	225	458	
	acres on which used, 1987--	4 903	10 265	12 616	12 533	5 425	24 124	42 556	
	1982--	4 236	15 768	13 209	9 464	6 226	31 465	35 583	
Pastureland and rangeland fertilized ----- farms, 1987--	94	8	60	269	49	7	206	166	
	1982--	80	13	74	254	85	38	130	
	acres on which used, 1987--	3 619	210	2 416	6 683	3 273	525	8 905	
	1982--	1 520	123	1 650	5 391	1 980	1 297	7 963	
Lime ----- farms, 1987--	50	43	38	205	41	66	242	176	
	1982--	29	65	49	135	34	101	264	
	acres on which used, 1987--	1 097	3 284	1 771	4 581	2 133	5 717	4 070	
	1982--	411	3 624	1 329	2 502	691	10 089	4 695	
Sprays, dusts, granules, fumigants, etc., to control--	tons, 1987--	2 593	3 105	2 862	7 524	4 481	6 430	11 758	
	1982--	857	3 552	2 003	3 726	1 233	7 819	7 985	
	Insects on hay and other crops ----- farms, 1987--	17	57	43	124	19	134	605	192
		1982--	9	62	32	63	10	156	696
acres on which used, 1987--		153	6 237	2 666	2 374	547	16 556	7 181	
1982--		(D)	9 997	1 831	1 163	640	25 028	9 782	
Nematodes in crops ----- farms, 1987--	7	7	3	24	2	64	252	34	
	1982--	13	7	1	16	-	108	20	
	acres on which used, 1987--	7	118	390	474	(D)	6 550	3 021	
	1982--	201	738	(D)	442	-	8 353	7 144	
Diseases in crops and orchards ----- farms, 1987--	25	12	2	36	2	27	147	67	
	1982--	9	7	9	82	-	60	28	
	acres on which used, 1987--	161	160	(D)	97	(D)	4 774	1 758	
	1982--	(D)	20	28	461	-	6 742	1 907	
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	116	80	30	173	28	138	316	197	
	1982--	146	73	38	112	32	177	164	
	acres on which used, 1987--	4 862	11 709	3 242	6 265	1 818	25 389	10 808	
	1982--	3 332	13 394	10 785	2 015	2 305	29 745	15 717	
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	14	1	5	27	-	9	85	11	
	1982--	14	2	6	38	-	20	7	
	acres on which used, 1987--	312	(D)	90	336	-	1 336	906	
	1982--	386	(D)	(D)	148	-	1 546	1 359	

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

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

Chemicals used	Counties							
	Henrico	Henry	Highland	Isle of Wight	James City	King and Queen	King George	King William
Commercial fertilizer ----- farms, 1987..	89	251	131	207	48	121	99	101
----- farms, 1982..	98	334	135	281	55	160	120	124
acres on which used, 1987..	8 858	13 893	3 607	39 025	4 723	23 868	11 644	32 045
----- farms, 1982..	12 379	13 138	4 691	51 260	8 408	26 111	14 336	30 843
Cropland fertilized, except pastureland ----- farms, 1987..	72	216	109	206	39	112	94	93
----- farms, 1982..	92	300	103	281	49	156	113	118
acres on which used, 1987..	8 208	9 240	2 673	37 560	4 480	23 387	11 046	31 253
----- farms, 1982..	12 159	7 104	2 888	50 076	8 121	25 813	13 594	29 942
Pastureland and rangeland fertilized ----- farms, 1987..	25	141	36	32	14	25	19	24
----- farms, 1982..	14	104	43	49	12	21	23	16
acres on which used, 1987..	650	4 653	934	1 465	243	481	598	792
----- farms, 1982..	220	6 034	1 803	1 184	287	298	742	901
Lime ----- farms, 1987..	32	60	48	155	18	50	30	51
----- farms, 1982..	59	80	38	134	26	76	50	62
acres on which used, 1987..	1 330	1 197	1 251	12 252	1 042	4 718	1 632	3 476
----- farms, 1982..	3 063	3 881	480	12 348	2 499	6 650	3 795	6 467
tons, 1987..	1 375	1 150	2 485	10 260	1 172	5 503	2 002	3 442
----- farms, 1982..	4 267	4 984	895	10 914	1 990	6 922	3 839	7 695
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	42	60	22	194	20	42	58	58
----- farms, 1982..	19	124	26	230	27	57	29	25
acres on which used, 1987..	4 087	1 215	513	30 299	1 473	8 644	4 748	9 356
----- farms, 1982..	3 738	1 797	332	37 138	3 395	5 943	3 174	5 623
Nematodes in crops ----- farms, 1987..	-	12	-	119	4	4	8	2
----- farms, 1982..	2	28	-	106	8	12	-	9
acres on which used, 1987..	-	186	-	10 631	42	667	762	(D)
----- farms, 1982..	(D)	235	-	9 722	54	1 402	-	1 385
Diseases in crops and orchards ----- farms, 1987..	10	1	9	90	11	4	21	8
----- farms, 1982..	8	5	1	106	9	20	6	1
acres on which used, 1987..	(D)	(D)	76	10 672	120	(D)	422	609
----- farms, 1982..	960	5	(D)	11 404	(D)	210	79	(D)
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	29	66	55	199	27	84	60	67
----- farms, 1982..	41	70	44	234	30	112	49	86
acres on which used, 1987..	6 945	1 782	1 611	42 184	3 413	22 708	8 255	21 725
----- farms, 1982..	9 571	3 376	866	42 586	5 971	21 237	7 005	28 507
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	4	1	-	18	5	1	-	3
----- farms, 1982..	3	10	1	76	2	3	9	2
acres on which used, 1987..	10	(D)	-	1 370	218	(D)	-	186
----- farms, 1982..	30	242	(D)	6 208	(D)	180	362	(D)

  

Chemicals used	Counties							
	Lancaster	Lee	Loudoun	Louisa	Lunenburg	Madison	Mathews	Mecklenburg
Commercial fertilizer ----- farms, 1987..	70	1 326	458	296	336	329	53	594
----- farms, 1982..	78	1 310	436	319	481	382	74	850
acres on which used, 1987..	8 556	18 701	53 987	17 504	14 135	34 825	3 060	33 649
----- farms, 1982..	14 318	19 418	62 157	19 581	22 243	34 317	4 666	40 038
Cropland fertilized, except pastureland ----- farms, 1987..	70	1 298	359	237	325	276	49	570
----- farms, 1982..	78	1 265	350	302	461	329	74	792
acres on which used, 1987..	(D)	12 546	47 727	12 460	9 933	23 525	2 941	25 255
----- farms, 1982..	14 129	11 418	52 556	16 742	17 576	25 622	4 468	31 707
Pastureland and rangeland fertilized ----- farms, 1987..	1	228	171	105	82	178	8	160
----- farms, 1982..	5	245	169	100	116	145	12	225
acres on which used, 1987..	(D)	6 155	6 260	5 044	4 202	11 300	119	8 394
----- farms, 1982..	189	8 000	9 601	2 839	4 667	8 695	198	8 331
Lime ----- farms, 1987..	20	266	161	110	80	91	12	124
----- farms, 1982..	56	110	239	170	95	151	37	222
acres on which used, 1987..	867	4 887	8 800	2 550	3 618	4 170	844	3 897
----- farms, 1982..	2 356	1 506	13 914	3 770	3 487	6 846	1 358	5 751
tons, 1987..	867	12 010	11 168	4 535	5 618	7 401	845	5 621
----- farms, 1982..	2 226	2 913	19 087	5 347	6 791	12 582	1 363	10 478
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	45	219	163	95	165	100	12	376
----- farms, 1982..	33	125	226	64	218	59	23	382
acres on which used, 1987..	3 487	763	17 550	2 353	3 020	7 852	424	5 912
----- farms, 1982..	2 339	549	29 502	1 968	6 065	7 956	523	7 640
Nematodes in crops ----- farms, 1987..	7	88	29	1	102	11	-	183
----- farms, 1982..	4	38	16	6	128	7	3	172
acres on which used, 1987..	202	316	3 721	(D)	2 491	866	-	2 301
----- farms, 1982..	447	73	2 215	18	3 293	195	29	3 569
Diseases in crops and orchards ----- farms, 1987..	13	123	84	1	35	29	6	61
----- farms, 1982..	5	179	69	-	34	48	4	52
acres on which used, 1987..	90	310	3 226	(D)	595	992	94	1 348
----- farms, 1982..	11	561	6 802	-	593	589	20	1 564
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	64	377	368	61	88	154	36	237
----- farms, 1982..	80	281	242	97	126	139	42	326
acres on which used, 1987..	5 950	5 010	35 755	3 740	2 392	9 098	2 132	14 482
----- farms, 1982..	10 868	3 869	37 874	7 123	9 066	11 060	2 186	14 816
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	7	88	36	6	9	2	3	60
----- farms, 1982..	2	56	8	13	18	10	-	44
acres on which used, 1987..	(D)	227	(D)	240	273	(D)	(D)	1 238
----- farms, 1982..	(D)	156	1 763	485	190	805	-	1 314

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

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

Chemicals used	1987 and 1982							
	Middlesex	Montgomery	Nelson	New Kent	Northampton	Northumberland	Nottoway	Orange
Commercial fertilizer ----- farms, 1987..	67	368	212	51	137	148	224	260
1982..	94	307	230	72	222	178	336	286
acres on which used, 1987..	8 126	14 330	11 886	9 092	26 808	28 201	13 218	26 205
1982..	12 750	15 162	14 220	12 362	36 513	28 090	15 769	26 729
Cropland fertilized, except pastureland ----- farms, 1987..	67	308	181	45	137	145	199	216
1982..	93	275	214	71	222	178	322	242
acres on which used, 1987..	8 026	10 494	8 267	8 800	26 573	28 036	9 186	19 921
1982..	12 424	12 271	11 185	11 904	36 311	27 621	12 576	20 709
Pastureland and rangeland fertilized ----- farms, 1987..	3	122	77	11	20	11	91	108
1982..	12	113	66	14	16	22	78	110
acres on which used, 1987..	100	3 836	3 619	292	235	165	4 032	6 284
1982..	326	2 891	3 035	458	202	469	3 193	6 020
Lime ----- farms, 1987..	23	133	83	19	45	72	72	135
1982..	53	89	82	35	122	100	102	115
acres on which used, 1987..	884	6 325	4 586	1 412	4 240	4 183	1 888	6 574
1982..	3 047	3 251	2 874	3 494	11 532	7 403	1 941	5 227
tons, 1987..	1 274	11 873	6 273	1 296	4 183	4 315	3 377	12 321
1982..	3 581	5 491	5 531	3 259	11 685	8 266	2 987	7 415
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	38	52	44	26	92	92	95	98
1982..	30	135	38	26	191	113	121	65
acres on which used, 1987..	2 507	2 923	1 019	2 227	15 934	14 417	2 913	7 049
1982..	2 275	5 815	2 362	4 959	28 302	10 933	1 718	4 211
Nematodes in crops ----- farms, 1987..	1	5	1	3	8	-	55	10
1982..	5	9	7	1	12	48	74	10
acres on which used, 1987..	(D)	608	(D)	104	223	-	678	1 288
1982..	331	590	268	(D)	1 554	2 608	1 296	1 118
Diseases in crops and orchards ----- farms, 1987..	8	15	28	7	29	25	20	6
1982..	2	15	33	5	63	2	18	7
acres on which used, 1987..	193	48	1 404	141	3 363	656	830	431
1982..	(D)	601	1 841	29	4 673	(D)	133	379
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	45	123	71	28	121	125	102	114
1982..	66	143	50	41	169	163	135	113
acres on which used, 1987..	6 206	7 236	2 970	9 543	28 814	16 939	6 862	10 508
1982..	10 838	5 807	4 163	9 577	33 777	24 625	7 438	9 685
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	2	18	5	2	5	2	8	16
1982..	2	6	11	4	27	1	17	5
acres on which used, 1987..	(D)	92	557	(D)	(D)	(D)	90	464
1982..	(D)	124	482	706	611	(D)	375	(D)

  

Chemicals used	1987 and 1982							
	Page	Patrick	Pittsylvania	Powhatan	Prince Edward	Prince George	Prince William	Pulaski
Commercial fertilizer ----- farms, 1987..	238	487	1 245	125	254	132	154	230
1982..	254	667	1 766	152	363	158	157	241
acres on which used, 1987..	18 152	18 655	51 487	13 790	15 173	14 300	9 803	15 101
1982..	15 825	18 348	59 340	15 807	25 104	17 818	17 866	12 401
Cropland fertilized, except pastureland ----- farms, 1987..	184	391	1 132	106	221	115	85	156
1982..	229	596	1 668	138	337	152	145	168
acres on which used, 1987..	12 841	9 984	41 085	11 187	10 104	13 733	7 534	11 449
1982..	14 493	11 526	48 900	12 957	19 034	17 721	16 368	8 074
Pastureland and rangeland fertilized ----- farms, 1987..	87	249	347	64	107	35	93	116
1982..	50	265	423	70	98	8	39	142
acres on which used, 1987..	5 311	8 671	10 402	2 603	5 069	567	2 269	3 652
1982..	1 332	6 822	10 440	2 850	6 070	97	1 498	4 327
Lime ----- farms, 1987..	91	137	278	39	83	57	68	54
1982..	116	143	506	78	80	68	68	82
acres on which used, 1987..	2 096	2 992	9 222	1 565	2 636	3 286	1 268	1 893
1982..	3 040	3 322	11 004	2 531	1 927	2 937	4 663	3 048
tons, 1987..	3 686	5 272	17 663	2 094	5 039	3 029	1 438	3 001
1982..	4 404	6 181	16 640	4 959	3 554	3 068	6 763	4 569
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	145	158	650	42	123	66	54	54
1982..	96	171	829	45	154	47	67	32
acres on which used, 1987..	4 872	3 792	10 739	3 272	3 645	8 397	1 202	2 088
1982..	7 139	2 613	13 632	1 911	2 455	6 522	6 661	3 417
Nematodes in crops ----- farms, 1987..	2	23	410	2	46	23	6	10
1982..	9	70	576	-	37	32	4	4
acres on which used, 1987..	(D)	160	6 464	(D)	521	1 988	205	522
1982..	678	1 034	9 542	-	301	2 026	823	(D)
Diseases in crops and orchards ----- farms, 1987..	9	113	167	-	26	28	14	9
1982..	41	93	144	2	36	13	15	1
acres on which used, 1987..	9	1 496	3 823	-	163	1 477	84	14
1982..	1 808	1 346	2 993	(D)	212	1 378	(D)	(D)
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	149	101	446	47	100	87	102	104
1982..	133	221	512	61	89	95	36	93
acres on which used, 1987..	10 090	2 710	18 695	4 712	6 121	11 053	7 722	5 406
1982..	8 233	5 263	22 288	6 481	10 864	18 111	8 971	6 083
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	8	47	58	10	5	5	16	7
1982..	51	54	112	3	21	7	10	19
acres on which used, 1987..	279	480	995	47	459	(D)	270	90
1982..	3 590	938	2 144	198	336	240	(D)	298

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

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

Chemicals used	1987 and 1982							
	Rappahannock	Richmond	Roanoke	Rockbridge	Rockingham	Russell	Scott	Shenandoah
Commercial fertilizer ----- farms, 1987--	125	127	155	425	1 060	1 021	1 486	540
	154	180	181	413	1 151	1 010	1 451	562
	10 744	18 055	4 163	22 193	63 813	16 123	16 059	32 098
	11 918	22 750	6 372	16 900	67 770	13 815	12 372	27 141
Cropland fertilized, except pastureland ----- farms, 1987--	104	127	142	369	949	991	1 454	499
	95	180	164	374	1 084	1 009	1 447	507
	7 815	17 865	3 323	14 351	52 576	12 517	11 580	26 042
	7 972	22 580	4 255	13 291	59 101	9 695	8 104	22 610
Pastureland and rangeland fertilized ----- farms, 1987--	52	11	41	156	333	173	262	157
	72	17	48	137	271	220	226	143
	2 929	190	840	7 842	11 237	3 606	4 479	6 056
	3 946	170	2 117	3 609	8 669	4 120	4 268	4 531
Lime ----- farms, 1987--	36	51	33	112	313	138	192	136
	59	73	43	66	311	196	225	130
	1 569	2 863	369	2 493	11 822	2 135	2 126	6 115
	3 093	3 735	2 312	1 049	10 135	1 909	1 699	3 633
Sprays, dusts, granules, fumigants, etc., to control--	1 338	3 002	526	4 895	20 153	4 471	3 096	10 914
	3 387	3 904	4 277	1 866	17 640	3 638	3 344	5 236
	40	84	83	140	512	232	294	221
	37	60	76	100	525	92	253	222
Insects on hay and other crops ----- farms, 1987--	1 037	8 883	1 024	4 773	27 122	2 083	1 667	11 393
	5 466	4 862	926	4 001	28 123	681	1 337	11 793
	1	8	-	1	38	35	51	12
	1	1	3	12	71	6	50	15
Nematodes in crops ----- farms, 1987--	(D)	234	(D)	(D)	2 458	279	104	1 301
	(D)	(D)	(D)	391	3 891	26	139	736
	39	11	54	22	42	151	190	37
	50	4	46	7	64	215	345	41
Diseases in crops and orchards ----- farms, 1987--	1 198	256	760	63	2 944	365	887	3 431
	1 760	35	425	162	2 904	660	1 155	2 651
	32	110	73	207	703	382	452	278
	45	83	37	171	722	227	309	225
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	1 709	14 418	888	7 609	47 221	11 862	5 540	14 270
	4 951	12 520	653	5 905	38 391	5 391	3 602	14 644
	18	-	19	33	39	80	80	13
	17	-	3	3	51	78	118	39
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	482	-	162	855	2 773	384	291	1 031
	827	-	(D)	(D)	4 093	336	413	2 104

  

Chemicals used	1987 and 1982							
	Smyth	Southampton	Spotsylvania	Stafford	Surry	Sussex	Tazewell	Warren
Commercial fertilizer ----- farms, 1987--	704	341	227	113	109	156	287	127
	776	417	185	138	171	206	273	117
	19 059	60 713	14 641	9 718	20 997	29 556	10 802	7 948
	15 720	67 821	23 645	9 700	25 030	39 923	10 656	5 080
Cropland fertilized, except pastureland ----- farms, 1987--	674	341	187	85	104	152	276	109
	745	392	166	121	201	272	272	106
	13 152	58 371	11 234	6 241	20 171	28 890	8 104	5 097
	12 458	64 974	20 824	8 197	24 651	39 161	9 208	3 981
Pastureland and rangeland fertilized ----- farms, 1987--	216	62	112	76	18	15	88	39
	143	70	58	65	6	28	63	45
	5 907	2 342	3 407	3 477	826	666	2 698	2 851
	3 262	2 847	2 821	1 503	379	762	1 448	1 099
Lime ----- farms, 1987--	117	179	66	50	64	93	109	43
	187	230	93	56	109	119	85	32
	3 105	12 484	1 913	1 365	4 991	7 461	2 100	1 173
	2 535	18 773	4 461	1 528	6 711	9 842	2 413	850
Sprays, dusts, granules, fumigants, etc., to control--	5 942	10 214	2 726	1 931	5 053	6 526	3 274	1 872
	5 356	15 272	6 953	2 559	5 439	8 238	4 555	1 237
	186	279	41	25	96	159	36	37
	106	331	62	30	129	137	29	28
Insects on hay and other crops ----- farms, 1987--	4 171	45 336	2 429	940	15 332	28 354	1 298	1 321
	2 714	46 051	9 261	1 959	16 746	31 786	1 619	1 136
	22	214	2	-	43	107	7	1
	2	219	14	2	70	109	-	-
Nematodes in crops ----- farms, 1987--	323	24 917	(D)	(D)	4 073	10 875	220	(D)
	(D)	27 113	1 635	(D)	5 483	12 736	-	-
	149	141	25	2	42	80	8	13
	99	150	22	8	70	94	32	7
Diseases in crops and orchards ----- farms, 1987--	1 011	18 965	863	(D)	4 332	6 164	143	1 467
	1 189	13 163	2 932	16	3 694	8 309	60	993
	303	275	85	55	94	148	113	41
	179	355	84	47	150	176	112	32
Weeds, grass, or brush in crops and pasture ----- farms, 1987--	10 910	64 354	6 513	3 978	20 292	33 443	3 513	1 901
	7 710	73 424	10 248	3 440	21 424	37 201	3 185	1 243
	34	17	1	12	4	26	2	1
	22	113	1	2	47	32	3	1
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987--	426	2 079	(D)	46	848	1 965	(D)	(D)
	678	9 356	(D)	(D)	2 669	4 517	(D)	(D)

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

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

Chemicals used	Washington	Westmoreland	Wise	Wythe	York	Chesapeake (IC)	Suffolk (IC)	Virginia Beach (IC)
Commercial fertilizer ----- farms, 1987..	1 731	172	95	526	43	166	261	110
1982..	1 894	199	86	459	46	211	312	153
acres on which used, 1987..	30 407	31 510	1 538	31 097	(D)	28 376	45 929	21 570
1982..	35 314	33 456	1 268	23 825	1 193	42 228	47 696	32 582
Cropland fertilized, except pastureland ----- farms, 1987..	1 695	172	86	430	41	155	244	100
1982..	1 844	199	78	392	44	197	300	137
acres on which used, 1987..	21 541	30 525	1 093	21 331	(D)	28 055	44 418	21 483
1982..	26 128	33 159	879	17 322	(D)	41 954	47 098	32 232
Pastureland and rangeland fertilized ----- farms, 1987..	402	31	23	229	2	23	40	11
1982..	357	7	36	175	3	24	28	37
acres on which used, 1987..	8 866	985	445	9 766	(D)	321	1 511	87
1982..	9 186	297	389	6 503	(D)	274	598	350
Lime ----- farms, 1987..	216	77	16	200	8	66	124	31
1982..	317	106	21	135	13	93	153	50
acres on which used, 1987..	4 600	3 698	168	6 597	168	4 107	8 965	3 203
1982..	3 732	6 464	296	5 070	125	6 636	13 744	9 785
tons, 1987..	7 497	3 982	210	11 601	199	4 829	8 187	3 677
1982..	7 785	7 278	470	9 416	101	9 108	11 419	14 156
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops ----- farms, 1987..	374	97	18	133	29	111	191	71
1982..	194	96	20	84	25	130	222	85
acres on which used, 1987..	5 447	13 541	95	5 413	385	21 118	35 583	17 007
1982..	4 825	6 758	115	5 112	217	21 563	26 039	18 741
Nematodes in crops ----- farms, 1987..	106	18	-	38	1	14	150	9
1982..	44	16	6	25	2	22	139	1
acres on which used, 1987..	853	956	-	1 326	(D)	1 258	11 386	21
1982..	648	215	10	930	(D)	2 311	11 612	(D)
Diseases in crops and orchards ----- farms, 1987..	369	28	23	26	15	33	133	17
1982..	528	18	13	6	8	11	126	30
acres on which used, 1987..	1 102	431	176	466	95	835	11 357	948
1982..	2 301	257	97	48	109	(D)	7 439	881
Weeds, grass, or brush in crops and pasture ----- farms, 1987..	620	146	10	268	23	126	210	72
1982..	564	115	15	213	16	202	243	127
acres on which used, 1987..	14 818	26 514	126	10 833	870	29 842	49 985	19 055
1982..	16 853	22 531	(D)	9 976	579	36 381	44 692	21 763
Chemicals used for defoliation or for growth control of crops or thinning of fruit ----- farms, 1987..	138	9	5	24	3	10	20	9
1982..	180	12	3	11	1	15	56	-
acres on which used, 1987..	589	121	5	468	(D)	63	1 261	9
1982..	1 019	(D)	(D)	450	(D)	71	2 932	-