

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	California	Alameda	Alpine	Amador	Butte	Calaveras	Colusa	Contra Costa
	Commercial fertilizer farms, 1997..	41 776	116	—	92	1 361	41	621
..... acres on which used, 1997..	42 089	72	2	97	1 311	55	643	196
..... farms, 1992..	7 215 345	4 386	—	5 551	209 854	948	255 546	19 638
..... acres on which used, 1992..	6 462 299	2 863	(D)	4 358	156 240	764	196 725	16 299
Cropland fertilized, except pastureland farms, 1997..	40 460	116	—	85	1 324	41	620	137
..... acres on which used, 1997..	40 880	68	1	81	1 290	39	637	195
..... farms, 1992..	7 096 039	4 386	—	5 371	209 380	948	(D)	17 965
..... acres on which used, 1992..	6 360 633	2 847	(D)	2 911	156 130	583	196 432	(D)
Pastureland and rangeland fertilized..... farms, 1997..	1 844	—	—	8	59	—	2	5
..... acres on which used, 1997..	1 670	4	2	17	28	18	17	8
..... farms, 1992..	119 306	—	—	180	474	—	(D)	1 673
..... acres on which used, 1992..	101 666	16	(D)	1 447	110	181	293	(D)
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	28 451	62	1	66	788	18	409	122
..... acres on which used, 1997..	30 022	51	1	46	834	27	496	167
..... farms, 1992..	5 463 091	3 331	(D)	1 846	113 362	542	121 200	13 365
..... acres on which used, 1992..	5 097 607	3 364	(D)	1 315	107 436	221	120 896	15 815
Nematodes in crops farms, 1997..	3 553	16	—	1	37	—	8	1
..... acres on which used, 1997..	3 520	6	—	—	14	1	29	17
..... farms, 1992..	464 965	372	—	(D)	5 245	—	6 391	(D)
..... acres on which used, 1992..	403 609	(D)	—	—	176	(D)	7 793	86
Diseases in crops and orchards..... farms, 1997..	16 207	30	—	51	643	27	179	84
..... acres on which used, 1997..	14 693	20	—	46	571	24	141	89
..... farms, 1992..	1 980 251	1 706	—	1 730	78 735	455	29 720	6 060
..... acres on which used, 1992..	1 580 709	1 998	—	1 471	53 543	225	22 272	3 882
Weeds, grass, or brush in crops and pasture farms, 1997..	28 807	80	2	80	930	71	518	148
..... acres on which used, 1997..	28 292	68	1	81	1 000	43	496	124
..... farms, 1992..	5 001 218	6 607	(D)	5 588	146 776	2 306	184 228	10 925
..... acres on which used, 1992..	4 468 959	5 913	(D)	2 757	116 557	533	150 915	17 035
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	5 231	14	—	10	74	4	17	21
..... acres on which used, 1997..	4 673	1	—	—	74	1	34	3
..... farms, 1992..	1 196 433	193	—	451	14 939	112	3 677	1 903
..... acres on which used, 1992..	1 185 488	(D)	—	—	6 371	(D)	4 052	44

Chemicals used	Del Norte	El Dorado	Fresno	Glenn	Humboldt	Imperial	Inyo	Kern
	Commercial fertilizer farms, 1997..	29	264	4 420	853	189	434	19
..... acres on which used, 1997..	37	279	4 596	771	212	489	17	1 140
..... farms, 1992..	4 894	1 425	1 009 475	199 910	10 309	383 747	1 728	806 071
..... acres on which used, 1992..	4 116	3 601	876 987	173 881	11 348	396 831	3 924	657 365
Cropland fertilized, except pastureland farms, 1997..	14	258	4 371	799	123	422	17	1 162
..... acres on which used, 1997..	18	248	4 548	737	146	483	17	1 136
..... farms, 1992..	1 832	1 401	1 007 162	196 689	3 280	379 431	(D)	805 589
..... acres on which used, 1992..	936	2 622	874 719	171 461	3 139	395 597	(D)	657 308
Pastureland and rangeland fertilized..... farms, 1997..	20	6	70	71	81	15	2	19
..... acres on which used, 1997..	23	37	89	41	75	11	1	14
..... farms, 1992..	3 062	24	2 313	3 221	7 029	4 316	(D)	482
..... acres on which used, 1992..	3 180	979	2 268	2 420	8 209	1 234	(D)	57
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	7	144	4 439	417	33	348	11	1 050
..... acres on which used, 1997..	7	183	4 880	443	40	408	8	987
..... farms, 1992..	470	1 791	963 928	113 209	365	316 061	202	668 814
..... acres on which used, 1992..	473	1 669	812 913	94 972	648	322 478	(D)	616 881
Nematodes in crops farms, 1997..	4	6	711	8	1	57	1	141
..... acres on which used, 1997..	5	8	628	19	13	38	2	170
..... farms, 1992..	400	12	89 085	2 090	(D)	29 126	(D)	69 461
..... acres on which used, 1992..	462	17	57 471	1 772	69	12 234	(D)	71 008
Diseases in crops and orchards..... farms, 1997..	6	179	1 946	278	28	76	6	569
..... acres on which used, 1997..	4	179	1 444	243	57	60	5	418
..... farms, 1992..	469	1 546	277 639	43 823	385	57 141	6	264 568
..... acres on which used, 1992..	412	1 739	176 095	37 773	478	24 546	17	216 721
Weeds, grass, or brush in crops and pasture farms, 1997..	6	229	3 814	637	19	274	14	897
..... acres on which used, 1997..	9	148	3 782	608	48	311	9	778
..... farms, 1992..	570	1 355	772 186	146 188	2 133	236 525	1 693	489 793
..... acres on which used, 1992..	836	1 694	633 782	123 644	2 233	213 286	706	495 699
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	—	81	1 177	60	1	51	2	331
..... acres on which used, 1997..	3	62	1 172	42	8	30	—	412
..... farms, 1992..	—	398	337 069	5 409	(D)	12 356	(D)	264 429
..... acres on which used, 1992..	(D)	591	316 765	5 286	(D)	8 146	—	262 595

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	Kings	Lake	Lassen	Los Angeles	Madera	Marin	Mariposa	Mendocino
	Commercial fertilizer farms, 1997..	657	338	124	486	978	45	17
..... farms, 1992..	692	292	124	454	955	36	10	355
acres on which used, 1997..	387 592	10 692	19 369	15 154	236 416	1 392	300	17 245
..... farms, 1992..	378 304	11 873	13 852	14 780	215 166	2 539	(D)	13 131
Cropland fertilized, except pastureland farms, 1997..	646	338	124	486	966	43	13	378
..... farms, 1992..	672	286	123	454	937	34	8	330
acres on which used, 1997..	387 199	(D)	16 041	(D)	232 152	(D)	272	16 202
..... farms, 1992..	377 962	11 483	11 359	14 653	211 414	1 682	8	12 377
Pastureland and rangeland fertilized..... farms, 1997..	13	5	32	2	14	6	4	26
..... farms, 1992..	21	8	9	8	23	10	2	29
acres on which used, 1997..	393	(D)	3 328	(D)	4 264	(D)	28	1 043
..... farms, 1992..	342	390	2 493	127	3 752	857	(D)	754
Sprays, dusts, granules, fumigants, etc., to control—								
Insects on hay and other crops farms, 1997..	555	182	27	220	874	12	6	233
..... farms, 1992..	624	192	14	278	894	17	—	305
acres on which used, 1997..	333 573	7 056	3 234	11 020	190 605	(D)	175	13 335
..... farms, 1992..	341 718	8 233	1 419	10 823	182 555	251	—	14 530
Nematodes in crops farms, 1997..	40	10	5	15	83	—	—	12
..... farms, 1992..	28	23	6	18	38	1	—	21
acres on which used, 1997..	8 477	30	670	2 603	28 037	—	—	471
..... farms, 1992..	4 421	1 172	839	860	6 730	(D)	—	1 842
Diseases in crops and orchards..... farms, 1997..	127	134	6	106	527	2	5	145
..... farms, 1992..	185	139	3	93	332	11	9	154
acres on which used, 1997..	21 960	5 382	671	6 035	89 589	(D)	45	8 714
..... farms, 1992..	39 137	5 790	(D)	2 695	65 230	22	18	7 181
Weeds, grass, or brush in crops and pasture farms, 1997..	451	186	48	273	916	41	17	250
..... farms, 1992..	438	158	52	209	752	55	48	202
acres on which used, 1997..	315 348	6 406	5 030	10 253	177 764	3 709	746	10 439
..... farms, 1992..	269 977	6 492	6 380	9 595	147 046	8 257	1 112	8 777
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	203	16	21	7	188	3	5	19
..... farms, 1992..	301	43	—	11	207	—	—	10
acres on which used, 1997..	191 732	965	615	(D)	34 864	3	95	625
..... farms, 1992..	239 789	1 276	—	(D)	51 052	—	—	69

Chemicals used	Merced	Modoc	Mono	Monterey	Napa	Nevada	Orange
	Commercial fertilizer farms, 1997..	1 798	254	19	782	836	69
..... farms, 1992..	1 748	172	15	692	629	87	218
acres on which used, 1997..	357 215	69 179	3 713	258 981	26 840	353	10 544
..... farms, 1992..	327 023	45 773	3 974	227 045	27 095	1 433	14 516
Cropland fertilized, except pastureland farms, 1997..	1 739	232	19	775	829	49	228
..... farms, 1992..	1 712	156	14	679	619	63	218
acres on which used, 1997..	352 859	63 757	(D)	(D)	26 766	179	10 544
..... farms, 1992..	321 380	44 896	(D)	226 147	26 898	1 154	14 516
Pastureland and rangeland fertilized..... farms, 1997..	108	49	1	9	8	20	—
..... farms, 1992..	50	17	2	18	11	25	—
acres on which used, 1997..	4 356	5 422	(D)	(D)	74	174	—
..... farms, 1992..	5 643	877	(D)	898	197	279	—
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	1 304	109	8	533	451	16	136
..... farms, 1992..	1 270	82	4	520	388	56	140
acres on which used, 1997..	308 098	36 419	658	213 964	21 656	109	8 108
..... farms, 1992..	264 464	34 417	(D)	175 385	16 497	364	13 696
Nematodes in crops farms, 1997..	238	20	—	136	36	—	31
..... farms, 1992..	257	14	4	154	58	12	29
acres on which used, 1997..	18 227	2 830	—	46 094	731	—	1 982
..... farms, 1992..	22 674	1 233	482	47 095	3 971	60	5 950
Diseases in crops and orchards..... farms, 1997..	792	51	3	304	577	30	71
..... farms, 1992..	662	41	3	288	492	15	93
acres on which used, 1997..	98 171	10 985	(D)	115 552	27 266	211	5 094
..... farms, 1992..	83 057	5 372	(D)	120 884	28 169	129	8 706
Weeds, grass, or brush in crops and pasture farms, 1997..	1 396	166	9	455	540	52	111
..... farms, 1992..	1 208	85	10	401	513	80	127
acres on which used, 1997..	248 623	42 129	833	187 172	20 107	202	3 967
..... farms, 1992..	191 360	30 770	1 892	145 816	27 038	1 092	10 471
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	278	17	1	67	87	—	6
..... farms, 1992..	214	9	1	62	10	—	3
acres on which used, 1997..	65 321	2 243	(D)	20 248	2 426	—	1 230
..... farms, 1992..	65 790	1 060	(D)	11 447	138	—	(D)

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

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Chemicals used	Placer	Plumas	Riverside	Sacramento	San Benito	San Bernardino	San Diego
	Commercial fertilizer farms, 1997..	286	17	1 550	602	200	440
..... farms, 1992..	347	23	1 831	556	222	583	4 489
acres on which used, 1997..	27 228	5 687	221 727	107 959	27 402	15 891	49 020
..... farms, 1992..	22 251	3 103	185 784	107 378	31 463	18 393	56 800
Cropland fertilized, except pastureland farms, 1997..	229	15	1 536	517	200	440	4 027
..... farms, 1992..	265	21	1 816	500	214	552	4 479
acres on which used, 1997..	23 560	(D)	221 074	104 324	27 138	15 891	48 692
..... farms, 1992..	18 783	(D)	185 420	104 513	31 271	18 284	56 584
Pastureland and rangeland fertilized..... farms, 1997..	65	2	29	96	20	—	30
..... farms, 1992..	99	2	17	82	8	31	12
acres on which used, 1997..	3 668	(D)	653	3 635	264	—	328
..... farms, 1992..	3 468	(D)	364	2 865	192	109	216
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	111	2	897	296	149	249	1 544
..... farms, 1992..	160	6	1 169	246	152	379	1 776
acres on which used, 1997..	11 842	(D)	148 186	59 729	17 505	18 486	43 397
..... farms, 1992..	9 475	(D)	149 139	48 209	22 880	16 908	38 052
Nematodes in crops farms, 1997..	2	—	66	3	17	20	90
..... farms, 1992..	1	—	88	20	6	20	109
acres on which used, 1997..	(D)	—	14 990	(D)	627	75	3 531
..... farms, 1992..	(D)	—	9 351	5 122	2 205	342	2 728
Diseases in crops and orchards..... farms, 1997..	69	1	315	145	118	124	659
..... farms, 1992..	81	1	347	128	89	103	792
acres on which used, 1997..	2 859	(D)	44 254	18 989	11 054	3 671	8 985
..... farms, 1992..	1 976	(D)	27 021	17 594	8 539	3 067	11 949
Weeds, grass, or brush in crops and pasture farms, 1997..	175	10	915	296	115	222	1 607
..... farms, 1992..	243	12	936	374	122	339	1 734
acres on which used, 1997..	17 500	3 066	150 213	66 010	16 002	11 641	17 036
..... farms, 1992..	15 476	1 559	110 353	78 290	24 500	12 898	25 842
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	9	—	129	17	16	49	169
..... farms, 1992..	4	—	148	32	12	17	172
acres on which used, 1997..	(D)	—	24 698	3 347	2 275	679	2 402
..... farms, 1992..	185	—	25 225	8 118	1 289	795	1 309

Chemicals used	San Francisco	San Joaquin	San Luis Obispo	San Mateo	Santa Barbara	Santa Clara	Santa Cruz
	Commercial fertilizer farms, 1997..	6	2 524	788	85	781	435
..... farms, 1992..	5	2 430	668	94	920	417	433
acres on which used, 1997..	17	424 442	75 541	3 206	85 677	15 592	15 296
..... farms, 1992..	5	396 123	61 129	3 569	71 624	14 672	19 853
Cropland fertilized, except pastureland farms, 1997..	6	2 470	751	85	746	427	362
..... farms, 1992..	5	2 374	597	94	899	416	433
acres on which used, 1997..	17	417 231	71 778	(D)	84 450	15 427	15 278
..... farms, 1992..	5	389 969	57 807	3 569	70 212	(D)	19 853
Pastureland and rangeland fertilized..... farms, 1997..	—	72	57	1	52	13	9
..... farms, 1992..	—	89	72	—	41	1	—
acres on which used, 1997..	—	7 211	3 763	(D)	1 227	165	18
..... farms, 1992..	—	6 154	3 322	—	1 412	(D)	—
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	1	1 996	404	43	434	238	260
..... farms, 1992..	5	1 968	414	80	514	301	325
acres on which used, 1997..	(D)	309 671	32 550	2 564	60 396	8 788	14 562
..... farms, 1992..	5	298 806	44 190	3 032	53 963	10 788	17 619
Nematodes in crops farms, 1997..	—	335	26	11	69	36	58
..... farms, 1992..	—	257	81	17	75	11	56
acres on which used, 1997..	—	23 936	7 089	946	12 046	909	5 039
..... farms, 1992..	—	24 854	7 156	635	18 559	470	2 617
Diseases in crops and orchards..... farms, 1997..	—	1 420	217	25	162	246	191
..... farms, 1992..	—	1 190	172	60	280	166	197
acres on which used, 1997..	—	152 433	18 695	1 512	29 798	5 543	8 050
..... farms, 1992..	—	102 336	13 638	1 531	29 782	4 171	6 887
Weeds, grass, or brush in crops and pasture farms, 1997..	—	2 074	472	37	453	194	213
..... farms, 1992..	—	2 119	386	45	544	151	197
acres on which used, 1997..	—	325 145	44 321	2 290	64 588	7 041	7 225
..... farms, 1992..	—	283 676	37 865	983	46 419	10 652	7 629
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	—	240	51	5	43	17	34
..... farms, 1992..	—	89	22	14	27	22	52
acres on which used, 1997..	—	37 809	1 442	27	1 481	200	1 243
..... farms, 1992..	—	12 746	639	85	1 735	1 234	1 530

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	Shasta	Sierra	Siskiyou	Solano	Sonoma	Stanislaus	Sutter
	Commercial fertilizer farms, 1997..	286	7	335	326	1 243	2 493
..... farms, 1992..	298	9	272	371	1 018	2 507	1 125
acres on which used, 1997..	12 850	293	85 077	110 909	52 615	261 924	246 963
..... farms, 1992..	26 145	409	52 484	100 035	39 288	245 049	214 243
Cropland fertilized, except pastureland farms, 1997..	202	7	255	326	1 195	2 343	972
..... farms, 1992..	222	9	247	353	942	2 429	1 113
acres on which used, 1997..	10 384	293	63 301	110 909	45 369	250 620	245 528
..... farms, 1992..	18 075	409	49 098	99 280	33 876	236 464	213 835
Pastureland and rangeland fertilized..... farms, 1997..	86	—	121	—	57	182	19
..... farms, 1992..	93	—	48	—	95	143	23
acres on which used, 1997..	2 466	—	21 776	—	7 246	11 304	1 435
..... farms, 1992..	8 070	—	3 386	755	5 412	8 585	408
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	92	2	98	289	693	1 803	821
..... farms, 1992..	91	2	84	314	647	1 939	838
acres on which used, 1997..	835	(D)	16 502	63 619	31 112	216 524	152 799
..... farms, 1992..	7 903	(D)	22 958	61 957	28 750	212 013	137 172
Nematodes in crops farms, 1997..	1	—	11	13	98	406	60
..... farms, 1992..	30	—	20	28	81	347	92
acres on which used, 1997..	(D)	—	2 354	3 595	4 684	15 699	4 620
..... farms, 1992..	762	—	2 932	521	3 474	12 282	14 507
Diseases in crops and orchards..... farms, 1997..	64	—	37	143	693	1 314	545
..... farms, 1992..	64	—	36	143	573	1 228	517
acres on which used, 1997..	201	—	11 419	13 105	25 678	126 217	58 379
..... farms, 1992..	1 180	—	5 164	8 409	21 338	98 044	52 591
Weeds, grass, or brush in crops and pasture farms, 1997..	107	6	142	261	784	1 914	678
..... farms, 1992..	130	8	153	234	795	1 967	561
acres on which used, 1997..	2 698	325	27 893	68 721	38 367	200 308	160 710
..... farms, 1992..	8 095	314	40 783	56 878	40 578	184 243	129 777
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	25	—	5	19	146	218	74
..... farms, 1992..	2	—	15	65	71	97	60
acres on which used, 1997..	61	—	482	2 898	3 539	12 684	7 347
..... farms, 1992..	(D)	—	1 388	4 848	1 061	8 222	3 446
Chemicals used	Tehama	Trinity	Tulare	Tuolumne	Ventura	Yolo	Yuba
Commercial fertilizer farms, 1997..	642	40	3 788	31	1 649	593	438
..... farms, 1992..	648	31	3 705	13	1 721	547	410
acres on which used, 1997..	58 188	1 705	527 388	322	93 583	286 694	73 682
..... farms, 1992..	55 324	282	495 371	(D)	99 385	269 397	68 321
Cropland fertilized, except pastureland farms, 1997..	572	35	3 752	30	1 648	581	377
..... farms, 1992..	615	26	3 683	11	1 720	529	367
acres on which used, 1997..	53 594	635	525 583	(D)	93 391	285 642	72 585
..... farms, 1992..	47 325	64	494 474	60	99 057	268 554	61 879
Pastureland and rangeland fertilized..... farms, 1997..	102	14	54	1	21	23	63
..... farms, 1992..	54	8	31	2	10	23	50
acres on which used, 1997..	4 594	1 070	1 805	(D)	192	1 052	1 097
..... farms, 1992..	7 999	218	897	(D)	328	843	6 442
Sprays, dusts, granules, fumigants, etc., to control—							
Insects on hay and other crops farms, 1997..	319	7	3 422	9	995	407	289
..... farms, 1992..	311	11	3 430	17	836	357	288
acres on which used, 1997..	32 990	124	467 249	164	73 495	158 840	53 198
..... farms, 1992..	32 503	25	441 846	125	77 005	147 695	47 075
Nematodes in crops farms, 1997..	44	—	347	—	152	40	30
..... farms, 1992..	18	3	331	—	186	16	14
acres on which used, 1997..	544	—	27 886	—	13 364	6 184	2 533
..... farms, 1992..	464	3	23 199	—	17 168	3 447	1 579
Diseases in crops and orchards..... farms, 1997..	259	8	1 655	8	457	180	170
..... farms, 1992..	298	18	1 645	7	433	156	148
acres on which used, 1997..	22 958	26	157 168	152	43 819	33 433	27 026
..... farms, 1992..	24 562	44	123 881	7	47 848	38 214	23 047
Weeds, grass, or brush in crops and pasture farms, 1997..	402	9	3 248	18	1 147	455	223
..... farms, 1992..	380	11	3 110	17	1 181	402	297
acres on which used, 1997..	33 283	(D)	370 925	904	61 343	219 122	44 515
..... farms, 1992..	37 345	(D)	365 996	256	73 475	201 873	41 274
Chemicals used on crops to control growth, thin fruit, or defoliate farms, 1997..	54	4	885	6	178	29	48
..... farms, 1992..	5	—	880	1	97	34	22
acres on which used, 1997..	3 027	8	108 023	150	7 904	7 954	4 324
..... farms, 1992..	654	—	123 182	(D)	2 465	7 894	687