

Appendix 3: Agricultural Pesticide Use by Crop

Any California crop with more than 4,000 acres planted in 1998 is included in this appendix. The intensity values in this appendix are not identical to those in Tables 2-2 and 2-4 because the appendix is based on 1998 pesticide use and acreage, while the values in Tables 2-2 and 2-4 are an *average* intensity for each crop calculated for the eight-year period 1991–1998.

	Pounds of Active Ingredients Applied to Acreage in 1998 ^a			Intensity in 1998 (Pounds of active ingredients per acre planted)	
	All Pesticides	CA Bad Actor Pesticides	Acres Planted 1998	All Pesticides	CA Bad Actor Pesticides
Field Crops	29,776,751	12,750,906	4,175,306	7.13	3.05
Alfalfa	3,778,230	1,766,474	999,333	3.78	1.77
Barley	68,579	9,455	81,190	0.84	0.12
Beans	86,823	68,916	26,211	3.31	2.63
Beets	26,025	17,124	3,789	6.87	4.52
Bermudagrass	374,415	17,599	30,782	12.16	0.57
Clover	19,652	5,636	6,455	3.04	0.87
Corn	413,559	299,379	83,671	4.94	3.58
Corn for forage	989,427	719,087	366,765	2.70	1.96
Cotton	9,490,717	4,165,844	1,025,079	9.26	4.06
Dried beans	336,294	228,797	88,982	3.78	2.57
Grass	17,331	7,900	12,281	1.41	0.64
Oats for forage	39,537	17,940	28,377	1.39	0.63
Oats	57,853	17,360	72,892	0.79	0.24
Potatoes	1,988,211	1,877,441	54,548	36.45	34.42
Rape seed	3,979	1,622	3,246	1.23	0.50
Rice	4,933,843	1,769,495	458,398	10.76	3.86
Rice, wild	117,368	1,089	4,226	27.77	0.26
Safflower	170,232	68,977	83,392	2.04	0.83
Sorghum for forage	5,252	4,098	3,584	1.47	1.14
Sorghum	15,093	4,699	6,793	2.22	0.69
Succulent beans	196,156	112,161	26,541	7.39	4.23
Sudangrass	23,166	17,560	16,909	1.37	1.04
Sugarbeets	4,996,005	381,062	150,901	33.11	2.53
Sunflowers	65,065	7,273	23,731	2.74	0.31
Sweet potatoes	1,037,536	1,036,337	7,767	133.58	133.43
Wheat	518,602	124,855	503,210	1.03	0.25
Wheat for forage	7,802	2,729	6,256	1.25	0.44

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	All Pesticides	CA Bad Actor Pesticides	Acres Planted 1998	All Pesticides	CA Bad Actor Pesticides
Forests	139,849	29,579	578,147	0.24	0.05
Fruits and Nuts	129,984,844	18,562,749	2,529,556	51.39	7.34
Almonds	16,072,835	3,852,644	573,815	28.01	6.71
Apples	1,635,179	371,985	40,230	40.65	9.25
Apricots	513,529	67,889	20,562	24.97	3.30
Avocados	405,907	22,815	37,963	10.69	0.60
Cherries	765,002	100,969	19,340	39.55	5.22
Dates	108,688	19,431	2,963	36.69	6.56
Figs	30,629	423	12,664	2.42	0.03
Grapefruit	330,632	33,918	15,951	20.73	2.13
Grapes, table and raisin	34,704,452	1,463,001	455,761	76.15	3.21
Grapes, wine	34,421,332	1,356,858	444,077	77.51	3.06
Kiwifruit	40,107	3,632	3,254	12.33	1.12
Lemons	3,905,047	221,350	53,410	73.12	4.14
Nectarines	2,105,319	319,531	41,832	50.33	7.64
Olives	472,911	63,024	27,237	17.36	2.31
Oranges	10,135,450	1,080,749	206,967	48.97	5.22
Peaches	4,646,173	629,486	78,064	59.52	8.06
Pears	2,558,217	249,146	20,314	125.93	12.26
Pistachios	1,504,337	131,009	89,095	16.88	1.47
Plums	1,724,237	197,014	37,348	46.17	5.28
Pomegranates	84,149	1,553	3,505	24.01	0.44
Prunes	2,620,364	346,579	97,496	26.88	3.55
Strawberries	7,212,200	6,680,546	47,612	151.48	140.31
Tangerines	166,273	13,742	7,336	22.67	1.87
Walnuts	3,821,875	1,335,455	192,762	19.83	6.93
Livestock	37,547	1,479	145,819	0.26	0.01
Pasture	19,210	1,197	28,515	0.67	0.04
Rangeland	18,337	283	117,304	0.16	0.00
Non-agricultural Uses	346,355	291,658	40,935	8.46	7.12
Landscape maintenance	40,181	39,034	4,951	8.12	7.88
Ornamental turf	229,587	215,273	7,075	32.45	30.43
Rights-of-way	21,535	2,785	6,035	3.57	0.46
Uncultivated non-agricultural areas	55,052	34,566	22,875	2.41	1.51

	Pounds of Active Ingredients Applied to Acreage in 1998 ^a			Intensity in 1998 (Pounds of active ingredients per acre planted)	
	All Pesticides	CA Bad Actor Pesticides	Acres Planted 1998	All Pesticides	CA Bad Actor Pesticides
Nursery Products	3,367,293	2,894,546	59,822	56.29	48.39
Greenhouse flowers	125,728	63,835	3,340	37.64	19.11
Outdoor container nursery	1,491,382	1,254,724	33,736	44.21	37.19
Outdoor flower nursery	702,229	636,857	12,757	55.05	49.92
Outdoor propagation nursery	1,047,954	939,130	9,989	104.91	94.02
Other Agricultural Uses	2,916,792	2,715,017	219,847	13.27	12.35
Soil pre-plant	2,380,205	2,308,859	71,590	33.25	32.25
Uncultivated agricultural areas	536,588	406,158	148,257	3.62	2.74
Spices and Herbs	134,079	95,014	24,284	5.52	3.91
Chicory	5,814	3,692	3,710	1.57	1.00
Chili peppers	59,172	33,316	6,194	9.55	5.38
Mustard	16,060	13,925	3,635	4.42	3.83
Parsley	53,033	44,081	10,744	4.94	4.10
Vegetables and Melons	31,508,237	18,972,009	1,470,177	21.43	12.90
Artichokes	97,772	65,638	13,042	7.50	5.03
Asparagus	373,429	188,109	41,546	8.99	4.53
Bell peppers	868,199	746,732	31,337	27.71	23.83
Bok choy	25,424	23,981	7,824	3.25	3.06
Broccoli	763,630	662,368	151,005	5.06	4.39
Brussels sprouts	201,282	197,711	3,034	66.33	65.15
Cabbage	90,959	70,614	25,867	3.52	2.73
Cantaloupe	1,232,161	587,390	63,505	19.40	9.25
Carrots	7,292,664	6,869,717	98,326	74.17	69.87
Cauliflower	208,873	164,338	47,184	4.43	3.48
Celery	499,190	345,492	37,405	13.35	9.24
Chinese cabbage	26,187	22,679	10,049	2.61	2.26
Collards	7,830	7,169	2,622	2.99	2.73
Cucumbers	41,003	30,236	12,612	3.25	2.40
Endive	4,556	3,271	4,656	0.98	0.70
Garlic	471,720	202,543	57,989	8.13	3.49
Kale	17,552	14,327	7,469	2.35	1.92
Lettuce, head	1,881,523	1,429,439	180,722	10.41	7.91
Lettuce, leaf	973,377	755,635	108,699	8.95	6.95
Melons	451,666	282,761	27,194	16.61	10.40
Onions, dried	991,897	700,435	79,067	12.55	8.86
Onions, green	62,446	59,443	5,719	10.92	10.39
Peas	281,048	10,757	8,678	32.39	1.24

	Pounds of Active Ingredients Applied to Acreage in 1998 ^a			Intensity in 1998 (Pounds of active ingredients per acre planted)	
	All Pesticides	CA Bad Actor Pesticides	Acres Planted 1998	All Pesticides	CA Bad Actor Pesticides
Vegetables and Melons (cont.)					
Pumpkins	76,399	3,259	5,526	13.82	0.59
Radishes	7,882	6,666	2,299	3.43	2.90
Spinach	298,437	235,337	34,719	8.60	6.78
Squash	75,975	26,702	11,363	6.69	2.35
Swiss chard	9,686	9,204	2,689	3.60	3.42
Tomatoes, for processing	11,630,464	3,723,617	316,850	36.71	11.75
Tomatoes, fresh	1,627,918	771,837	54,352	29.95	14.20
Watermelons	917,088	754,602	16,828	54.50	44.84

- a. The “pounds of active ingredients applied to acreage” excludes pesticides used in processing or post-harvest fumigation and those used to fumigate individual units such as planting holes for trees or vines.