

Use Trends of Pesticides Listed by U.S. EPA as A or B Carcinogens or on the State's Proposition 65 List of Chemicals that are 'Known to Cause Cancer': Cumulative Acres Treated

[Text files](#) of data are available. The reported cumulative acres treated that are included on the State's Proposition 65 list of chemicals known to cause cancer as well as the chemicals receiving a 'carcinogen,' 'probable carcinogen,' or 'possible carcinogen' rating from the U.S. Environmental Protection Agency's Chronic Dose-Response Assessment Table (Dose-Response Assessment for Assessing Health Risks Associated with Exposure to Hazardous Air Pollutants). Acres treated totals are cumulative, meaning that if a one-acre field was treated three times in a year, the cumulative acres treated would equal three acres. Cumulative acres treated totals include pesticide use reports (PURs) with unit treated equal to acres (A) or square feet (S), the latter of which was converted to acres. PURs with volume (cubic feet, etc.), weight (tons, lbs, etc.), or miscellaneous units (bins, holes, etc.) are not included in the acres treated totals. Most nonagricultural PURs are not required to report acres treated, so the acres treated totals are predominantly agricultural pesticide uses. If pounds were reported for a year but acres treated is zero, then the pesticide use was non-agricultural. The total for acres treated may be less than the sum of the table rows because the total is adjusted to prevent the overcounting of acreage for pesticide products with more than one active ingredient. Values greater than one are rounded. For more information, see Pesticide Use Annual Report Data Access, References, and Definitions [Guide](#).

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1,2-dichloropropane, 1,3-dichloropropene and related c3 compounds	8	0	0	0	0	0	0	0	0	0
1,3-dichloropropene	69,658	78,360	75,790	70,641	65,782	62,136	63,497	61,521	57,086	44,554
4-vinylcyclohexenediep oxide	0	0	0	0	0	0	0	0	0	0
Acifluorfen, sodium salt	4	0	0	0	0	0	0	0	0	0
Aggregated adjuvant data	1,054	5,185	16,804	17,244	20,227	18,445	19,333	14,761	3,822	9,575
Alachlor	2,033	1,497	70	3	3	3	0	3	3	3
Amitrole	0	0	70	0	0	0	0	0	0	0
Arsenic pentoxide	0	0	0	0	0	0	0	0	0	0
Arsenic trioxide	0	0	0	0	0	0	0	0	0	0
Cacodylic acid	0	0	0	6	87	0	0	107	10	9

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Captan	211,312	212,100	246,074	220,606	219,034	202,843	210,302	190,919	187,007	206,791
Carbaryl	108,805	136,319	116,667	106,725	99,823	98,844	108,678	108,335	106,094	107,957
Carbon tetrachloride	< 1	0	0	0	0	0	0	0	0	0
Chlordane	0	0	0	0	0	0	0	0	2	0
Chlordecone	0	0	0	0	0	0	0	0	0	0
Chlorothalonil	566,370	541,669	542,853	584,739	549,161	541,741	524,831	407,405	358,295	607,588
Chromic acid	0	0	0	0	0	0	0	0	0	0
Coconut diethanolamide	272,571	266,115	266,016	208,082	258,281	294,507	224,901	170,097	111,998	117,192
Creosote	0	0	0	0	0	0	15	11	0	0
Daminozide	2,443	2,412	2,083	2,258	2,241	1,879	1,717	1,726	9,940	32,985
Ddvp	3,307	6,282	3,317	787	12	829	735	868	2,192	1,301
Ddvp, other related	1,879	539	1,805	0	1	600	418	554	1,681	1,113
Diocetyl phthalate	0	0	0	0	0	0	0	0	0	0
Dipropyl isocinchomeronate	0	1	0	< 1	0	0	101	< 1	0	< 1
Diuron	342,061	279,721	330,900	408,775	352,532	344,057	255,015	160,399	189,133	141,072
Ethoprop	844	591	575	582	1,712	1,682	2,299	2,466	3,428	3,084
Ethylene dibromide	0	0	0	0	0	0	0	0	0	0
Ethylene oxide	0	0	0	0	0	0	0	0	0	0
Fenoxycarb	58	15	33	76	20	6	11	3	51	5
Folpet	0	0	< 1	3	0	2	0	0	0	0
Formaldehyde	2	30	0	0	0	0	30	0	0	0
Glyphosate	< 1	24	2	23	0	0	0	0	307	0
Glyphosate, diammonium salt	4,137	5,533	5,719	560	470	204	2,468	25,338	6,849	8,787
Glyphosate, dimethylamine salt	25,463	34,323	36,507	35,727	38,558	43,798	64,459	53,811	70,771	78,461

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Glyphosate, isopropylamine salt	2,322,775	2,187,978	2,166,404	2,278,457	2,386,536	2,410,956	2,252,526	1,925,950	2,206,925	2,223,069
Glyphosate, monoammonium salt	11,220	2,186	934	232	671	231	274	355	360	197
Glyphosate, potassium salt	3,110,381	3,427,120	3,397,973	3,283,378	3,157,481	3,127,747	3,177,626	2,735,893	2,243,707	2,529,886
Glyphosate-trimesium	450	0	0	90	30	4	0	0	40	0
Heptachlor	0	0	0	0	0	0	0	0	0	0
Imazalil	32	< 1	50	2	0	0	137	0	0	0
Iprodione	459,139	407,078	519,804	479,145	141,350	137,113	92,708	74,087	32,051	50,920
Kresoxim-methyl	210,369	172,536	177,876	177,279	151,272	131,157	127,073	91,564	87,992	91,195
Lindane	0	28	0	0	0	0	0	1	1	0
Malathion	285,266	266,900	218,785	204,397	217,048	200,956	218,918	157,273	173,969	172,167
Mancozeb	711,016	740,616	831,464	858,640	720,062	855,320	810,702	555,530	555,834	436,425
Maneb	1,021	425	987	1,286	75	1,858	924	376	96	72
Metam-sodium	24,424	24,254	19,437	17,423	20,139	22,626	21,752	17,697	18,249	13,237
Methyl eugenol	0	0	0	0	0	0	0	0	0	0
Methyl iodide	0	0	0	0	0	1	0	0	0	0
Methylene chloride	0	0	0	0	0	0	0	0	0	0
Metiram	0	0	0	0	0	0	0	0	6	0
Naphthalene	0	0	0	0	0	0	0	< 1	0	0
Nitrapyrin	0	0	< 1	0	34	478	0	247	0	28
Ortho-phenylphenol	104	329	264	71	175	124	47	191	138	0
Ortho-phenylphenol, sodium salt	0	0	2	0	0	0	0	0	0	0
Oryzalin	203,504	162,536	90,433	106,348	92,524	74,068	35,915	12,617	3,969	2,163
Oxadiazon	1,239	1,777	1,067	1,151	1,074	653	418	834	699	561
Oxythioquinox	0	0	7	0	2	0	0	0	1	5
Para-dichlorobenzene	0	0	0	0	0	< 1	0	8	0	0

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Parathion	1	207	82	60	0	304	80	0	0	86
Pentachlorophenol	2	5	0	0	0	0	6	18	2	0
Potassium dichromate	0	0	0	0	0	0	0	0	0	0
Potassium n-methyldit hiocarbamate	39,708	48,516	49,049	47,542	45,459	32,751	45,567	44,736	40,018	44,045
Propargite	104,758	88,343	87,430	106,446	98,031	101,832	94,838	64,925	73,861	63,752
Propoxur	178	39	19	0	25	0	0	0	0	9
Propylene oxide	0	0	0	14	0	0	0	0	0	0
Propyzamide	51,307	49,022	111,513	122,516	122,209	119,543	120,397	119,061	115,397	117,832
Pymetrozine	42,540	30,716	42,771	36,824	52,283	62,975	50,084	20,462	18,515	25,716
Resmethrin	18	7	3	0	21	0	205	6	4	0
S,s,s-tributyl phosphorotrithioate	15,139	7,582	7,725	10,624	11,007	6,091	5,106	5,449	3,997	2,776
Sedaxane	0	0	0	4	0	0	0	0	0	< 1
Sodium dichromate	0	0	0	0	0	0	0	0	0	0
Spirodiclofen	124,024	97,629	107,825	121,796	121,493	110,033	130,003	129,902	68,165	53,608
Terrazole	660	255	175	283	239	239	133	224	176	122
Tetrachloroethylene	0	0	0	0	0	0	0	0	0	0
Tetrachlorvinphos	3	1,044	5	3	0	0	< 1	0	10	0
Thiodicarb	0	0	0	0	0	0	0	0	0	0
Toxaphene	0	0	0	2	0	0	0	0	0	0
Trichloro ethylene	0	0	0	0	0	0	0	0	0	0
Vinclozolin	5	10	6	18	13	3	1	6	1	6
Total	9,318,439	9,279,028	9,456,047	9,431,667	8,804,079	8,851,226	8,565,659	7,054,459	6,674,724	7,071,470