

# 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 at <https://files.cdpr.ca.gov/pub/outgoing/pur/data/>. The reported cumulative acres treated with chemicals that are 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.' Use includes primarily agricultural applications (Most nonagricultural pesticide use reports are not required to report acreage. A zero indicates some nonagricultural use occurred, but acreage was not reported. The word 'none' indicates no use at all that year). The grand total for acres treated may be less than the sum of acres treated for all chemicals because some products contain more than one active ingredient.

Chemical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
<b>1,2-dichloropropane, 1,3-dichloropropene and related c3 compounds</b>	None	None	18	None	9	None	None	None	None	None
<b>1,3-dichloropropene</b>	54,209	59,065	69,441	71,852	69,656	78,332	75,735	70,641	65,782	62,143
<b>2,4-d</b>	22,913	7,565	7,749	10,773	11,041	13,243	12,019	8,704	10,917	9,725
<b>4-vinylcyclohexenediepoide</b>	None	None	None	None	None	None	None	None	0	0
<b>acifluorfen, sodium salt</b>	0	None	0	0	4	None	None	None	0	None
<b>alachlor</b>	3,276	3,385	3,284	2,670	2,033	1,497	70	3	3	3
<b>alpha-chlorohydrin</b>	None	0	None	None	None	None	None	None	None	None
<b>amitrole</b>	0	0	0	None	None	None	70	None	None	0
<b>arsenic acid</b>	None	0	None	None	None	None	None	None	None	None
<b>arsenic pentoxide</b>	0	0	0	0	0	0	0	0	0	None
<b>arsenic trioxide</b>	0	0	0	None	0	0	0	None	None	None
<b>cacodylic acid</b>	0	0	0	None	0	None	0	6	88	None
<b>captan</b>	245,464	210,103	209,406	187,988	211,312	212,100	246,074	220,586	219,034	200,571
<b>carbaryl</b>	81,683	68,469	97,229	96,667	108,805	136,319	116,667	106,736	99,449	97,953
<b>carbon tetrachloride</b>	None	0	0	None	0	0	0	0	None	None
<b>chlordane</b>	0	None	0	None	None	0	None	0	0	None

Chemical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
chlordecone	None	0	0	0	0	0	0	0	0	0
chlorothalonil	493,538	590,737	573,875	530,738	566,228	541,345	542,115	584,790	549,211	540,743
chromic acid	0	0	0	0	0	0	0	0	0	None
creosote	None	None	None	0	None	0	None	None	0	0
daminozide	4,357	2,430	2,983	2,549	2,443	2,408	2,083	2,258	2,241	1,886
ddvp	1,880	5,184	6,530	5,593	3,307	6,282	3,317	787	12	829
ddvp, other related	410	1,945	5,442	5,537	3,301	5,149	3,287	703	10	615
diclofop-methyl	None	20	None	None	None	None	None	None	None	None
diethanolamine	None	None	None	None	None	4,872	16,766	17,244	20,205	18,357
dioctyl phthalate	7,921	4,741	5,311	3,188	1,885	626	76	None	46	176
dipropyl isocinchomeronate	19	0	0	0	0	1	0	0	0	0
diuron	520,587	692,252	555,461	440,691	342,061	279,721	330,900	408,775	352,458	343,629
ethoprop	1,378	1,892	541	676	844	591	575	582	1,712	1,682
ethyl acrylate	72	88	None	24	222	0	0	None	None	None
ethylene dibromide	None	None	0	None	None	0	None	None	None	None
ethylene oxide	None	None	0	None	0	None	None	None	None	None
fenoxycarb	100	107	110	37	58	15	33	76	20	6
folpet	0	None	0	0	0	0	0	3	None	2
formaldehyde	1	6	4	52	2	30	0	0	0	0
glyphosate	1,741	1,808	508	451	0	24	2	23	0	0
glyphosate, diammonium salt	16,353	8,559	3,287	2,938	3,381	1,173	665	308	22	None
glyphosate, dimethylamine salt	3,847	6,291	9,412	9,707	25,463	34,323	36,507	35,727	38,558	43,798
glyphosate, isopropylamine salt	2,873,256	2,597,116	2,380,803	2,427,271	2,322,698	2,184,855	2,166,537	2,278,924	2,385,630	2,404,583
glyphosate, monoammonium salt	11,443	12,479	545	19,922	11,919	6,446	5,786	359	883	241
glyphosate, potassium salt	1,962,017	2,901,917	3,152,708	3,132,079	3,110,231	3,426,735	3,397,875	3,280,997	3,225,684	3,359,076
glyphosate-trimesium	295	431	172	43	450	None	None	90	30	4
heptachlor	None	None	0	None	None	None	None	0	0	None
imazalil	26	2	0	0	32	1	50	2	0	0
iprodione	578,775	639,260	530,477	479,735	459,139	407,066	519,831	479,145	141,350	136,777
kresoxim-methyl	236,638	281,390	192,781	199,709	210,369	172,536	177,876	177,274	151,201	131,005
lindane	31	1	None	0	None	28	None	None	None	0
malathion	434,717	281,044	271,654	289,865	285,266	266,825	218,571	204,397	216,999	200,129
mancozeb	434,040	636,488	679,086	675,954	711,031	740,602	830,305	858,641	719,694	854,058
maneb	290,266	41,106	4,559	1,524	1,006	425	987	1,286	75	1,824
metam-sodium	72,748	71,078	59,078	28,145	24,422	24,254	19,437	17,423	20,139	21,765
methyl eugenol	None	0	None	0	None	None	0	0	0	0
methyl iodide	None	279	37	None	None	None	None	None	None	1

Chemical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
methylene chloride	0	0	0	0	0	0	0	0	0	0
metiram	None	0	0	0	0	0	0	0	0	0
naphthalene	3	0	None	0	None	None	None	0	0	0
nitrapyrin	111	None	0	1	None	0	0	None	34	478
ortho-phenylphenol	58	117	85	130	104	329	264	71	175	137
ortho-phenylphenol, sodium salt	0	0	0	0	0	0	2	None	None	None
oryzalin	217,193	294,584	263,734	203,900	203,504	162,536	90,433	106,348	92,544	73,362
oxadiazon	1,712	927	1,148	1,511	1,239	1,777	1,067	1,151	1,074	653
oxythioquinox	4	1	1	0	0	None	7	None	2	None
para-dichlorobenzene	0	0	0	0	None	None	None	0	0	0
parathion	56	68	15	0	1	207	82	60	0	299
pentachlorophenol	4	1	15	170	3	5	97	296	413	259
pirimicarb	0	0	None	None	None	None	None	None	None	None
potassium dichromate	None	None	None	0	None	0	None	None	None	None
potassium n-methyldithiocarbamate	41,444	44,080	50,361	46,861	39,708	48,504	49,022	47,542	45,459	32,751
propargite	137,106	142,430	114,213	121,952	104,758	87,943	87,430	106,446	97,986	101,617
propoxur	0	3	0	4	179	39	19	0	25	0
propylene oxide	0	0	288	9	0	0	0	14	0	0
propyzamide	69,328	61,014	57,625	51,921	51,307	49,022	110,588	122,516	122,209	119,533
pymetrozine	40,675	29,669	33,671	37,228	42,540	30,716	42,744	36,824	52,283	62,953
resmethrin	0	6	4	436	18	7	3	0	21	0
s,s,s-tributyl phosphorotrithioate	15,785	27,139	21,894	22,774	15,139	7,582	7,725	10,624	11,007	6,091
sedaxane	None	None	None	None	None	None	0	4	None	None
sodium dichromate	None	None	None	None	0	None	None	None	None	None
spirodiclofen	99,851	72,318	83,128	135,077	124,024	97,629	107,825	121,796	121,493	109,731
terrazole	5,107	443	579	414	660	255	175	283	239	239
tetrachloroethylene	0	0	0	0	0	0	0	0	0	0
tetrachlorvinphos	5	5	8	4	3	1,044	5	3	0	0
thiodicarb	192	656	206	247	None	None	None	0	None	None
toxaphene	12	1	0	0	0	0	0	2	0	0
trichloro ethylene	None	0	None	0	None	None	None	0	0	0
vinclozolin	86	100	33	11	5	10	6	18	13	3
<b>Total</b>	<b>8,964,047</b>	<b>9,786,536</b>	<b>9,443,593</b>	<b>9,224,507</b>	<b>9,056,480</b>	<b>9,021,677</b>	<b>9,198,862</b>	<b>9,230,585</b>	<b>8,623,280</b>	<b>8,783,085</b>