

# 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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>1,2-dichloropropane, 1,3-dichloropropene and related c3 compounds</b>	18	N/A	9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>1,3-dichloropropene</b>	69,441	71,852	69,656	78,332	75,739	70,641	65,782	62,136	63,497	61,509
<b>2,4-d</b>	7,749	10,773	11,041	13,243	12,019	8,704	10,917	9,725	13,206	13,914
<b>4-vinylcyclohexenediepoide</b>	N/A	N/A	N/A	N/A	N/A	N/A	<0.01	<0.01	<0.01	<0.01
<b>acifluorfen, sodium salt</b>	<0.01	<0.01	4	N/A	N/A	N/A	<0.01	N/A	N/A	<0.01
<b>alachlor</b>	3,284	2,670	2,033	1,497	70	3	3	3	N/A	3
<b>amitrole</b>	<0.01	N/A	N/A	N/A	70	N/A	N/A	<0.01	N/A	N/A
<b>arsenic pentoxide</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N/A	N/A	N/A
<b>arsenic trioxide</b>	<0.01	N/A	<0.01	<0.01	<0.01	N/A	N/A	N/A	N/A	N/A
<b>cacodylic acid</b>	<0.01	N/A	<0.01	N/A	<0.01	6	87	N/A	<0.01	107
<b>captan</b>	209,406	187,988	211,312	212,100	246,074	220,606	219,034	202,843	211,608	190,677
<b>carbaryl</b>	97,229	96,667	108,805	136,319	116,667	106,736	99,823	98,844	108,678	108,332
<b>carbon tetrachloride</b>	<0.01	N/A	0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<b>chlordane</b>	<0.01	N/A	N/A	<0.01	N/A	<0.01	<0.01	N/A	<0.01	N/A
<b>chlordecone</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<b>chlorothalonil</b>	573,875	530,738	566,230	541,351	542,115	584,739	549,161	541,743	524,444	406,933
<b>chromic acid</b>	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N/A	N/A	N/A

Chemical	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
creosote	N/A	<0.01	N/A	<0.01	N/A	N/A	<0.01	<0.01	15	11
daminozide	2,983	2,549	2,443	2,412	2,083	2,258	2,241	1,886	1,717	1,716
ddvp	6,530	5,593	3,307	6,282	3,317	787	12	829	735	868
ddvp, other related	5,442	5,537	3,301	5,149	3,287	703	10	615	470	569
diethanolamine	N/A	N/A	N/A	4,872	16,766	17,244	20,205	18,357	19,290	14,749
dioctyl phthalate	5,311	3,188	1,885	626	76	N/A	46	176	86	25
dipropyl isocinchomerate	<0.01	<0.01	<0.01	1	<0.01	0	<0.01	<0.01	101	0
diuron	555,463	440,691	342,061	279,721	330,900	408,775	352,532	344,057	253,057	160,046
ethoprop	541	676	844	591	575	582	1,712	1,682	2,299	2,466
ethyl acrylate	N/A	24	222	<0.01	<0.01	N/A	N/A	N/A	N/A	N/A
ethylene dibromide	<0.01	N/A	N/A	<0.01	N/A	N/A	N/A	N/A	<0.01	<0.01
ethylene oxide	0	N/A	<0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
fenoxycarb	110	37	58	15	33	76	20	6	11	3
folpet	<0.01	<0.01	<0.01	<0.01	0	3	N/A	2	<0.01	<0.01
formaldehyde	4	52	2	30	<0.01	<0.01	<0.01	<0.01	30	<0.01
glyphosate	508	451	0	24	2	23	<0.01	<0.01	<0.01	N/A
glyphosate, diammonium salt	3,287	2,938	3,381	1,173	665	308	22	N/A	2,087	25,100
glyphosate, dimethylamine salt	9,412	9,707	25,463	34,323	36,507	35,727	38,558	43,798	64,541	53,811
glyphosate, isopropylamine salt	2,380,803	2,427,171	2,322,698	2,184,855	2,166,530	2,278,332	2,386,390	2,410,185	2,249,184	1,916,133
glyphosate, monoammonium salt	545	19,922	11,919	6,446	5,786	359	883	241	426	260
glyphosate, potassium salt	3,152,672	3,132,079	3,110,231	3,426,743	3,397,818	3,282,400	3,226,845	3,276,973	3,261,642	2,783,021
glyphosate-trimesium	172	43	450	N/A	N/A	90	30	4	N/A	N/A
heptachlor	<0.01	N/A	N/A	N/A	N/A	<0.01	<0.01	N/A	N/A	N/A
imazalil	<0.01	<0.01	32	1	50	2	<0.01	<0.01	137	<0.01
iprodione	530,487	479,735	459,139	407,066	519,806	479,145	141,350	137,134	93,913	74,521
kresoxim-methyl	192,781	199,709	210,369	172,536	177,876	177,279	151,272	131,142	127,033	91,331
lindane	N/A	<0.01	N/A	28	N/A	N/A	N/A	<0.01	<0.01	1
malathion	271,663	289,865	285,266	266,825	218,571	204,397	216,999	200,956	218,097	157,033
mancozeb	679,086	675,657	711,031	740,602	830,281	858,640	720,036	855,328	810,841	555,543

Chemical	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
maneb	4,559	1,524	1,006	425	987	1,286	75	1,858	924	376
metam-sodium	59,078	28,145	24,422	24,254	19,437	17,423	20,139	22,626	21,752	17,697
methyl eugenol	N/A	<0.01	N/A	N/A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
methyl iodide	37	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A	N/A
methylene chloride	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
metiram	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
naphthalene	N/A	<0.01	N/A	N/A	N/A	<0.01	<0.01	<0.01	N/A	0
nitrapyrin	<0.01	1	N/A	<0.01	0	N/A	34	478	N/A	247
ortho-phenylphenol	85	130	104	329	264	71	175	124	47	191
ortho-phenylphenol, sodium salt	<0.01	<0.01	<0.01	<0.01	2	N/A	N/A	N/A	N/A	N/A
oryzalin	263,734	203,898	203,504	162,536	90,433	106,348	92,524	74,068	35,816	12,441
oxadiazon	1,148	1,511	1,239	1,777	1,067	1,151	1,074	653	418	834
oxythioquinox	1	<0.01	<0.01	N/A	7	N/A	2	N/A	N/A	N/A
para-dichlorobenzene	<0.01	<0.01	N/A	N/A	N/A	<0.01	<0.01	<0.01	N/A	8
parathion	15	<0.01	1	207	82	60	<0.01	304	80	<0.01
pentachlorophenol	15	170	3	5	97	296	413	243	111	53
potassium dichromate	N/A	<0.01	N/A	<0.01	N/A	N/A	N/A	N/A	N/A	<0.01
potassium n- methyldithiocarbamate	50,361	46,861	39,708	48,516	49,022	47,542	45,459	32,751	45,567	44,736
propargite	114,213	121,952	104,758	87,943	87,430	106,446	97,986	101,832	94,217	64,561
propoxur	<0.01	4	179	39	19	<0.01	25	<0.01	<0.01	<0.01
propylene oxide	288	9	<0.01	<0.01	<0.01	14	<0.01	<0.01	<0.01	<0.01
propyzamide	57,625	51,921	51,307	49,022	110,619	122,516	122,209	119,543	120,245	118,795
pymetrozine	33,671	37,228	42,540	30,716	42,744	36,824	52,283	62,986	50,084	20,387
resmethrin	4	436	18	7	3	<0.01	21	<0.01	205	79
s,s,s-tributyl phosphorotrithioate	21,894	22,774	15,139	7,582	7,725	10,624	11,007	6,091	5,106	5,449
sedaxane	N/A	N/A	N/A	N/A	<0.01	4	N/A	N/A	N/A	<0.01
sodium dichromate	N/A	N/A	<0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
spirodiclofen	83,128	135,077	124,024	97,629	107,825	121,796	121,493	110,033	130,003	129,792
terrazole	579	414	660	255	175	283	239	239	133	224
tetrachloroethylene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

<b>Chemical</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>tetrachlorvinphos</b>	8	4	3	1,044	5	3	<0.01	<0.01	0	<0.01
<b>thiodicarb</b>	206	247	N/A	N/A	N/A	<0.01	N/A	N/A	N/A	N/A
<b>toxaphene</b>	<0.01	<0.01	<0.01	<0.01	<0.01	2	<0.01	<0.01	<0.01	<0.01
<b>trichloro ethylene</b>	N/A	<0.01	N/A	N/A	N/A	<0.01	<0.01	<0.01	N/A	N/A
<b>vinclozolin</b>	33	11	5	10	6	18	13	3	1	6
<b>Total</b>	9,443,579	9,224,109	9,056,482	9,021,706	9,198,784	9,231,368	8,625,989	8,714,980	8,433,168	6,933,541