

# 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": Pounds Applied

Text files of data are available at <<https://files.cdpr.ca.gov/pub/outgoing/pur/data/>>. The reported pounds of chemicals used 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 both agricultural and reportable nonagricultural applications. The word "none" or "N/A" indicates no use at all that year. Values > 1 are rounded.

Chemical	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>1,2-dichloropropane, 1,3-dichloropropane and related c3 compounds</b>	N/A	6	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
<b>1,3-dichloropropene</b>	10,924,344	11,953,290	12,960,537	13,614,468	15,689,571	14,129,401	12,581,936	12,580,525	11,300,809	11,678,006
<b>2,4-d</b>	5,400	4,259	5,665	6,384	7,372	6,046	4,344	6,083	5,575	6,860
<b>4-vinylcyclohexenediepoxyde</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.01	1	2
<b>acifluorfen, sodium salt</b>	N/A	<0.01	<0.01	<0.01	N/A	N/A	N/A	<0.01	N/A	N/A
<b>alachlor</b>	9,294	8,836	6,562	5,118	3,230	84	9	5	9	N/A
<b>alpha-chlorohydrin</b>	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>amitrole</b>	4	6	N/A	N/A	N/A	2	N/A	N/A	14	N/A
<b>arsenic acid</b>	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>arsenic pentoxide</b>	8,034	9,240	8,480	16,719	22,190	10,508	5,105	3,677	N/A	N/A
<b>arsenic trioxide</b>	<0.01	<0.01	N/A	<0.01	<0.01	<0.01	N/A	N/A	N/A	N/A
<b>cacodylic acid</b>	<0.01	<0.01	N/A	<0.01	N/A	<0.01	<0.01	1	N/A	1
<b>captan</b>	376,790	403,224	349,430	370,136	511,177	638,401	561,762	414,516	378,091	376,057
<b>carbaryl</b>	74,946	113,845	117,272	131,744	155,525	221,095	107,453	128,818	113,531	110,231
<b>carbon tetrachloride</b>	6	90	N/A	7	<0.01	<0.01	<0.01	<0.01	<0.01	142

Chemical	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
chlordane	N/A	16	N/A	N/A	2	N/A	<0.01	<0.01	N/A	1
chlordecone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
chlorothalonil	1,151,524	1,185,479	1,115,499	1,215,447	1,068,458	1,127,282	1,240,450	1,172,493	1,162,926	1,149,169
chromic acid	11,224	12,908	11,847	23,358	31,629	15,709	7,632	5,497	N/A	N/A
creosote	N/A	N/A	3	N/A	1	N/A	N/A	<0.01	1	3
daminozide	8,441	8,263	8,576	8,427	8,974	7,585	8,063	6,819	6,071	4,619
ddvp	5,480	4,890	4,630	4,034	4,084	3,868	3,456	3,515	3,309	4,473
ddvp, other related	268	276	278	162	165	123	113	109	84	153
diclofop-methyl	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
diethanolamine	N/A	N/A	N/A	N/A	76	392	293	389	352	373
dioctyl phthalate	248	262	198	73	36	94	N/A	1	8	4
dipropyl isocincheronate	1	<0.01	<0.01	<0.01	1	<0.01	<0.01	<0.01	<0.01	2
diuron	676,479	554,597	414,228	325,345	317,328	248,389	179,467	188,426	171,242	163,033
ethoprop	7,475	2,077	2,502	3,076	1,820	2,023	2,134	5,848	5,950	7,792
ethyl acrylate	36	N/A	2	11	4	1	N/A	N/A	N/A	N/A
ethylene dibromide	N/A	6	N/A	N/A	<0.01	N/A	N/A	N/A	N/A	2
ethylene oxide	N/A	8	N/A	<0.01	N/A	N/A	N/A	N/A	N/A	N/A
fenoxycarb	3	2	1	1	9	2	3	1	<0.01	<0.01
folpet	N/A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N/A	<0.01	<0.01
formaldehyde	4,615	3,847	11,165	52,989	31,956	23,116	11,825	1,349	3,082	8,696
glyphosate	5,301	1,894	645	21	129	40	37	70	10	21
glyphosate, diammonium salt	11,468	2,428	2,989	3,673	1,019	897	112	28	N/A	4,265
glyphosate, dimethylamine salt	130,752	123,833	92,504	128,942	139,644	156,713	149,505	141,523	172,456	229,370
glyphosate, isopropylamine salt	5,915,206	4,987,114	5,010,145	4,877,876	4,859,304	5,147,168	5,368,833	5,785,738	6,317,605	5,705,955
glyphosate, monoammonium salt	22,748	11,921	36,553	21,965	12,386	18,724	9,033	7,100	10,910	8,696
glyphosate, potassium salt	4,714,262	5,405,920	5,309,433	5,613,417	6,517,547	6,424,297	6,272,841	6,130,761	6,082,418	6,464,485

Chemical	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
glyphosate-trimesium	574	144	41	310	N/A	N/A	34	19	3	N/A
heptachlor	N/A	<0.01	N/A	N/A	N/A	N/A	<0.01	<0.01	N/A	N/A
imazalil	25,767	25,085	26,134	19,312	22,305	26,528	22,293	28,307	28,752	31,198
iprodione	355,634	298,077	260,748	240,613	223,793	297,610	260,557	111,666	108,588	79,167
kresoxim-methyl	38,671	26,280	26,213	28,346	23,915	22,905	23,566	20,018	17,443	16,815
lindane	1	N/A	2	N/A	6	N/A	N/A	N/A	1	20
malathion	512,004	405,415	446,890	502,997	443,128	355,223	334,893	361,816	324,989	355,406
mancozeb	1,047,232	1,131,071	1,148,671	1,282,145	1,273,707	1,435,363	1,521,544	1,323,395	1,543,561	1,557,453
maneb	54,541	6,260	1,383	1,274	286	1,275	2,224	59	3,221	865
metam-sodium	10,919,085	8,444,536	4,846,428	4,297,539	3,606,650	3,297,827	3,144,356	3,765,658	4,307,477	4,326,370
methyl eugenol	5	N/A	9	N/A	N/A	126	386	1,149	1,138	500
methyl iodide	1,157	21	N/A	N/A	N/A	N/A	N/A	N/A	9	N/A
methylene chloride	24	61	53	76	35	39	36	10	19	11
metiram	15	34	17	13	<0.01	4	26	18	13	11
naphthalene	<0.01	N/A	<0.01	N/A	N/A	N/A	<0.01	<0.01	<0.01	N/A
nitrapyrin	N/A	<0.01	2	N/A	5	2	N/A	16	179	N/A
ortho-phenylphenol	2,582	2,964	1,713	1,777	1,316	1,181	472	418	400	88
ortho-phenylphenol, sodium salt	5,192	3,586	4,375	3,611	4,815	2,261	N/A	N/A	N/A	N/A
oryzalin	769,232	686,557	584,254	582,736	510,680	316,178	338,072	298,726	246,636	131,422
oxadiazon	7,783	7,272	6,759	4,960	12,139	5,028	6,072	8,264	3,626	3,160
oxythioquinox	<0.01	1	<0.01	1	N/A	1	N/A	<0.01	N/A	N/A
para-dichlorobenzene	<0.01	18	<0.01	N/A	N/A	N/A	<0.01	<0.01	1	N/A
parathion	196	25	<0.01	1	836	41	3	3	49	11
pentachlorophenol	18	224	274	11	25	1	4	27	20	9
pirimicarb	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
potassium dichromate	N/A	N/A	<0.01	N/A	<0.01	N/A	N/A	N/A	N/A	N/A
potassium n-methyldithiocarbamate	5,674,072	8,320,255	9,484,467	7,798,703	10,254,800	9,343,192	8,940,720	8,527,736	6,629,298	9,000,088
propargite	296,351	252,218	291,001	246,496	213,205	206,503	245,228	226,375	227,787	225,197
propoxur	808	359	373	251	100	49	43	29	15	5

Chemical	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
propylene oxide	449,037	389,070	405,059	400,719	396,191	368,260	255,702	213,681	229,979	271,228
propyzamide	49,678	47,404	42,022	42,662	41,910	93,887	107,221	114,498	115,292	118,921
pymetrozine	2,835	3,199	3,719	4,123	2,992	4,243	3,453	4,732	5,846	4,625
resmethrin	122	46	19	188	4	146	67	54	3	11
s,s,s-tributyl phosphorotrithioate	30,328	21,820	19,077	11,683	6,472	6,882	8,151	8,911	8,104	6,546
sedaxane	N/A	N/A	N/A	N/A	N/A	<0.01	<0.01	N/A	N/A	N/A
sodium dichromate	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A
spirodiclofen	22,729	28,363	52,050	49,054	34,540	42,285	47,322	52,804	48,064	58,679
terrazole	638	503	393	473	452	400	304	166	108	78
tetrachloroethylene	68	176	153	221	101	112	81	29	51	32
tetrachlorvinphos	912	665	2,660	629	173	66	55	109	63	31
thiodicarb	472	145	156	N/A	N/A	N/A	1	N/A	N/A	N/A
toxaphene	28	16	8	7	4	3	35	8	1	1
trichloro ethylene	1	N/A	<0.01	N/A	N/A	N/A	10	<0.01	2	N/A
vinclozolin	328	467	151	219	149	125	81	39	12	114
<b>Total</b>	<b>44,332,495</b>	<b>44,900,872</b>	<b>43,124,420</b>	<b>41,944,546</b>	<b>46,458,377</b>	<b>44,009,707</b>	<b>41,777,419</b>	<b>41,652,035</b>	<b>39,585,207</b>	<b>42,110,472</b>