

# 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. Values are rounded. N/A means there was not any reported pounds during that year.

Chemical	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1,2-dichloropropane, 1,3-dichloropropene and related c3 compounds	N/A	N/A	N/A	6	N/A	1	N/A	N/A	N/A	N/A
1,3-dichloropropene	6,450,125	8,797,078	10,924,344	11,947,156	12,941,042	13,614,468	15,689,571	14,128,721	12,581,936	12,569,270
2,4-d	9,338	11,914	5,400	4,259	5,665	6,384	7,372	6,046	4,344	6,083
4-vinylcyclohexenediepoide	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1
acifluorfen, sodium salt	N/A	<1	N/A	<1	<1	<1	N/A	N/A	N/A	<1
alachlor	6,362	9,936	9,294	8,836	6,562	5,118	3,230	84	9	5
alpha-chlorohydrin	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
amitrole	5	4	4	6	N/A	N/A	N/A	2	N/A	N/A
arsenic acid	N/A	N/A	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
arsenic pentoxide	400	16,144	8,034	9,240	8,480	16,719	22,190	10,508	5,105	3,677
arsenic trioxide	<1	<1	<1	<1	N/A	<1	<1	<1	N/A	N/A
auramine	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cacodylic acid	<1	3	<1	<1	N/A	<1	N/A	<1	<1	1
captan	329,747	450,225	376,597	403,224	349,430	370,136	511,177	638,401	561,769	413,622
carbaryl	136,104	113,983	74,890	113,845	117,252	131,744	155,525	221,095	107,453	128,623
carbon tetrachloride	<1	N/A	6	90	N/A	7	<1	<1	<1	N/A
chlordane	6	6	N/A	16	N/A	N/A	2	N/A	<1	<1

Chemical	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
chlordecone	N/A	N/A	<1	<1	<1	<1	<1	<1	<1	<1
chlorothalonil	715,972	961,618	1,149,139	1,183,472	1,114,884	1,215,447	1,068,448	1,127,282	1,240,392	1,171,126
chromic acid	559	22,555	11,224	12,908	11,847	23,358	31,629	15,709	7,632	5,497
creosote	<1	N/A	N/A	N/A	3	N/A	1	N/A	N/A	<1
daminozide	6,570	9,361	8,441	8,250	8,560	8,427	8,959	7,585	8,063	6,819
ddvp	4,169	4,176	5,480	4,890	4,627	4,034	4,082	3,868	3,456	3,505
ddvp, other related	217	194	268	276	278	162	165	123	113	109
diclofop-methyl	15	N/A	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
diethanolamine	N/A	N/A	N/A	N/A	N/A	N/A	76	392	293	389
dioctyl phthalate	186	453	248	262	198	73	36	94	N/A	1
dipropyl isocinchomeronate	<1	1	1	<1	<1	<1	1	<1	<1	<1
diuron	623,001	588,905	675,024	554,583	413,291	325,345	317,328	248,331	179,467	188,274
ethoprop	20,793	5,645	7,475	2,077	2,502	3,076	1,820	2,023	2,134	5,848
ethyl acrylate	N/A	9	36	N/A	2	11	4	1	N/A	N/A
ethylene dibromide	<1	N/A	N/A	6	N/A	N/A	<1	N/A	N/A	N/A
ethylene oxide	7	N/A	N/A	8	N/A	<1	N/A	N/A	N/A	N/A
fenoxycarb	5	3	3	2	1	1	9	2	3	1
folpet	N/A	<1	N/A	<1	<1	<1	<1	<1	<1	N/A
formaldehyde	3,972	5,511	4,615	3,847	11,165	52,989	31,956	23,116	11,825	1,349
glyphosate	8,167	10,737	5,301	1,894	645	21	129	40	37	70
glyphosate, diammonium salt	34,032	11,987	11,468	2,428	2,989	3,673	1,019	897	112	28
glyphosate, dimethylamine salt	13,801	29,788	130,752	123,817	92,504	128,942	139,644	156,713	149,505	140,479
glyphosate, isopropylamine salt	4,736,643	5,617,241	5,912,962	4,985,453	5,008,332	4,877,876	4,859,287	5,147,133	5,368,052	5,766,081
glyphosate, monoammonium salt	31,567	24,675	22,748	11,921	36,553	21,965	12,387	18,724	9,033	7,098
glyphosate, potassium salt	2,400,139	3,074,103	4,711,137	5,403,813	5,306,770	5,613,513	6,517,467	6,424,021	6,267,885	6,109,802
glyphosate-trimesium	2,153	535	574	144	41	310	N/A	N/A	34	19
heptachlor	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	<1	<1
imazalil	13,255	26,181	25,767	25,085	26,013	19,312	22,305	26,528	22,293	20,409
iprodione	249,157	349,532	353,707	297,788	260,152	240,455	220,086	297,614	260,566	111,587
kresoxim-methyl	27,338	32,107	38,587	26,276	26,213	28,346	23,915	22,905	23,565	19,944
lindane	8	18	1	N/A	2	N/A	6	N/A	N/A	N/A
malathion	532,321	561,398	512,004	405,353	446,743	502,997	443,128	355,053	334,893	360,906
mancozeb	282,587	757,664	1,045,594	1,130,998	1,149,091	1,282,145	1,273,707	1,436,008	1,519,480	1,315,141

Chemical	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
maneb	657,090	370,333	54,024	6,260	1,383	1,274	286	1,275	2,224	59
metam-sodium	9,359,224	11,428,913	10,895,290	8,427,548	4,846,423	4,297,539	3,606,650	3,297,827	3,144,356	3,765,705
methyl eugenol	N/A	N/A	5	N/A	9	N/A	N/A	126	386	1,149
methyl iodide	N/A	N/A	1,157	21	N/A	N/A	N/A	N/A	N/A	N/A
methylene chloride	32	31	24	61	53	76	35	39	36	10
metiram	N/A	N/A	15	34	17	13	<1	4	26	18
naphthalene	N/A	1	<1	N/A	<1	N/A	N/A	N/A	<1	<1
nitrapyrin	84	211	N/A	<1	2	N/A	5	2	N/A	16
nitrofen	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ortho-phenylphenol	2,133	2,271	2,582	2,964	1,713	1,777	1,316	1,181	472	418
ortho-phenylphenol, sodium salt	2,294	2,129	5,192	3,586	4,375	3,611	4,815	2,261	N/A	N/A
oryzalin	529,892	602,291	768,869	686,197	584,071	582,736	510,680	316,178	338,029	297,679
oxadiazon	8,741	12,382	7,783	7,272	6,759	4,960	12,139	5,028	6,072	8,256
oxythioquinox	45	6	<1	1	<1	1	N/A	1	N/A	<1
para-dichlorobenzene	17	N/A	<1	18	<1	N/A	N/A	N/A	<1	<1
parathion	118	257	196	25	<1	1	836	41	3	3
pentachlorophenol	N/A	3	18	224	274	11	25	1	4	27
pirimicarb	2	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
potassium dichromate	N/A	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A
potassium n- methylthiocarbamate	4,128,181	4,832,615	5,673,722	8,320,255	9,484,467	7,798,703	10,252,596	9,343,192	8,940,720	8,527,736
propargite	378,099	294,853	296,351	252,218	291,001	246,496	213,205	206,503	244,825	226,091
propoxur	202	298	808	359	373	251	100	49	43	28
propylene oxide	111,609	300,008	449,037	389,070	410,360	400,719	396,191	368,260	255,702	213,681
propyzamide	73,811	51,384	49,678	47,404	42,022	42,662	41,902	93,849	107,248	114,447
pymetrozine	2,905	3,820	2,835	3,195	3,713	4,123	2,992	4,243	3,453	4,727
resmethrin	211	206	122	46	19	188	4	146	67	54
s,s,s-tributyl phosphorotrithioate	8,161	18,427	30,328	21,820	19,077	11,683	6,472	6,882	8,151	8,911
sedaxane	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A
sodium dichromate	N/A	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A
spirodiclofen	45,521	31,085	22,729	28,358	52,050	49,054	34,540	42,285	47,321	52,286
terrazole	1,140	1,500	638	503	393	473	452	400	304	166
tetrachloroethylene	94	90	68	176	153	221	101	112	81	29
tetrachlorvinphos	1,306	1,086	912	665	2,660	629	173	66	55	109
thiodicarb	511	152	472	145	156	N/A	N/A	N/A	1	N/A
toxaphene	42	16	28	16	8	7	4	3	35	8

<b>Chemical</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>trichloro ethylene</b>	N/A	N/A	1	N/A	<1	N/A	N/A	N/A	10	<1
<b>vinclozolin</b>	476	217	328	467	151	219	149	125	81	39
<b>Total</b>	31,950,664	39,448,277	44,294,361	44,871,135	43,103,520	41,944,486	46,452,332	44,009,100	41,769,155	41,577,418