

# Use Trends of Pesticides on DPR's Toxic Air Contaminants List: 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 on DPR's toxic air contaminants list applied in California. These pesticides are the chemicals listed in the California Code of Regulations, Title 3, Division 6, Chapter 4, Subchapter 1, Article 1, Section 6860. 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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>1,3-dichloropropene</b>	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	11,086,414
<b>2,4-d</b>	4,259	5,665	6,384	7,372	6,046	4,344	6,083	5,575	6,860	8,788
<b>2,4-d, 2-ethylhexyl ester</b>	27,640	25,647	21,656	26,985	31,914	19,382	20,880	23,853	20,371	17,924
<b>2,4-d, alkanolamine salts (ethanol and isopropanol amines)</b>	16	18	0	201	21	82	204	7	1	0
<b>2,4-d, butoxyethanol ester</b>	1,798	2,483	2,318	1,791	893	1,325	2,105	1,948	3,344	2,405
<b>2,4-d, butyl ester</b>	13	26	N/A	129	N/A	50	N/A	33	N/A	N/A
<b>2,4-d, diethanolamine salt</b>	2,649	2,880	4,081	3,628	3,227	2,977	3,254	3,044	3,383	2,874
<b>2,4-d, dimethylamine salt</b>	371,798	352,142	329,058	361,610	368,388	305,705	328,049	320,101	357,018	330,382
<b>2,4-d, dodecylamine salt</b>	N/A	N/A	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A
<b>2,4-d, isooctyl ester</b>	4,623	1,421	779	1,026	899	361	630	490	373	615
<b>2,4-d, isopropyl ester</b>	13,528	11,768	10,806	11,488	14,951	12,738	13,585	13,867	12,913	12,930
<b>2,4-d, propyl ester</b>	N/A	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>2,4-d, tetradecylamine salt</b>	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A
<b>2,4-d, triethylamine salt</b>	5	0	23	10	137	2	0	12	0	1
<b>2,4-d, triisopropanolamine salt</b>	1,746	1,588	2,439	1,945	1,675	534	1,412	807	491	186

Chemical	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
2,4-d, triisopropylamine salt	770	1,263	1,871	1,372	1,139	749	264	69	119	N/A
2,4- dichlorophenoxyacetic acid, choline salt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10,989	27,754
acrolein	114,130	101,817	84,220	56,830	48,108	56,227	57,971	54,899	54,950	50,253
aluminum phosphide	149,050	142,905	113,910	90,315	160,806	299,642	123,661	90,506	149,410	130,536
arsenic pentoxide	9,240	8,480	16,719	22,190	10,508	5,105	3,677	N/A	N/A	N/A
arsenic trioxide	<0.01	N/A	<0.01	<0.01	<0.01	N/A	N/A	N/A	N/A	N/A
captan	403,224	349,430	370,136	511,177	638,406	561,762	414,516	379,101	376,873	332,842
captan, other related	8,904	5,967	4,717	4,030	4,838	4,159	3,853	3,482	4,227	3,424
carbaryl	113,845	117,272	131,744	155,525	221,095	107,470	128,818	113,587	110,403	99,400
chlorine	1,437,637	1,323,645	800,013	603,519	726,781	418,713	589,661	676,123	246,961	180,763
chloropicrin	8,931,248	8,220,328	8,994,608	8,514,720	8,642,911	8,788,404	7,484,288	8,062,333	8,371,450	8,506,588
chlorpyrifos	1,107,027	1,469,645	1,312,209	1,107,417	903,260	948,004	602,946	12,817	14,120	8,362
chromic acid	12,908	11,847	23,358	31,629	15,709	7,632	5,497	N/A	N/A	N/A
dazomet	39,229	63,920	58,652	83,058	53,928	47,513	25,948	13,317	22,048	43,421
ddvp	4,890	4,630	4,034	4,084	3,868	3,456	3,515	3,309	4,517	3,507
endosulfan	11,113	1,833	8,136	6,420	576	55	1	81	231	105
ethylene oxide	8	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
formaldehyde	3,847	11,165	52,989	31,956	23,116	11,825	1,349	3,082	8,696	5,452
hydrogen chloride	336	395	412	553	589	1,573	3,958	1,385	1,059	802
lindane	N/A	2	N/A	6	N/A	N/A	N/A	1	20	2
magnesium phosphide	11,497	12,373	7,562	22,316	14,766	9,021	8,344	9,660	8,313	35,651
mancozeb	1,131,071	1,148,671	1,282,145	1,273,707	1,435,363	1,521,544	1,323,416	1,543,570	1,558,069	1,043,342
maneb	6,260	1,383	1,274	286	1,275	2,224	59	3,221	866	653
meta-cresol	2	7	0	0	1	4	0	0	1	1
metam-sodium	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	3,593,891
methanol	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A
methidathion	23,396	6,375	3,614	245	146	11	140	2	0	3
methoxychlor	N/A	<0.01	N/A	0	<0.01	3	N/A	10	N/A	0
methoxychlor, other related	N/A	N/A	N/A	N/A	<0.01	N/A	N/A	N/A	N/A	N/A
methyl bromide	4,017,411	3,534,488	2,963,143	2,655,355	2,603,395	1,798,430	1,683,010	1,641,575	1,686,971	1,603,060
methyl iodide	21	N/A	N/A	N/A	N/A	N/A	N/A	9	N/A	N/A
methyl isothiocyanate	764	N/A	92	63	77	153	511	N/A	79	246
methyl parathion	25,408	21,520	481	182	24	5	10	4	74	54

Chemical	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>methyl parathion, other related</b>	1,334	1,131	0	5	0	N/A	N/A	0	0	N/A
<b>naphthalene</b>	N/A	<0.01	N/A	N/A	N/A	0	<0.01	0	N/A	0
<b>para-dichlorobenzene</b>	18	<0.01	N/A	N/A	N/A	0	0	1	N/A	2
<b>parathion</b>	25	0	1	836	41	3	3	49	11	0
<b>pcnb</b>	16,750	26,131	23,431	20,626	53,374	76,601	83,944	69,718	45,784	25,405
<b>pcp, other related</b>	32	39	2	3	0	0	3	2	1	0
<b>pcp, sodium salt</b>	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	1
<b>pentachlorophenol</b>	224	274	11	25	1	4	27	20	9	4
<b>phenol</b>	N/A	5	3	1	41	3	0	2	0	N/A
<b>phenol, ferrous salt</b>	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	0	0
<b>phosphine</b>	51,278	20,855	11,399	28,397	19,234	21,700	19,561	48,814	83,259	88,508
<b>phosphorus</b>	4	3	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A
<b>potassium n-methyldithiocarbamate</b>	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	8,513,080
<b>potassium permanganate</b>	N/A	N/A	N/A	N/A	113	N/A	N/A	N/A	12	N/A
<b>propoxur</b>	359	373	251	100	49	43	29	15	5	3
<b>propylene oxide</b>	389,070	405,059	400,719	396,191	368,260	255,702	213,681	229,979	271,228	163,231
<b>s,s,s-tributyl phosphorotrithioate</b>	21,820	19,077	11,683	6,472	6,882	8,151	8,911	8,104	6,546	6,804
<b>sodium cyanide</b>	2,588	2,593	2,611	3,108	2,869	3,057	2,986	2,618	2,698	2,389
<b>sodium dichromate</b>	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>sodium tetrathiocarbonate</b>	49,713	0	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>sulfuryl fluoride</b>	2,663,898	3,061,136	2,801,523	3,042,482	3,301,117	3,146,765	3,013,619	3,013,596	2,822,373	3,065,098
<b>trifluralin</b>	506,813	510,424	513,766	471,559	387,921	346,848	352,469	323,617	300,692	304,787
<b>xylene</b>	372	1,181	1,712	668	556	167	160	782	629	288
<b>zinc phosphide</b>	2,249	2,287	3,598	4,001	3,722	4,202	4,334	2,278	3,718	2,887
<b>Total</b>	50,415,939	48,305,007	46,095,126	49,118,635	46,853,449	43,471,439	41,415,263	38,919,058	41,576,631	39,305,119