

# 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.

Chemical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1,3-dichloropropene	8,797,078	10,924,344	11,953,290	12,960,537	13,614,468	15,689,571	14,129,227	12,581,936	12,580,525	11,300,809
2,4-d	11,914	5,400	4,259	5,665	6,384	7,372	6,046	4,344	6,083	5,389
2,4-d, 2-ethylhexyl ester	74,398	25,795	27,640	25,647	21,655	26,985	31,914	19,382	20,880	23,843
2,4-d, alkanolamine salts (ethanol and isopropanol amines)	516	1	16	18	<0.01	201	21	82	204	7
2,4-d, butoxyethanol ester	1,368	1,757	1,798	2,483	2,318	1,791	893	1,325	2,105	1,617
2,4-d, butyl ester	3	4	13	26	None	129	None	50	None	33
2,4-d, diethanolamine salt	6,872	3,165	2,649	2,880	4,081	3,628	3,227	2,977	3,254	3,047
2,4-d, dimethylamine salt	489,475	408,970	371,798	352,142	329,058	361,610	368,389	305,705	327,384	319,742
2,4-d, dodecylamine salt	None	None	None	None	None	None	10	None	None	None
2,4-d, isooctyl ester	4,214	5,361	4,623	1,421	779	1,026	899	361	630	491
2,4-d, isopropyl ester	11,723	19,452	13,528	11,768	10,806	11,488	14,951	12,738	13,579	13,850
2,4-d, propyl ester	57	None	None	6	None	None	None	None	None	None
2,4-d, tetradecylamine salt	None	None	None	None	None	None	2	None	None	None
2,4-d, triethylamine salt	2,829	106	5	<0.01	23	10	137	2	<0.01	12
2,4-d, triisopropanolamine salt	2,092	2,741	1,746	1,588	2,439	1,945	1,675	534	1,412	807
2,4-d, triisopropylamine salt	1,655	1,971	770	1,263	1,871	1,372	1,139	749	264	69
acrolein	123,660	101,425	114,130	101,817	84,220	56,830	48,108	56,227	57,971	54,899

Chemical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
aluminum phosphide	108,406	157,006	149,050	142,905	113,910	90,314	160,806	299,642	123,661	90,236
arsenic acid	None	17	None	None	None	None	None	None	None	None
arsenic pentoxide	16,144	8,034	9,240	8,480	16,719	22,190	10,508	5,105	3,677	None
arsenic trioxide	<0.01	<0.01	<0.01	None	<0.01	<0.01	<0.01	None	None	None
captan	450,225	376,790	403,224	349,430	370,136	511,177	638,401	561,715	414,516	375,417
captan, other related	10,002	8,399	8,904	5,967	4,717	4,030	4,837	4,158	3,853	3,450
carbaryl	113,983	74,946	113,845	117,272	131,744	155,525	221,095	107,453	128,631	113,084
chlorine	1,011,383	834,152	1,437,637	1,323,645	800,013	603,519	726,781	418,713	589,661	509,510
chloropicrin	6,398,482	7,307,900	8,931,248	8,220,328	8,994,608	8,514,720	8,641,619	8,788,404	7,484,288	8,056,246
chlorpyrifos	1,291,616	1,301,135	1,107,027	1,469,645	1,312,209	1,107,417	903,238	948,004	602,659	12,813
chromic acid	22,555	11,224	12,908	11,847	23,358	31,629	15,709	7,632	5,497	None
dazomet	60,539	59,245	39,229	63,920	58,652	83,058	53,928	47,513	25,948	13,317
ddvp	4,176	5,480	4,890	4,630	4,034	4,083	3,868	3,456	3,515	3,331
endosulfan	37,799	15,679	11,113	1,833	8,136	6,420	576	55	1	81
ethylene oxide	None	None	8	None	<0.01	None	None	None	None	None
formaldehyde	5,511	4,615	3,847	11,165	52,989	31,956	23,116	11,825	1,349	3,082
hydrogen chloride	2,240	504	336	395	412	553	589	1,573	3,958	1,385
lindane	18	1	None	2	None	6	None	None	None	1
magnesium phosphide	12,233	12,769	11,497	12,373	7,562	22,316	14,766	9,021	8,344	9,660
mancozeb	757,894	1,047,232	1,131,071	1,149,271	1,282,145	1,273,707	1,435,408	1,521,544	1,322,745	1,540,119
maneb	370,333	54,541	6,260	1,383	1,274	286	1,275	2,224	59	3,157
meta-cresol	<0.01	1	2	7	<0.01	<0.01	1	4	<0.01	<0.01
metam-sodium	11,428,913	10,919,085	8,444,536	4,846,428	4,297,539	3,606,650	3,297,827	3,144,356	3,765,659	4,124,364
methanol	None	None	None	None	None	None	2	None	None	None
methidathion	51,343	29,545	23,396	6,375	3,614	245	146	11	140	2
methoxychlor	270	39	None	<0.01	None	<0.01	<0.01	3	None	10
methoxychlor, other related	None	None	None	None	None	None	<0.01	None	None	None
methyl bromide	4,809,340	4,055,208	4,017,411	3,534,903	2,963,143	2,655,355	2,602,809	1,798,430	1,683,010	1,637,709
methyl iodide	None	1,157	21	None	None	None	None	None	None	9
methyl isothiocyanate	73	476	764	None	92	63	77	153	511	None
methyl parathion	21,512	22,970	25,408	21,520	481	182	24	5	10	10
methyl parathion, other related	1,132	1,195	1,334	1,131	<0.01	5	<0.01	None	None	<0.01
naphthalene	1	<0.01	None	<0.01	None	None	None	<0.01	<0.01	<0.01
para-dichlorobenzene	None	<0.01	18	<0.01	None	None	None	<0.01	<0.01	1
parathion	257	196	25	<0.01	1	836	41	3	3	47
pcnb	37,378	11,867	16,750	26,131	23,431	20,626	53,374	76,601	83,944	69,718
pcp, other related	<0.01	3	32	39	2	3	<0.01	<0.01	3	2
pcp, sodium salt	None	<0.01	None	None	<0.01	None	None	None	None	None
pentachlorophenol	3	18	224	274	11	25	1	4	27	21
phenol	None	None	None	5	3	1	41	3	<0.01	2

Chemical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
phenol, ferrous salt	None	None	None	None	<0.01	None	None	None	None	None
phosphine	11,291	125,469	51,278	20,855	11,399	28,397	19,247	21,700	19,561	48,883
phosphorus	1	None	4	3	None	None	None	None	None	None
potassium n-methyldithiocarbamate	4,832,615	5,674,072	8,320,255	9,484,467	7,798,703	10,252,910	9,343,192	8,940,720	8,527,736	6,629,298
potassium permanganate	None	None	None	None	None	None	113	None	None	None
propoxur	298	808	359	373	251	100	49	43	29	15
propylene oxide	300,008	449,037	389,070	410,360	400,719	396,191	368,260	255,702	213,681	229,979
s,s,s-tributyl phosphorotrithioate	18,427	30,328	21,820	19,077	11,683	6,472	6,882	8,151	8,911	8,104
sodium cyanide	2,502	1,073	2,588	2,593	2,611	3,108	2,869	3,057	2,986	2,618
sodium dichromate	None	None	None	None	2	None	None	None	None	None
sodium tetrathiocarbonate	233,949	168,761	49,713	<0.01	120	None	None	None	None	None
sulfuryl fluoride	2,728,977	2,359,006	2,663,898	3,061,470	2,801,523	3,042,482	3,301,117	3,146,765	3,013,550	3,019,149
trifluralin	473,555	503,687	506,813	510,424	513,766	471,559	387,921	346,848	352,469	320,050
xylene	1,070	282	372	1,181	1,712	668	556	167	160	781
zinc phosphide	1,745	2,533	2,249	2,287	3,598	4,001	3,722	4,202	4,334	2,277
<b>Total</b>	<b>45,156,053</b>	<b>47,136,974</b>	<b>50,415,939</b>	<b>48,311,657</b>	<b>46,095,125</b>	<b>49,116,744</b>	<b>46,851,428</b>	<b>43,471,375</b>	<b>41,413,379</b>	<b>38,552,554</b>