

Use Trends of Pesticides on DPR's Toxic Air Contaminants List: Cumulative Acres Treated

[Text files](#) of data are available. The reported cumulative acres treated that are toxic air contaminants. Toxic air contaminants (TACs) are defined as air pollutants that may cause or contribute to increases in serious illness or death, that may pose a present or potential hazard to human health, or pesticides identified as hazardous air pollutants per Section 7412 of Title 42 of the United States Code and pesticides determined to be TACs in consultation with the Office of Environmental Health Hazard Assessment. The toxic air contaminants category included all chemicals listed in the California Code of Regulations, Title 3, Division 6, Chapter 4, Subchapter 2, Article 1, Section 6860. Acres treated totals are cumulative, meaning that if a one-acre field was treated three times in a year, the cumulative acres treated would equal three acres. Cumulative acres treated totals include pesticide use reports (PURs) with unit treated equal to acres (A) or square feet (S), the latter of which was converted to acres. PURs with volume (cubic feet, etc.), weight (tons, lbs, etc.), or miscellaneous units (bins, holes, etc.) are not included in the acres treated totals. Most nonagricultural PURs are not required to report acres treated, so the acres treated totals are predominantly agricultural pesticide uses. If pounds were reported for a year but acres treated is zero, then the pesticide use was non-agricultural. The total for acres treated may be less than the sum of the table rows because the total is adjusted to prevent the overcounting of acreage for pesticide products with more than one active ingredient. Values greater than one are rounded. For more information, see Pesticide Use Annual Report Data Access, References, and Definitions [Guide](#).

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1,3-dichloropropene	69,658	78,360	75,790	70,641	65,782	62,136	63,497	61,521	57,086	44,554
2,4-d	11,026	13,237	11,987	8,434	10,917	9,697	13,206	13,914	11,977	12,515
2,4-d, 2-ethylhexyl ester	8,561	11,435	15,732	9,098	9,761	10,021	8,656	9,156	5,762	6,950
2,4-d, alkanolamine salts (ethanol and isopropanol amines)	< 1	0	2	59	28	< 1	0	0	0	0
2,4-d, butoxyethanol ester	1,775	813	1,000	1,438	1,508	1,346	1,889	1,585	1,397	935
2,4-d, butyl ester	0	33	0	38	0	0	0	0	0	0
2,4-d, diethanolamine salt	7,547	6,581	8,176	7,087	7,387	7,319	7,843	7,568	6,103	4,195
2,4-d, dimethylamine salt	311,534	330,133	331,887	264,632	291,987	275,337	300,029	268,990	284,626	241,365
2,4-d, dodecylamine salt	0	0	0	0	0	0	0	0	0	0

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
2,4-d, isooctyl ester	12	2	283	306	475	284	143	124	128	83
2,4-d, isopropyl ester	136,545	147,256	155,633	149,639	161,569	163,583	158,086	148,576	154,380	156,405
2,4-d, tetradecylamine salt	0	0	0	0	0	0	0	0	0	0
2,4-d, triethylamine salt	10	45	0	0	0	0	3	0	13	0
2,4-d, triisopropanolamine salt	1,521	1,099	209	120	205	30	0	0	< 1	0
2,4-d, triisopropylamine salt	0	0	0	0	0	0	0	0	0	0
2,4-dichlorophenoxyacetic acid, choline salt	0	0	0	0	0	0	20,768	44,653	70,269	44,925
Acrolein	306	432	78	34	47	14	15	0	0	667
Aggregated adjuvant data	317	0	556	64	35	52	36	0	0	98
Aluminum phosphide	150,088	159,056	82,175	70,523	73,229	64,404	53,239	43,654	48,766	40,049
Arsenic pentoxide	0	0	0	0	0	0	0	0	0	0
Arsenic trioxide	0	0	0	0	0	0	0	0	0	0
Captan	211,312	212,100	246,074	220,606	219,034	202,843	210,302	190,919	187,007	206,791
Captan, other related	119,113	98,445	105,766	100,389	90,105	86,278	108,968	87,818	82,655	110,644
Carbaryl	108,805	136,319	116,667	106,725	99,823	98,844	108,678	108,335	106,094	107,957
Chlorine	38,381	6,258	2,275	0	323	35,204	8,180	7,158	26,073	3,323
Chloropicrin	54,875	53,794	49,207	48,256	42,154	46,382	47,302	45,991	49,113	46,532
Chlorpyrifos	1,108,167	829,326	641,560	691,173	432,121	6,999	7,489	2,759	167	263
Chromic acid	0	0	0	0	0	0	0	0	0	0
Dazomet	152	368	18	88	35	8	34	71	10	0
Ddvp	3,307	6,282	3,317	787	12	829	735	868	2,192	1,301
Endosulfan	8,331	6,561	638	106	13	19	254	155	0	0
Ethylene oxide	0	0	0	0	0	0	0	0	0	0

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Formaldehyde	2	30	0	0	0	0	30	0	0	0
Hydrogen chloride	155	100	0	11	3	0	6	144	19	0
Lindane	0	28	0	0	0	0	0	1	1	0
Magnesium phosphide	14	131	9	20	3	7	< 1	< 1	3	3
Mancozeb	711,016	740,616	831,464	858,640	720,062	855,320	810,702	555,530	555,834	436,425
Maneb	1,021	425	987	1,286	75	1,858	924	376	96	72
Meta-cresol	6	128	690	1,218	252	87	121	308	63	1
Metam-sodium	24,424	24,254	19,437	17,423	20,139	22,626	21,752	17,697	18,249	13,237
Methanol	0	0	23	0	0	0	0	0	0	0
Methidathion	3,564	453	198	27	138	6	0	13	0	0
Methoxychlor	0	0	8	3	0	4	0	0	0	593
Methoxychlor, other related	0	0	8	0	0	0	0	0	0	592
Methyl bromide	16,599	12,796	59,534	6,051	5,602	5,605	5,932	5,786	5,851	6,288
Methyl iodide	0	0	0	0	0	1	0	0	0	0
Methyl isothiocyanate	0	0	0	0	0	0	0	0	0	0
Methyl parathion	0	298	60	0	27	4	75	177	7	2
Methyl parathion, other related	0	36	18	0	0	0	4	0	0	0
Naphthalene	0	0	0	0	0	0	0	< 1	0	0
Para-dichlorobenzene	0	0	0	0	0	< 1	0	8	0	0
Parathion	1	207	82	60	0	304	80	0	0	86
Pcnb	1,365	811	2,084	3,561	3,347	2,958	2,504	1,165	564	302
Pcp, other related	2	5	0	0	0	0	6	18	0	0
Pentachlorophenol	2	5	0	0	0	0	6	18	2	0
Phenol	0	170	0	0	0	0	0	0	0	0
Phosphine	2	25	3	93	112	59	1	48	90	27
Phosphorus	0	0	0	0	0	0	0	0	0	0

Chemical	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Potassium n-methyldit hiocarbamate	39,708	48,516	49,049	47,542	45,459	32,751	45,567	44,736	40,018	44,045
Potassium permanganate	0	0	0	0	0	0	6	0	0	0
Propoxur	178	39	19	0	25	0	0	0	0	9
Propylene oxide	0	0	0	14	0	0	0	0	0	0
S,s,s-tributyl phosphorotrithioate	15,139	7,582	7,725	10,624	11,007	6,091	5,106	5,449	3,997	2,776
Sodium cyanide	0	18	0	0	0	0	0	0	0	0
Sodium dichromate	0	0	0	0	0	0	0	0	0	0
Sodium pentachlorophenate	1	0	0	0	0	0	0	0	0	0
Sodium tetrathiocarbonate	4	0	0	0	0	0	0	0	0	0
Sulfuryl fluoride	585	153	0	30	< 1	42	36	40	2,563	2,326
Trifluralin	531,635	480,763	387,998	350,599	339,573	281,680	276,845	263,880	281,238	254,278
Xylene	625	1,151	365	133	248	743	555	515	237	155
Zinc phosphide	44,037	51,789	45,360	57,274	34,791	24,030	34,179	21,230	42,777	40,290
Total	3,577,603	3,332,141	3,110,043	2,970,971	2,567,602	2,188,464	2,181,912	1,840,697	1,932,322	1,690,723