

Use Trends of Cholinesterase-Inhibiting Pesticides: 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 organophosphorus or carbamate cholinesterase-inhibiting pesticides. 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
acephate	112,562	134,993	152,610	130,470	185,130	144,555	170,759	159,353	192,134	164,830
aldicarb	31,579	64,626	24,167	1,489	1,487	126	N/A	N/A	N/A	N/A
azinphos-methyl	13,913	1,619	1,582	1,232	32	N/A	1	N/A	1	N/A
bendiocarb	0	1	3	3	2	4	1	4	3	2
bensulide	247,735	271,835	288,435	267,050	285,471	319,400	346,137	293,204	285,292	311,544
butylate	N/A	299	N/A	N/A	88	53	N/A	10	N/A	N/A
carbaryl	136,104	113,983	74,890	113,845	117,252	131,744	155,525	221,095	107,453	128,623
carbofuran	10,117	4	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
carbophenothion	4	51	4	1,204	N/A	N/A	N/A	N/A	0	N/A
chlorpyrifos	1,248,584	1,290,982	1,300,553	1,106,464	1,469,298	1,312,361	1,107,417	903,238	947,911	601,173
coumaphos	N/A	0	3	3	14	N/A	1	N/A	0	5
crotoxyphos	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
cycloate	25,284	27,292	31,037	33,562	30,619	36,566	39,655	45,150	49,844	41,743
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
demeton	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
diazinon	142,061	126,804	86,647	78,523	61,224	61,126	52,665	48,991	72,612	33,489
dicrotophos	N/A	N/A	N/A	N/A	N/A	5	0	N/A	N/A	N/A
dimethoate	251,926	210,431	226,434	183,201	270,156	334,563	288,376	243,736	223,288	164,880
dioxathion	0	2	N/A	N/A	9	N/A	N/A	N/A	0	N/A
dioxathion, other related	0	1	N/A	N/A	4	N/A	N/A	N/A	0	N/A
disulfoton	10,233	9,085	4,351	5,479	1,924	2,219	415	10	12	16
epn	N/A	528	13	8	20	425	1	2	0	1
eptc	128,993	118,509	125,932	168,665	187,349	235,271	237,983	255,431	259,784	218,451
ethephon	207,894	375,561	548,700	484,377	397,059	348,653	319,307	399,159	485,572	433,459

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ethion	28	72	1	44	N/A	0	1	N/A	0	N/A
ethoprop	20,793	5,645	7,475	2,077	2,502	3,076	1,820	2,023	2,134	5,848
fenamiphos	11,493	8,978	2,964	5,254	2,244	865	97	143	131	0
fenthion	9	4	0	N/A	N/A	0	N/A	0	N/A	N/A
fonofos	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
formetanate hydrochloride	32,670	30,313	20,952	20,446	26,912	28,333	31,172	42,037	36,709	40,164
malathion	532,321	561,398	512,004	405,353	446,743	502,997	443,128	355,053	334,893	360,906
merphos	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
merphos, other related	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
methamidophos	17,934	9,664	6,037	0	55	N/A	N/A	N/A	1	0
methidathion	47,319	51,343	29,545	23,396	6,375	3,614	245	146	11	140
methiocarb	3,093	3,506	2,708	3,786	3,675	3,722	3,371	2,810	2,803	2,485
methomyl	221,248	231,690	220,085	273,337	260,518	278,741	282,501	260,627	234,580	224,535
methyl parathion	25,770	21,512	22,970	25,408	21,520	481	182	24	5	2
methyl parathion, other related	1,355	1,132	1,195	1,334	1,131	0	5	0	N/A	N/A
mevinphos	9	24	118	3	0	8	9	4	N/A	7
mevinphos, other related	6	16	79	2	N/A	5	6	3	N/A	5
mexacarbate	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A
molinate	12,516	24	0	3	0	0	0	5	N/A	N/A
naled	162,530	175,118	199,203	153,116	218,690	225,285	288,473	316,868	283,944	330,719
oxamyl	48,994	121,725	136,967	52,984	72,993	65,785	17,236	2,466	38,302	78,737
oxydemeton-methyl	68,576	71,290	26,017	17,562	10,656	8,407	6,610	3,764	1,533	1,460
parathion	118	257	196	25	0	1	836	41	3	3
parathion, other related	1	10	0	0	N/A	N/A	1	0	N/A	N/A
phorate	17,686	14,775	46,430	61,545	30,909	32,683	19,519	20,378	29,897	25,477
phosacetin	N/A	N/A	N/A	N/A	0	0	0	N/A	0	0
phosmet	132,647	115,008	95,781	53,587	60,903	44,344	19,278	28,971	16,869	22,595
phosphamidon	N/A	24	N/A	N/A	N/A	N/A	N/A	6	N/A	N/A
phosphamidon, other related	N/A	1	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
pirimicarb	2	1	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Chemical	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
potassium dimethyl dithio carbamate	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
profenofos	N/A	1,552	N/A	58	N/A	N/A	N/A	N/A	N/A	N/A
propetamphos	352	213	139	170	127	3,047	5	2	0	0
propoxur	202	298	808	359	373	251	100	49	43	28
ronnel	N/A	N/A	2	N/A	1	1	112	16	12	N/A
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
sodium dimethyl dithio carbamate	8,963	11,053	13,358	13,485	22,187	16,535	9,357	18,414	18,854	11,257
sulfotep	2	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
temephos	83	99	34	17	8	10	5	3	4	2
tepp	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
tepp, other related	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
tetrachlorvinphos	1,306	1,086	912	665	2,660	629	173	66	55	109
thiobencarb	320,643	258,402	246,927	280,678	289,946	373,930	523,582	698,888	603,226	592,804
thiodicarb	511	152	472	145	156	N/A	N/A	N/A	1	N/A
triallate	N/A	879	2,671	3,752	4,530	5,886	4,830	5,217	1,568	3,796
trichlorfon	25	34	40	29	25	11	0	0	0	4
Total	4,268,740	4,466,707	4,497,530	4,001,180	4,516,963	4,541,595	4,381,617	4,338,279	4,241,204	3,811,824