

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. 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
3-iodo-2-propynyl butylcarbamate	<0.01	19	0	28	2,980	3,002	2,636	1,303	1,415	1,403
acephate	130,472	185,274	144,640	170,760	159,353	192,134	171,300	158,655	123,746	121,280
aldicarb	1,489	1,487	126	N/A	N/A	N/A	N/A	N/A	N/A	N/A
azinphos-methyl	1,232	32	N/A	1	N/A	1	N/A	N/A	N/A	N/A
bendiocarb	3	2	4	1	4	3	2	2	1	1
bensulide	267,067	285,697	319,400	346,179	293,204	285,284	312,138	312,609	336,449	340,608
butylate	N/A	88	53	N/A	10	N/A	N/A	N/A	N/A	N/A
carbaryl	113,845	117,272	131,744	155,525	221,095	107,470	128,818	113,587	110,403	99,400
carbophenothion	1,204	N/A	N/A	N/A	N/A	0	N/A	N/A	0	N/A
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
coumaphos	3	14	N/A	1	N/A	<0.01	5	N/A	N/A	N/A
crotoxyphos	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A
cycloate	33,562	30,619	36,566	39,691	45,150	49,844	41,749	43,662	41,520	41,612
ddvp	4,890	4,630	4,034	4,084	3,868	3,456	3,515	3,309	4,517	3,507
ddvp, other related	276	278	162	165	123	113	109	84	153	65
diazinon	78,523	61,224	61,126	52,665	48,991	72,612	33,497	40,113	45,569	36,394
dicrotophos	N/A	N/A	5	0	N/A	N/A	N/A	N/A	N/A	N/A
dimethoate	183,239	276,329	334,563	288,769	243,736	223,336	167,955	161,691	150,350	92,161
dioxathion	N/A	9	N/A	N/A	N/A	0	N/A	N/A	N/A	<0.01
dioxathion, other related	N/A	4	N/A	N/A	N/A	0	N/A	N/A	N/A	<0.01
disulfoton	5,479	1,924	2,219	415	10	12	16	20	4	1
epn	8	20	425	1	2	0	1	4	16	38
eptc	168,665	187,349	235,271	238,014	255,431	259,751	218,451	187,734	175,446	132,509
ethephon	484,406	397,060	348,653	319,356	399,909	485,226	433,751	445,009	348,569	317,821

Chemical	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
ethion	44	N/A	0	1	N/A	0	N/A	2	N/A	99
ethoprop	2,077	2,502	3,076	1,820	2,023	2,134	5,848	5,950	7,792	9,490
fenamiphos	5,254	2,244	865	97	143	131	0	N/A	N/A	N/A
fenoxycarb	2	1	1	9	2	3	1	0	0	0
fenthion	N/A	N/A	0	N/A	<0.01	N/A	N/A	0	<0.01	N/A
formetanate hydrochloride	20,446	26,912	28,333	31,172	42,037	36,709	40,183	42,675	33,782	54,633
malathion	405,415	446,890	502,997	443,128	355,223	334,893	361,816	325,226	355,908	247,106
methamidophos	0	55	N/A	N/A	N/A	1	0	N/A	N/A	N/A
methidathion	23,396	6,375	3,614	245	146	11	140	2	0	3
methiocarb	3,790	3,679	3,722	3,371	2,810	2,803	2,485	1,848	1,327	1,002
methomyl	273,338	260,662	278,690	282,507	260,627	234,580	224,670	204,228	258,347	235,742
methyl parathion	25,408	21,520	481	182	24	5	10	4	74	54
methyl parathion, other related	1,334	1,131	0	5	0	N/A	N/A	0	0	N/A
mevinphos	3	0	8	9	4	N/A	7	150	19	N/A
mevinphos, other related	2	N/A	5	6	3	N/A	5	100	12	N/A
mexacarbate	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
molinate	3	0	<0.01	0	5	N/A	N/A	0	4	N/A
naled	153,116	218,690	225,285	288,485	316,868	283,944	330,866	317,840	204,521	194,516
oxamyl	52,987	73,003	65,785	17,236	2,466	38,302	78,741	103,801	63,310	25,969
oxydemeton-methyl	17,562	10,656	8,407	6,610	3,764	1,533	1,460	9	1	0
parathion	25	0	1	836	41	3	3	49	11	0
parathion, other related	0	N/A	N/A	1	<0.01	N/A	N/A	N/A	N/A	N/A
phorate	61,545	30,909	32,683	19,519	20,378	29,897	25,477	30,815	17,841	10,604
phosacetin	N/A	<0.01	<0.01	<0.01	N/A	<0.01	0	0	N/A	N/A
phosmet	53,587	60,903	44,344	19,278	28,971	16,869	22,596	24,856	32,075	23,973
phosphamidon	N/A	N/A	N/A	N/A	6	N/A	N/A	1	N/A	N/A
phosphamidon, other related	N/A	N/A	N/A	N/A	0	N/A	N/A	0	N/A	N/A
profenofos	58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Chemical	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
propetamphos	170	127	3,047	5	2	0	0	1	1	0
propoxur	359	373	251	100	49	43	29	15	5	3
ronnel	N/A	1	1	112	16	12	N/A	0	2	10
s,s,s-tributyl phosphorotrithioate	21,820	19,077	11,683	6,472	6,882	8,151	8,911	8,104	6,546	6,804
sodium dimethyl dithio carbamate	13,485	22,187	16,535	9,357	18,414	18,854	11,257	4,797	1,082	7
temephos	17	8	10	5	3	4	2	2	3	1
tetrachlorvinphos	665	2,660	629	173	66	55	109	63	31	38
thiobencarb	280,678	289,946	373,930	523,582	698,888	603,226	592,804	654,018	595,147	394,055
thiodicarb	145	156	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A
triallate	3,752	4,530	5,886	4,830	5,217	1,568	3,796	1,422	287	898
trichlorfon	29	25	11	0	0	<0.01	4	7	2	0
Total	4,001,902	4,524,200	4,541,479	4,382,226	4,342,203	4,243,979	3,828,110	3,206,584	2,930,408	2,400,170