

Use Trends of Cholinesterase-Inhibiting Pesticides: Cumulative Acres Treated

Text files of data are available at <<https://files.cdpr.ca.gov/pub/outgoing/pur/data/>>. The reported cumulative acres treated with chemicals that are organophosphorus or carbamate cholinesterase-inhibiting pesticides. Use includes primarily agricultural applications (Most nonagricultural pesticide use reports are not required to report acreage). The grand total for acres treated may be less than the sum of acres treated for all chemicals because some products contain more than one active ingredient. Values are rounded. N/A means there was not any reported acres treated during that year.

Chemical	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
acephate	115,063	144,134	150,268	132,424	183,239	122,616	163,104	172,589	177,380	158,440
aldicarb	31,977	66,192	29,363	1,451	1,882	166	N/A	N/A	N/A	N/A
azinphos-methyl	8,283	1,724	1,809	1,639	25	N/A	1	N/A	<1	N/A
bendiocarb	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bensulide	73,306	78,736	84,201	79,195	84,384	85,657	94,185	79,317	77,377	85,689
butylate	N/A	60	N/A	N/A	20	12	N/A	8	N/A	N/A
carbaryl	107,934	81,683	68,394	97,229	96,647	108,805	136,319	116,667	106,737	99,446
carbofuran	7,331	15	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A
carbophenothion	15	107	12	31	N/A	N/A	N/A	N/A	1	N/A
chlorpyrifos	935,588	1,098,958	1,188,543	1,056,026	1,297,150	1,108,317	829,304	641,561	690,834	431,218
coumaphos	N/A	<1	<1	<1	1	N/A	62	N/A	<1	1
crotoxyphos	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
cycloate	12,058	13,799	14,895	17,565	16,045	19,124	21,037	23,173	23,962	20,953
ddvp	2,685	1,880	5,184	6,530	5,593	3,307	6,282	3,317	787	12
ddvp, other related	2,017	410	1,945	5,442	5,537	3,301	5,149	3,287	703	10
demeton	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
diazinon	140,620	104,443	71,156	48,594	35,069	32,862	27,004	24,353	24,579	17,932
dicrotophos	N/A	N/A	N/A	N/A	N/A	23	<1	N/A	N/A	N/A
dimethoate	499,991	436,845	532,891	422,176	594,369	725,261	626,623	531,217	499,453	436,002
dioxathion	37	<1	N/A	N/A	78	N/A	N/A	N/A	<1	N/A
dioxathion, other related	37	<1	N/A	N/A	78	N/A	N/A	N/A	<1	N/A
disulfoton	7,591	6,167	1,621	2,595	1,042	1,157	205	16	<1	<1

Chemical	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
epn	N/A	135	<1	<1	2	<1	<1	2	<1	<1
eptc	49,708	44,289	47,770	56,872	69,989	89,126	91,512	100,883	104,151	91,178
ethephon	261,336	455,338	602,803	533,731	475,399	414,279	363,766	452,937	552,728	495,261
ethion	15	184	81	332	N/A	<1	306	N/A	30	N/A
ethoprop	4,293	1,348	1,892	541	676	844	591	575	582	1,712
fenamiphos	7,537	5,873	2,127	2,691	1,437	465	<1	<1	20	<1
fenthion	<1	<1	<1	N/A	N/A	<1	N/A	60	N/A	N/A
fonofos	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
formetanate hydrochloride	32,678	30,898	22,038	21,821	27,894	28,234	31,515	41,115	36,188	38,465
malathion	277,706	434,717	281,044	271,627	289,749	285,266	266,825	218,282	204,397	216,638
merphos	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
merphos, other related	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
methamidophos	20,408	10,731	6,465	<1	69	N/A	N/A	N/A	2	<1
methidathion	54,227	49,968	34,918	31,741	9,046	3,564	453	198	27	138
methiocarb	2,131	2,335	2,057	2,800	3,376	2,409	2,444	1,771	1,934	1,380
methomyl	377,954	410,186	396,484	473,037	439,612	450,025	453,825	431,681	386,649	375,018
methyl parathion	15,198	13,046	13,343	15,551	12,486	<1	298	60	<1	3
methyl parathion, other related	15,053	13,029	13,327	15,337	12,440	<1	36	18	N/A	N/A
mevinphos	69	11	108	3	<1	51	51	23	N/A	136
mevinphos, other related	69	11	108	3	N/A	51	51	23	N/A	136
mexacarbate	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
molinate	2,942	6	<1	<1	3	<1	1	1	N/A	N/A
naled	128,415	145,673	163,486	109,008	160,907	139,823	164,576	175,205	175,253	190,102
oxamyl	59,118	138,801	150,265	61,931	83,561	75,324	21,033	3,301	40,943	90,621
oxydemeton-methyl	82,368	86,131	27,447	18,204	12,163	9,096	7,355	7,883	3,555	3,111
parathion	195	56	68	15	<1	1	207	82	60	<1
parathion, other related	49	54	<1	10	N/A	N/A	10	4	N/A	N/A
phorate	10,236	8,719	32,863	47,176	22,469	25,700	14,682	16,300	23,653	20,590
phosacetin	N/A	N/A	N/A	N/A	<1	<1	<1	N/A	1	3
phosmet	51,514	40,276	33,692	18,923	23,726	21,122	10,336	11,297	7,751	8,405
phosphamidon	N/A	72	N/A	N/A	N/A	N/A	N/A	35	N/A	N/A

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phosphamidon, other related	N/A	72	N/A	N/A	N/A	N/A	N/A	35	N/A	N/A
pirimicarb	<1	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
potassium dimethyl dithio carbamate	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
profenofos	N/A	1,635	N/A	155	N/A	N/A	N/A	N/A	N/A	N/A
propetamphos	<1	<1	<1	<1	<1	3,621	<1	<1	<1	<1
propoxur	356	<1	3	<1	4	179	39	19	<1	25
ronnel	N/A	N/A	110	N/A	11	<1	<1	<1	<1	N/A
s,s,s-tributyl phosphorotrithioate	7,182	15,785	27,139	21,894	22,774	15,139	7,582	7,725	10,624	11,007
sodium dimethyl dithio carbamate	3	13	<1	<1	<1	<1	<1	6	10	1
sulfotep	3	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
temephos	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tepp	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
tepp, other related	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
tetrachlorvinphos	<1	5	5	8	4	3	1,044	5	3	<1
thiobencarb	83,567	75,172	71,824	79,689	84,726	107,636	148,349	197,836	178,307	172,814
thiodicarb	680	192	656	206	247	N/A	N/A	N/A	<1	N/A
triallate	N/A	867	1,854	2,715	2,998	3,918	3,221	3,665	1,064	2,525
trichlorfon	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total	3,472,056	4,006,991	4,068,608	3,636,104	4,058,823	3,883,027	3,492,728	3,263,135	3,328,994	2,968,755