

## USE TRENDS OF CHOLINESTERASE-INHIBITING PESTICIDES.

Table 7: The reported pounds of pesticides used that are organophosphorus or carbamate cholinesterase-inhibiting pesticides. Use includes both agricultural and reportable nonagricultural applications. Data are available at <http://transfer.cdpr.ca.gov/pub/outgoing/pur/data/>.

AI	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
ACEPHATE	152,303	112,562	134,993	152,518	130,307	185,130	144,640	170,762	159,341	190,987
ALDICARB	75,767	31,579	64,626	24,167	1,489	1,487	126	0	0	0
AZINPHOS-METHYL	16,269	13,045	1,619	1,582	1,232	32	0	1	0	1
BENDIACARB	2	<1	1	3	3	2	4	1	4	3
BENSULIDE	244,526	247,735	271,835	288,429	267,034	285,471	319,400	346,137	293,204	282,285
BUTYLATE	27	0	299	0	0	88	53	0	10	0
CARBARYL	126,678	135,264	113,066	74,772	113,864	117,252	131,744	155,525	221,095	107,433
CARBOFURAN	16,389	10,117	4	1	0	0	0	0	0	0
CARBOPHENOTHION	0	4	51	4	1,204	0	0	0	0	<1
CHLORPYRIFOS	1,368,568	1,246,560	1,288,100	1,299,315	1,103,961	1,469,298	1,312,361	1,107,417	903,067	945,639
COUMAPHOS	0	0	<1	3	3	14	0	1	0	<1
CROTOXYPHOS	0	0	0	0	0	0	0	0	<1	0
CYCLOATE	21,242	25,284	27,292	31,037	33,562	30,619	36,566	39,655	45,150	49,844
DDVP	6,862	4,169	4,176	5,287	4,732	4,627	4,034	4,082	3,868	3,453
DDVP, OTHER RELATED	449	217	194	259	270	278	162	165	123	114
DEMETON	0	2	0	0	0	0	0	0	0	0
DIAZINON	258,544	142,061	126,804	86,636	78,479	61,224	61,126	52,665	48,991	72,466
DICROTOPHOS	0	0	0	0	0	0	5	<1	0	0
DIMETHOATE	292,119	251,726	210,128	226,155	183,006	270,167	334,563	288,376	243,733	222,862
DIOXATHION	0	<1	2	0	0	9	0	0	0	<1
DIOXATHION, OTHER RELATED	0	<1	1	0	0	4	0	0	0	<1
DISULFOTON	8,028	10,233	9,085	4,351	5,479	1,924	2,219	415	10	12
EPN	0	0	528	13	8	20	425	1	2	<1
EPTC	129,470	128,993	118,509	125,570	168,665	187,349	235,271	237,983	255,431	259,643
ETHEPHON	296,421	207,788	373,581	547,745	484,338	397,059	348,653	319,327	399,149	482,915
ETHION	2	28	72	<1	44	0	<1	1	0	<1
ETHOPROP	26,897	20,793	5,495	7,475	2,077	2,502	3,076	1,820	2,023	2,134
FENAMIPHOS	17,482	11,493	8,978	2,964	5,254	2,244	865	97	143	106
FENTHION	4	9	4	<1	0	0	<1	0	<1	0
FONOFOS	1	0	<1	0	0	0	0	0	0	0
FORMETANATE HYDROCHLORIDE	44,704	32,670	30,313	20,952	20,446	26,912	28,333	31,172	42,037	36,709
MALATHION	484,322	531,966	560,117	511,954	405,039	446,890	502,997	443,128	355,024	331,585
MERPHOS	0	0	4	0	0	0	0	0	0	0
MERPHOS, OTHER RELATED	0	0	<1	0	0	0	0	0	0	0
METHAMIDOPHOS	24,224	17,934	9,664	6,037	<1	55	0	0	0	1
METHIDATHION	47,203	47,319	51,190	29,545	23,396	6,375	3,614	245	146	11
METHIOCARB	2,068	3,093	3,506	2,708	3,782	3,679	3,722	3,371	2,801	2,798
METHOMYL	251,382	221,248	231,690	219,993	273,300	260,598	278,741	282,501	260,616	233,536

Table 7: (continued) *The reported pounds of pesticides used that are organophosphorus or carbamate cholinesterase-inhibiting pesticides.*

AI	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
METHYL PARATHION	34,110	25,770	21,512	22,819	25,408	21,520	481	182	24	5
METHYL PARATHION, OTHER RELATED	1,792	1,355	1,132	1,187	1,334	1,131	<1	5	<1	0
MEVINPHOS	4	9	24	118	3	<1	8	9	4	0
MEVINPHOS, OTHER RELATED	3	6	16	79	2	0	5	6	3	0
MEXACARBATE	0	0	0	0	0	1	0	0	0	0
MOLINATE	19,653	12,516	24	<1	3	<1	<1	<1	5	0
NALED	172,632	162,530	174,280	199,160	152,971	218,690	225,285	288,473	316,894	282,400
OXAMYL	100,000	48,994	118,048	136,967	52,981	72,993	65,805	17,236	2,466	38,302
OXYDEMETON-METHYL	111,612	68,576	71,290	26,017	17,562	10,656	8,407	6,610	3,764	1,533
PARATHION	33	118	248	196	25	<1	1	836	41	3
PARATHION, OTHER RELATED	1	1	9	<1	<1	0	0	1	<1	0
PEBULATE	68	0	0	0	0	0	0	0	0	0
PHORATE	32,408	17,686	14,775	46,152	61,545	30,909	32,683	19,519	20,378	29,897
PHOSACETIN	0	0	0	0	0	<1	<1	<1	0	<1
PHOSMET	341,422	132,647	115,008	95,781	53,587	60,903	44,344	19,278	28,922	16,467
PHOSPHAMIDON	0	0	24	0	0	0	0	0	6	0
PHOSPHAMIDON, OTHER RELATED	0	0	1	0	0	0	0	0	<1	0
PIRIMICARB	5	2	1	1	0	0	0	0	0	0
POTASSIUM DIMETHYL DITHIO CARBAMATE	0	<1	0	0	0	0	0	0	0	0
PROFENOFOS	216	0	1,552	0	58	0	0	0	0	0
PROPETAMPHOS	116	352	213	139	171	127	3,047	5	2	<1
PROPOXUR	188	202	298	808	359	373	251	100	49	43
RONNEL	<1	0	0	1	0	1	1	112	16	12
S,S,S-TRIBUTYL PHOSPHOTRITHIOATE	16,335	8,161	18,427	30,328	21,820	19,077	11,683	6,472	6,882	8,151
SODIUM DIMETHYL DITHIO CARBAMATE	9,800	8,963	11,053	13,358	13,485	22,187	16,535	9,357	18,414	18,854
SULFOTEP	4	2	0	1	0	0	0	0	0	0
TEMEPHOS	684	83	99	34	17	8	10	5	3	4
TEPP	0	0	1	0	0	0	0	0	0	0
TEPP, OTHER RELATED	0	0	2	0	0	0	0	0	0	0
TETRACHLORVINPHOS	1,012	1,306	1,086	870	628	2,660	629	173	66	55
THIOBENCARB	263,499	320,643	258,402	246,927	280,678	289,946	373,930	523,582	698,888	603,226
THIODICARB	410	511	152	472	145	156	0	0	0	1
TRIALATE	0	0	879	2,671	3,752	4,530	5,886	4,830	5,217	1,568
TRICHLORFON	961	25	34	40	29	25	11	<1	<1	<1
TOTAL	5,018,921	4,264,347	4,454,515	4,493,601	3,997,537	4,517,205	4,541,700	4,381,639	4,338,012	4,225,056