

Table 3B. Pesticide compounds measured in ground-water samples from all wells in the Southern Sacramento Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study unit, California, 2005.

[The five digit USGS parameter code is used in the USGS's computerized data system, the National Water Information System, to uniquely identify a specific constituent or property. CAS, Chemical Abstracts Service; GAMA, Ground-Water Ambient Monitoring and Assessment; HA-L, lifetime health advisory; LRL, laboratory reporting level; MCL-CA, California Department of Health Services Maximum Contaminant Level; MCL-US, U.S. Environmental Protection Agency Maximum Contaminant Level; na, not available; RSD5, specific dose at a cancer risk level of 1 in 100,000, or 10E-5; µg/L, microgram per liter]

Constituent	Detected in ground-water samples in this study	USGS parameter Code	Constituent class	CAS number	LRL (µg/L)	Threshold (µg/L)	Threshold type
Acetochlor	no	49260	Herbicide	34256-82-1	0.006	na	na
Alachlor	no	46342	Herbicide	15972-60-8	0.005	2	MCL-US
Atrazine	yes	39632	Herbicide	1912-24-9	0.007	1	MCL-CA
Azinphos-methyl	no	82686	Degradate	86-50-0	0.05	na	na
Azinphos-methyl-oxon	no	61635	Degradate	961-22-8	0.07	na	na
Benfluralin	yes	82673	Degradate	1861-40-1	0.01	na	na
Carbaryl	no	82680	Degradate	63-25-2	0.041	700	HA-L
Carbofuran	no	82674	Herbicide	1563-66-2	0.016	18	MCL-CA
2-Chloro-2,6-diethylacetanilide	no	61618	Degradate	6967-29-9	0.005	na	na
2-Chloro-4-isopropylamino-6-amino-s-triazine	yes	04040	Degradate	6190-65-4	0.028	na	na
4-Chloro-2-methylphenol	no	61633	Degradate	1570-64-5	0.0056	na	na
Chlorpyrifos	no	38933	Insecticide	2921-88-2	0.005	20	HA-L
Cyfluthrin	no	61585	Insecticide	68359-37-5	0.0267	na	na
λ-Cyhalothrin	no	61595	Insecticide	91465-08-6	0.0089	na	na
Cypermethrin	no	61586	Insecticide	52315-07-8	0.0086	na	na
Dacthal	yes	82682	Herbicide	1861-32-1	0.003	70	HA-L
Desulfinylfipronil	no	62170	Degradate	na	0.012	na	na
Desulfinylfipronil amide	no	62169	Degradate	na	0.029	na	na
Diazinon	no	39572	Insecticide	333-41-5	0.005	0.6	HA-L
Diazinon, oxygen analog	no	61638	Degradate	962-58-3	0.01	na	na
3,4-Dichloroaniline	yes	61625	Degradate	95-76-1	0.0045	na	na
Dichlorvos	no	38775	Fumigant	62-73-7	0.0118	na	na
Dicrotophos	no	38454	Insecticide	141-66-2	0.0843	na	na
Dieldrin	yes	39381	Insecticide	60-57-1	0.009	0.02	RSD5
2,6-Diethylaniline	no	82660	Degradate	579-66-8	0.006	na	na
Dimethoate	no	82662	Insecticide	60-51-5	0.0061	na	na
Ethion	no	82346	Insecticide	563-12-2	0.004	na	na
Ethion monoxon	no	61644	Degradate	17356-42-2	0.002	na	na
2-Ethyl-6-methylaniline	no	61620	Degradate	24549-06-2	0.0045	na	na
Fenamiphos	no	61591	Insecticide	22224-92-6	0.029	2	HA-L
Fenamiphos sulfone	no	61645	Degradate	31972-44-8	0.0491	na	na
Fenamiphos sulfoxide	no	61646	Degradate	31972-43-7	0.0387	na	na
Fipronil	no	62166	Insecticide	120068-37-3	0.016	na	na
Fipronil sulfide	no	62167	Degradate	120067-83-6	0.013	na	na
Fipronil sulfone	no	62168	Degradate	120068-36-2	0.024	na	na

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Constituent	Detected in ground-water samples in this study	USGS parameter Code	Constituent class	CAS number	LRL (µg/L)	Threshold (µg/L)	Threshold type
Fonofos	no	04095	Insecticide	944-22-9	0.003	10	HA-L
Hexazinone	yes	04025	Herbicide	51235-04-2	0.0129	400	HA-L
Iprodione	no	61593	Fungicide	36734-19-7	0.538	na	na
Isofenphos	yes	61594	Insecticide	25311-71-1	0.0034	na	na
Malaoxon	no	61652	Degradate	1634-78-2	0.0298	na	na
Malathion	no	39532	Insecticide	121-75-5	0.027	100	HA-L
Metalaxyl	yes	61596	Fungicide	57837-19-1	0.0051	na	na
Methidathion	no	61598	Insecticide	950-37-8	0.0058	na	na
Metolachlor	yes	39415	Herbicide	51218-45-2	0.006	100	HA-L
Metribuzin	no	82630	Herbicide	21087-64-9	0.006	200	HA-L
Molinate	yes	82671	Herbicide	2212-67-1	0.0016	20	MCL-CA
Myclobutanil	no	61599	Fungicide	88671-89-0	0.008	na	na
1-Naphthol	no	49295	Degradate	90-15-3	0.0882	na	na
Paraoxon-methyl	no	61664	Degradate	950-35-6	0.0299	na	na
Parathion-methyl	no	82667	Insecticide	298-00-0	0.015	na	na
Pendimethalin	no	82683	Herbicide	40487-42-1	0.022	na	na
<i>cis</i> -Permethrin	no	82687	Insecticide	54774-45-7	0.006	na	na
Phorate	no	82664	Insecticide	298-02-2	0.011	na	na
Phorate oxygen analog	no	61666	Degradate	2600-69-3	0.1048	na	na
Phosmet	no	61601	Insecticide	732-11-6	0.0079	na	na
Phosmet oxon	no	61668	Degradate	3735-33-9	0.0511	na	na
Prometon	yes	04037	Herbicide	1610-18-0	0.01	100	HA-L
Prometryn	no	04036	Herbicide	7287-19-6	0.0054	na	na
Propanil	no	82679	Herbicide	709-98-8	0.011	na	na
<i>cis</i> -Propiconazole	no	79846	Fungicide	60207-90-1	0.008	na	na
<i>trans</i> -Propiconazole	no	79847	Fungicide	60207-90-1	0.0133	na	na
Propyzamide	no	82676	Herbicide	23950-58-5	0.004	na	na
Simazine	yes	04035	Herbicide	122-34-9	0.005	4	MCL-US
Tebuthiuron	yes	82670	Herbicide	34014-18-1	0.016	500	HA-L
Terbufos	no	82675	Insecticide	13071-79-9	0.017	0.9	HA-L
Terbufos oxygen analog sulfone	no	61674	Degradate	56070-15-6	0.0676	na	na
Terbutylazine	no	04022	Herbicide	5915-41-3	0.0102	na	na
Thiobencarb	no	82681	Herbicide	28249-77-6	0.0048	70	MCL-CA
Trifluralin	yes	82661	Herbicide	1582-09-8	0.009	5	HA-L