

Table 3C. Pesticide compounds measured in ground-water samples from 43 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 groundwater samples in this study	USGS parameter code	Constituent class	CAS number	LRL (µg/L)	Threshold (µg/L)	Threshold type
Acifluorfen	no	49315	Herbicide	50594-66-6	0.028	na	na
Aldicarb	no	49312	Insecticide	116-06-3	0.04	3	MCL-US
Aldicarb sulfone	no	49313	Degradate	1646-88-4	0.018	3	MCL-US
Aldicarb sulfoxide	no	49314	Degradate	1646-87-3	0.022	4	MCL-US
Bendiocarb	no	50299	Insecticide	22781-23-3	0.02	na	na
Benomyl	no	50300	Fungicide	17804-35-2	0.022	na	na
Bensulfuron-methyl	no	61693	Herbicide	83055-99-6	0.018	na	na
Bentazon	yes	38711	Herbicide	25057-89-0	0.012	18	MCL-CA
Bromacil	yes	04029	Herbicide	314-40-9	0.018	90	HA-L
Bromoxynil	no	49311	Herbicide	1689-84-5	0.028	na	na
Caffeine	yes	50305	Beverages	58-08-2	0.018	na	na
Chloramben, methyl ester	no	61188	Herbicide	7286-84-2	0.024	na	na
Chlorimuron-ethyl	no	50306	Herbicide	90982-32-4	0.032	na	na
2-Chloro-6-ethylamino-4-amino- <i>s</i> -triazine	yes	04038	Degradate	1007-28-9	0.08	na	na
3(4-Chlorophenyl)-1-methyl urea	no	61692	Degradate	5352-88-5	0.036	na	na
Clopyralid	no	49305	Herbicide	1702-17-6	0.024	na	na
Cycloate	no	04031	Herbicide	1134-23-2	0.014	na	na
2,4-D ¹	yes	39732	Herbicide	94-75-7	0.038	70	MCL-US
Dacthal monoacid	no	49304	Degradate	887-54-7	0.028	na	na
2,4-DB	no	38746	Herbicide	94-82-6	0.02	na	na
Dicamba	no	38442	Herbicide	1918-00-9	0.036	200	HA-L
Dichlorprop	no	49302	Herbicide	120-36-5	0.028	na	na
Dinoseb	no	49301	Herbicide	88-85-7	0.038	7	MCL-US
Diphenamid	yes	04033	Herbicide	957-51-7	0.01	200	HA-L
Diuron	yes	49300	Herbicide	330-54-1	0.014	10	HA-L
2,4-D methyl ester ¹	no	50470	Herbicide	1928-38-7	0.016	na	na
Fenuron	yes	49297	Herbicide	101-42-8	0.018	na	na
Flumetsulam	no	61694	Herbicide	98967-40-9	0.04	na	na
Fluometuron	no	38811	Herbicide	2164-17-2	0.016	90	HA-L
3-Hydroxycarbofuran	no	49308	Degradate	16655-82-6	0.008	na	na
2-Hydroxy-4-isopropylamino-6-ethylamino- <i>s</i> -triazine	yes	50355	Degradate	2163-68-0	0.032	na	na
Imazaquin	no	50356	Herbicide	81335-37-7	0.036	na	na
Imazethapyr	no	50407	Herbicide	81335-77-5	0.038	na	na
Imidacloprid	no	61695	Insecticide	138261-41-3	0.02	na	na
Linuron	no	38478	Herbicide	330-55-2	0.014	na	na
MCPA	no	38482	Herbicide	94-74-6	0.03	4	HA-L
MCPB	no	38487	Herbicide	94-81-5	0.01	na	na
Methiocarb	no	38501	Insecticide	2032-65-7	0.01	na	na

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Constituent	Detected in groundwater samples in this study	USGS parameter code	Constituent class	CAS number	LRL (µg/L)	Threshold (µg/L)	Threshold type
Methomyl	no	49296	Insecticide	16752-77-5	0.02	200	HA-L
Metsulfuron methyl	no	61697	Herbicide	74223-64-6	0.025	na	na
Neburon	no	49294	Herbicide	555-37-3	0.012	na	na
Nicosulfuron	no	50364	Herbicide	111991-09-4	0.04	na	na
Norflurazon	no	49293	Herbicide	27314-13-2	0.02	na	na
Oryzalin	no	49292	Herbicide	19044-88-3	0.012	na	na
Oxamyl	no	38866	Insecticide	23135-22-0	0.03	50	MCL-CA
Picloram	no	49291	Herbicide	1918-02-1	0.032	500	MCL-US
Propham	no	49236	Herbicide	122-42-9	0.03	100	HA-L
Propiconazole	no	50471	Fungicide	60207-90-1	0.01	na	na
Propoxur	no	38538	Insecticide	114-26-1	0.008	na	na
Siduron	no	38548	Herbicide	1982-49-6	0.02	na	na
Sulfometuron-methyl	no	50337	Herbicide	74222-97-2	0.038	na	na
Terbacil	no	04032	Herbicide	5902-51-2	0.016	90	HA-L
Tribenuron-methyl	no	61159	Herbicide	101200-48-0	0.0088	na	na
Triclopyr	no	49235	Herbicide	55335-06-3	0.026	na	na

¹The two compounds 2,4-D and 2,4-D methyl ester may chemically transform into each another during analysis.