

Table 3C. Pesticides and pesticide degradates, primary uses or sources, comparative thresholds, and reporting information for the USGS National Water Quality Laboratory schedule 2003.

[The five-digit USGS parameter code is used to uniquely identify a specific constituent or property. CAS, Chemical Abstract Service; LRL, laboratory reporting level; HAL-US, U.S. Environmental Protection Agency Lifetime Health Advisory; MCL-CA, California Department of Public Health maximum contaminant level; MCL-US, U.S. Environmental Protection Agency maximum contaminant level; RSD5-US, U.S. Environmental Protection Agency risk-specific dose at a risk factor of 10⁻⁵; D, detected in ground-water samples (table 6); na, not available; µg/L, micrograms per liter; —, not detected]

Constituent	Primary use or source	USGS parameter code	CAS number	LRL (µg/L)	Threshold type ¹	Threshold value (µg/L)	Detection
Acetochlor	Herbicide	49260	34256-82-1	0.006	na	na	—
Alachlor	Herbicide	46342	15972-60-8	0.005	MCL-US	2	—
Atrazine	Herbicide	39632	1912-24-9	0.007	MCL-CA	1	D
Azinphos-methyl	Insecticide	82686	86-50-0	0.05	na	na	—
Azinphos-methyl-oxon	Insecticide degradate	61635	961-22-8	0.042	na	na	—
Benfluralin	Herbicide	82673	1861-40-1	0.01	na	na	— ⁽²⁾
Carbaryl	Insecticide	82680	63-25-2	0.041	RSD5-US	400	—
2-Chloro-2,6-diethylacetanilide	Herbicide degradate	61618	6967-29-9	0.0065	na	na	—
4-Chloro-2-methylphenol	Herbicide degradate	61633	1570-64-5	0.0050	na	na	— ⁽²⁾
Chlorpyrifos	Insecticide	38933	2921-88-2	0.005	HAL-US	2	—
Chlorpyrifos, oxygen analog	Insecticide degradate	61636	5598-15-2	0.0562	na	na	— ⁽²⁾
Cyfluthrin	Insecticide	61585	68359-37-5	0.053	na	na	— ⁽²⁾
Cypermethrin	Insecticide	61586	52315-07-8	0.046	na	na	— ⁽²⁾
Dacthal (DCPA)	Herbicide	82682	1861-32-1	0.003	HAL-US	70	—
Deethylatrazine (2-Chloro-4-isopropylamino-6-amino-s-triazine)	Herbicide degradate	04040	6190-65-4	0.014	na	na	D ⁽²⁾
Desulfinylfipronil	Insecticide degradate	62170	na	0.012	na	na	—
Desulfinylfipronil amide	Insecticide degradate	62169	na	0.029	na	na	—
Diazinon	Insecticide	39572	333-41-5	0.005	HAL-US	1	—
Diazinon, oxon	Insecticide degradate	61638	962-58-3	0.006	na	na	—
3,4-Dichloroaniline	Herbicide degradate	61625	95-76-1	0.0045	na	na	—
Dichlorvos	Insecticide	38775	62-73-7	0.013	na	na	— ⁽²⁾
Dicrotophos	Insecticide	38454	141-66-2	0.0843	na	na	— ⁽²⁾
Dieldrin	Insecticide	39381	60-57-1	0.009	RSD5-US	0.02	—
2,6-Diethylaniline	Herbicide degradate	82660	579-66-8	0.006	na	na	—
Dimethoate	Insecticide	82662	60-51-5	0.0061	na	na	— ⁽²⁾
Ethion	Insecticide	82346	563-12-2	0.016	na	na	—
Ethion monoxon	Insecticide degradate	61644	17356-42-2	0.021	na	na	—
2-Ethyl-6-methylaniline	Herbicide degradate	61620	24549-06-2	0.010	na	na	—
Fenamiphos	Insecticide	61591	22224-92-6	0.029	HAL-US	0.7	—
Fenamiphos sulfone	Insecticide degradate	61645	31972-44-8	0.053	na	na	—
Fenamiphos sulfoxide	Insecticide degradate	61646	31972-43-7	0.040	na	na	—
Fipronil	Insecticide	62166	120068-37-3	0.016	na	na	—
Fipronil sulfide	Insecticide degradate	62167	120067-83-6	0.013	na	na	D
Fipronil sulfone	Insecticide degradate	62168	120068-36-2	0.024	na	na	— ⁽²⁾
Fonofos	Insecticide	04095	944-22-9	0.0053	HAL-US	10	—
Hexazinone	Herbicide	04025	51235-04-2	0.026	HAL-US	400	—
Iprodione	Fungicide	61593	36734-19-7	0.026	na	na	—
Isofenphos	Insecticide	61594	25311-71-1	0.011	na	na	—
Malaoxon	Insecticide degradate	61652	1634-78-2	0.039	na	na	—
Malathion	Insecticide	39532	121-75-5	0.027	HAL-US	100	—
Metalaxyl	Fungicide	61596	57837-19-1	0.0069	na	na	—
Methidathion	Insecticide	61598	950-37-8	0.0087	na	na	—
Metolachlor	Herbicide	39415	51218-45-2	0.006	HAL-US	700	—
Metribuzin	Herbicide	82630	21087-64-9	0.028	HAL-US	70	—
Myclobutanil	Fungicide	61599	88671-89-0	0.033	na	na	—

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Constituent	Primary use or source	USGS parameter code	CAS number	LRL (µg/L)	Threshold type ¹	Threshold value (µg/L)	Detection
1-Naphthol	Insecticide degradate	49295	90-15-3	0.0882	na	na	— ²
Paraoxon-methyl	Insecticide degradate	61664	950-35-6	0.019	na	na	— ²
Parathion-methyl	Insecticide	82667	298-00-0	0.015	HAL-US	1	—
Pendimethalin	Herbicide	82683	40487-42-1	0.022	na	na	—
<i>cis</i> -Permethrin	Insecticide	82687	54774-45-7	0.006	na	na	— ⁽²⁾
Phorate	Insecticide	82664	298-02-2	0.055	na	na	—
Phorate oxon	Insecticide degradate	61666	2600-69-3	0.027	na	na	—
Phosmet	Insecticide	61601	732-11-6	0.0079	na	na	— ⁽²⁾
Phosmet oxon	Insecticide degradate	61668	3735-33-9	0.0511	na	na	— ⁽²⁾
Prometon	Herbicide	04037	1610-18-0	0.01	HAL-US	100	D
Prometryn	Herbicide	04036	7287-19-6	0.0059	na	na	—
Pronamide (Propyzamide)	Herbicide	82676	23950-58-5	0.004	RSD5-US	20	—
Simazine	Herbicide	04035	122-34-9	0.005	MCL-US	4	D
Tebuthiuron	Herbicide	82670	34014-18-1	0.016	HAL-US	500	—
Terbufos	Insecticide	82675	13071-79-9	0.017	HAL-US	0.4	—
Terbufos oxon sulfone	Insecticide degradate	61674	56070-15-6	0.045	na	na	—
Terbuthylazine	Herbicide	04022	5915-41-3	0.0083	na	na	—
Trifluralin	Herbicide	82661	1582-09-8	0.009	HAL-US	10	—

¹Maximum contaminant level thresholds are listed as MCL-US when the MCL-US and MCL-CA are identical, and as MCL-CA when the MCL-CA is lower than the MCL-US or no MCL-US exists.

²The median matrix-spike recovery was less than 70 percent. Low recoveries may indicate that the compound might not have been detected in some samples if it was present at very low concentrations.