SAMPLING FOR PESTICIDE RESIDUES IN CALIFORNIA WELL WATER

2012 Update

Twenty-seventh Annual Report

Pursuant to the
Pesticide Contamination Prevention Act

California Environmental Protection Agency
DEPARTMENT OF PESTICIDE REGULATION

March 2013

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California Environmental Protection Agency
California Department of Pesticide Regulation
Environmental Monitoring Branch
Ground Water Protection Program
1001 I Street, Sacramento, California 95814

PREFACE

This report fulfills the requirements of AB 2701 (Chapter 644, Statutes of 2004), which amended the Pesticide Contamination Prevention Act of 1985 (PCPA) to require the Department of Pesticide Regulation (DPR) to post specified information on sampling for pesticide residues in California ground water to its Web site. This law replaced the previous requirement that DPR submit the sampling information in a written report to the Legislature, State Water Resource Control Board (SWRCB), and the California Department of Public Health (CDPH).

ACKNOWLEDGEMENTS

The authors wish to thank the reviewers whose unique perspectives and experiences helped ensure the accuracy and readability of this report. We gratefully acknowledge the staff of DPR and cooperating federal, state, local, and private agencies for contributing to the database.

DISCLAIMER

As required by the PCPA, this report discusses the source of active ingredients, contained in registered pesticide products, which have been found in ground water. DPR provides this information to satisfy legal mandates and inform the public. Any discussion of commercially available pesticide products, or the way they are applied, does not constitute an actual or implied endorsement of these products by DPR.

ABBREVIATIONS

1,2-D	1,2-dichloropropane (propylene dichloride)
1,3-D	1,3-dichloropropene (Telone)
2,4-D	2,4-dichlorophenoxyacetic acid
2,4-DB acid	4-(2,4-dichlorophenoxy) butyric acid
2,4-DP-P	dichlorophenoxy propionic acid
2,4,5-T	2,4,5-trichloro phenoxy acetic acid
3 CCR	Title 3, California Code of Regulations
ACET	deethyl-simazine or deisopropyl-atrazine
ARB	Air Resources Board
CAC	County Agricultural Commissioner
CDFA	California Department of Food and Agriculture
CDPH	California Department of Public Health
DACT	diaminochlorotriazine
DBCP	1,2-dibromo-3-chloropropane
DDD	dichloro diphenyl dichloro ethane
DDE	dichloro diphenyl dichloro ethylene
DDT	dichloro diphenyl trichloro ethane
DDVP	Dichlorvos
DEA	deethyl-atrazine
DFG	Department of Fish and Game
DSMN	desmethyl norflurazon
DPR	Department of Pesticide Regulation
DWR	Department of Water Resources
EDB	ethylene dibromide
EPTC	S-Ethyl-dipropylthiocarbamate
ESA	ethanesulonic acid
FAC	Food and Agriculture Code
GAMA	Groundwater Ambient Monitoring and Assessment
GWPA	ground water protection area
GWPL	Groundwater Protection List
LEACHM	Leaching Estimation and Chemistry Model
LLNL	Lawrence Livermore National Lab
MCL	Maximum Contaminant Level
MCPA	2-methyl-4-chlorophenoxyacetic acid
MCPB	methyl-4-chlorophenoxy butyric acid
MCPP	2-(4-chloro-2-methylphenoxy)propionic acid
MTP	monomethyl 2,3,5,6-tetrachloroterephthalate
OEHHA	Office of Environmental Health Hazard Assessment
OIET	Atrazine-2-hydroxy
OXA	oxanilic acid
PCPA	Pesticide Contamination Prevention Act
PHG	Public Health Goal
PMZ	Pesticide Management Zone
ppb	parts per billion
RWQCB	Regional Water Quality Control Board
SNV	specific numerical values
SWRCB	State Water Resources Control Board

TPA	total combined parent and acid degradates
Tebuthiuron degradate 104	(N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N-methylurea)
Tebuthiuron degradate 106	(N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-urea)
Tebuthiuron degradate 107	(2-Dimethylethyl-5-methylamino-1,3,4-thiadiazole)
Tebuthiuron degradate 108	(2-Dimethylethyl-5-amino-1,3,4-thiadiazole)
USGS	U.S. Geological Survey
U.S. EPA	U.S. Environmental Protection Agency

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INTRODUCTION

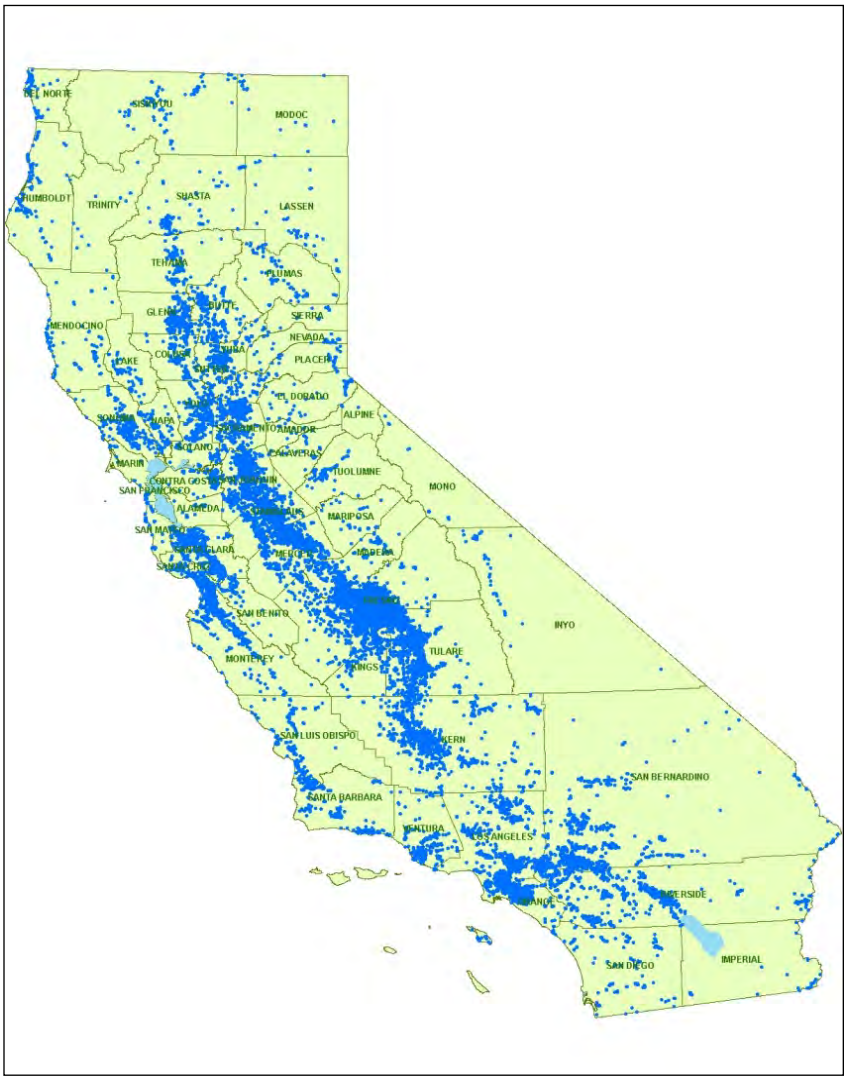
The Pesticide Contamination Prevention Act (PCPA) (Chapter 1298, Statutes of 1985, AB 2021), which added sections 13141-13152 to the Food and Agriculture Code (FAC), requires the Department of Pesticide Regulation (DPR) to do the following:

- Maintain a database of well sampling results reported to DPR by local, county, and State agencies that monitor ground water for pesticides.
- Prepare an annual report that summarizes the reported monitoring results, analyzes those results to determine the probable source of the residues, and specifies the actions taken by DPR for nonpoint agricultural sources and by the State Water Resources Control Board (SWRCB) for point sources to prevent further contamination of ground water.

WELL SAMPLING DATABASE

In the early 1980s as required by FAC section 13152(d), DPR established the Well Inventory Database and began collecting ground water monitoring data from public agencies engaged in sampling ground water for pesticides. Currently, the database contains over 2 million pesticide sample analyses submitted by 45 agencies (Appendix A). These data include over 25,000 public and private wells that have been sampled for over 360 different pesticides and pesticide degradates (Figure 1). Although there are a large number of contributors, most of the data comes from the California Department of Public Health (CDPH) (85%), SWRCB (8%), and DPR (3%).

Figure 1. Wells in the DPR well inventory database.



The Well Inventory Database includes the following information:

- State well number assigned by the Department of Water Resources (DWR)
- Well location , including latitude and longitude and township, range and section
- Well type
- Sampling agency
- Analyzing laboratory,
- Sample date and type (e.g., initial or confirmation),
- Chemical analyzed, and
- Sample results, in parts per billion (ppb)

Well sampling data can be obtained by contacting DPR's Ground Water Protection Program at 916-324-4039. Due to privacy concerns, DPR does not release well owner information or the specific locations of sampled wells.

WELL SAMPLING REPORT

This report satisfies the requirements of FAC section 13152(e) by providing well sampling results collected by SWRCB from 2004 to 2011, CDPH in 2011, and DPR in 2011, and assessing the probable sources of the detected residues. This report also summarizes the actions taken in 2011 by DPR and SWRCB to prevent migration of pesticides to ground water from nonpoint agricultural sources and point sources, respectively. Although DPR is required to provide the locations of sampled wells, due to the number of wells sampled each year and out of concern for well owner privacy and security, DPR summarizes this information by county. As noted above, DPR can provide additional location information, including the township, range, and section where the well is located, upon request.

While DPR's Well Inventory Database includes the results of thousands of wells sampled for hundreds of pesticides, it does not provide a comprehensive assessment of ground water quality throughout California due to the varying regulatory responsibilities of reporting agencies that sample ground water. The regulatory responsibilities unique to the various reporting agencies determine the pesticides selected for sampling; the sensitivity of the laboratory analyses used; the locations and well types sampled; and the sampling frequency of a specific well or pesticide. For example, DPR primarily samples shallow, domestic wells in areas where agricultural pesticides are used to detect and mitigate potential contamination as early as possible. In contrast, CDPH satisfies the requirements of the federal and California Safe Drinking Water Acts by requiring public water systems to monitor drinking water supply wells for an established list of pesticides and degradates regardless of whether they were ever used near the wells. The statewide Priority Basin Project, overseen by the SWRCB Groundwater Ambient Monitoring and Assessment (GAMA) Program, is a long-term statistical study that was undertaken to assess the overall quality of the ground water used for consumption. Like CDPH, pesticide sampling occurs based on the study plan, not on the frequency or intensity of use near the target wells. Due to the variety in purpose of data collection, the various analytical methods and detection limits, and the lack of knowledge on the sources of pesticide contamination, the data should not be viewed as a systematic assessment of all the ground water in California used for drinking water.

PRINCIPAL SAMPLING AGENCIES

DEPARTMENT OF PESTICIDE REGULATION

California has regulated pesticides for more than a century. Its citizens – through their Legislature – have established a comprehensive body of law to control pesticide sales and use, and to assure that the state's pesticide regulators also have the tools to assess the impacts of that use. The first pesticide-related law was passed in this state in 1901, and since the 1960s, a whole body of modern, increasingly science-based pesticide law and regulation has come into being.

The mission of DPR is to protect human health and the environment by regulating pesticide sales and use, and by fostering reduced-risk pest management. DPR's strict oversight begins with product evaluation and registration and continues through statewide licensing of pesticide professionals; evaluation of health effects of pesticides through risk assessment and illness surveillance; environmental monitoring of air, water and soil; residue testing of fresh produce; and encouraging development and adoption of least-toxic pest management practices through incentives and grants. In 2011, DPR had an annual budget of roughly $79 million and a staff of about 415, with a high proportion of scientists from many disciplines. DPR partners with county agricultural commissioners (CACs) and their staffs who enforce pesticide laws in their counties.

The FAC directs DPR to protect the environment and continuously evaluate currently registered products. The continuous evaluation of pesticides supports the certification of DPR's regulatory program as the functional equivalent of an environment impact statement under the California Environmental Quality Act. Environmental data collected by DPR are critical to the department's continuing evaluation of pesticide use. The environmental data also helps DPR carry out programs to prevent pesticide pollution. Scientists design and conduct studies to provide data that help assess human exposures and ecological effects of pesticide residues in the environment.

Specific examples include:

- Evaluating the effect of application methods and management practices on the movement of pesticides.
- Monitoring the off-site movement of pesticides after application to evaluate the potential for contamination of air, surface or ground water, or crops.
- Conducting studies to develop and evaluate measures designed to mitigate the adverse effects of pesticides.
- Monitoring the environment involves taking samples and analyzing them for specific chemical residues. DPR develops sampling methods for pesticide residues and provides funding to the California Department of Food and Agriculture (CDFA) Center for Analytical Chemistry for analytical method development.

Projects focus on monitoring under field conditions specific to California. Other agencies that may also sample for pesticides in the environment include the U.S. Environmental Protection Agency (U.S. EPA) and state agencies such as the Air Resources Board, SWRCB, Regional Water Quality Control Boards (RWQCB), Department of Fish and Game, and CDPH. Although these data are useful to DPR, the purpose of such sampling is to meet their specific legal mandates or program objectives and do not

necessarily fit DPR's objectives. If pesticides are detected by other agencies, DPR may conduct more sampling to confirm the detections, characterize the nature and extent of the detections and, if necessary, determine how the off-site movement of pesticides may be mitigated.[1]

PROTECTING GROUND WATER – THE PCPA

The Legislature enacted the PCPA in 1985, to address ground water contamination that had resulted from the agricultural use of 1,2-dibromo-3-chloropropane (DBCP), ethylene dibromide (EDB) and other pesticides. DPR's Ground Water Protection Program is based on general authority in the FAC to protect the environment from harmful pesticides and specific authority in the PCPA that establishes a process to prevent the further pollution[2] of ground water used for drinking water supplies by agricultural pesticides.

To implement the PCPA, DPR:

- Obtains environmental fate data from pesticide registrants to support the registration of agricultural use pesticides.[3]
- Uses those data to identify agricultural use pesticides with the potential to pollute ground water by:
  - Establishing specific numerical values (SNVs), or threshold values, for persistence and mobility – characteristics that strongly indicate the potential of a pesticide to leach through soil to ground water, and
  - Identifying registered agricultural use pesticides that exceed SNVs for both persistence and mobility.
- Adds agricultural pesticides that exceed the SNVs and are applied in specified ways to the Ground Water Protection List (GWPL) (Title 3, California Code of Regulations [3 CCR] section 6800[b]) and then monitors for them to determine if they have migrated to ground water.
- Determines whether a pesticide detected in ground water was due to legal[4] agricultural use and, if so, conducts a formal hearing to determine whether continued use of a pesticide found in ground water due to legal agricultural use should be allowed.
- Adopts mitigation measures to prevent pollution of ground water if continued use is allowed following a formal hearing.

To facilitate the primary goal of preventing further pollution of ground water, DPR developed several key processes to evaluate an agricultural pesticide's pollution potential: the creation of a physical-chemical properties database, modeling a pesticide's fate in the environment, evaluating new pesticides

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[1] From "A Guide to Pesticide Regulation in California (2011)" Chapters 1 and 12. <http://www.cdpr.ca.gov/dprabout.htm>

[2] FAC section 13142 defines "pollution" as "the introduction into the groundwaters of the state of an active ingredient, other specified product, or degradation product of an active ingredient of a pesticide above a level, with an adequate margin of safety that does not cause adverse health effects."

[3] California's definition of "agricultural use" is broad, and includes not only pesticides used in production agriculture, but also on turf (e.g., golf courses, cemeteries) and along rights-of-way.

[4] Pesticide applications made in accordance with the registered label.

for potential leaching prior to registration, and the prioritization of pesticides for monitoring. DPR further protects ground water by focusing on the early detection of potential pesticide contaminants and on developing effective reduced-risk practices for pesticides that have been found in ground water due to legal agricultural use.

MONITORING PESTICIDES ON THE GROUND WATER PROTECTION LIST

The GWPL includes agricultural pesticides that are regulated as ground water contaminants following their detection in ground water due to their legal agricultural use (3 CCR section 6800[a])[5] and those that have the potential to become groundwater contaminants due to their persistence, mobility and use patterns (3 CCR section 6800[b])[6]. DPR samples ground water ground water for pesticides on the GWPL to:

- Determine the need to expand the areas known as ground water protection areas (GWPAs) where the use of pesticides included in 3 CCR section 6800(a) are regulated and also to assess the effectiveness of the mitigation measures used in the GWPAs; and
- Determine if pesticides identified as potential contaminants (3 CCR section 6800[b]) have migrated to ground water as a result of their legal agricultural use.

Annually, DPR samples ground water for several pesticides that have been identified as potential contaminants in areas where they are used. Prior monitoring results indicate that the risk of ground water contamination varies with the pesticides' environmental fate, use intensity, and typical application practices. Since the pesticides identified as potential contaminants do not pose equal risks to ground water and the SNV process fails to assign any magnitude of their risk, DPR developed a method to rank the pesticides on this list based on a comparison of their relative risks including persistence, mobility, use intensity, and monitoring history. This ranking enables DPR to direct limited resources to monitoring the pesticides that pose the greatest risk to ground water. To date, DPR sampled ground water for 49 pesticides, and 29 related degradates, of the 101 included in 3 CCR section 6800(b) (Appendix B). Six pesticides and ten related degradates were detected in a limited number of wells at very low concentrations (Appendix C).

RESPONDING TO PESTICIDE DETECTIONS IN GROUND WATER

DPR uses ground water sampling data reported by other public agencies to identify areas that may be vulnerable to pesticide contamination and to plan future monitoring activities. Because the PCPA requires DPR to base its regulatory actions on data obtained from DPR-approved analytical methods and laboratories, DPR often conducts additional sampling to confirm reported detections and, if confirmed, to characterize the nature and extent of the potential contamination.

DPR evaluates each reported detection to determine the need for, or feasibility of, additional sampling. DPR works with the reporting agencies to validate atypical results such as the reported detections of highly volatile fumigants or pesticides known to bind irreversibly to soil particles. Occasionally,

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[5] 3 CCR section 6800 (a) includes atrazine, bentazon, bromacil, diuron (except for products with less than 7% diuron that are applied to foliage), norflurazon, prometon, and simazine.

[6] Pesticides listed in 3 CCR section 6800 (b) can be viewed at <http://www.cdpr.ca.gov/docs/legbills/calcode/040101.htm#a6800>

analytical laboratory procedures and quality control data may be reviewed to further assess the reported data. If DPR determines that the data were reported in error or may be invalid due to unacceptable analytical variability, DPR will not conduct additional sampling and will remove the erroneous results from the database.

DPR also will not conduct additional sampling if:

- The detected pesticide is no longer registered for sales and use in California.
- The pesticide was not detected in follow-up samples taken by the reporting agency.
- The detected pesticide is regulated as a ground water contaminant (3 CCR section 6800[a]) and the well is located in a GWPA where the use of these pesticides are regulated to protect ground water.
- The detected compound is registered for use as a pesticide but also occurs naturally, such as copper. In this case, DPR will consider sampling if there is evidence that the pesticidal use of the compound was a likely cause of the detection.

DPR will defer sampling and place the pesticide on a 'watch list' under the following circumstances:

- DPR is unable to develop an adequate analytical method for the pesticide.
- The pesticide was detected at levels less than 80% of DPR's analytical reporting limit[7].

Although DPR is required to sample ground water for agricultural pesticides and it is a priority to sample where pesticides of concern are detected, DPR does not have the authority to compel well owners to participate. Since participation is voluntary, DPR works cooperatively with the well owners and, in some cases, the reporting agencies to obtain permission to sample wells with pesticide detections. If well owners do not grant permission to sample, DPR will attempt to sample other nearby wells especially if the pesticide was, or could have been, used in the area.

REGULATING PESTICIDES FOUND IN GROUND WATER

Pesticides that are found in ground water due to legal agricultural use are subject to a public, formal review process to determine whether they can continue to be used and, if so, under what conditions. Pesticides that have been reviewed through this process include aldicarb, atrazine, bentazon, bromacil, diuron, hexazinone, norflurazon, prometon, and simazine. With the exception of aldicarb and hexazinone, it was determined that the agricultural use of these pesticides could be modified so that there would be a high probability that their continued use would not pollute ground water. DPR added these pesticides to the GWPL (3 CCR section 6800[a]) and required applicators to adopt mitigation measures when using these pesticides in GWPAs. In 1988, statewide use restrictions were adopted for aldicarb due the presence of the pesticide and its degradates in ground water. In 2010, DPR entered hexazinone into the formal review process following its detection in ground water. The subcommittee

[7] DPR set the reporting limit for ground water analytical methods at 0.05 ppb. Results at or above 0.05 ppb are quantified and those that are below this level are reported as "None Detected." This reporting limit allows DPR to develop cost-effective analytical methods that provide a high degree of confidence in the analytical results. This also allows DPR to detect incipient contamination at concentrations far below most drinking water standards and health advisory concentrations.

found that, based on the very low detected concentrations, hexazinone had not polluted or threatened to pollute ground water in the State of California but recommended continued monitoring to ensure that concentrations did not increase.

Detections of agricultural pesticides or their degradates that do not trigger the formal review process are placed on a 'watch list' and tracked by DPR for changes in concentration or detection frequency. There are 7 registered pesticides and 11 related degradates that have been detected but did not trigger the formal review process (Appendix C).

State law does not authorize DPR to regulate pesticide residues found in ground water due to manufacturing processes, accidental spills or releases, or illegal disposal or to address the detection of inactive or banned pesticides in ground water. DPR refers these types of pesticide detections to SWRCB, the state lead agency for water quality protection, for further investigation. If pesticides are ever found in ground water due to nonagricultural use, such as residential uses in urban areas, and are determined to present a hazard or potential adverse effect, they will be reviewed as part of DPR's formal pesticide registration reevaluation process.

For more information about pesticide regulation in California, please visit DPR's Web site at: <www.cdpr.ca.gov>.

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

CDPH is responsible for the enforcement of the federal and California Safe Drinking Water Acts and the regulatory oversight of ~7,500 public water systems to assure the delivery of safe drinking water to all Californians. CDPH staff perform field inspections, issue operating permits, review plans and specifications for new facilities, take enforcement actions for noncompliance with laws and regulations, review water quality monitoring results, and support and promote water system security. In addition, CDPH staff are involved in funding infrastructure improvements, conducting source water assessments, evaluating projects utilizing recycled treated wastewater, and promoting and assisting public water systems in drought preparation and water conservation.

CDPH establishes health protective drinking water standards that must be met by public water systems. These standards, known as maximum contaminant levels (MCL), take into account not only chemicals' health risks but also factors such as detection and treatment capabilities, as well as treatment costs. CDPH establishes a contaminant's MCL at a level as close to the public health goal[8] (PHG) established by the Office of Environmental Health Hazard Assessment (OEHHA) as is technically and economically feasible, placing primary emphasis on the protection of public health (see the MCL process). Along with the MCL, a regulated chemical also has a detection limit for purposes of reporting (DLR), the level at which CDPH is confident about quantification being reported. Health-based advisory levels, called notification levels, have been established for certain chemicals without MCLs. When chemicals are found at concentrations greater than their notification levels, certain requirements and recommendations apply. The level at which CDPH recommends removal of a drinking water source from service is called the "response level."

Under CDPH oversight, public water systems monitor drinking water for regulated contaminants. Drinking water may also be monitored for emerging contaminants and chemicals identified through the United States Environmental Protection Agency's (U.S. EPA's) Unregulated Contaminant Monitoring Program. As required by law, public water systems assure compliance with mandated drinking water standards and provide their customers with information on the quality of their drinking water through annual Consumer Confidence Reports (CCRs). Public water systems with more than 10,000 service connections that detect contaminants above their PHGs are also required to provide PHG exceedence reports every three years and to hold public hearings regarding their reports.

CDPH compiles and evaluates drinking water quality data collected by public water systems and, as required by the PCPA, submits the results for pesticide monitoring to DPR for inclusion in this report.

For more information about drinking water safety and regulation in California, go to the CDPH Web site at <www.cdph.ca.gov>, click on the "Programs" tab at the top of the page and follow the links to the Division of Drinking Water and Environmental Management Home Page.

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[8] Public Health Goals are concentrations of drinking water contaminants that pose no significant health risk if consumed for a lifetime, based on current risk assessment principles, practices, and methods.

STATE WATER RESOURCES CONTROL BOARD – GROUNDWATER AMBIENT MONITORING AND ASSESSMENT PROGRAM (GAMA)

The State Water Resources Control Board (SWRCB) expanded the GAMA Program following implementation of the Groundwater Quality Monitoring Act of 2001 which added Part 2.76 (commencing with Section 10780) to Division 6 of the Water Code. This law resulted in a publicly accepted plan to monitor and assess basins that account for over 90% of ground water use. The plan identified these "priority basins" based on groundwater used statewide. The main objectives of the GAMA Program are to improve statewide ambient groundwater quality monitoring and assessment and to increase the availability of information about groundwater quality to the public. The GAMA Program has four current projects:

- The GAMA Priority Basin Project monitors for dozens of chemicals at very low detection limits, including emerging contaminants. Monitoring and assessments for priority basins are to be completed every ten years, with trend monitoring every three years[9]. SWRCB is collaborating with United States Geological Survey (USGS) and Lawrence Livermore National Laboratory (LLNL) to implement the GAMA Priority Basin Project.
- The GAMA Program also assesses the quality of domestic well water through its Domestic Well Project. The GAMA Domestic Well Project has sampled in several county-focus areas in coordination with local environmental health departments, and provides an education component to help domestic well users to better understand water quality issues.
- The GAMA Special Studies Project partners with LLNL to conduct several groundwater studies including nitrate, wastewater, and groundwater recharge. LLNL scientists use the Tritium-Helium age dating technique, isotopic composition of water and nitrate molecules to determine source(s), and presence of noble gases to determine recharge source and condition, as well as sophisticated computer modeling techniques. University of California, Davis has also contributed to GAMA Special Studies.
- The GAMA Program shares groundwater quality information primarily through its GeoTracker GAMA information management system accessible through the State Water Board's Web site. GeoTracker GAMA provides access to a Google map-based database that readily provides a wealth of groundwater information including results of water quality testing, water level information, copies of environmental monitoring well logs as well as links to published reports for a specific area of interest. Millions of records of data come from SWRCB and RWQCBs, CDPH, the DWR, DPR, USGS, and LLNL. Scientists, regulators, water managers, educators and the public can use these data, and as more data are shared through GeoTracker GAMA, the groundwater quality picture for California becomes clearer.

For more information about SWRCB's GAMA Program, go to <www.swrcb.ca.gov> and select "More" from the links at the top of the page, then follow the "Groundwater" link to the GAMA Program Home Page.

[9] DPR will include GAMA Priority Basin Project data when the complete dataset becomes available.

GROUND WATER SAMPLING RESULTS

SUMMARY

This section summarizes ground water sampling results obtained through DPR's regulatory monitoring activities in 2011 and sampling results submitted by SWRCB from 2004 to 2011[10] and CDPH in 2011 (Appendix D and Appendix E). No other agency reported to DPR during this time period.

In total, 5,509 wells in all of California's 58 counties were sampled for one or more of 206 pesticides or pesticide degradates. SWRCB, CDPH, and DPR detected 71 pesticides and pesticide degradates in 1,046 wells (Table 1).

Table 1. Well sampling data summarized by reporting agency and reporting periods.

	Reporting Agency			Reporting Period	
	CDPR 2011	**CDPH 2011**	**SWRCB 2004-2011**	**Current**	**1985-2011[11]**
Counties Sampled	8	56	55	58	58
Counties with Detections	3	17	45	46	53
Wells Sampled[12]	151	3,502	1,866	5,509	25,066
Wells with Detections	70	267	710	1,046	5,933
Pesticides and Degradates Sampled[13]	18	122	138	206	362
Pesticides and Degradates Detected	10	12	62	71	138

[10] The data submitted by SWRCB was collected only for the GAMA Priority Basin Project and excludes any of the other monitoring programs discussed in the GAMA overview. These data represent the initial monitoring of 29 of the 37 priority basins identified in this project. Once baseline monitoring is completed, trend monitoring in will occur every three years.

[11] Appendix A lists all local, state, and federal agencies that have contributed well monitoring data to DPR since the early 1980s.

[12] "Wells Sampled" and "Wells with Detections" present the total number of individual wells sampled or found to contain pesticide residues regardless of the number of sampling events or detections that occurred during the reporting period.

[13] "Pesticides Sampled" and "Pesticides Detected" present the total number of individual pesticides or pesticide degradation products sampled or found in ground water regardless of the number of sampling events or detections that occurred during the reporting period.

DETECTIONS OF REGISTERED PESTICIDES AND RELATED DEGRADATES

Of the 71 pesticides and degradates detected, 39 are registered for use in California and 12 are degradates of registered pesticides (Table 2 and Appendix D). Of these, seven pesticides are listed in 3 CCR section 6800(a)[14] and, along with their five related degradates, are regulated as ground water contaminants within Ground Water Protection Areas (GWPAs) to prevent further pollution. Nineteen agricultural pesticides identified by DPR as potential ground water contaminants and listed in 3 CCR section 6800(b) were also detected (Table 2).

Eleven of the remaining pesticides are classified as 'agricultural use pesticides' because they may be applied to agricultural crops, forests, rights-of-ways or turf. Two pesticides, DDVP (dichlorvos) and fipronil, are the only detected pesticides that are not "agricultural use pesticides": DDVP is used to protect stored grain products and to control flies in and around buildings and fipronil is used to control structural insect pests around and under buildings and pet pests such as fleas and ticks.

Table 2. Registered pesticides and related degradates detected by all reporting agencies.

Pesticide or Degradate	Degradate of:	Total Detections	Concentration Range (ppb)	On the GWPL
2,6-Diethylaniline	*Alachlor*	2	0.004 - 0.004	*Related degradate*
3,4-Dichloroanaline	*Diuron, linuron, propanil*	94	0.001 - 0.541	*Related degradate*
3,5-Dichloroaniline	*Iprodione, vinclozolin*	3	0.002 - 0.006	*Related degradate*
ACET	*Atrazine, simazine*	123	0.01 - 1.49	*Related degradate*
Alachlor		1	0.004	Yes
Atrazine		317	0.002 - 0.247	Yes
Bensulfuron methyl		1	0.01	Yes
Bentazon		45	0.01 - 1.82	Yes
Bromacil		61	0.01 - 6.69	Yes
Carbaryl		1	0.007	Yes
Chlorothalonil		1	0.02	Yes
Chlorpyrifos		2	0.006 - 0.008	
DCPA		5	0.002 - 0.004	
DACT (diaminochlorotriazine)	*Atrazine, simazine*	66	0.05 - 5.22	*Related degradate*
DDVP		1	0.01	
DEA (deethyl-atrazine)	*Atrazine*	396	0.001 - 0.212	*Related degradate*
Desulfinyl fipronil	*Fipronil*	12	0.003 - 0.008	

[14] The Ground Water Protection List (3 CCR section 6800) is divided into two sublists. Sublist (a) includes 7 agricultural herbicides - atrazine, bentazon, bromacil, diuron, norflurazon, prometon, and simazine - that are regulated as ground water contaminants. Sublist (b) includes 101 pesticides that have not yet been detected in ground water but have the potential to become contaminants based on their mobility, persistence and legal uses. Please refer to Appendix A for monitoring results for pesticides identified as potential ground water contaminants.

Pesticide or Degradate	Degradate of:	Total Detections	Concentration Range (ppb)	On the GWPL
Desulfinyl fipronil	*Fipronil*	1	0.006	
Diazinon		2	0.003 - 0.108	Yes
Diquat dibromide		1	0.44	Yes
Diuron		73	0.01 - 1.57	Yes
DSMN (desmethyl norflurazon)	*Norflurazon*	40	0.051 - 0.82	*Related degradate*
EPTC (S-Ethyl-dipropylthiocarbamate)		10	0.002 - 0.039	Yes
Fipronil		8	0.005 - 0.017	
Fipronil sulfide	*Fipronil*	11	0.005 - 0.009	
Fipronil sulfone	*Fipronil*	5	0.005 - 0.008	
Hexazinone		33	0.007 - 0.067	Yes
Imidacloprid		1	0.005	Yes
MCPA (2-methyl-4-chlorophenoxyacetic acid)		1	0.02	
Metalaxyl		18	0.004 - 0.144	Yes
Methyl bromide		2	0.56 - 2.1	
Metolachlor		38	0.002 - 0.16	Yes
Metribuzin		2	0.01 - 0.113	Yes
Myclobutanil		4	0.005 - 0.034	
Norflurazon		26	0.01 - 0.499	Yes
OIET (Atrazine-2-hydroxy)	*Atrazine*	9	0.003 - 0.042	*Related degradate*
Oxamyl		9	0.01 - 0.08	
Pendimethalin		1	0.039	
Phorate		1	0.004	Yes
Prometon		69	0.004 - 0.036	Yes
Prometryn		7	0.005 - 0.009	Yes
Propanil		2	0.006 - 0.097	Yes
cis-Propiconazole		1	0.001	
trans-Propiconazole		1	0.01	
Siduron		9	0.01 - 0.01	Yes
Simazine		427	0.003 - 0.268	Yes
Sulfometuron methyl		3	0.003 - 0.064	Yes
Tebuthiuron		31	0.01 - 0.23	Yes
Terbuthylazine		2	0.01 - 0.01	
Triclopyr, triethylamine		1	0.12	Yes
Trifluralin		2	0.005 - 0.006	

DETECTIONS OF INACTIVE AND UNREGISTERED PESTICIDES AND RELATED DEGRADATES

Fifteen detected pesticides and the parent of one detected degradate are no longer registered for use in California (Table 3 and Appendix D). Of these, 12 were used to produce agricultural crops and to control weeds on rights of ways, canals, ditch banks, and other similar areas. These agricultural pesticides include: benomyl, DBCP, dicrotophos, dieldrin, dinoseb, diphenamid, endothall, EDB, imazethapyr, isofenphos, molinate, n(4-chlorophenyl)n methylurea (a degradate of monuron), and picloram. It should be noted that there are registered pesticides that contain active ingredients that are chemically similar to endothall and imazethapyr (Appendix C). These related pesticides are listed in 3 CCR section 6800(b) as potential ground water contaminants. DPR will consider sampling data for these pesticides when developing sampling plans for closely related, registered pesticides.

Carbon disulfide, naphthalene and xylene have not been used as pesticides in California since the early 1990s when all product registrations were inactivated. Detections of these chemicals are assumed to come from their current industrial uses as described below:

- Carbon disulfide was used as a rodenticide and a soil and commodity fumigant, but is now primarily used as a solvent and in the manufacture of viscose rayon, cellophane film, carbon tetrachloride, xanthogenates, and electronic vacuum tubes.
- Naphthalene may be used in some pesticide formulations as a wetting agent, however it is an industrial chemical primarily used as a precursor in chemical manufacturing processes.
- Xylene is primarily used as a solvent and in chemical manufacturing as a precursor for other chemicals.

1,2,4-trichlorobenzene and 1,2-dichloropropane (1,2-D) have never been registered for use in California although they were previously registered by the U.S. EPA for use in other states. Detections of these chemicals are assumed to come from their current industrial uses as described below:

- 1,2,4-trichlorobenzene is used as a solvent and has other industrial uses.
- 1,2-D is used as a chemical intermediate in the production of chlorinated organic chemicals, as an industrial solvent, in ion exchange manufacture, in toluene diisocyanate production, in photographic film manufacture, for paper coating, and for petroleum catalyst regeneration. Although applied as a soil fumigant for a variety of crops, it is no longer available for use as a pesticide in the United States.

Acetochlor and chlorimuron ethyl are agricultural herbicides that are registered for use by the U.S. EPA. They have never been registered for pesticide use in California and have no other industrial uses that may account for these detections. DPR will continue to track sampling results for these pesticides and will consider response options if the detection frequency or concentrations increase.

It should be noted that DPR does not sample for pesticides that are not registered for use in California; all detections noted in Table 3 were reported to DPR by CDPH and SWRCB.

Table 3. Inactive pesticides and related degradates detected by CDPH and SWRCB.

Pesticide or Degradate	Degradate of:	Total Detections	Concentration Range (ppb)	On the GWPL
1,2,4-Trichlorobenzene		2	2.00 - 2.00	
1,2-D		59	0.02 - 1.19	
Acetochlor		4	0.002 - 0.059	
Benomyl		1	0.003	
Carbon disulfide		71	0.01 - 2.7	
Chlorimuron ethyl		1	0.004	
DBCP		288	0.01 - 2.03	
Dicrotophos		1	0.03	
Dieldrin		9	0.002 - 0.007	
Dinoseb		7	0.01 - 0.04	
Diphenamid		11	0.01 - 0.03	
Endothall		1	64	*Includes closely related, registered formulations*
EDB		9	0.01 - 0.17	
Imazethapyr		6	0.01 - 0.43	*Includes a closely related, registered formulation*
Isofenphos		1	0.006	
Molinate		6	0.008 - 0.066	Yes
N(4-Chlorophenyl)N methylurea	Monuron	5	0.01 - 0.02	
Naphthalene		4	0.3 - 0.5	
Picloram		1	3.6	
Xylene		2	0.72 - 1.3	

DPR SAMPLING RESULTS

For this report year, sampling results were obtained from DPR's well monitoring network in Fresno and Tulare counties and GWPL monitoring for chlorothalonil, an agricultural fungicide, and oryzalin, an agricultural herbicide, in areas where these pesticides were used. DPR tends to have a higher detection frequency than other reporting agencies because sampling occurs in areas where pesticides are used or where pesticides have already contaminated ground water.

DPR SAMPLING RESULTS SUMMARIZED BY PROJECT

Monitoring Network Results

DPR's well monitoring network is comprised of 68 shallow, domestic wells located in runoff and leaching GWPAs in Fresno and Tulare counties. The objective of the monitoring is to determine trends in pesticide residue concentration and detection frequency in areas where the use of these pesticides is regulated and to assess the effectiveness of DPR's ground water protection program. Wells were chosen that had been sampled previously by DPR and that were found to have positive detections for simazine, bromacil, or diuron in 1999.

In 2011, 68 wells[15] in the monitoring network were sampled for atrazine, bromacil, diuron, norflurazon, prometon, and simazine – and their degradates – ACET, DACT, DEA, and DSMN. With the exception of prometon, these compounds were detected in varying frequencies in 59 wells with average concentrations ranging from 0.07 to 0.82 ppb (Table 4).

Table 4. DPR well monitoring network sampling results in 2011.

	ACET	Atrazine	Bromacil	DACT	DEA	Diuron	DSMN	Hexazinone	Norflurazon	Prometon	Simazine
Positive Wells	52	3	21	56	4	22	36	1	19	0	38
Average Concentration (ppb)	0.40	0.09	0.82	0.71	0.15	0.12	0.23	0.07	0.19	--	0.09

DPR has observed decreases in detection frequency and concentration for many of the regulated pesticides in contaminated wells that have been sampled annually since 1999. DPR attributes this change to regulatory actions taken prior to 2004 in areas where pesticides listed in 3 CCR section 6800(a) were detected.

GWPL Sampling Results

DPR monitors ground water in California to determine if pesticides listed in 3 CCR section 6800(b), also known as the GWPL, have migrated to ground water as a result of legal agricultural use. Pesticides on the GWPL have an elevated contamination potential due to their mobility, persistence and legal uses. DPR prioritizes pesticides for monitoring based on each pesticide's relative threat to ground

[15] DPR monitored for chlorothalonil and oryzalin in three wells of the well monitoring network due to overlapping use of the pesticides.

water. In 2011, DPR completed monitoring studies started in 2010 for two pesticides on the GWPL, chlorothalonil and oryzalin. GWPL monitoring studies often include sampling for pesticides listed in 3 CCR section 6800(a) and their degradates in areas where they are used. This additional monitoring helps DPR assess the adequacy of the Ground Water Protection Program for pesticides regulated as ground water contaminants.

In 2011, DPR sampled:

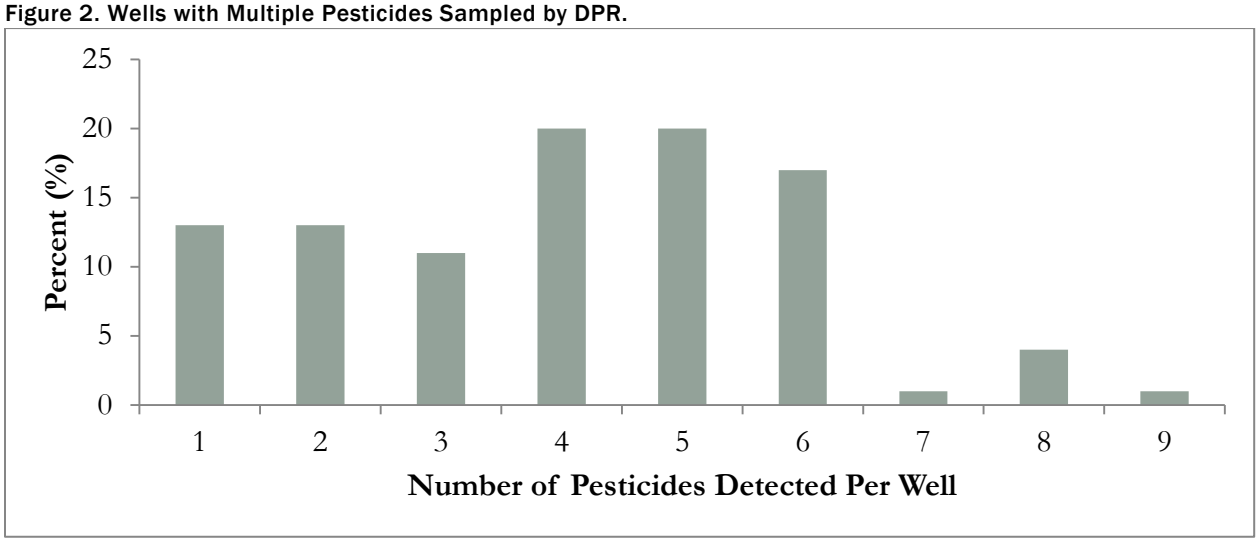
- 59 wells[16] in eight counties for chlorothalonil. One well was also sampled for pesticides listed under 3 CCR section 6800(a) (GW10a protocol).
- 28 wells in five counties for oryzalin and for pesticides listed under 3 CCR section 6800(a) (GW10b study memorandum)

DPR did not detect chlorothalonil and oryzalin in any of the 86 wells (Appendix B and Appendix D). ACET, DACT, diuron, DSMN, norflurazon, and simazine were detected in 11 of the 29 wells sampled for these pesticides and degradates (Table 5). Only one of the 11 wells with detections is located outside of a GWPA where the use of these pesticides is not regulated. DPR will conduct further monitoring near this well to determine if further regulatory action is needed.

DPR SAMPLING RESULTS SUMMARIZED BY PESTICIDE

In 2011, DPR detected atrazine, bromacil, diuron, hexazinone, norflurazon, and simazine and their degradates, ACET, DACT, DEA and DSMN, in 70 of the 97 wells sampled for these pesticides and degradates (Table 5 and Appendix D). Fifty nine of the 70 wells with detections (84%) were sampled from the well monitoring network where multi-analyte detections of these pesticides and degradates were anticipated and 69 of these wells were located in GWPAs where the use of these pesticides has been regulated since 2004, or earlier, to prevent further pollution. Two or more pesticides were detected in 61 of the 70 wells with detections (Figure 2).

Figure 2. Wells with Multiple Pesticides Sampled by DPR.



[16] DPR monitored for both chlorothalonil and oryzalin in one well due to overlapping use of the pesticides. Therefore the total number of unique wells sampled for both of these pesticides is 86.

Of the 70 wells with detections, one pesticide was detected in nine (13%) wells; two pesticides were detected in nine (13%) wells; three pesticides were detected in eight (11%) wells; four pesticides were detected in 14 (20%) wells; five pesticides were detected in 14 (20%) wells; six pesticides were detected in 12 (17%) wells); eight pesticides in were detected in 3 (4%) wells and nine pesticides were detected in one (1%) well (Figure 2).

Only atrazine, bromacil, hexazinone, and simazine have established drinking water quality levels and the concentrations detected did not exceed their respective HAL, PHG, or MCL (Table 5).

Table 5. Pesticides and related degradates detected by DPR.

Pesticide	Degradate	Wells with Detections	Concentration (ppb)	Drinking Water Levels (ppb)	DPR Response
ACET	x	58	0.06 - 1.49	---	57 wells with detections are located in GWPAs with 52 of these wells are included in DPR's well monitoring network. The remaining well is located outside of a GWPA. DPR will conduct follow-up monitoring near this well to determine if current GWPAs need to be expanded.
Atrazine		3	0.077 - 0.095	CDPH MCL – 1 OEHHA PHG – 0.15 U.S.EPA MCL – 3 U.S.EPA MCLG – 3	All wells are located in GWPAs and included in DPR's well monitoring network.
Bromacil		21	0.05 - 6.69	U.S. EPA HAL – 70	All wells are located in GWPAs and included in DPR's well monitoring network.
DACT	x	64	0.05 - 5.22	---	63 wells with detections are located in GWPAs with 54 of these wells are included in DPR's well monitoring network. The remaining well is located outside of a GWPA. DPR will conduct follow-up monitoring near this well to determine if current GWPAs need to be expanded.
DEA	x	4	0.082 - 0.212	---	All wells are located in GWPAs and included in DPR's well monitoring network.
Diuron		26	0.052 - 0.571	---	All wells are located in GWPAs with 22 of these wells are included in DPR's well monitoring network.
DSMN	x	40	0.051 - 0.82	---	All wells are located in GWPAs and 36 of these wells are included in DPR's well monitoring network.
Hexazinone		1	0.067 - 0.067	U.S. EPA HAL – 400	DPR is planning a field study to investigate this detection.
Norflurazon		21	0.064 - 0.499	---	All wells are located in GWPAs. 19 of these wells are included in DPR's well monitoring network.
Simazine		40	0.053 - 0.202	CDPH MCL – 4 OEHHA PHG – 4 U.S. EPA MCL – 4 U.S. EPA MCLG – 4	39 wells with detections are located in GWPAs. 38 of these well are included in DPR's well monitoring network. The remaining well is located outside of a GWPA. DPR will conduct follow-up monitoring near this well to determine if current GWPAs need to be expanded.

DPR SAMPLING RESULTS SUMMARIZED BY COUNTY

DPR's annual well sampling is concentrated in Fresno and Tulare counties due to the presence of the 68-well monitoring network which also accounts for the high detection frequency of pesticides listed in 3 CCR section 6800(a) and their degradates in these counties (Table 6). DPR sampled 86 wells, including three located in the well monitoring network, for chlorothalonil or oryzalin but did not detect these pesticides in areas where these pesticides were used.

Table 6. DPR well sampling results summarized by detected pesticide and county.

	COUNTY								
	Fresno	Kern	Kings	Madera	Merced	San Joaquin	Stanislaus	Tulare	TOTAL
Total Sampled Wells	*71*	*9*	*1*	*12*	*11*	*5*	*9*	*33*	*151*
Total Positive Wells	*47*	*0*	*0*	*2*	*0*	*0*	*0*	*21*	*70*
ACET	41	0	0	0	0	0	0	17	**58**
Atrazine	2	0	0	0	0	0	0	1	**3**
Bromacil	11	0	0	0	0	0	0	10	**21**
DACT	44	0	0	1	0	0	0	19	**64**
DEA	3	0	0	0	0	0	0	1	**4**
Diuron	19	0	0	1	0	0	0	6	**26**
DSMN	27	0	0	0	0	0	0	13	**40**
Hexazinone	1	0	0	0	0	0	0	0	**1**
Norflurazon	13	0	0	0	0	0	0	8	**21**
Simazine	29	0	0	0	0	0	0	11	**29**

CDPH SAMPLING RESULTS - OVERVIEW

CDPH is responsible for the enforcement of the federal and California Safe Drinking Water Acts and for establishing MCLs at levels as close to PHGs as is technically and economically feasible, placing primary emphasis on the protection of public health. Under CDPH oversight, public water systems monitor drinking water for regulated contaminants with the number of wells and pesticides sampled annually based on the number and size of the regulated water systems located within each county.

Public water systems sampled 3,502 wells for 122 pesticides and degradates (Table 1). The median number of public supply wells sampled for pesticides per county was 18 and ranged from one well each in Alpine, Humboldt, Imperial, Modoc, and Trinity counties to 672 wells in Los Angeles County. The median number of pesticides analyzed per county was 42 and ranged from five in Amador County to 102 in Los Angeles County. CDPH did not report any sampling data for San Francisco and Sierra counties (Appendix E and Appendix F).

Twelve pesticides were detected in 267 (8%) of the wells sampled. Of these 267 wells, one pesticide was detected in 261 (98%) wells and two pesticides were detected in six (2%) wells.

Of the pesticides detected by CDPH, chlorothalonil, diquat bromide, and methyl bromide are registered

for use in California (Table 7 and Appendix D) and carbon disulfide, DBCP, endothall, EDB, naphthalene, picloram, and xylene are no longer registered for use in California (Table 8 and Appendix D). The remaining detected pesticides, 1,2,4-trichlorobenzene and 1,2-D, have never been registered for use as pesticides in California although they had been registered by the U.S. EPA in the past. As discussed in the Summary section, current detections of 1,2,4-trichlorobenzene, 1,2-D, carbon disulfide, naphthalene, and xylene are presumed to be the result of their industrial uses.

SWRCB SAMPLING RESULTS - OVERVIEW

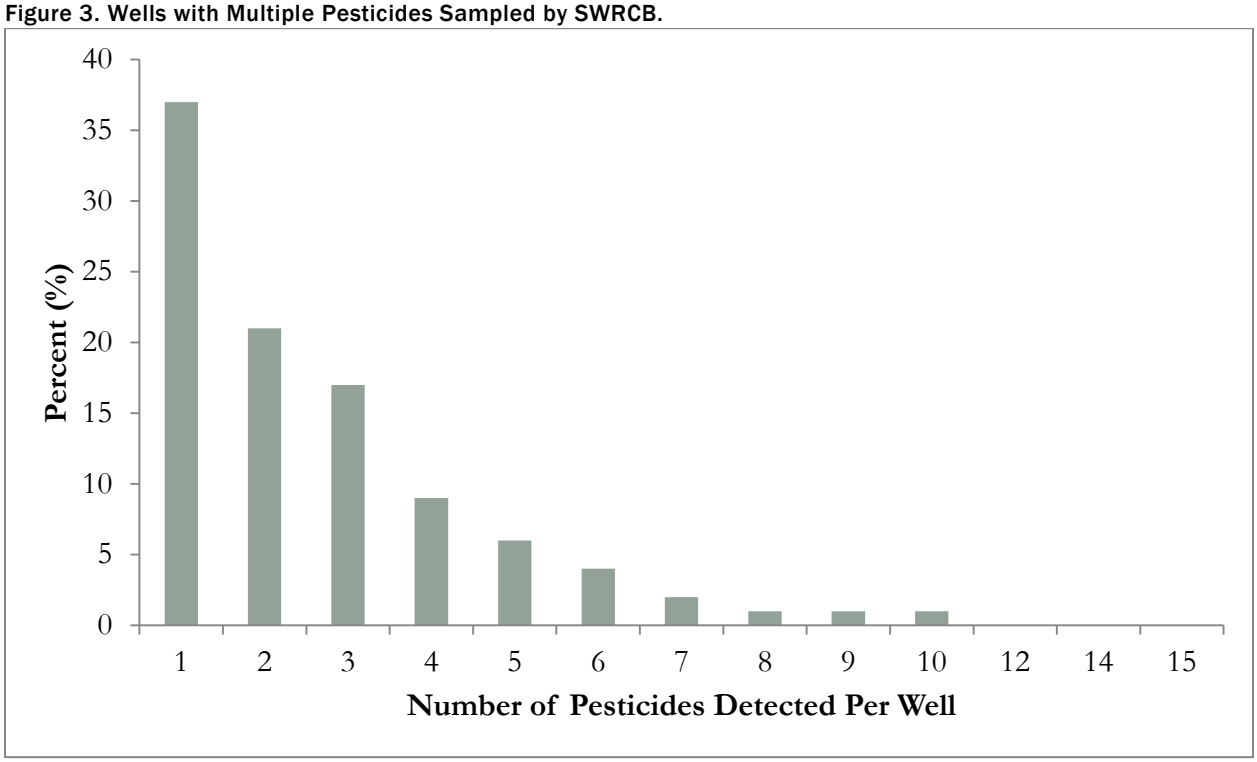
The main goals of the SWRCB GAMA program are to improve comprehensive statewide groundwater monitoring, to provide a comprehensive understanding ground water quality, to assess changes in ground-water quality over time, and to increase the availability of groundwater quality information to the public. The Priority Basin Project, one of several overseen by the GAMA program, monitors ground water for a dozens of chemicals, including emerging contaminants, at very low detection limits. This project was designed to balance spatial coverage and analytical intensity and was built on the conservative assumption that contaminants may be found where one would not expect them to occur. Monitoring and assessments will occur on a ten-year cycle, however; more intensive analytical coverage was proposed for the first round of sampling.

The data included in this report came from the first round of sampling, from 2004 through 2011, and represent 29 of the 37 study units identified in this project. The study units cover 116 of the 472 DWR-defined groundwater basins in the state and account for: 95% of all public supply wells, 99% of all municipal groundwater pumping, 90% of agricultural groundwater withdrawals, 90% of all leaking underground storage tank sites, 90% of all pesticide applications in the state, and 60% of the land area in California.

Of the 1,866 wells and 138 pesticides and pesticide degradates sampled by SWRCB, 62 pesticides or their degradates were detected in 710 (38%) of the wells sampled. SWRCB detected pesticides in wells in 45 of the 55 counties sampled (Table 1). The median number of wells sampled per county was 22 and ranged from 149 wells in Kern County to one well in Lassen County. The median number of pesticides analyzed per county was 121 and ranged from 138 in Riverside County to 67 in Sierra County. SWRCB reported detections for every county except Alpine, Calaveras, Del Norte, Lassen, Marin, Mariposa, Mono, Plumas, San Francisco, and Sierra counties. SWRCB did not report any sampling data for Modoc, Siskiyou, and Trinity counties (Appendix E and Appendix F).

Of the 710 wells with detections, one pesticide was detected in 261 (37%) wells; two pesticides were detected in 147 (21%) wells; three pesticides were detected in 123 (17%) wells; four pesticides were detected in 67 (9%) wells; five pesticides were detected in 46 (6%) wells; six pesticides were detected in 28 (4%) wells; seven pesticides were detected in 14 (2%) wells, eight pesticides were detected in 8 (1%) wells; nine pesticides were detected in 5 (1%) wells; ten pesticides were detected in 8 (1%) wells; and 12, 14, and 15 pesticides were detected in one well each (Figure 3).

Figure 3. Wells with Multiple Pesticides Sampled by SWRCB.



Of the pesticides and pesticide degradates detected by SWRCB, 36 are registered for use in California and 11 are degradates of registered pesticides (Table 7 and Appendix D). Eleven pesticides are no longer registered for use in California and one degradate of a previously registered pesticide was also detected (Table 8 and Appendix D). Three detected pesticides, 1,2-D, acetochlor, and chlorimuron ethyl, have never been registered for use in California although they are, or had been, registered by the U.S. EPA for use in other states. As discussed in the Summary section, current detections of 1,2-D are assumed to be the result of its industrial use.

For more information, please refer to the GAMA data reports available at: <http://www.waterboards.ca.gov/gama/report_depot.shtml>.

DPR RESPONSE TO REPORTED DETECTIONS

REGISTERED PESTICIDES

DPR uses ground water sampling data reported by other public agencies to identify areas that may be vulnerable to pesticide contamination and to plan future monitoring activities. Each reported detection of a registered pesticide or related degradate is evaluated to determine the need for, or feasibility of, additional sampling. Follow up sampling in and around wells with detections, using DPR-approved analytical methods and laboratories, allows DPR to characterize the nature and extent of the potential contamination and to develop an effective regulatory response if contamination is suspected.

DPR will defer sampling and place pesticides on a 'watch list' under the following circumstances:

- Adequate analytical methods are unavailable, or
- Detected concentrations are less than 0.04 ppb, which is equivalent to <80% of DPR's target analytical reporting limit of 0.05 ppb.

SWRCB detected many pesticides and degradates at concentrations significantly lower than DPR's monitoring follow-up benchmark of 0.04 ppb. Their use of analytical methods with very low detection limits was necessary to achieve the primary goals of the project – to identify emerging contaminants and gain a comprehensive understanding of ground water quality. Although DPR will not schedule follow-up monitoring for most of these very low detections, except as noted below, sampling data provided through the Priority Basin Project will be considered in future monitoring decisions made by DPR.

For more information on the likely sources for the detections described in Table 7, please refer to the Summary section in this document.

Table 7. DPR response to detections of registered pesticides and related degradates reported by CDPH and SWRCB.

Pesticide or Degradate	Reporting Agency	Wells with Detections	Concentration (ppb)	Drinking Water Standards and Advisories (ppb)	DPR Response to Detections
2,6-Diethylaniline*	SWRCB	2	0.004	---	Degradate of alachlor.
3,4-Dichloroanaline*	SWRCB	94	0.001 - 0.541	---	Degradate of diuron, linuron or propanil. Parent pesticides are listed in 3 CCR section 6800(b) as potential ground water contaminants. DPR is investigating the 8 detections that exceeded 0.04 ppb.
3,5-Dichloroaniline*	SWRCB	3	0.002 - 0.006	---	Degradate of iprodione.
ACET*	SWRCB	65	0.01 - 0.72	---	Degradate of atrazine and simazine. Parent pesticides are listed in 3 CCR 6800(a) with use regulated in GWPAs. DPR is investigating the 11 detections that exceeded 0.04 ppb and occurred outside of GWPAs. DPR completed monitoring for the single detection that also met these criteria as part of GW08.
Alachlor*	SWRCB	1	0.004	CDPH MCL – 2 OEHHA PHG – 4 U.S. EPA MCL – 2 U.S. EPA MGLG – 0	Herbicide.

* Pesticide or degradate of a pesticide included in the GWPL, 3 CCR section 6800(a) and (b). For more information about DPR's monitoring for listed as a potential ground water contaminants listed in 3 CCR section 6800(b), please refer to Appendix B.

Pesticide or Degradate	Reporting Agency	Wells with Detections	Concentration (ppb)	Drinking Water Standards and Advisories (ppb)	DPR Response to Detections
Atrazine*	SWRCB	314	0.002 - 0.247	CDPH MCL – 1 OEHHA PHG – 0.15 (Exceeded in 3 of 314 wells) U.S. EPA MCL – 3 U.S. EPA MCLG – 3	Herbicide. Listed in 3 CCR 6800(a) with use regulated in GWPAs. DPR is investigating the 12 detections that exceeded 0.04 ppb and occurred outside of GWPAs. DPR completed monitoring for 2 detections that also met these criteria as part of GW08.
Bensulfuron methyl*	SWRCB	1	0.01	---	Herbicide.
Bentazon*	SWRCB	45	0.01 - 1.82	CDPH MCL – 18 OEHHA PHG – 200 U.S. EPA HAL – 200	Herbicide. Listed in 3 CCR 6800(a) with use regulated in GWPAs. 44 detections occurred in historic rice areas where use has been prohibited since the early 1990s. DPR is investigating the remaining detection however, there is no evidence of use or legal application sites near this detection.
Bromacil*	SWRCB	40	0.01 - 1.99	U.S. EPA HAL – 70	Herbicide. Listed in 3 CCR 6800(a) with use regulated in GWPAs. DPR is investigating the 9 detections that exceeded 0.04 ppb and occurred outside of GWPAs. DPR completed monitoring for the remaining detection that met these criteria as part of GW08.
Carbaryl*	SWRCB	1	0.007	CDPH AAL – 700	Insecticide.
Chlorothalonil*	CDPH	1	0.02	---	Fungicide.
Chlorpyrifos	SWRCB	2	0.006 - 0.008	U.S. EPA HAL – 2	Insecticide.
DACT*	SWRCB	2	0.05 - 0.1	---	Degradate of atrazine or simazine. Parent pesticides are listed in 3 CCR 6800(a) with use regulated in GWPAs. Further investigation is not needed as all detections occurred within GWPAs.
DCPA	SWRCB	5	0.002 - 0.004	U.S. EPA HAL – 70	Herbicide.
DDVP	SWRCB	1	0.01	---	Insecticide.
DEA*	SWRCB	392	0.001 - 0.096	---	Degradate of atrazine. Parent pesticide is listed in 3 CCR 6800(a) with use regulated in GWPAs. DPR is investigating the 9 detections that exceeded 0.04 ppb and occurred outside of GWPAs.
Desulfinyl fipronil	SWRCB	12	0.003 - 0.008	---	Degradate of fipronil.
Desulfinyl fipronil amide	SWRCB	1	0.006	---	Degradate of fipronil.
Diazinon*	SWRCB	2	0.003 - 0.108	CDPH NL – 1.2 U.S. EPA HAL –1	Insecticide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR is investigating the single detection that exceeded 0.04 ppb.

Pesticide or Degradate	Reporting Agency	Wells with Detections	Concentration (ppb)	Drinking Water Standards and Advisories (ppb)	DPR Response to Detections
Diquat dibromide*	CDPH	1	0.44	CDPH MCL – 20 OEHHA PHG – 15 U.S. EPA MCL – 20 U.S. EPA MCLG – 20	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant however, it is an unlikely ground water contaminant due to its irreversible adsorption to soil and has never been detected in follow-up monitoring conducted by public water systems. DPR will defer further investigation until the well has been retested and the results are received from CDPH.
Diuron*	SWRCB	47	0.01 - 1.57	---	Herbicide. Listed in 3 CCR 6800(a) with use regulated in GWPAs. DPR is investigating the 16 detections that exceeded 0.04 ppb and occurred outside of GWPAs. DPR completed monitoring for the single detection that met these criteria as part of GW08.
EPTC*	SWRCB	10	0.002 - 0.039	---	Herbicide.
Fipronil	SWRCB	8	0.005 - 0.017	---	Insecticide.
Fipronil sulfide	SWRCB	11	0.005 - 0.009	---	Degradate of fipronil.
Fipronil sulfone	SWRCB	5	0.005 - 0.008	---	Degradate of fipronil.
Hexazinone*	SWRCB	32	0.007 - 0.066	U.S. EPA HAL – 400	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR completed monitoring for the 3 detections that exceeded 0.04 ppb as part of GW08 and GW09.
Imidacloprid*	SWRCB	1	0.005	---	Insecticide.
MCPA	SWRCB	1	0.02	U.S. EPA HAL – 30	Herbicide.
Metalaxyl*	SWRCB	18	0.004 - 0.144	---	Fungicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR is currently monitoring for mefenoxam, an enantiomer of metalaxyl, as part of GW11 and is revising the analytical method to include metalaxyl. DPR will incorporate this sampling data into the monitoring plan for GW11 and the results will be reported in the 2013 update to this report.
Methyl bromide	CDPH	2	0.56 - 2.1	---	Fumigant. Methyl bromide is an unlikely ground water contaminant due to its very high volatility. It has never been detected in follow-up monitoring conducted by public water systems. DPR will defer further investigation until the well has been retested and results are received from CDPH.
Metolachlor*	SWRCB	38	0.002 - 0.16	U.S. EPA HAL – 700	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR is investigating the single detection that exceeded 0.04 ppb.

Pesticide or Degradate	Reporting Agency	Wells with Detections	Concentration (ppb)	Drinking Water Standards and Advisories (ppb)	DPR Response to Detections
Metribuzin*	SWRCB	2	0.01 - 0.113	---	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR is investigating the single detection exceeded 0.04 ppb.
Myclobutanil	SWRCB	4	0.005 - 0.034	---	Fungicide.
Norflurazon*	SWRCB	5	0.01 - 0.02	---	Herbicide.
OIET*	SWRCB	9	0.003 - 0.042	---	Degradate of atrazine Parent pesticide is listed in 3 CCR 6800(a) with use regulated in GWPAs. DPR is investigating the single detection that exceeded 0.04 ppb and occurred outside of a GWPA.
Oxamyl	SWRCB	9	0.01 - 0.08	CDPH MCL – 50 OEHHA PHG – 26 U.S. EPA MCL – 200 U.S. EPA MCLG – 200	Insecticide and nematicide. DPR is investigating the 4 detections that exceeded 0.04 ppb.
Pendimethalin	SWRCB	1	0.039	---	Herbicide.
Phorate*	SWRCB	1	0.004	---	Insecticide.
Prometon*	SWRCB	69	0.004 - 0.036	U.S. EPA HAL – 400	Herbicide.
Prometryn*	SWRCB	7	0.005 - 0.009	---	Herbicide.
Propanil*	SWRCB	2	0.006 - 0.097	---	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR is investigating the single detection that exceeded 0.04 ppb.
Propiconazole, cis-	SWRCB	1	0.001	---	Fungicide.
Propiconazole, trans-	SWRCB	1	0.01	---	Fungicide.
Siduron*	SWRCB	9	0.01 - 0.01	---	Herbicide.
Simazine*	SWRCB	387	0.003 - 0.268	CDPH MCL – 4 OEHHA PHG – 4 U.S. EPA MCL – 4 U.S. EPA MCLG – 4	Herbicide. Listed in 3 CCR 6800(a) with use regulated in GWPAs. DPR is investigating the 18 detections that exceeded 0.04 ppb and occurred outside of GWPAs. DPR completed monitoring for the 3 detections that also met these criteria as part of GW08.
Sulfometuron methyl*	SWRCB	3	0.003 - 0.064	---	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR is investigating the 2 detections that exceeded 0.04 ppb.
Tebuthiuron*	SWRCB	31	0.01 - 0.23	U.S. EPA HAL – 500	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR completed monitoring for the 6 detections that exceeded 0.04 ppb as part of GW08.
Terbuthylazine	SWRCB	2	0.01 - 0.01	---	Herbicide.

Pesticide or Degradate	Reporting Agency	Wells with Detections	Concentration (ppb)	Drinking Water Standards and Advisories (ppb)	DPR Response to Detections
Triclopyr, triethylamine salt*	SWRCB	1	0.12	---	Herbicide. Listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR is investigating the single detection that exceeded 0.04 ppb.
Trifluralin	SWRCB	2	0.005 - 0.006	U.S. EPA HAL – 10	Herbicide.

INACTIVE AND UNREGISTERED PESTICIDES

DPR has regulatory authority over currently registered plesticides only, therefore, DPR reports but does not respond to detections of pesticides that are no longer, or have never been, registered for use in California.

For this reporting period, CDPH and SWRCB detected 15 pesticides that are no longer registered for use in California, one degradate of a pesticide that is no longer registered, and four compounds that have never been registered for use in California as pesticides although they are, or may have been, used as pesticides elsewhere in the U.S. (Table 8 and Appendix D). Seven of the 12 pesticides detected by CDPH – carbon disulfide, DBCP, endothall, EDB, naphthalene, picloram, and xylene – are no longer registered for use in California. CDPH also detected 1,2,4-trichlorobenzene and 1,2-D – industrial chemicals that were never registered for use as pesticides in California but were previously registered by the U.S. EPA (Table 8 and Appendix D).

Twelve of the 62 pesticides and pesticide degradates detected by SWRCB – benomyl, carbon disulfide, DBCP, dicrotophos, dieldrin, dinoseb, diphenamid, imazethapyr, isofenphos, molinate, N(4-chlorophenyl)N methylurea (a degradate of monuron), and naphthalene – are no longer registered for use as pesticides in California. SWRCB also detected three chemicals that were never registered for use as pesticides in California: 1,2-D, acetochlor and chlorimuron ethyl (Table 8 and Appendix D). Acetochlor and chlorimuron ethyl are agricultural herbicides that are currently registered the U.S. EPA for use in other states.

As noted below, detections of 1,2,4-trichlorobenzene, 1,2-D, DBCP, dieldrin and EDB exceeded one or more water quality standard or advisory. In most cases, the OEHHA PHG was met or exceeded in all wells where these compounds were detected (Table 8). Although its use as an agricultural fumigant was banned in the early 1980s, DBCP continues to be the most frequently detected pesticide with detections in 288 of the 3,455 supply wells sampled for this pesticide in this reporting period (Appendix D) and with detections in 3,158 of the 14,515 wells sampled since 1985 (Appendix G, Table G-2).

For more information on the likely sources for these detections, please refer to the Summary section in this document.

Table 8. Detections of inactive and unregistered pesticides and related degradates summarized by reporting agency.

Pesticide or Degradate	Reporting Agency	Wells with Detections	Concentration (ppb)	Drinking Water Standards and Advisories (ppb)	Detection Overviews
1,2,4-Trichloro-benzene	CDPH	2	2	CDPH MCL – 0.15 OEHHA PHG – 0.5 U.S. EPA MCL – 70 U.S. EPA MCLG – 70 U.S. EPA HAL – 70	Herbicide. Previously registered by the U.S. EPA and never registered in California. Recent detections are presumed to be the result of the industrial use of this chemical. Exceeded OEHHA PHG in all wells.
1,2-D	CDPH SWRCB	9 50	0.26 - 1.13 0.02 - 1.19	CDPH MCL – 5 OEHHA PHG – 0.5 U.S. EPA MCL – 5 U.S. EPA MCLG – 0	Fumigant. Previously registered by the U.S. EPA and never registered in California. Recent detections are the result of the industrial use of this chemical. Exceeded OEHHA PHG in 11 wells and U.S. EPA MCLG in all wells.
Acetochlor	SWRCB	4	0.002 - 0.059	---	Herbicide. Currently registered by the U.S. EPA and never registered in California.
Benomyl	SWRCB	1	0.003	---	Fungicide. Previously registered by the U.S. EPA and in California.
Carbon disulfide	CDPH SWRCB	1 70	2.7 0.01 - 0.55	CDPH NL – 160	Fumigant. Previously registered by the U.S. EPA and in California. Recent detections are presumed to be the result of the industrial use of this chemical.
Chlorimuron ethyl	SWRCB	1	0.004	---	Herbicide. Currently registered by the U.S. EPA and never registered in California.
DBCP[17]	CDPH SWRCB	244 44	0.01 - 0.87 0.01 - 2.03	CDPH MCL – 0.2 OEHHA PHG – 0.0017 U.S. EPA MCL – 0.2 U.S. EPA MCLG – 0	Soil fumigant. Previously registered by the U.S. EPA and in California. Exceeded CDPH MCL and U.S. EPA MCL in 74 wells and the OEHHA PHG and the U.S. EPA MCLG in all wells.
Dicrotophos	SWRCB	1	0.03	---	Insecticide. Previously registered by the U.S. EPA and in California.
Dieldrin	SWRCB	9	0.002 - 0.007	CDPH AAL – 0.002	Insecticide. Previously registered by the U.S. EPA and in California. Met or exceeded CDPH AAL in all wells.
Dinoseb	SWRCB	7	0.01 - 0.04	CDPH MCL – 7 OEHHA PHG – 14 U.S. EPA MCL –7 U.S. EPA MCLG – 7	Herbicide. Previously registered by the U.S. EPA and in California.
Diphenamid	SWRCB	11	0.01 - 0.03	U.S. EPA HAL – 200	Herbicide. Previously registered by the U.S. EPA and in California.

[17] Many of the SWRCB wells tested positive for DBCP may be identical to wells reported by CDPH due to different well identification systems. There is insufficient data to make this determination. Therefore DPR counts each positive well as a unique detection with uncertainty.

Pesticide or Degradate	Reporting Agency	Wells with Detections	Concentration (ppb)	Drinking Water Standards and Advisories (ppb)	Detection Overviews
Endothall*	CDPH	1	64	CDPH MCL – 100 OEHHA PHG – 580 U.S. EPA MCL – 100 U.S. EPA MCLG – 100 U.S. EPA HAL – 50	Herbicide. Currently registered by the U.S. EPA but this formulation was never registered for use in California. Other closely related formulations are registered and listed in 3 CCR section 6800(b) as potential ground water contaminants. Detections reported in 1989 were not confirmed by DPR in follow-up monitoring. DPR will consider current monitoring data in any future monitoring conducted for closely related formulations. Detection exceeded U.S. EPA HAL.
EDB	CDPH	9	0.01 - 0.17	CDPH MCL – 0.05 OEHHA PHG – 0.01 U.S. EPA MCL – 0.05 U.S. EPA MCLG – 0	Fumigant, insecticide, nematicide. Previously registered by the U.S. EPA and in California. Exceeded CDPH MCL in 6 wells and OEHHA PHG in all wells.
Imazethapyr*	SWRCB	6	0.01 - 0.43	---	Herbicide. Currently registered by the U.S. EPA and previously registered in California. The ammonium salt formulation is registered for use and listed in 3 CCR section 6800(b) as a potential ground water contaminant. DPR will consider this data in any future monitoring conducted for the ammonium salt formulation.
Isofenphos	SWRCB	1	0.006	---	Insecticide. Previously registered by the U.S. EPA and in California.
Molinate*	SWRCB	6	0.008 - 0.066	CDPH MCL – 20 OEHHA – 1	Herbicide. Previously registered by the U.S. EPA and in California.
N(4-Chlorophenyl) N methylurea	SWRCB	5	0.01 - 0.02	---	Degradate of monuron, a pesticide previously registered by the U.S. EPA and in California.
Naphthalene	CDPH SWRCB	2 2	0.4 - 0.5 0.3 - 0.4	CDPH NL – 17 U.S. EPA HAL – 100	Fumigant. Currently registered by the U.S. EPA and previously registered in CA. Detections are presumed to be the result of the industrial use of this chemical.
Picloram	CDPH	1	3.6	CDPH MCL – 500 OEHHA PGH – 500 U.S. EPA MCL – 500 U.S. EPA MCLG – 500	Herbicide. Currently registered by the U.S. EPA and previously registered in California.
Xylene	CDPH	2	0.72 - 1.3	CDPH MCL – 1,750 OEHHA PHG – 1,800 U.S. EPA MCL – 10,000 U.S. EPA MCLG – 10,000	Insecticide. Previously registered by the U.S. EPA and in California. Detections are presumed to be the result of the industrial use of this chemical.

Note that both CDPH and SWRCB sampled for and detected 1,2-D, carbon disulfide, DBCP, and naphthalene. To develop a comprehensive assessment of drinking water quality, the GAMA Priority Basin Project focused on sampling public supply wells that are also regulated by CDPH. Therefore, some public supply wells may have been sampled by both agencies during the sampling periods covered in this report. Because these agencies use different well identification systems, DPR cannot accurately

identify the individual wells that may have been sampled by both agencies. As a result, this report may overstate the number of wells with detections as some of those detections noted above may have occurred in the same well.

PREVIOUSLY REPORTED DETECTIONS

DPR followed up on pesticide detections reported by CDPH in previous report years by examining use near the sampled wells and the properties of the individual pesticides. The sampled wells have no history of any pesticide contamination and these pesticides have not been detected in any other nearby wells.

- In 2008, CDPH detected diquat bromide in two wells in Lake and Mendocino counties (reported in the 2009 Well Inventory Report). No diquat bromide use was reported within a three mile radius of the well. These two wells had no history of diquat bromide detections in prior samples (sampled four previous years in Lake County and three previous years in Mendocino County) and diquat bromide was not detected in follow-up sampling in 2011. DPR will take no further action on these diquat bromide reports.
- In 2008, CDPH detected thiobencarb in one well in Los Angeles County (reported in the 2009 Well Inventory Report). No thiobencarb use was reported within the county. This well had no history of thiobencarb detections in prior samples (sampled previously in four different years) and thiobencarb was not detected in follow-up sampling in 2011. DPR will take no further action on this diquat bromide report.
- In 2008, CDPH detected DCPA in one well in Los Angeles County (reported in the 2009 Well Inventory Report). No DCPA use was reported within a three mile radius of the well. This well has never been monitored for DCPA previously and DCPA was not detected in follow-up monitoring in 2011. DPR will take no further action on this reported detection.

ACTIONS TAKEN TO PREVENT GROUND WATER CONTAMINATION

DEPARTMENT OF PESTICIDE REGULATION

DPR protects ground water from pesticide contamination by taking actions that include – developing mobility and persistence benchmarks, identifying potential ground water contaminants, sampling ground water for pesticides that may be potential contaminants, and taking prompt action when agricultural pesticides are detected in ground water at concentrations that may threaten human health. DPR also develops contaminant transport modeling tools that are useful in prioritizing pesticides for monitoring and evaluating agricultural pesticides before they are registered to assess potential impacts to ground water and conducting scientific studies to better understand pesticide transport and ways to prevent offsite movement.

PROTECTING VULNERABLE AREAS FROM PESTICIDE CONTAMINATION

Regulating the Use of Pesticides Found in Ground Water through Permitting

Under the PCPA, pesticides detected in ground water at levels that pollute or threaten to pollute ground water were to be prohibited unless future contamination could be controlled. From 1989 – 1999, DPR adopted mandated statewide mitigation measures for aldicarb and bentazon, and some mandatory but mainly advisory mitigation measures for atrazine, bromacil, diuron, norflurazon, prometon, and simazine that applied only in "Pesticide Management Zones" (PMZs). PMZs – one-square mile sections of land around contaminated wells – had grown to encompass about 313,000 acres statewide by 2003.

In 2004, DPR expanded the areas where certain pesticides[18] are regulated to 2.4 million acres (Figure 4) and adopted mandatory mitigation

Figure 4. Ground Water Protection Areas (GWPAs).

[18] 3 CCR section 6800[a] includes atrazine, bentazon, bromacil, diuron (except for products with less than 7% diuron that are applied to foliage), norflurazon, prometon, and simazine.

measures to protect ground water.[19] Called "ground water protection areas" (GWPAs), these new areas include all the former existing and draft PMZs as well as sections of land with no reported detections but with soil types and depths-to-ground water that are characteristic of contaminated areas. Based on the pathway of pesticide movement to ground water, GWPAs are designated as either leaching or runoff. There are 1,673 sections of land (1.1 million acres) identified as leaching GWPAs, where the mitigation measures are designed to prevent over-irrigation. There are 2,015 sections of land (1.3 million acres) identified as runoff GWPAs, where the mitigation measures are designed to either prevent offsite movement of contaminated runoff or manage contaminated runoff so that it does not move to ground water. Fifty four sections of land (35,000 acres) were identified as partial leaching and partial runoff GWPAs.

For the first time, DPR identified a basis for not only regulating pesticides to prevent pesticide contamination but also for targeting mitigation measures to the pathway of contamination. Property operators, such as growers, must obtain a permit from the County Agriculture Commission (CAC) before they may use a regulated pesticide listed in 3 CCR section 6800(a) in a leaching or runoff GWPA. The permit specifies the pesticide use modifications, tailored to the specific vulnerability of the intended treatment site, which the permittee must follow. The permittee must notify the CAC within 24 – 48 hours before application to give the CAC an opportunity to inspect the site. Pre-application site inspections allow CACs to determine whether the use modifications are protective and, if they are not, to revise the permit appropriately. CACs also conduct application inspections to ensure compliance with permit and pesticide label requirements.

In addition, DPR continues to enforce statewide regulations to protect ground water from the use of aldicarb and bentazon (3 CCR sections 6458 and 6457, respectively) by regulating the application period, specific crop, and crop growth stage on which they can be applied.

More information on how DPR and CACs regulate the use of ground water contaminants in vulnerable areas is available at: <http://www.cdpr.ca.gov/docs/emon/grndwtr/gwp_id_gwpa.htm>.

Assessing the Effectiveness of Mitigation Measures

In 1999, DPR initiated a long-term monitoring study to gather baseline pesticide concentrations and eventually measure the effectiveness of the expected revision in the ground water protection regulations. The revised regulations were adopted in 2004 to protect ground water from further contamination by pesticide residues. Seventy-five wells were selected on the basis of type, location, and monitoring history. Currently, DPR's well monitoring network includes 68 shallow, domestic wells located in runoff and leaching GWPAs in Fresno and Tulare counties. Previous sampling by DPR showed that all of the candidate wells contained residues of pesticides that in 1999 were regulated as ground water contaminants, which were primarily simazine, bromacil, and diuron. The objective of the monitoring is to determine trends in pesticide residue concentration and detection frequency in areas where the use of these pesticides is regulated. Preliminary analysis suggests that regulatory action taken by DPR prior to 2004 resulted in measurable decreases in detection frequencies and well water concentration for many of the regulated pesticides (Table 9).

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[19] 3 CCR sections 6416, 6487.1 – 6487.5.

Table 9. Comparison of DPR well monitoring network results for 1999 and 2011.

	ACET	Atrazine	Bromacil	DACT	DEA	Diuron	DSMN	Hexazinone	Norflurazon	Prometon	Simazine
1999											
Positive wells	71	4	30	64	6	45	NS	0	13	1	65
Average concentration (ppb)	0.48	0.08	0.96	0.82	0.11	0.35	--	--	0.16	0.07	0.13
2011											
Positive wells	52	3	21	56	4	22	36	1	19	0	38
Average concentration (ppb)	0.40	0.09	0.82	0.71	0.15	0.12	0.23	0.07	0.19	--	0.09

Available data also indicate the need for further monitoring of this network to assess the success of the more encompassing regulations implemented following 2004. DPR will publish a separate report that includes the first in-depth statistical analysis and discussion of these data as well as analysis of pesticide use patterns, agricultural practices, well construction, and other observational information that may impact the observed effects for each well.

The 2011 results for the well monitoring network are also described in the DPR Sampling Results section.

For more information on this study, please refer to:

Garretson, C. 2012. Study 182 / 228–Preliminary Summary of Results for Well Sampling from 1999 through 2011. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/ehapreps/eh2011.pdf>.

For more information about this study, please refer to:

Garretson, C. 1999. Study 182: Protocol for Monitoring the Concentration of Detected Pesticides in Wells Located in Highly Sensitive Areas. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/protocol/prot182.pdf>.

IDENTIFYING POTENTIAL GROUND WATER CONTAMINANTS

To facilitate the primary goal of preventing further pollution of ground water, DPR developed several key processes to evaluate an agricultural pesticide's pollution potential: the creation of a physical-chemical properties database, modeling a pesticide's fate in the environment, and evaluating new pesticides for potential leaching prior to registration.

Using Computer Modeling Tools to Predict Pesticide Contamination Potential

DPR maintains mobility and persistence data on over 400 agricultural pesticides in the Pesticide Chemistry Database. These data come from studies submitted by pesticide registrants when they register an agricultural pesticide in California. These data are also used to identify potential ground water contaminants and in modeling tools used to assess the impact of a pesticide on the environment.

If an agricultural pesticide exceeds mobility and persistence benchmarks called Specific Numerical Values (SNV), then further review is needed before registration can be approved. DPR staff review data from terrestrial field dissipation (TFD) studies where pesticides are applied to bare or cropped fields and then soil is sampled at various depths to measure pesticide movement and persistence in the field. These studies provide a partial assessment of a pesticide's environmental fate in "real-world" conditions. Persistence data from TFD studies, along with mobility data from other laboratory studies, are used to model a pesticide's potential to contaminate ground water in a soil that that allows rapid leaching (downward movement) of water and other chemicals such as pesticides and fertilizers.

DPR's modeling procedure consists of two phases. The first phase uses the "Leaching Estimation and Chemistry Model (LEACHM) pesticide fate and transport model" (Hutson and Wagenet, 1992). LEACHM uses mobility and persistence data, label information, climate data, and irrigation inputs to predict a pesticide's movement through the root zone of a leaching-vulnerable soil (Spurlock, 2000). However, since pesticide mobility and persistence data can be highly variable, the model runs multiple times with a range of values. The result of the modeling is a distribution of estimated pesticide concentrations below the root zone. The results of the multiple LEACHM runs are then used in the second phase of the modeling procedure.

The second phase takes the root zone concentrations and converts them, after accounting for dilution and aging, into well water concentrations. Each estimated well water concentration can be assigned a probability of occurrence (Troiano and Clayton, 2009). DPR uses the estimated concentrations in well water and their associated probabilities when determining a pesticide's potential to contaminate California ground water.

DPR also uses this modeling procedure to prioritize pesticides for routine ground water monitoring throughout the state. Pesticides with higher modeled ground water concentrations generally receive priority for ground water monitoring. Modeling has also been used in designing DPR field studies.

Evaluating New Pesticides for Registration and Use in California

If a modeling assessment indicates that a new pesticide is likely to be detected in ground water following normal use practices, DPR will require the pesticide registrant to supply additional data. New data often provides information that is specific to Californian agricultural conditions and can help to

determine whether the pesticide's contamination potential can be mitigated. If necessary, the registrant will be required to take steps, such as amending the product label or committing to a stewardship program, to mitigate the potential threat to ground water before DPR will approve the pesticide for use in California. If mitigation is not possible, then California registration is denied.

Between January 1, 2011, and December 31, 2011, DPR's Ground Water Protection Program evaluated the ground water contamination potential of 12 pesticides proposed for California registration. Following evaluation, registration was recommended for nine pesticides because they did not present a significant threat to ground water. Three pesticides were not recommended for registration because one or more required studies were either missing or deficient. For more information, please refer to DPR's Identifying Potential Pesticide Contaminants Web sitee.

MONITORING FOR POTENTIAL CONTAMINANTS

Prioritizing Pesticides for Monitoring

As required by the PCPA, DPR monitors ground water in California to determine if pesticides identified as potential ground water contaminants (3 CCR section 6800[b]) have migrated to ground water as a result of legal agricultural use (Appendix B). Prior monitoring results indicate that the risk of ground water contamination varies with the pesticides' environmental fate, use intensity, and typical application practices. Since the pesticides on this list do not pose equal risks to ground water and the SNV process fails to assign any magnitude of their risk, DPR has developed a method to rank these pesticides based on a comparison of their relative risks. This ranking enables DPR to direct limited resources to monitoring the pesticides that pose the greatest risk to ground water.

The ranking scheme relies on information that includes pesticide use and environmental fate data, label-specific information such as application site, rate, and method, and whether the pesticide is registered for use. DPR assigns higher priority for analytical method development and field monitoring to agricultural pesticides that:

- Have a higher likelihood of ground water contamination due to their persistence and mobility in soil based on computer simulated contaminant transport modeling. The modeling scenario is similar to that described in the preceding section.
- Are used intensively or whose use is increasing based on data collected through DPR's Pesticide Use Reporting Program.
- Are applied directly to the soil or require flood or furrow irrigation soon after application.
- Other qualitative factors, such as application method, use sites, and the existence of previous detections in California or nationwide, and lack of prior monitoring in California are considered in the ranking process.

Currently, the prioritization scheme has established high rankings for the pesticides known to impact California ground water, with the exception of prometon. Prometon is ranked lower than other detected pesticides because only minimal use of this pesticide has occurred since pesticide use reporting began in California. Results from future ground water monitoring studies will be used to assess and improve the predictive capabilities of this system and ensure that DPR focuses on the pesticides that pose the greatest threat to ground water.

As of 2011, DPR has monitored for 49 pesticides and 29 related degradates listed in 3 CCR section 6800(b) (Appendix B) in areas where these pesticides are used intensively and detected six pesticides and ten related degradates (Appendix C).

For more information, please refer to:
Clayton, M. 2011. Selection of Pesticide Active Ingredients for Future Analytical Method Development and Ground Water Monitoring. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/ehapreps/analysis_memos/ai_priorities_2011_2304-ross.pdf>.

Monitoring for Chlorothalonil and Oryzalin

In 2010, DPR prioritized monitoring for azoxystrobin, chlorothalonil, dichloran, iprodione and oryzalin based on the ranking system described in the previous section. Monitoring for all pesticides except chlorothalonil was initiated in 2010. Due to difficulties in method development, monitoring for chlorothalonil was initiated in 2011. In 2011, DPR completed these monitoring efforts by sampling 59 wells for chlorothalonil and 28 wells for oryzalin in vulnerable areas with high reported agricultural use of these pesticides (Table 10). DPR did not detect either pesticide in any sampled well.

Table 10. Wells sampled for chlorothalonil and oryzalin by DPR summarized by county.

	COUNTY								
	Fresno	**Kern**	**Kings**	**Madera**	**Merced**	**San Joaquin**	**Stanislaus**	**Tulare**	**TOTAL**
Wells Sampled for Chlorothalonil	14	8	1	6	7	5	9	9	**59**
Wells Sampled for Oryzalin	11	1	0	6	4	0	0	6	**28**

For more information on these studies, please refer to:
Aguirre, K., 2010. Study GW10B: Protocol for Ground Water Protection List monitoring for oryzalin. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/protocol/gw10b_protocol_final.pdf>.

Aguirre, K. and M. Clayton. Study GW10B: Ground Water Protection List monitoring for oryzalin. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/ehapreps/gw10b_report.pdf>.

Dias, J., 2010. Study GW10A: Protocol for Ground Water Protection List monitoring for azoxystrobin, chlorothalonil, dichloran, and iprodione. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/protocol/gw10protocol_final.pdf>.

Lee, P. 2010. Determination of napropamide and oryzalin in ground water by high performance liquid chromatography with ion trap mass spectrometry. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/em_methd_main.htm>.

Pyatt, E. 2009. Request to develop analytical methods for azoxystrobin, chlorothalonil, dichloran, iprodione, and vinclozolin and significant degradates in well water. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/ehapreps/analysis_memos/iprodione_and_other_fungicides.pdf>.

STATE AND REGIONAL WATER RESOURCES CONTROL BOARDS

As required by PCPA (FAC 13152), this section, prepared by SWRCB and the RWQCBs, describes recent actions taken to prevent pesticides from migrating to California's ground water.

STATE WATER RESOURCES CONTROL BOARD

State Water Board staff participated in the following activities:

- State Water Board staff participated in the following activities:
- Regularly attended meetings sponsored by DPR, including the interagency Pesticide Registration and Evaluation Committee and Pest Management Advisory Committee.
- Participated in ongoing consultations with DPR staff, University of California scientists, and pesticide manufacturers to design monitoring studies and Best Management Practices.
- Participated in discussions with USGS scientists on studies dealing with pesticides and water quality.
- Reviewed, on an ongoing basis, DPR Notices of "Materials Entering Evaluation" and advised DPR on potential water quality impacts of pesticide registration and use decisions.
- Reviewed and commented on DPR's proposed studies on pesticide and water quality pursuant to the Management Agency Agreement with DPR.
- In coordination with the USGS and LLNL, the State Water Board is implementing the GAMA. To date, the GAMA Priority Basins Project has sampled over 2,300, mostly public water supply wells, for various chemicals and parameters, including pesticides, herbicides and their degradates. The water quality results from 142 wells for two study units; Northern Coast Ranges and Sierra Regional were published in 2011, and are summarized in Table 11.

Table 11. Actions taken by the State Water Resources Control Board in 2011[20].

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Northern Coast Ranges	Various GAMA sampled wells	Pesticides and Degradates	Groundwater samples were collected from 58 wells in 2 study areas (Interior Basins and Coastal Basins) in Napa, Lake, Mendocino, Glenn, Humboldt and Del Norte counties. Herbicides; Simazine and Atrazine were detected at maximum concentrations of E0.009 and 0.011µg/L respectively. Also, a degrade, Deethylatrazine was detected at E0.006µg/L.
Sierra Regional	Various GAMA sampled wells	Pesticides and Degradates	In the Sierra Nevada study unit, groundwater samples were collected from 84 wells and springs in Lassen, Plumas, Butts, Sierra, Yuba, Nevada, Placer, El Dorado, Amador, Alpine, Calaveras, Tuolumne, Madera, Mariposa, Fresno, Inyo, Tulare, and Kern counties. Herbicides; Simazine, Atrazine, Hexazinone were detected at maximum concentrations of 0.031, 0.015, and 0.008µg/L, respectively. Herbicides degradates; Deethylatrazine, 3,4-Dichloro-aniline were found at E0.008 and E0.006µg/L, respectively. Insecticide-Fipronil, and it's degradates were detected at E0.011, E0.005, and E0.008µg/L, respectively.

[20] Data were collected by USGS prior to 2011 but were not reported until 2011.

REGIONAL WATER RESOUCES CONTROL BOARDS

The information below summarizes, by county, the monitoring, assessment, cleanup, and other actions taken by the nine RWQCBs to address point sources of contamination for pesticides.

Regional Water Quality Control Boards - No Reportable Pesticide Sampling Results

During the period from January 2011 to December 2011, no pesticide detections were reported in any groundwater quality monitoring report submitted to the following RWQCBs:

- Region 1 – North Coast Regional Water Quality Control Board
- Region 2 – San Francisco Bay Regional Water Quality Control Board
- Region 3 – Central Coast Regional Water Quality Control Board, Central Coast
- Region 4 – Los Angeles Regional Water Quality Control Board
- Region 5 – Central Valley Regional Water Quality Control Board – Redding
- Region 7 – Colorado River Basin Regional Water Quality Control Board
- Region 8 – Santa Ana Regional Water Quality Control Board

Pesticide detections were reported in groundwater quality monitoring reports submitted by the following RWQCBs:

Region 5 – Central Valley Regional Water Quality Control Board – Sacramento

Table 12. Actions taken by the Regional Water Quality Control Board, Central Valley (Region 5, Sacramento) in 2011.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Merced	J.R. Simplot, Winton	Dieldrin	Monitoring wells are being installed to a deeper depth, due to declining groundwater surface elevations.
	Western Farm Service, Merced	DBCP (1,2-dibromo-3-chloropropane)	Source area was treated, wash pad reconstructed to prevent over splash
Sacramento	Western Farm Service, Walnut Grove	Eptam	Pesticides are associated with a drainage collection area.
San Joaquin	Occidental Chemical, Lathrop	EDB (ethylene dibromide), DBCP (1,2-dibromo-3-chloropropane)	Groundwater treatment system operating.
	Continental Grain Company	Carbon Tetrachloride	Groundwater being extracted and re-circulated through an in-situ zero-valent iron formation. The process is reducing constituent concentrations.
	John Taylor Fertilizers, Stockton	Bromacil	Groundwater investigation underway to define lateral and vertical extent.
	Port of	DDD, DDE, DDT,	Assessment ongoing. Soil removal actions have

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
	Stockton, Rough & Ready Island	Heptachlor Epoxide, alachlor	occurred and more are planned. Groundwater assessment underway.
	Crop Production Service, Stockton (former Pure Gro/Brea)	EDB (ethylene dibromide), DBCP (1,2-dibromo-3-chloropropane), dinoseb dicamba, diuron, 2,4-D (2,4-Dichlorophenoxy Acetic Acid)	Assessment continuing.
	Former Oxychem/ Simplot/Pure Gro, Stockton	Tebuthiuron, bromacil, diuron, atrazine, DBCP (1,2-dibromo-3-chloropropane), dinoseb,	Hydrogen Releasing Compound was injected in 2011 and continues to remove contaminants from groundwater.
	Cal Farm Supply	b-BHC (hexachlorobenzene)	Source removed.
	Crop Production Service, Vernalis	EDB (ethylene dibromide)	Source area pollutants removed.
Solano	TSI, Dixon	Bromacil	Soil vapor extraction system operating.
Stanislaus	Chemurgic Agricultural Chemicals	g-BHC (Lindane)	Source area removed. Groundwater remediation by extraction and carbon filtration.
	Geer Road Landfill	Chloridazon,	Sampling for pesticides in 2011. Cease and Desist Order was adopted on 8 April 2011 and requires the discharger to investigate the extent of pollution in three aquifers downgradient of the landfill; monitor the Tuolumne River for constituents of concern; and enhance the current corrective action systems that exist.
	Crop Production Service, Modesto	DBCP (1,2-dibromo-3-chloropropane), EDB (ethylene dibromide), atrazine, bromacil	Source area has been removed.
Yolo	Frontier Fertilizer Company, Davis	EDB (ethylene dibromide), DBCP (1,2-dibromo-3-chloropropane) Carbon tetrachloride	Groundwater extraction, treatment and discharge is containing migration of contaminants. Subsurface thermal treatment of in source area planned for 2012.

Region 5 – Central Valley Regional Water Quality Control Board – Fresno

Table 13. Actions Actions taken by the Regional Water Quality Control Board, Central Valley (Region 5, Fresno) in 2011.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Fresno	J.R. Simplot, Helm Facility	Dieldrin	Long-term groundwater monitoring.
	Spain Air	Ethion, DEF, Parathion, Trithion, Dinoseb, Paraquat, DDE, DDT, Endosulfan II	Assessment needed.
	CPS (PureGro), Oxalis	1,2-Dichloropropane, 1,2,3-TCP, nitrate	Engineering feasibility study and work plan for alternative in preparation.
	Eagle Field (FUDS)	2,4-D, Pentachlorophenol,	Pesticides detected from groundwater grab samples. Additional assessment is needed.
	Broadview Water District – Bullard Avenue Air Strip	DDT Toxaphene	Pesticides detected from groundwater grab samples. Assessment in progress. Remediation options are being assessed.
	Former Unocal - Whitesbridge Rd, Kerman	DDT, Toxaphene and Dieldrin	Off-site work plan submitted. Additional investigation needs to be performed.
	Wingate Chemical Co. (Former)	DDT	DDT only found in soil and at concentrations (< 10 mg/kg) well below the Industrial RSL or CHHSL.
	Fresno County Wells	DBCP, EDB, 1,2-D	Pesticides detected in 146 wells (AB 1803 sampling).
Kern	Western Farm Service, Delano Facility	DDT, Toxaphene, Dinoseb, Dicamba	Assessment on-going, long-term monitoring on-going, impacted soils have been capped. Health Risk performed with regard in developing soil clean up levels for possible excavation. Two additional downgradient monitoring wells installed to assess extent of off-site plume.
	Dick Garriott Crop Dusting, Bakersfield	Chlordane, DDE, DDT, PCNB, Endosulfan I & II, Methoxychlor, Carbofuran, Carbaryl, Bufencarb, DEF, Tedion, Diazinon, Chlorpyrifos, Ethyl Parathion, Diuron, Dinoseb,	No new work during reporting period.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
		Dicamba	
	Kern County Wells	DBCP, 1,2-D, EDB	Pesticides detected in 57 wells (AB 1803 sampling). No assessment underway.
	CPS Bakersfield Norris Rd	1,2,3-DCP	Quarterly monitoring on-going. Additional plume definition assessment needed
Kings	Blair Field	2,4-D, Dicofol, Diazinon, Propargite	Assessment needed.
	Blair Aviation	Trifluralin, Mevinphos, Phorate	Contamination assessment needed.
	Lakeland Dusters	DDT, Toxaphene	Contaminated soils excavated and stockpiled on site. Remediation underway.
Madera	Madera Municipal Airport	DDT, DDE, Toxaphene, Dicofol, Endrin	Impacted soils have been capped. Long-term monitoring on going.
	Chowchilla Municipal Airport	Dieldrin, Alpha-BHC, Endosulfan, PCNB, DDT, DDE, Lindane	Contamination assessment needed.
	Western Farm Service, Inc., Madera Facility	Dinoseb, DBCP, Dieldrin	Impoundment closed. Impacted soils have been capped. Long-term monitoring on going.
	Madera County Wells	DBCP	DBCP detected in two wells (AB 1803 sampling). No assessment underway.
Tulare	Mefford Field, City of Tulare	p,p'-DDT, p,p'-DDE, 2,4,5-TCP, Dicamba, DNBP, Diuron	Contamination assessment and mitigation reports needed.
	Crop Prod. Services - Cutler	DBCP and 1,2,3-TCP	Additional site assessment workplan being prepared.
	Tulare Airport	2,4-D, DNBP	Assessment needed.
	Tulare County Wells	1,2-D	No assessment underway.

Region 6 – Lahontan Regional Water Quality Control Board

Table 14. Actions taken by the Regional Water Quality Control Board, Lahontan (Region 6) in 2011.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
Inyo	Amargosa River Upper Canyon	Triclopyr	If triclopyr is again detected, Regional Board staff will investigate possible sources.
San Bernardino	Former George Air Force Base	Dieldrin	Groundwater monitoring wells are being sampled to continue to track contaminant locations and concentration. No municipal supply wells have been found to contain dieldrin.
	China Lake Naval Weapons Center	4,4' DDD 4,4' DDE 4,4' DDT Dieldrin Chlordane	Ground water is monitored, and is not used for drinking water in the area east of China Lake Playa.
Placer	Resort at Squaw Creek Golf Course	Clopyralid	Key wells, up-gradient, within the course, and downgradient, are being monitored with a focus on detection of nutrients and pesticides in the shallow aquifer prior to affecting any potential municipal supplies located nearby.
All counties in Region 6 (includes all or parts of Modoc, Lassen, Pumas, sierra, Nevada, Placer, El Dorado, Alpine, Mono, Inyo, San Bernardino, Kern, Los Angeles Counties)	Region wide	Herbicides	To qualify for the waiver under the Timber Harvest Activities Waiver Policy (revised waiver adopted by the Regional Board in May 2009), applicants must notify the Regional Board at least 90 days in advance of any proposed herbicide application, and provide specific information about the proposed herbicide use. They must also adhere to any monitoring program prescribed by the executive Officer.

Region 9 – San Diego Regional Water Quality Control Board

Table 15. Actions taken by the Regional Water Quality Control Board, San Diego (Region 9) in 2011.

COUNTY	SITE	PESTICIDE	PREVENTION ACTION
San Diego	Camp Pendleton IR Site 1D,	4,4'-DDD at 11µg/L 4,4'-DDE at 0.12 J µg/L 4,4'-DDT at 1.5 J µg/L Heptachlor epoxide at 0.043 J µg/L Arsenic at 19.9 mg/L	Groundwater samples collected from an extraction (remediation) trench at the former burn dump contained pesticides. High concentration of arsenic may be related to pesticides used for rodent control in the past. By January 2011, 650,000 gallons of water were removed from the trench for treatment and disposal.

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Troiano, J., and M. Clayton. 2009. Modification of the Probabilistic Modeling Approach to Predict Well Water Concentrations used for Assessing the Risk of Ground Water Contamination by Pesticides. Available at: <http://www.cdpr.ca.gov/docs/emon/pubs/ehapreps/analysis_memos/probabilistic_model.pdf>.

APPENDIX A – GROUND WATER SAMPLING RESULTS SUMMARIZED BY REPORTING AGENCY

The following table summarizes, by reporting agency, the number of wells sampled and the total samples analyzed by CDPH in 2011, DPR in 2011, and SWRCB from 2004-2011.

Reporting Agency	Last Year Data Reported	Total Wells Sampled	Total Samples Analyzed
American Environmental Consulting Firm	1991	1	3
California Department Of Pesticide Regulation	2012	5,610	71,098
California Department Of Public Health	2012	13,703	1,758,498
California Department Of Water Resources	1997	333	19,992
Regional Water Quality Control Board, North Coast (Region 1)	1992	75	1,949
Regional Water Quality Control Board, San Francisco Bay (Region 2)	1997	13	697
Regional Water Quality Control Board, Central Coast (Region 3)	1991	27	779
Regional Water Quality Control Board, Los Angeles (Region 4)	1985	47	865
Regional Water Quality Control Board, Central Valley (Region 5)	1993	56	427
Regional Water Quality Control Board, Lahontan (Region 6)	1998	2	10
Regional Water Quality Control Board, Santa Ana (Region 8)	1986	18	18
Regional Water Quality Control Board, San Diego (Region 9)	1988	2	5
State Water Resources Control Board	2012	2,048	174,005
California Water Service Company	1989	7	72
Ciba-Geigy	1997	27	184
City Of Davis	1986	1	6
City Of Oceanside	1988	1	1
City Of San Francisco	1997	11	319
Fresno County	1985	2,023	2,080
Glenn County	1993	5	72
Imperial County	1988	1	11
Kern County	1990	336	3,558
Lake County	1989	4	9
Madera County	1988	115	151
Marin County	1988	8	60
Modoc County	1989	4	13
Rhone-Poulenc Ag. Co.	1992	152	1,116
Riverside County	1988	5	50
Sacramento County	1990	130	1,717
San Diego County	1989	8	16

Reporting Agency	Last Year Data Reported	Total Wells Sampled	Total Samples Analyzed
San Luis Obispo County	1992	2	2
San Mateo County	1986	8	352
Santa Barbara County	1988	4	240
Santa Clara County	1991	718	12,567
Santa Clara Valley Water District	1997	20	549
Solano Irrigation District	1988	10	162
Stockton – East San Joaquin Water Conservation District	1997	49	621
Sutter County	1987	1	4
U. S. Bureau Of Land Management	1987	2	12
U. S. Department Of Agriculture	1993	9	84
U. S. Environmental Protection Agency	1990	6	605
U. S. Forest Service	1997	49	298
U. S. Geological Survey	2005	373	14,977
Yolo County	1993	36	627
Yuba County	1993	47	537

APPENDIX B – DPR MONITORING RESULTS FOR PESTICIDES ON THE GWPL

GWPL (3 CCR section 6800[b] consists of agricultural pesticides that exceed SNVs for mobility and persistence and are intended to be applied to or injected into the soil by ground-based application equipment or by chemigation, or the label of the pesticide requires or recommends that the application be followed, within 72 hours, by flood or furrow irrigation. FAC sections 13141–13152 outline procedures for creating the GWPL and monitoring for pesticides on the GWPL. Prior monitoring results indicate that the risk of ground water contamination varies with the pesticides' environmental fate, use intensity, and typical application practices. Since the pesticides on the GWPL do not pose equal risks to ground water and the SNV process fails to assign any magnitude of their risk, DPR has developed a method to rank the pesticides on this list based on a comparison of their relative risks. This ranking enables DPR to direct resources to monitoring the pesticides that pose the greatest risk to ground water.

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	**Degradate**			**Total**	**Total Positive**	**Total**	**Total Positive**	**Min**	**Max**	**Min**	**Max**
2,4-D (2-ethylhexyl ester‡, diethanolamine salt‡, dimethylamine salt, and isooctyl ester‡) and 2,4-DP-P‡ (dichlorophenoxy propionic acid)		YES	1987 (2), 1989 (6), 1990 (17), 1992 (32), 1993 (4), 1995 (6), 1999 (6)	179	0	106	0	0	0	0.1	0.5
Acephate		YES									
Alachlor*		YES	1985 (15), 1986 (34), 1987 (30), 1991 (6), 1992 (4), 2001 (88), 2004 (12), 2007 (1), 2009 (68)	406	2	253	2	0.1	1.5	0	0.5
Alachlor ESA*	x	N/A	2001 (88), 2004 (12), 2007 (1), 2009 (68)	245	41	167	34	0.05	1.38	0.05	0.1
Alachlor OXA (oxanilic acid)*	x	N/A	2001 (88), 2004 (12), 2007 (1), 2009 (68)	245	3	167	2	0.05	0.06	0.05	0.1

‡ Pesticide added to the GWPL in 2008.

* See Appendix C for DPR's response to these detections.

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	**Degradate**			**Total**	**Total Positive**	**Total**	**Total Positive**	**Min**	**Max**	**Min**	**Max**
Aldicarb		YES - production phase out 12/14; final use 12/18	1979 (1), 1985 (10), 1986 (33), 1988 (6), 1989 (49), 1990 (47), 1991 (56), 1993 (6), 1995 (21), 1997 (6), 2001 (4), 2006 (55)	363	0	291	0	0	0	0.05	2
Aldicarb sulfone*	x	N/A	1985 (3), 1988 (6), 1989 (49), 1990 (47), 1991 (56), 1993 (6), 1995 (21), 1997 (6), 2001 (4), 2006 (55)	332	15	250	5	0.2	4.9	0.05	2
Aldicarb sulfoxide*	x	N/A	1988 (6), 1989 (49), 1990 (47), 1991 (56), 1993 (6), 1995 (21), 1997 (6), 2001 (4), 2006 (55)	321	7	247	3	0.2	13.2	0.05	2
Azinphos-methyl		NO (last registered 09/30/12)	1985 (1), 1986 (2), 1991 (6), 1995 (32)	41	0	41	0	0	0	0.05	1
Azinphos-methyl oxon	x	N/A	1991 (6)	6	0	6	0	0	0	0.2	0.2
Azoxystrobin‡		YES	2010 (124)	124	0	124	0	0	0	0.05	0.05
Azoxystrobin acid*	x	N/A	2010 (124)	124	3	124	3	0.1	0.27	0.05	0.05
Azoxystrobin Z	x	N/A	2010 (124)	124	0	124	0	0	0	0.05	0.05
Bensulfuron methyl‡		YES									
Bensulide		YES									
Bispyribac-sodium‡		YES									
Butylate		NO (last registered 12/31/09)	1992 (25)	26	0	25	0	0	0	0.1	0.1
Carbaryl		YES	1990 (6), 1995 (15)	27	0	21	0	0	0	0.05	1
Carbofuran*		NO (last registered 12/31/11)	1985 (237), 1986 (34), 1991 (6), 1992 (6), 1995 (38)	321	1	316	1	0.5	0.5	0	5
3-Hydroxycarbofuran	x	N/A	1995 (3)	3	0	3	0	0	0	0.05	0.05

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	Degradate			Total	Total Positive	Total	Total Positive	Min	Max	Min	Max
3-Ketocarbofuran phenol	x	N/A	1991 (6), 1992 (6)	12	0	7	0	0	0	0.05	0.05
Chloropicrin		YES									
Chlorothalonil		YES	2010 (1), 2011 (59)	60	0	60	0	0	0	0.05	0.05
Chlorsulfuron		YES									
Clomazone‡		YES									
Cyanazine		NO (last registered 12/31/02)	1989 (80), 1991 (6), 1992 (106), 1993 (248), 1994 (564), 1995 (268), 1996 (186), 1997 (40), 1998 (123), 1999 (116), 2000 (163), 2001 (72)	2,416	0	1,704	0	0	0	0.05	0.2
Cycloate		YES	1992 (30)	30	0	30	0	0	0	0.1	0.1
Dazomet		YES									
Diazinon*		YES	1987 (9), 1988 (6), 1990 (6), 1991 (6), 1992 (3), 1993 (16), 1994 (19), 1995 (3)	140	3	68	1	0.1	2.6	0.05	1
Diazoxon	x	N/A	1991 (6), 1992 (3), 1993 (16)	41	0	25	0	0	0	0.05	0.1
Dicamba‡ **(diglycolamine salt, dimethylamine salt & sodium salt)**		YES									
Dichlobenil		YES									
Dichloran		YES	2010 (124)	124	0	124	0	0	0	0.05	0.05
Diethatyl-ethyl		NO (last registered 03/24/94)	1991 (6)	6	0	6	0	0	0	0.1	0.1
Diflufenzopyr, sodium salt‡		YES									
Dimethenamid-P‡		YES									
Dimethoate		YES	1984 (1), 1991 (6), 1993 (3), 1995 (3)	16	0	13	0	0	0	0.01	0.1
Dinotefuran‡		YES									

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	Degradate			Total	Total Positive	Total	Total Positive	Min	Max	Min	Max
Diquat dibromide		YES									
Disulfoton		NO (last registered 05/12/11)	1985 (26), 1986 (1), 1991 (6)	33	0	33	0	0	0	0	0.2
Dithiopyr‡		YES									
Endothall‡ -- (dipotassium salt & mono (N,N-dimethyl alkylamine) salt)		YES									
EPTC		YES	1992 (28), 1993 (5), 2005 (44)	83	0	77	0	0	0	0.05	0.1
Ethofumesate		YES									
Ethoprop		YES	1991 (6), 1995 (3)	9	0	9	0	0	0	0.03	0.05
Fenamiphos		NO (last registered 12/31/09)	1985 (3), 1987 (40), 1991 (6), 1993 (13), 1994 (21), 2001 (60)	156	0	143	0	0	0	0.05	5
Fenamiphos sulfone	x	N/A	1985 (3), 1987 (40), 1991 (6), 1993 (12), 1994 (21), 2001 (60)	155	0	142	0	0	0	0.05	5
Fenamiphos sulfoxide	x	N/A	1985 (3), 1987 (40), 1991 (6), 1993 (13), 1994 (21), 2001 (60)	157	0	143	0	0	0	0.05	5
Fenoxycarb‡		YES									
Fludioxonil‡		YES									
Fluometuron		NO (last registered 10/12/90)	1989 (21)	21	0	21	0	0	0	0.07	0.1
Flutolanil‡		YES									
Fonofos		NO (last registered 12/31/99)	1991 (6), 1994 (25), 1995 (3)	59	0	34	0	0	0	0	0.05
Fosetyl-Al (aluminum tris‡)		YES									
Halosulfuron-methyl‡		YES									

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	Degradate			Total	Total Positive	Total	Total Positive	Min	Max	Min	Max
Hexazinone*		YES	1992 (105), 1993 (269), 1994 (564), 1995 (268), 1996 (186), 1997 (40), 1998 (123), 1999 (116), 2000 (163), 2001 (217), 2002 (143), 2003 (116), 2004 (129), 2005 (68), 2006 (66), 2007 (291), 2008 (164), 2009 (68), 2010 (170), 2011 (29)	4,084	46	2,450	29	0.05	0.55	0.05	0.2
2-Hydroxycyclohexyl hexazinone*	x	N/A	2002 (69)	69	1	69	1	0.13	0.13	0.05	0.05
Decyclohexyl-4-hydroxy Hexazinone	x	N/A	2002 (69)	69	0	69	0	0	0	0.05	0.05
Monomethyl hexazinone	x	N/A	2002 (69)	69	0	69	0	0	0	0.05	0.05
Imazamox, ammonium salt‡		YES									
Imazapic, ammonium salt‡		YES									
Imazethapyr		NO (last registered 12/31/08)									
Imazethapyr ammonium salt‡		YES									
Imidacloprid		YES	2003 (33), 2009 (34)	67	0	64	0	0	0	0.05	0.05
Imidacloprid guanidine	x	N/A	2003 (33), 2009 (34)	68	0	64	0	0	0	0.05	0.05
Imidacloprid olefin	x	N/A	2003 (33), 2009 (34)	67	0	64	0	0	0	0.05	0.05
Imidacloprid olefinic-guanidine	x	N/A	2003 (33), 2009 (34)	67	0	64	0	0	0	0.05	0.1
Imidacloprid urea	x	N/A	2003 (33), 2009 (34)	67	0	64	0	0	0	0.05	0.05
Iprodione		YES	2010 (124)	124	0	124	0	0	0	0.05	0.05
3,5-Dichloroanaline	x	N/A	2010 (124)	124	0	124	0	0	0	0.1	0.1

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	Degradate			Total	Total Positive	Total	Total Positive	Min	Max	Min	Max
Isoxaben		YES									
Linuron		YES	1989 (21), 1990 (5), 1991 (6), 2012 (in progress - results not yet available)	40	0	27	0	0	0	0.04	0.3
Malathion‡		YES	1986(1), 1995(3)	4	0	4	0	0	0	0.05	0.1
Mefenoxam‡ **& Metalaxyl**[21]		YES	1991 (6), 1995 (27), 2012 (in progress - results not yet available)	33	0	33	0	0	0	0.1	0.1
Metaldehyde		YES									
Methiocarb		YES	1991 (6), 1995 (3)	9	0	9	0	0	0	0.05	0.1
Methiocarb sulfone	x	N/A	1991 (6), 1995 (3)	9	0	9	0	0	0	0.05	0.1
Methiocarb sulfoxide	x	N/A	1991 (6), 1995 (3)	9	0	9	0	0	0	0.05	0.1
Methomyl		YES	1993 (2), 1995 (3), 2006 (1), 2012 (in progress - results not yet available)	8	0	6	0	0	0	0.05	0.1
Methyl isothiocyanate		YES	1992 (29)	29	0	29	0	0	0	5	5
Methyl parathion‡		NO (last registered 12/31/09)	1995 (3)	3	0	3	0	0	0	0.05	0.05
Metolachlor & S-metolachlor‡,[22]		YES	1985 (14), 1986 (34), 1987 (30), 1991 (6), 2001 (88), 2009 (68)	400	0	249	0	0	0	0.05	0.5

[21] Mefenoxam and metalaxyl are enantiomers and are chemically indistinct using current laboratory analytical methods. Mefenoxam was intended to replace metalaxyl; use of mefenoxam has increased while use of metalaxyl has concurrently decreased. DPR added mefenoxam to the GWPL in 2008 and began sampling for it in high use areas in 2012. All prior sampling was focused in metalaxyl use areas.

[22] Metolachlor and metolachlor-S are enantiomers and are chemically indistinct using current laboratory analytical methods. Metolachlor-S, which has greater efficacy at lower use rates, has largely replaced metolachlor. DPR added metolachlor-S to the GWPL in 2008 and began sampling for both pesticides in high use areas in 2009. All prior sampling, from 1985 through 2001, was focused in metolachlor use areas.

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	**Degradate**			**Total**	**Total Positive**	**Total**	**Total Positive**	**Min**	**Max**	**Min**	**Max**
Metolachlor ESA*	x	N/A	2001 (88), 2004 (12), 2009 (68)	244	77	166	64	0.05	24	0.05	0.1
Metolachlor OXA*	x	N/A	2001 (88), 2004 (12), 2009 (68)	244	31	166	23	0.05	2.65	0.05	0.1
Metribuzin		YES	1989 (80), 1991 (6), 1992 (105), 1993 (265), 1994 (564), 1995 (268), 1996 (186), 1997 (40), 1998 (123), 1999 (116), 2000 (163), 2001 (72)	2,455	0	1,721	0	0	0	0.05	0.2
Molinate*		NO (last registered 12/31/09)	1984 (28), 1985 (187), 1986 (33), 1989 (19), 1990 (6), 1991 (6), 1993 (23), 2003 (6)	458	18	304	4	0.56	29	0	2
Molinate sulfoxide*	x	N/A	1984 (23), 1985 (187)	290	2	210	1	0.8	0.8	0	50
Napropamide		YES	1998 (54), 2007 (74)	128	0	126	0	0	0	0.05	0.05
Naptalam sodium salt		NO (last registered 12/31/90)									
Nitrapyrin		YES									
Oryzalin		YES	1992 (2), 1998 (54), 2007 (74), 2010 (36), 2011 (28)	195	0	190	0	0	0	0.05	0.05
Oxydemeton-methyl		YES	1991 (6), 1996 (28)	34	0	34	0	0	0	0.1	0.1
Parathion		NO (last registered 12/31/92)	1991 (6), 1995 (3)	9	0	9	0	0	0	0.05	0.1
Pebulate		NO (last registered 12/31/02)									
Penoxsulam‡		YES									
Phorate		YES									
Piperonyl butoxide‡		YES									

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	Degradate			Total	Total Positive	Total	Total Positive	Min	Max	Min	Max
Prometryn		YES	1989 (80), 1991 (6), 1992 (107), 1993 (225), 1994 (564), 1995 (268), 1996 (186), 1997 (40), 1998 (123), 1999 (116), 2000 (163), 2001 (72)	2,377	0	1,683	0	0	0	0.05	0.2
Propanil‡		YES									
Propyzamide		YES	1995 (25), 2012 (in progress - results not yet available)	25	0	25	0	0	0	0.05	0.05
Pyrazon		YES									
Rimsulfuron		YES									
Siduron‡		YES	1990 (21)	21	0	21	0	0	0	0.1	0.13
Sulfometuron methyl		YES									
Tebuthiuron*		YES	1989 (27), 2008 (59), 2009 (68), 2010 (159), 2011 (96)	532	12	369	8[23]	0.02	0.15	0.05	0.1
Tebuthiuron degradate 104*	x	N/A	2008 (59), 2009 (89), 2010 (92), 2011 (29)	270	1	264	1	0.06	0.06	0.05	0.05
Tebuthiuron degradate 106	x	N/A	2008 (59), 2009 (89), 2010 (92), 2011 (29)	270	0	264	0	0	0	0.05	0.05
Tebuthiuron degradate 107	x	N/A	2008 (59), 2009 (89), 2010 (92), 2011 (29)	270	0	264	0	0	0	0.05	0.05
Tebuthiuron degradate 108	x	N/A	2008 (59), 2009 (89), 2010 (92), 2011 (29)	270	0	264	0	0	0	0.05	0.05
Terrazole‡		YES									
Thiamethoxam‡		YES									

[23] Four detections were below the analytical method reporting limit of 0.05 ppb.

Pesticide		Registered	Years Monitored (# Wells)	Samples		Wells		Results (ppb)		Reporting Limit (ppb)	
Parent	Degradate			Total	Total Positive	Total	Total Positive	Min	Max	Min	Max
Thiazopyr‡		NO (last registered 12/31/11)									
Thiobencarb‡		YES	1985 (187), 1986 (33), 1989 (19), 1992 (9), 1993 (9)	344	0	257	0	0	0	0.1	0.5
Thiophanate methyl‡		YES									
Triallate		YES									
Triclopyr‡ **(butoxyethyl ester & triethylamine salt)**		YES									
Triflumizole		YES									
Uniconizole-P‡		YES									
Vernolate		NO (last registered 12/31/90)									
Vinclozolin[24]		YES	(see results for 3,5-Dichloroanaline)								

[24] In 2010, DPR requested the CDFA Center for Analytical Chemistry to develop an unequivocal analytical method for azoxystrobin, dichloran, iprodione, vinclozolin and their major degradates. CDFA was unable to develop an analytical method for vinclozolin because it was extremely unstable under normal storage conditions but they were able to develop an unequivocal analytical method for 3, 5-dichloroaniline, a major degradate of both iprodione and vinclozolin. DPR monitored in areas where vinclozolin had been applied and used the results for 3, 5-dichloroaniline to assess the impact of vinclozolin on ground water. All samples were negative for 3, 5-dichloroaniline. For more information, please refer to "Determination of Azoxystrobin, Azoxystrobin Acid, Azoxystrobin Z-metabolite, Dichloran, Iprodione, Isoiprodione, Vinclozolin and 3,5- Dichloroaniline in Well Water (CDFA, 2010)" and "Protocol for Ground Water Protection List Monitoring for Azoxystrobin, Chlorothalonil, Dichloran, and Iprodione (Dias, J. 2010)."

APPENDIX C – DPR RESPONSES TO PESTICIDE DETECTIONS

The following tables describe DPR's responses to the pesticides detected through the department's ground water monitoring programs. Since 1985, DPR detected 22 pesticides and 16 pesticide degradation products in ground water. Seven registered pesticides and 11 related degradation products were not formally reviewed following their detection in ground water for the reasons described below (Table B-1). Eight pesticides, and one related degradation product, are no longer registered for use in California and are no longer subject to regulatory action by DPR (Table B-2). The remaining seven registered pesticides and four related degradation products are regulated by DPR as ground water contaminants (Table B-3).

Table B-1: Registered pesticides and degradation products detected in ground water by DPR.

Pesticide	Regulatory Status	Monitoring				Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Last Year Detected	Min	Max
Alachlor	DPR did not enter alachlor into the PDRP because DPR was unable to confirm[25] one reported detection in follow up sampling of the original well. DPR determined that the second reported detection was due to poor well construction, a point source, not legal agricultural use[26]. CA MCL: 2 ppb; CA PHG: 4 ppb	253	2	2009	1987	0.1	1.5
Alachlor ESA	Alachlor ESA and OXA are degradation products of alachlor. DPR did not enter these degradation products into the PDRP because DPR determined that the detected concentrations did not pose a threat to public health. DPR is considering other regulatory options to address these detections. CA MCL / CA PHG: None	167	34	2009	2009	0.05	1.38
Alachlor OXA		167	2	2009	2009	0.05	0.058

[25] Detection confirmation – DPR resamples wells with detections reported by other agencies to confirm those detections. If DPR fails to detect the reported pesticide(s) in follow up samples, the detection is considered "unconfirmed" and DPR takes no further action. If the reporting agency resampled but failed to detect the reported pesticide(s) in affected well, DPR does not conduct follow up sampling.

[26] Legal agricultural use determination – Detecting an agricultural pesticide in a second well within approximately a mile of the original detection is an indication that its legal use (a nonpoint source) may have caused it to migrate to ground water. In making a legal agricultural use determination, DPR also considers pesticide application history and legal uses for the registered products as well as carefully inspecting potential point sources of the contamination.

Pesticide	Regulatory Status	Monitoring				Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Last Year Detected	Min	Max
Aldicarb sulfone	Aldicarb sulfone and aldicarb sulfoxide are degradation products of aldicarb. In 1986, DPR detected these degradation products in ground water in Del Norte and Humboldt counties and took immediate regulatory action to suspend the use of aldicarb, the parent pesticide, in these counties. To prevent further contamination, DPR adopted 3 CCR section 6458, which imposed statewide limits on the amount applied per acre, crops treated, and application timing. Registered pesticide labels were subsequently amended to prohibit use of aldicarb in Del Norte and Humboldt counties and to limit the crops treated, amount applied, and application timing. In 1989, aldicarb was formally reviewed pursuant to the PCPA. The reviewers found that aldicarb and its degradation products polluted ground waters of the State and that no use modification was possible that could prevent further pollution. The Director disagreed with the findings and determined that no pollution occurred since the use of aldicarb had already been prohibited in the two counties where the degradation products had been detected and that extensive monitoring in areas of heavy use resulted in no further detections. Through 2006, DPR regularly monitored for aldicarb in high use areas but did not detect the parent or degradates in any samples. The U.S. EPA and the registrant agreed to end aldicarb use on citrus and potatoes to mitigate dietary risks and adopt mitigation measures for other uses to protect groundwater. The registrant will voluntarily phase out production of aldicarb by December 31, 2014 and cancel all remaining uses no later than August 2018. CA MCL / CA PHG: None (parent or degradation products).	250	5	2006	1988	0.2	4.9
Aldicarb sulfoxide		247	3	2006	1988	0.2	13.2
Azoxystrobin acid	Azoxystrobin acid is a degradation product of azoxystrobin. DPR did not enter this degradation product into the PDRP because DPR determined that the detected concentrations did not pose a threat to public health. All three wells with detections were located in Glenn County. CA MCL / CA PHG: None	124	3	2010	2010	0.101	0.268

Pesticide	Regulatory Status	Monitoring				Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Last Year Detected	Min	Max
DCPA	DPR did not enter DCPA into the PDRP because DPR determined that the detection was not due to legal agricultural use. DPR confirmed the detection in the original well but was unable to detect this pesticide in nearby wells. Follow up monitoring conducted as late as 1997, mainly in the Central Valley, was also negative. CA MCL / CA PHG: None.	279	1	1997	1990	0.6	0.6
DCPA, MTP (monomethyl 2,3,5,6-tetrachlorotere-phthalate) and TPA (total combined parent and acid degradates)	DPR did not enter DCPA degradation products into the PDRP because DPR determined that the detected concentrations did not to pose a threat to public health. The analytical method used for these samples detected the combined amount of DCPA and its degradation products; it did not distinguish each component by type or amount. When these samples were taken, this analysis was run concurrently with the second specific DCPA analytical method noted above and the two results were compared. If DPR did not detect the parent compound using the specific method noted above then, detected residues were assumed to be one or both of the degradation products, MTP and TPA. DPR did not detect DCPA in any of these samples; all detected residues were assumed to be degradation products DPR discontinued use of this method in 1990. CA MCL / CA PHG: None.	74	60	1990	1990	0.1	10
MTP	MTP and TPA are acid degradation products of DCPA. DPR did not enter these degradation products into the PDRP because DPR determined that the detected concentrations did not pose a threat to public health. CA MCL / CA PHG: None.	274	1	1997	1990	2.41	2.55
TPA		274	35	1997	1997	0.1	15
Diazinon	DPR did not enter diazinon into the PDRP because DPR determined that this detection was not due to legal agricultural use. DPR confirmed the detection in the original well but did not detect this pesticide in nearby wells or in later monitoring of the original well. Detected concentrations in the original well declined rapidly from 2.6 ppb to below the detectable levels within two months. CA MCL / CA PHG: None.	68	1	1995	1987	0.1	2.6

Pesticide	Regulatory Status	Monitoring				Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Last Year Detected	Min	Max
Hexazinone	DPR entered hexazinone into the PDRP in 2011, following DPR's determination that the detections were the result of legal agricultural use. Based on the findings and recommendations of the Pesticide Registration and Evaluation Committee subcommittee, the Director of DPR allowed the continued use of hexazinone based on the findings that 1) the agricultural use of hexazinone had not polluted and did not threaten to pollute ground water and 2) continued monitoring was an appropriate approach to protect against pollution. DPR continues to monitor for hexazinone to determine whether it is moving to ground water as a result of agricultural use in broader areas of California and if concentrations are increasing. CA MCL / CA PHG: None.	2450	29	2011	2011	0.05	0.55
2-Hydroxycyclohexyl hexazinone	2-Hydroxycyclohexyl hexazinone is a degradation product of hexazinone. DPR did not enter this degradation product into the PDRP because DPR determined that the detected concentration did not pose a threat to public health. CA MCL / CA PHG: None.	69	1	2002	2002	0.126	0.126
Methyl Bromide	DPR did not enter methyl bromide into the PDRP because DPR was unable to confirm the detection in the original well and did not detect this pesticide in nearby wells. CA MCL / CA PHG: None.	66	1	1995	1990	1	1
Metolachlor ESA	Metolachlor ESA and OXA are degradation products of metolachlor. DPR did not enter these degradation products into the PDRP because DPR determined that the detected concentrations did not pose a threat to public health. CA MCL / CA PHG: None (parent or degradation products).	166	64	2009	2009	0.05	24
Metolachlor OXA		166	23	2009	2009	0.05	2.65

Pesticide	Regulatory Status	Monitoring				Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Last Year Detected	Min	Max
Tebuthiuron	DPR did not enter tebuthiuron into the PDRP because DPR was unable to determine, with confidence, the application type most responsible for the detections. In the areas where it was detected, tebuthiuron had been applied to rights of way and soil around utility poles which are agricultural uses. It was also heavily used under pavement (pre-construction) which is a nonagricultural use. DPR may only initiate the PDRP when detections are determined to be the result of the legal agricultural use of the pesticide. DPR is continuing to monitor for this pesticide in areas where has been used. NOTE: Four detections were lower than the reporting limit of 0.05 ppb. The reporting limit is the lowest level that can be quantified with confidence. Detections below the reporting limit – although providing useful information – are not typically considered in the PDRP. CA MCL / CA PHG: None.	369	8	2011	2008	0.019	0.154
Tebuthiuron Degradate 104	Tebuthiuron degradate 104 is a degradation product of tebuthiuron. DPR did not enter this degradation product into the PDRP because DPR was unable to determine the source of the detection (see tebuthiuron discussion above). CA MCL / CA PHG: None.	264	1	2011	2009	0.058	0.058
Trifluralin	DPR did not enter trifluralin into the PDRP. Although DPR confirmed the detection of trifluralin in the original well, DPR did not detect this pesticide in the original well or in nearby wells during follow up sampling conducted one month later. CA MCL / CA PHG: None.	85	1	2001/ 1986	1986	0.01	0.01

Table B-2: Previously registered pesticides and degradation products detected in ground water by DPR.

Pesticide	Regulatory Status	Monitoring				Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Last Year Detected	Min	Max
1,2-D	Registrations canceled in the late 1970s. CA MCL: 5 ppb; CA PHG: 0.5 ppb.	122	2	1987	Before 1985	18	50
Carbofuran	DPR did not enter carbofuran into the PDRP because DPR did not detect this pesticide in any wells sampled. The original detection is assumed to have come from a U.S. EPA study that was conducted in 1982. Since this occurred prior to the establishment of DPR's data system, there is very little information available for this detection. Registrations canceled in 2011. CA MCL: 18 ppb; CA PHG: 1.7 ppb.	316	1	1995	1982	0.50	0.50
Carbon disulfide	DPR did not enter carbon disulfide into the PDRP because DPR was unable to confirm the detection in the original well and did not detect this pesticide in nearby wells. CA MCL / CA PHG: None.	29	1	1995	1990	**0.80**	0.80
DBCP	Registrations canceled in early 1980s. CA MCL: 0.2 ppb; CA PHG: 0.0017 ppb.	397	101	1986	Before 1985	0.1	39.2
EDB	Registrations canceled in the 1980s. CA MCL: 0.5 ppb; CA PHG: 0.01 ppb.	419	14	1987	Before 1985	0.07	0.37

Pesticide	Regulatory Status	Monitoring				Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Last Year Detected	Min	Max
Molinate	DPR did not enter molinate into the PDRP because DPR determined that these detections were not due to legal agricultural use. Poor well construction, a point source, allowed the contamination of three wells with detections. DPR confirmed the molinate detection in follow up sampling in the fourth well but was unable to detect this pesticide in subsequent monitoring of nearby wells. One well, sampled in 1984, had much higher residues (29 ppb) than the others. DPR resampled this well over two months and detected concentrations from below 0.05 ppb to 0.56 ppb. Registrations canceled in 2009. CA MCL: 20 ppb / CA PHG: 1 ppb.	304	4	2003	1993	0.56	29
Molinate sulfoxide	Molinate sulfoxide is a degradation product of molinate. DPR did not enter this degradation product into the PDRP because DPR determined that the detection was due to poor well construction, a point source, not legal agricultural use. CA MCL / CA PHG: None.	210	1	1985	1984	0.8	0.8
Monuron	Registrations canceled in the late 1980s. CA MCL / CA PHG: None.	27	4	1990		0.04	0.5
Xylene	DPR was unable to confirm most reported xylene detections. In the few cases where the original detection was confirmed, DPR determined that the residues were more likely attributable to its use as an industrial chemical and as a component of gasoline and not the result of agricultural pesticide use. . DPR continues to report detections by other agencies in the annual Well Inventory Report but no longer conducts follow up monitoring in response to reported detections. Registrations canceled in the mid-1990s. CA MCL: 1,750 ppb / CA PHG: 1,800 ppb.	105	7	1993		0.3	140

Table B-3: Pesticides and degradation products regulated as ground water contaminants (3 CCR section 6800[a]).

Pesticide	Regulatory Status	Monitoring			Concentration (ppb)	
		Total Wells	Total Positive Wells	Last Year Sampled	Max	Min
Atrazine	DPR regulates the use of these pesticides GWPAs. Applicators in these areas must obtain a permit from the county agricultural commissioner and adopt measures designed to mitigate and prevent further pollution. These pesticides are also regulated statewide in artificial recharge basins, inside canal and ditch banks, and around unprotected wellheads. DPR prohibited the use of bentazon on rice in the early 1990s following widespread detections of this pesticide in the rice-growing regions of California. Atrazine: CA MCL: 1 ppb / CA PHG: 0.15 ppb. Bentazon: CA MCL: 18 ppb / CA PHG: 200 ppb. Simazine: CA MCL: 4 ppb / CA PHG: 4 ppb.	4048	220	2011	8.5	0.02
Bentazon		285	74	2001	13.7	0.1
Bromacil		3871	264	2011	23	0.025
Diuron		3868	510	2011	3.95	0.015
Norflurazon		1230	79	2011	2.48	0.022
Prometon		4003	40	2011	5.9	0.05
Simazine		4288	717	2011	4.5	0.02
ACET	Degradation products of atrazine and/or simazine. DPR addresses contamination by these degradation products by regulating the use of the parent pesticides in GWPAs. CA MCL / CA PHG: None.	1617	415	2011	6.0	0.023
DEA		1612	108	2011	2	0.05
DACT		1044	276	2011	7.16	0.05
DSMN	Degradation product of norflurazon. DPR addresses contamination by this degradation product by regulating the use of the parent pesticide in GWPAs. CA MCL / CA PHG: None.	663	89	2011	1.86	0.05

APPENDIX D – WELL SAMPLING RESULTS SUMMARIZED BY PESTICIDE AND REPORTING AGENCY

This table summarizes sampling data reported by CDPH in 2011, DPR in 2011, and SWRCB from 2004 to 2011.

Registration status codes are:

- Registered = Registered by DPR and the U.S.EPA
- Inactive = No longer registered by DPR or the U.S. EPA
- Inactive-CA = No longer registered by DPR but still registered by the U.S. EPA
- NR = Never registered by DPR
- deg(Registered) = Degradate of a registered pesticide;
- deg(Inactive) = Degradate of a pesticide that is no longer registered.

For the purposes of this report, a sampled well is counted only once regardless of the number of samples taken during the reporting period.

Pesticide	Registration Status	Counties Sampled	Wells Sampled	DPR Detections	CDPH Detections	SWRCB Detections	Detected Concentrations (ppb)
1,1,2,2-Tetrachloroethane	NR‡	54	2846	---	0	---	
1,2,4-Trichlorobenzene	NR‡	54	2844	---	2	---	2
1,2-D	NR‡	58	4707	---	9	50	0.02 - 1.19
1,3-D (1,3-dichloropropene (Telone)	Registered	56	3902	---	0	0	
2,3-Dichloropropene	NR‡	1	1	---	0	---	
2,4,5-T(2,4,5-trichloro phenoxy acetic acid)	Inactive	23	287	---	0	---	
2,4,6-Trichlorophenol	Inactive	3	4	---	0	---	
2,4-D	Registered	41	990	---	0	0	
2,4-D methyl ester	deg(Registered)	16	298	---	---	0	
2,4-DB acid	Registered	36	753	---	---	0	
2,4-Dinitrophenol	Inactive-CA	2	2	---	0	---	
2,6-Diethylaniline	deg(Registered)	55	1837	---	---	2	0.004
3,4-Dichloroanaline	deg(Registered)	55	1830	---	---	94	0.001 - 0.541
3,5-Dichloroaniline	deg(Registered)	20	388	---	---	3	0.002 - 0.006
4(2,4-DB), dimethylamine salt	Registered	12	142	---	0	---	
4-CLOC (4-Chloro-ortho-cresol)	deg(Registered)	55	1838	---	---	0	
ACET	deg(Registered)	36	839	58	---	65	0.01 - 1.49
Acetochlor	NR¥	55	1889	---	0	4	0.002 - 0.059
Acifluorfen, sodium salt	Inactive-CA	38	803	---	0	0	
Acrolein	Registered	1	4	---	0	---	
Acrylonitrile	NR‡	5	23	---	0	---	

‡ The pesticide is no longer registered by the U.S. EPA.

¥ The pesticide is registered for use by the U.S. EPA in states other than California.

Pesticide	Registration Status	Counties Sampled	Wells Sampled	DPR Detections	CDPH Detections	SWRCB Detections	Detected Concentrations (ppb)
Alachlor	Registered	55	2960	---	0	1	0.004
Alachlor 2nd amide	deg(Registered)	55	1838	---	---	0	
Aldicarb	Registered	43	1139	---	0	0	
Aldicarb sulfone	deg(Registered)	43	1139	---	0	0	
Aldicarb sulfoxide	deg(Registered)	43	1139	---	0	0	
Aldrin	Inactive	30	330	---	0	---	
Ametryne	Inactive-CA	4	32	---	0	---	
Atrazine	Registered	55	3206	3	0	314	0.002 - 0.247
Azinphos-methyl	Inactive	55	1838	---	0	0	
Azinphos-methyl oxon	deg(Inactive)	55	1827	---	---	0	
Barban	Inactive	5	8	---	0	---	
Bendiocarb	Inactive	36	735	---	---	0	
Benefin	Registered	55	1836	---	---	0	
Benomyl	Inactive	36	752	---	---	1	0.003
Bensulfuron methyl	Registered	36	753	---	---	1	0.01
Bentazon	Registered	42	1417	---	0	45	0.01 - 1.82
BHC (other than gamma isomer)	Inactive	10	85	---	0	---	
Bromacil	Registered	43	1504	21	0	40	0.01 - 6.69
Bromoxynil phenol	NR[¥]	36	732	---	---	0	
Butachlor	NR[‡]	32	656	---	0	---	
Butylate	Inactive-CA	4	32	---	0	---	
Captan	Registered	4	39	---	0	---	
Carbaryl	Registered	55	2251	---	0	1	0.007
Carbofuran	Inactive	45	1566	---	0	0	
Carbon disulfide	Inactive	55	2209	---	1	70	0.01 - 2.7
Carbophenothion	Inactive	4	39	---	0	---	
Chloramben methyl ester	deg(Inactive)	36	747	---	---	0	
Chlordane	Inactive	32	511	---	0	---	
Chlorimuron ethyl	NR[¥]	36	739	---	---	1	0.004
Chlorobenzilate	Inactive	3	10	---	0	---	
Chloroneb	Inactive-CA	6	42	---	0	---	
Chlorothalonil	Registered	25	213	0	1	---	0.02
Chlorpropham	Registered	10	79	---	0	---	
Chlorpyrifos	Registered	55	1880	---	0	2	0.006 - 0.008
Chlorpyrifos oxon	deg(Registered)	55	1825	---	---	0	
cis-Propiconazole	Registered	40	971	---	---	1	0.001
Clopyralid	Registered	36	748	---	---	0	
Coumaphos	Registered	1	1	---	0	---	
Cyanazine	Inactive	21	426	---	0	0	
Cycloate	Registered	36	783	---	0	0	
Cyfluthrin	Registered	55	1838	---	---	0	
Cypermethrin	Registered	55	1838	---	---	0	
DACT	deg(Registered)	13	165	64	---	2	0.05 - 5.22
Dalapon	Inactive	33	665	---	0	---	
DBCP	Inactive	55	3455	---	244	44	0.01 - 2.03

Pesticide	Registration Status	Counties Sampled	Wells Sampled	DPR Detections	CDPH Detections	SWRCB Detections	Detected Concentrations (ppb)
DCPA	Registered	55	1858	---	0	5	0.002 - 0.004
DCPA acid degradates[27]	deg(Registered)	38	925	---	0	0	
DDD (dichloro diphenyl dichloro ethane)	deg(Inactive)	9	72	---	0	---	
DDE	deg(Inactive)	11	93	---	0	---	
DDT (dichloro diphenyl trichloro ethane)	Inactive	9	72	---	0	---	
DDVP	Registered	55	1839	---	0	1	0.01
DEA	deg(Registered)	55	1935	4	---	392	0.001 - 0.212
Desulfinyl fipronil	deg(Registered)	55	1837	---	---	12	0.003 - 0.008
Desulfinyl fipronil amide	deg(Registered)	55	1837	---	---	1	0.006
Diazinon	Registered	55	2419	---	0	2	0.003 - 0.108
Dicamba	Registered	42	1187	---	0	0	
Dichlorprop	NR‡	36	753	---	---	0	
Dichlorprop, butoxyethanol ester	Inactive	12	86	---	0	---	
Dicrotophos	Inactive-CA	55	1828	---	---	1	0.03
Dieldrin	Inactive	55	2162	---	0	9	0.002 - 0.007
Dimethoate	Registered	55	2491	---	0	0	
Dinoseb	Inactive	42	1409	---	0	7	0.01 - 0.04
Diphenamid	Inactive	36	792	---	0	11	0.01 - 0.03
Diquat dibromide	Registered	30	621	---	1	---	0.44
Disulfoton	Inactive	21	427	---	0	0	
Disulfoton sulfone	deg(Inactive)	20	388	---	---	0	
Diuron	Registered	37	875	26	0	47	0.01 - 1.57
DSMN	deg(Registered)	6	96	40	---	---	0.051 - 0.82
EDB	Inactive	34	1575	---	9	---	0.01 - 0.17
Endosulfan	Registered	21	459	---	0	0	
Endosulfan sulfate	deg(Registered)	21	460	---	0	0	
Endothall	Inactive-CA	29	559	---	1	---	64
Endrin	Inactive	31	528	---	0	---	
Endrin aldehyde	deg(Inactive)	9	72	---	0	---	
EPTC	Registered	23	448	---	0	10	0.002 - 0.039
Ethion	Inactive	55	1837	---	---	0	
Ethion monoxon	deg(Inactive)	55	1838	---	---	0	
Ethoprop	Registered	20	387	---	---	0	
Fenamiphos	Inactive	55	1838	---	---	0	
Fenamiphos sulfone	deg(Inactive)	55	1838	---	---	0	
Fenamiphos sulfoxide	deg(Inactive)	55	1816	---	---	0	
Fensulfothion	Inactive	1	1	---	0	---	
Fenthion	Inactive	1	1	---	0	---	

[27] DCPA acid degradates, MTP and TPA have been reported to DPR in several ways. For the purposes of this report, DPR has combined all sampling data for these degradates into one category. These data are maintained in DPR's data system as they were reported to DPR.

Pesticide	Registration Status	Counties Sampled	Wells Sampled	DPR Detections	CDPH Detections	SWRCB Detections	Detected Concentrations (ppb)
Fipronil	Registered	55	1837	---	---	8	0.005 - 0.017
Fipronil sulfide	deg(Registered)	55	1837	---	---	11	0.005 - 0.009
Fipronil sulfone	deg(Registered)	55	1837	---	---	5	0.005 - 0.008
Flumetsulam	NR[¥]	36	745	---	---	0	
Fluometuron	Inactive-CA	36	761	---	0	0	
Fonofos	Inactive	55	1837	---	---	0	
Fonofos oxon	deg(Inactive)	10	180	---	---	0	
Glyphosate, isopropylamine salt	Registered	29	491	---	0	---	
Heptachlor	Inactive	31	523	---	0	---	
Heptachlor epoxide	deg(Inactive)	31	523	---	0	---	
Hexachlorobenzene	Inactive	32	541	---	0	---	
Hexazinone	Registered	55	1933	1	---	32	0.007 - 0.067
Hydroxycarbofuran	deg(Inactive)	43	1139	---	0	0	
Imazaquin	NR[¥]	36	737	---	---	0	
Imazethapyr[28]	Inactive-CA	36	751	---	---	6	0.01 - 0.43
Imidacloprid	Registered	36	753	---	---	1	0.005
Iprodione	Registered	55	1836	---	---	0	
Isofenphos	Inactive	55	1838	---	---	1	0.006
Lambda-cyhalothrin	Registered	27	621	---	---	0	
Lindane (gamma-BHC)	Inactive	31	543	---	0	---	
Linuron	Registered	36	773	---	0	0	
Malaoxon	deg(Registered)	55	1838	---	---	0	
Malathion	Registered	55	1888	---	0	0	
MCPA	Registered	36	748	---	---	1	0.02
MCPA, dimethylamine salt	Registered	3	20	---	0	---	
MCPB (methyl-4-chlorophenoxy butyric acid)	NR[¥]	36	752	---	---	0	
MCPP (2-(4-chloro-2-methylphenoxy)propionic acid)	Registered	3	20	---	0	---	
Merphos	Inactive	1	1	---	0	---	
Metalaxyl	Registered	55	1841	---	---	18	0.004 - 0.144
Methidathion	Registered	55	1838	---	---	0	
Methiocarb	Registered	42	953	---	0	0	
Methomyl	Registered	43	1128	---	0	0	
Methoxychlor	Inactive	31	541	---	0	---	
Methyl bromide	Registered	58	3786	---	2	0	0.56 - 2.1
Methyl iodide	Inactive-CA	55	1865	---	---	0	
Methyl paraoxon	deg(Inactive)	55	1838	---	---	0	
Methyl parathion	Inactive	55	1888	---	0	0	
Metolachlor	Registered	55	2522	---	0	38	0.002 - 0.16

[28] Imazethapyr is not registered for use in California however, imazethapyr ammonium salt is registered. Since they are chemically indistinguishable, DPR will investigate these detections as is done for detections of other registered pesticides.

Pesticide	Registration Status	Counties Sampled	Wells Sampled	DPR Detections	CDPH Detections	SWRCB Detections	Detected Concentrations (ppb)
Metribuzin	Registered	55	2520	---	0	2	0.01 - 0.113
Metsulfuron-methyl	Inactive-CA	36	714	---	---	0	
Mevinphos	Inactive	1	1	---	0	---	
Molinate	Inactive	45	1669	---	0	6	0.008 - 0.066
Monuron	Inactive	5	8	---	0	---	
Myclobutanil	Registered	55	1838	---	---	4	0.005 - 0.034
N(4-Chlorophenyl)N methylurea	deg(Inactive)	36	751	---	---	5	0.01 - 0.02
Naled	Registered	1	1	---	0	---	
Naphthalene	Inactive-CA	56	3800	---	2	2	0.3 - 0.5
Napropamide	Registered	4	32	---	0	---	
Neburon	Inactive	36	761	---	0	0	
Nicosulfuron	Registered	36	749	---	---	0	
Norflurazon	Registered	36	848	21	---	5	0.01 - 0.499
OIET	deg(Registered)	36	722	---	---	9	0.003 - 0.042
Ortho-dichlorobenzene	Inactive	54	2847	---	0	---	
Oryzalin	Registered	36	781	0	---	0	
Oxamyl	Registered	43	1314	---	0	9	0.01 - 0.08
Oxyfluorfen	Registered	20	388	---	---	0	
Paraquat dichloride	Registered	8	64	---	0	---	
Parathion or ethyl parathion	Inactive	1	50	---	0	---	
Pendimethalin	Registered	55	1837	---	---	1	0.039
Permethrin	Registered	55	1851	---	0	0	
Permethrin, other related compounds	Registered	3	10	---	0	---	
Phorate	Registered	55	1838	---	0	1	0.004
Phoratoxon	deg(Registered)	55	1838	---	---	0	
Phosmet	Registered	55	1525	---	---	0	
Phosmet oxon	deg(Registered)	54	1427	---	---	0	
Picloram	Inactive-CA	42	1362	---	1	0	3.6
Prometon	Registered	55	2052	0	0	69	0.004 - 0.036
Prometryn	Registered	55	2058	---	0	7	0.005 - 0.009
Propachlor	Inactive-CA	34	681	---	0	---	
Propanil	Registered	27	620	---	---	2	0.006 - 0.097
Propargite	Registered	20	387	---	---	0	
Propazine	Inactive-CA	4	32	---	0	---	
Propham	Inactive	36	761	---	0	0	
Propoxur	Registered	42	952	---	0	0	
Propyzamide	Registered	55	1836	---	---	0	
Ronnel	Inactive	1	1	---	0	---	
S,S,S-Tributyl phosphorotrithioate	Registered	47	1340	---	---	0	
Siduron	Registered	36	757	---	0	9	0.01 - 0.01
Silvex	Inactive	34	657	---	0	---	
Simazine	Registered	55	3214	40	0	387	0.003 - 0.268
Sulfometuron methyl	Registered	36	739	---	---	3	0.003 - 0.064
Tebuthiuron	Registered	55	1935	0	---	31	0.01 - 0.23

Pesticide	Registration Status	Counties Sampled	Wells Sampled	DPR Detections	CDPH Detections	SWRCB Detections	Detected Concentrations (ppb)
Tebuthiuron degradate 104	deg(Registered)	6	29	0	---	---	
Tebuthiuron degradate 106	deg(Registered)	6	29	0	---	---	
Tebuthiuron degradate 107	deg(Registered)	6	29	0	---	---	
Tebuthiuron degradate 108	deg(Registered)	6	29	0	---	---	
Tefluthrin	NR	20	388	---	---	0	
Terbacil	Inactive-CA	38	835	---	0	0	
Terbufos	NR[¥]	55	1837	---	---	0	
Terbufos oxon sulfone	deg	55	1838	---	---	0	
Terbuthylazine	Registered	55	1836	---	---	2	0.01 - 0.01
Terbutryn	Inactive	6	34	---	0	---	
Tetrachlorvinphos	Registered	1	1	---	0	---	
Thiobencarb	Registered	47	1774	---	0	0	
Toxaphene	Inactive	31	510	---	0	---	
trans-Propiconazole	Registered	27	620	---	---	1	0.01
Triadimefon	Registered	4	32	---	0	---	
Triclopyr, triethylamine salt	Registered	36	729	---	---	1	0.12
Trifluralin	Registered	55	1981	---	0	2	0.005 - 0.006
Vernolate	Inactive	4	32	---	0	---	
Xylene	Inactive	54	2847	---	2	---	0.72 - 1.3

APPENDIX E – WELL SAMPLING RESULTS SUMMARIZED BY COUNTY AND REPORTING AGENCY

Summary, by county, of the number of pesticides and pesticide degradates analyzed and the number detected, the number of individual wells sampled and the number of individual wells[29] with detections, by CDPH in 2011, DPR in 2011, and SWRCB from 2005-2011.

County	SUMMARY				CDPR				CDPH				SWRCB			
	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections
Alameda	147	9	64	12	---	---	---	---	58	0	24	0	121	9	40	12
Alpine	73	0	3	0	---	---	---	---	7	0	1	0	68	0	2	0
Amador	73	1	8	1	---	---	---	---	5	0	2	0	69	1	6	1
Butte	145	12	68	11	---	---	---	---	36	0	41	0	134	12	27	11
Calaveras	73	0	6	0	---	---	---	---	11	0	4	0	68	0	2	0
Colusa	140	5	31	14	---	---	---	---	8	0	9	0	136	5	22	14
Contra Costa	110	2	11	1	---	---	---	---	58	0	7	0	68	2	4	1
Del Norte	90	0	9	0	---	---	---	---	8	0	3	0	86	0	6	0
El Dorado	72	2	41	2	---	---	---	---	8	0	13	0	68	2	28	2
Fresno	159	28	424	194	18	10	71	47	36	0	298	0	136	23	55	35
Glenn	146	14	46	25	---	---	---	---	37	0	14	0	134	14	32	25
Humboldt	90	2	21	2	---	---	---	---	8	0	1	0	86	2	20	2
Imperial	72	4	14	5	---	---	---	---	8	0	1	0	68	4	13	5
Inyo	98	5	59	6	---	---	---	---	40	0	5	0	68	5	54	6
Kern	189	25	371	82	18	0	9	0	95	0	214	0	136	21	149	61
Kings	144	5	30	4	1	0	1	0	21	0	18	0	134	5	11	4

[29] Some of the wells counted in this table were sampled more than once during the reporting period. For the purposes of this table, a well is only counted once regardless of the number of samples taken.

County	SUMMARY				CDPR				CDPH				SWRCB			
	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections
Lake	135	1	33	1	---	---	---	---	72	0	24	0	86	1	9	1
Lassen	72	0	8	0	---	---	---	---	8	0	7	0	68	0	1	0
Los Angeles	185	29	813	94	---	---	---	---	102	0	672	0	134	26	141	87
Madera	150	14	111	22	18	2	12	2	25	0	36	0	136	13	63	15
Marin	137	0	10	0	---	---	---	---	41	0	8	0	118	0	2	0
Mariposa	108	1	25	1	---	---	---	---	58	0	20	0	68	0	5	0
Mendocino	134	3	35	4	---	---	---	---	71	0	14	0	86	3	21	4
Merced	165	15	117	39	18	0	11	0	53	0	63	0	136	12	45	27
Modoc	8	0	1	0	---	---	---	---	8	0	1	0	---	---	---	---
Mono	107	0	10	0	---	---	---	---	55	0	4	0	68	0	6	0
Monterey	150	9	150	20	---	---	---	---	70	0	84	0	117	8	66	19
Napa	150	2	29	8	---	---	---	---	43	0	6	0	135	2	23	8
Nevada	72	3	24	2	---	---	---	---	6	0	5	0	68	3	19	2
Orange	165	10	208	14	---	---	---	---	70	0	181	0	135	10	28	14
Placer	142	8	34	2	---	---	---	---	34	0	12	0	123	8	22	2
Plumas	72	0	20	0	---	---	---	---	8	0	12	0	68	0	8	0
Riverside	158	28	303	72	---	---	---	---	47	2	188	10	138	28	117	62
Sacramento	150	19	220	28	---	---	---	---	58	1	171	2	123	18	49	26
San Benito	105	2	33	3	---	---	---	---	52	0	23	0	68	2	10	3
San Bernardino	180	24	509	78	---	---	---	---	89	2	363	28	137	23	146	50
San Diego	176	17	87	19	---	---	---	---	81	1	45	1	135	16	46	18
San Francisco	121	0	6	0	---	---	---	---	---	---	---	---	121	0	6	0
San Joaquin	151	15	139	36	17	0	5	0	52	2	88	18	118	14	46	18
San Luis Obispo	129	9	91	12	---	---	---	---	18	0	62	0	120	9	29	12
San Mateo	149	2	26	4	---	---	---	---	64	1	17	3	121	1	9	1
Santa Barbara	144	14	103	14	---	---	---	---	55	1	44	1	120	13	59	13

County	SUMMARY				CDPR				CDPH				SWRCB			
	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections	Pesticides Analyzed	Pesticides Detected	Wells Sampled	Wells with Detections
Santa Clara	152	4	163	7	---	---	---	---	68	0	113	0	121	4	50	7
Santa Cruz	145	2	75	3	---	---	---	---	59	0	53	0	117	2	22	3
Shasta	129	3	39	4	---	---	---	---	6	0	18	0	125	3	21	4
Sierra	67	0	2	0	---	---	---	---	---	---	---	---	67	0	2	0
Siskiyou	6	0	4	0	---	---	---	---	6	0	4	0	---	---	---	---
Solano	147	7	36	7	---	---	---	---	58	0	21	0	122	7	15	7
Sonoma	167	8	164	14	---	---	---	---	87	0	99	0	118	8	65	14
Stanislaus	144	13	153	40	1	0	9	0	54	1	106	13	118	13	38	27
Sutter	136	7	18	6	---	---	---	---	7	0	3	0	134	7	15	6
Tehama	129	5	54	16	---	---	---	---	6	0	2	0	125	5	52	16
Trinity	6	0	1	0	---	---	---	---	6	0	1	0	---	---	---	---
Tulare	177	23	257	85	18	9	33	21	76	2	173	29	134	20	51	35
Tuolumne	78	8	26	3	---	---	---	---	23	0	17	0	68	8	9	3
Ventura	151	7	90	13	---	---	---	---	62	0	43	0	121	7	47	13
Yolo	147	13	57	10	---	---	---	---	54	1	33	2	123	12	24	8
Yuba	127	13	19	6	---	---	---	---	8	0	11	0	123	13	8	6

APPENDIX F – WELL SAMPLING RESULTS SUMMARIZED BY COUNTY AND PESTICIDE

Appendix E summarizes the reported results of wells sampled for pesticides and/or pesticide degradates for each county where sampling occurred from CDPH and DPR in 2011 and SWRCB of wells sampled from 2004 to 2011. Each county table lists the pesticides and/or pesticide degradates that were sampled, the number of individual wells sampled for each pesticide and/or pesticide degradate, and the number of wells where detections occurred.

In this report year, 1046 wells had positive detections, ranging from 1 to 15 pesticides detected per well. Approximately 50% of these wells had more than one pesticide detected. Less than 44% of the wells with detections had concentrations over 0.04 ppb. The well with 15 positive detections only had 2 chemicals greater than 0.04 ppb. A well with more than one pesticide or pesticide degradate detected will appear more than once in a county table. As a result, the total number of wells with detections in a county in Appendix G *will appear to* exceed the number in each county in Appendix F.

The links in the table below allow you to navigate to a specific county to view that county's data. Clicking on the county name at the top of each county table will take you back to this page.

Alameda	D	Marin		San Mateo	D
Alpine		Mariposa	D	Santa Barbara	D
Amador	D	Mendocino	D	Santa Clara	D
Butte	D	Merced	D	Santa Cruz	D
Calaveras		Modoc		Shasta	D
Colusa	D	Mono		Sierra	
Contra Costa	D	Monterey	D	Siskiyou	
Del Norte		Napa	D	Solano	D
El Dorado	D	Nevada	D	Sonoma	D
Fresno	D	Orange	D	Stanislaus	D
Glenn	D	Placer	D	Sutter	D
Humboldt	D	Plumas		Tehama	D
Imperial	D	Riverside	D	Trinity	
Inyo	D	Sacramento	D	Tulare	D
Kern	D	San Benito	D	Tuolumne	D
Kings	D	San Bernardino	D	Ventura	D
Lake	D	San Diego	D	Yolo	D
Lassen		San Francisco		Yuba	D
Los Angeles	D	San Joaquin	D		
Madera	D	San Luis Obispo	D		

D = Counties that had pesticide detections.
NS = Counties that were not sampled.

Alameda	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	24		
	1,2,4-Trichlorobenzene	23		
	1,2-D	64		
	1,3-D	57		
	2,4,5-TP	19		
	2,4-D	49		
	2,4-D methyl ester	30		
	2,4-DB acid	30		
	2,6-Diethylaniline	40		
	3,4-Dichloroanaline	40		
	3-Hydroxycarbofuran	35		
	4-Chloro-ortho-cresol	40		
	ACET	30		
	Acetochlor	43		
	Acifluorfen, sodium salt	30		
	Alachlor	59		
	Alachlor 2nd amide	40		
	Aldicarb	23		
	Aldicarb sulfone	35		
	Aldicarb sulfoxide	35		
	Aldrin	5		
	Atrazine	57	2	0.005 - 0.008
	Azinphos-methyl	40		
	Azinphos-methyl oxon	40		
	Bendiocarb	30		
	Benefin	40		
	Benomyl	30		
	Bensulfuron methyl	30		
	Bentazon	49	2	0.01 - 0.11
	Bromacil	35		
	Bromoxynil phenol	30		
	Butachlor	5		
	Carbaryl	45		
	Carbofuran	49		
	Carbon disulfide	43	4	0.02 - 0.55
	Chloramben methyl ester	30		
	Chlordane	19		
	Chlorimuron ethyl	30		
	Chlorpyrifos	40		
	Chlorpyrifos oxon	40		
	cis-Propiconazole	30		
	Clopyralid	30		
	Cycloate	30		
	Cyfluthrin	40		
	Cypermethrin	40		
	DACT	1		
	Dalapon	19		

Alameda	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	DBCP	60		
	DCPA	40		
	DCPA acid degradates	35		
	DDE	3		
	DDVP	40		
	DEA	40	3	0.004 - 0.006
	Desulfinyl fipronil	40		
	Desulfinyl fipronil amide	40		
	Diazinon	45		
	Dicamba	35		
	Dichlorprop	30		
	Dicrotophos	40		
	Dieldrin	45		
	Dimethoate	45		
	Dinoseb	49		
	Diphenamid	28		
	Diquat dibromide	19		
	Diuron	30		
	EDB	20		
	Endothall	19		
	Endrin	19		
	EPTC	3		
	Ethion	40		
	Ethion monoxon	40		
	Fenamiphos	40		
	Fenamiphos sulfone	40		
	Fenamiphos sulfoxide	40		
	Fipronil	40		
	Fipronil sulfide	40		
	Fipronil sulfone	40		
	Flumetsulam	30		
	Fluometuron	30		
	Fonofos	40		
	Glyphosate, isopropylamine salt	19		
	Heptachlor	19		
	Heptachlor epoxide	19		
	Hexachlorobenzene	19		
	Hexazinone	40		
	Imazaquin	30		
	Imazethapyr	30		
	Imidacloprid	30		
	Iprodione	40		
	Isofenphos	40		
	Lindane (gamma-BHC)	19		
	Linuron	30		
	Malaoxon	40		
	Malathion	40		

Alameda	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	MCPA	30		
	MCPB	30		
	Metalaxyl	40		
	Methidathion	40		
	Methiocarb	35		
	Methomyl	23		
	Methoxychlor	19		
	Methyl bromide	45		
	Methyl iodide	40		
	Methyl paraoxon	40		
	Methyl parathion	40		
	Metolachlor	45	1	0.007
	Metribuzin	45		
	Metsulfuron-methyl	30		
	Molinate	19		
	Myclobutanil	40		
	N(4-Chlorophenyl)N methylurea	30		
	Naphthalene	50		
	Neburon	30		
	Nicosulfuron	30		
	Norflurazon	30		
	OIET	30		
	Ortho-dichlorobenzene	24		
	Oryzalin	30		
	Oxamyl	37		
	Pendimethalin	40		
	Permethrin	40		
	Phorate	40		
	Phoratoxon	40		
	Phosmet	35		
	Phosmet oxon	29		
	Picloram	49		
	Prometon	40	4	0.006 - 0.021
	Prometryn	40		
	Propachlor	5		
	Propham	30		
	Propoxur	35		
	Propyzamide	40		
	S,S,S-Tributyl phosphorotrithioate	40		
	Siduron	30		
	Simazine	59	5	0.005 - 0.011
	Sulfometuron methyl	30	1	0.003
	Tebuthiuron	40	1	0.03
	Terbacil	33		
	Terbufos	40		
	Terbufos oxon sulfone	40		
	Terbuthylazine	40		

Alameda	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Thiobencarb	19		
	Toxaphene	19		
	Triclopyr, triethylamine salt	30		
	Trifluralin	40		
	Xylene	24		

Alpine	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	1		
	1,2,4-Trichlorobenzene	1		
	1,2-D	3		
	1,3-D	2		
	2,6-Diethylaniline	2		
	3,4-Dichloroanaline	2		
	4-Chloro-ortho-cresol	2		
	Acetochlor	2		
	Alachlor	2		
	Alachlor 2nd amide	2		
	Atrazine	2		
	Azinphos-methyl	2		
	Azinphos-methyl oxon	2		
	Benefin	2		
	Carbaryl	2		
	Carbon disulfide	2		
	Chlorpyrifos	2		
	Chlorpyrifos oxon	2		
	Cyfluthrin	2		
	Cypermethrin	2		
	DBCP	2		
	DCPA	2		
	DDVP	2		
	DEA	2		
	Desulfinyl fipronil	2		
	Desulfinyl fipronil amide	2		
	Diazinon	2		
	Dicrotophos	2		
	Dieldrin	2		
	Dimethoate	2		
	Ethion	2		
	Ethion monoxon	2		
	Fenamiphos	2		
	Fenamiphos sulfone	2		
	Fenamiphos sulfoxide	2		
	Fipronil	2		
	Fipronil sulfide	2		
	Fipronil sulfone	2		

Alpine	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fonofos	2		
	Hexazinone	2		
	Iprodione	2		
	Isofenphos	2		
	Malaoxon	2		
	Malathion	2		
	Metalaxyl	2		
	Methidathion	2		
	Methyl bromide	3		
	Methyl iodide	2		
	Methyl paraoxon	2		
	Methyl parathion	2		
	Metolachlor	2		
	Metribuzin	2		
	Myclobutanil	2		
	Naphthalene	2		
	Ortho-dichlorobenzene	1		
	Pendimethalin	2		
	Permethrin	2		
	Phorate	2		
	Phoratoxon	2		
	Phosmet	2		
	Phosmet oxon	2		
	Prometon	2		
	Prometryn	2		
	Propyzamide	2		
	S,S,S-Tributyl phosphorotrithioate	2		
	Simazine	2		
	Tebuthiuron	2		
	Terbufos	2		
	Terbufos oxon sulfone	2		
	Terbuthylazine	2		
	Thiobencarb	1		
	Trifluralin	2		
	Xylene	1		

Amador	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	2		
	1,2,4-Trichlorobenzene	2		
	1,2-D	8		
	1,3-D	6		
	2,6-Diethylaniline	5		
	3,4-Dichloroanaline	5		
	4-Chloro-ortho-cresol	5		
	Acetochlor	5		

Amador	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Alachlor	5		
	Alachlor 2nd amide	5		
	Atrazine	5		
	Azinphos-methyl	5		
	Azinphos-methyl oxon	5		
	Benefin	5		
	Carbaryl	5		
	Carbon disulfide	6		
	Chlorpyrifos	5		
	Chlorpyrifos oxon	5		
	Cyfluthrin	5		
	Cypermethrin	5		
	DBCP	6		
	DCPA	5		
	DDVP	5		
	DEA	5		
	Desulfinyl fipronil	5		
	Desulfinyl fipronil amide	5		
	Diazinon	5		
	Dicrotophos	5		
	Dieldrin	5		
	Dimethoate	5		
	Ethion	5		
	Ethion monoxon	5		
	Fenamiphos	5		
	Fenamiphos sulfone	5		
	Fenamiphos sulfoxide	5		
	Fipronil	5		
	Fipronil sulfide	5		
	Fipronil sulfone	5		
	Fonofos	5		
	Fonofos oxon	2		
	Hexazinone	5		
	Iprodione	5		
	Isofenphos	5		
	Malaoxon	5		
	Malathion	5		
	Metalaxyl	5		
	Methidathion	5		
	Methyl bromide	6		
	Methyl iodide	6		
	Methyl paraoxon	5		
	Methyl parathion	5		
	Metolachlor	5		
	Metribuzin	5		
	Myclobutanil	5		
	Naphthalene	6		

Amador	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Ortho-dichlorobenzene	2		
	Pendimethalin	5		
	Permethrin	5		
	Phorate	5		
	Phoratoxon	5		
	Phosmet	5		
	Phosmet oxon	5		
	Prometon	5		
	Prometryn	5		
	Propyzamide	5		
	S,S,S-Tributyl phosphorotrithioate	3		
	Simazine	5	1	0.005
	Tebuthiuron	5		
	Terbufos	5		
	Terbufos oxon sulfone	5		
	Terbuthylazine	5		
	Trifluralin	5		
	Xylene	2		

Butte	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	28		
	1,2,4-Trichlorobenzene	28		
	1,2-D	55		
	1,3-D	27		
	2,4,5-T	20		
	2,4,5-TP	20		
	2,4-D	23		
	2,4-DB acid	24		
	2,6-Diethylaniline	27		
	3,4-Dichloroanaline	27	2	0.004 - 0.541
	3,5-Dichloroaniline	4		
	3-Hydroxycarbofuran	42		
	4-Chloro-ortho-cresol	27		
	ACET	24		
	Acetochlor	27		
	Acifluorfen, sodium salt	24		
	Alachlor	44		
	Alachlor 2nd amide	27		
	Aldicarb	42		
	Aldicarb sulfone	42		
	Aldicarb sulfoxide	42		
	Atrazine	47	4	0.004 - 0.007
	Azinphos-methyl	27		
	Azinphos-methyl oxon	22		
	Bendiocarb	24		

Butte	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Benefin	27		
	Benomyl	24		
	Bensulfuron methyl	24	1	0.01
	Bentazon	44	9	0.02 - 0.15
	Bromacil	40		
	Bromoxynil phenol	24		
	Butachlor	17		
	Carbaryl	45	1	0.007
	Carbofuran	45		
	Carbon disulfide	27		
	Chloramben methyl ester	24		
	Chlorimuron ethyl	24		
	Chlorpyrifos	27		
	Chlorpyrifos oxon	25		
	cis-Propiconazole	24		
	Clopyralid	24		
	Cyanazine	4		
	Cycloate	24		
	Cyfluthrin	27		
	Cypermethrin	27		
	Dalapon	20		
	DBCP	27		
	DCPA	27		
	DCPA acid degradates	24		
	DDVP	27		
	DEA	27	3	0.007 - 0.01
	Desulfinyl fipronil	27		
	Desulfinyl fipronil amide	27		
	Diazinon	40		
	Dicamba	44		
	Dichlorprop	24		
	Dicrotophos	22		
	Dieldrin	27		
	Dimethoate	44		
	Dinoseb	43	1	0.01
	Diphenamid	24		
	Disulfoton	4		
	Disulfoton sulfone	4		
	Diuron	24		
	Endosulfan	4		
	Endosulfan sulfate	4		
	EPTC	4		
	Ethion	27		
	Ethion monoxon	27		
	Ethoprop	4		
	Fenamiphos	27		
	Fenamiphos sulfone	27		

Butte	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fenamiphos sulfoxide	24		
	Fipronil	27		
	Fipronil sulfide	27		
	Fipronil sulfone	27		
	Flumetsulam	24		
	Fluometuron	24		
	Fonofos	27		
	Glyphosate, isopropylamine salt	21		
	Hexazinone	27		
	Imazaquin	24		
	Imazethapyr	24		
	Imidacloprid	24		
	Iprodione	25		
	Isofenphos	27		
	Lambda-cyhalothrin	24		
	Linuron	24		
	Malaoxon	27		
	Malathion	27		
	MCPA	24	1	0.02
	MCPB	24		
	Metalaxyl	27		
	Methidathion	27		
	Methiocarb	24		
	Methomyl	42		
	Methyl bromide	31		
	Methyl iodide	27		
	Methyl paraoxon	27		
	Methyl parathion	27		
	Metolachlor	44		
	Metribuzin	44		
	Metsulfuron-methyl	24		
	Molinate	44	1	0.02
	Myclobutanil	27		
	N(4-Chlorophenyl)N methylurea	24		
	Naphthalene	51		
	Neburon	24		
	Nicosulfuron	24		
	Norflurazon	24		
	OIET	24		
	Ortho-dichlorobenzene	28		
	Oryzalin	24		
	Oxamyl	42		
	Oxyfluorfen	4		
	Pendimethalin	27		
	Permethrin	27		
	Phorate	27		
	Phoratoxon	27		

Butte	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Phosmet	17		
	Phosmet oxon	17		
	Picloram	44		
	Prometon	27		
	Prometryn	27		
	Propachlor	17		
	Propanil	24	1	0.097
	Propargite	4		
	Propham	24		
	Propoxur	24		
	Propyzamide	27		
	S,S,S-Tributyl phosphorotrithioate	27		
	Siduron	24		
	Simazine	47	4	0.003 - 0.005
	Sulfometuron methyl	24		
	Tebuthiuron	27		
	Tefluthrin	4		
	Terbacil	24		
	Terbufos	27		
	Terbufos oxon sulfone	27		
	Terbuthylazine	27		
	Thiobencarb	44		
	trans-Propiconazole	24		
	Triclopyr, triethylamine salt	22	1	0.12
	Trifluralin	27		
	Xylene	28		

Calaveras	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	4		
	1,2,4-Trichlorobenzene	4		
	1,2-D	6		
	1,3-D	6		
	2,6-Diethylaniline	2		
	3,4-Dichloroanaline	2		
	4-Chloro-ortho-cresol	2		
	Acetochlor	2		
	Alachlor	2		
	Alachlor 2nd amide	2		
	Atrazine	5		
	Azinphos-methyl	2		
	Azinphos-methyl oxon	2		
	Benefin	2		
	Carbaryl	2		
	Carbon disulfide	2		
	Chlorpyrifos	2		

Calaveras	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Chlorpyrifos oxon	2		
	Cyfluthrin	2		
	Cypermethrin	2		
	DBCP	2		
	DCPA	2		
	DDVP	2		
	DEA	2		
	Desulfinyl fipronil	2		
	Desulfinyl fipronil amide	2		
	Diazinon	2		
	Dicrotophos	2		
	Dieldrin	2		
	Dimethoate	2		
	Ethion	2		
	Ethion monoxon	2		
	Fenamiphos	2		
	Fenamiphos sulfone	2		
	Fenamiphos sulfoxide	2		
	Fipronil	2		
	Fipronil sulfide	2		
	Fipronil sulfone	2		
	Fonofos	2		
	Hexazinone	2		
	Iprodione	2		
	Isofenphos	2		
	Malaoxon	2		
	Malathion	2		
	Metalaxyl	2		
	Methidathion	2		
	Methyl bromide	6		
	Methyl iodide	2		
	Methyl paraoxon	2		
	Methyl parathion	2		
	Metolachlor	2		
	Metribuzin	2		
	Myclobutanil	2		
	Naphthalene	6		
	Ortho-dichlorobenzene	4		
	Pendimethalin	2		
	Permethrin	2		
	Phorate	2		
	Phoratoxon	2		
	Phosmet	2		
	Phosmet oxon	2		
	Prometon	2		
	Prometryn	2		
	Propyzamide	2		

Calaveras	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	S,S,S-Tributyl phosphorotrithioate	1		
	Simazine	5		
	Tebuthiuron	2		
	Terbufos	2		
	Terbufos oxon sulfone	2		
	Terbuthylazine	2		
	Thiobencarb	2		
	Trifluralin	2		
	Xylene	4		

Colusa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	9		
	1,2,4-Trichlorobenzene	9		
	1,2-D	31		
	1,3-D	31		
	2,4-D	1		
	2,4-D methyl ester	1		
	2,4-DB acid	21		
	2,6-Diethylaniline	22		
	3,4-Dichloroanaline	22	1	0.005
	3,5-Dichloroaniline	5		
	3-Hydroxycarbofuran	21		
	4-Chloro-ortho-cresol	22		
	ACET	21		
	Acetochlor	22		
	Acifluorfen, sodium salt	21		
	Alachlor	22		
	Alachlor 2nd amide	22		
	Aldicarb	21		
	Aldicarb sulfone	21		
	Aldicarb sulfoxide	21		
	Atrazine	22		
	Azinphos-methyl	22		
	Azinphos-methyl oxon	22		
	Bendiocarb	21		
	Benefin	22		
	Benomyl	21		
	Bensulfuron methyl	21		
	Bentazon	21	11	0.01 - 1.7
	Bromacil	21		
	Bromoxynil phenol	21		
	Carbaryl	22		
	Carbofuran	22		
	Carbon disulfide	22	1	0.05
	Chloramben methyl ester	21		

Colusa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Chlorimuron ethyl	21		
	Chlorpyrifos	22		
	Chlorpyrifos oxon	22		
	cis-Propiconazole	22		
	Clopyralid	21		
	Cyanazine	5		
	Cycloate	21		
	Cyfluthrin	22		
	Cypermethrin	22		
	DBCP	22		
	DCPA	22		
	DCPA acid degradates	21		
	DDVP	22		
	DEA	22		
	Desulfinyl fipronil	22		
	Desulfinyl fipronil amide	22		
	Diazinon	22		
	Dicamba	21		
	Dichlorprop	21		
	Dicrotophos	22		
	Dieldrin	22		
	Dimethoate	22		
	Dinoseb	21		
	Diphenamid	21		
	Disulfoton	5		
	Disulfoton sulfone	5		
	Diuron	21		
	Endosulfan	5		
	Endosulfan sulfate	5		
	EPTC	5		
	Ethion	22		
	Ethion monoxon	22		
	Ethoprop	5		
	Fenamiphos	22		
	Fenamiphos sulfone	22		
	Fenamiphos sulfoxide	22		
	Fipronil	22		
	Fipronil sulfide	22		
	Fipronil sulfone	22		
	Flumetsulam	21		
	Fluometuron	21		
	Fonofos	22		
	Hexazinone	22	1	0.014
	Imazaquin	21		
	Imazethapyr	21		
	Imidacloprid	21		
	Iprodione	22		

Colusa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Isofenphos	22		
	Lambda-cyhalothrin	22		
	Linuron	21		
	Malaoxon	22		
	Malathion	22		
	MCPA	21		
	MCPB	21		
	Metalaxyl	22		
	Methidathion	22		
	Methiocarb	21		
	Methomyl	21		
	Methyl bromide	31		
	Methyl iodide	22		
	Methyl paraoxon	22		
	Methyl parathion	22		
	Metolachlor	22		
	Metribuzin	22		
	Metsulfuron-methyl	21		
	Molinate	22		
	Myclobutanil	22		
	N(4-Chlorophenyl)N methylurea	21		
	Naphthalene	31		
	Neburon	21		
	Nicosulfuron	21		
	Norflurazon	21		
	OIET	21		
	Ortho-dichlorobenzene	9		
	Oryzalin	21		
	Oxamyl	21		
	Oxyfluorfen	5		
	Pendimethalin	22		
	Permethrin	22		
	Phorate	22		
	Phoratoxon	22		
	Phosmet	13		
	Phosmet oxon	13		
	Picloram	21		
	Prometon	22		
	Prometryn	22		
	Propanil	22		
	Propargite	5		
	Propham	21		
	Propoxur	21		
	Propyzamide	22		
	S,S,S-Tributyl phosphorotrithioate	22		
	Siduron	21		
	Simazine	22	2	0.005 - 0.008

Colusa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Sulfometuron methyl	21		
	Tebuthiuron	22		
	Tefluthrin	5		
	Terbacil	21		
	Terbufos	22		
	Terbufos oxon sulfone	22		
	Terbuthylazine	22		
	Thiobencarb	22		
	trans-Propiconazole	22		
	Triclopyr, triethylamine salt	17		
	Trifluralin	22		
	Xylene	9		

Contra Costa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	7		
	1,2,4-Trichlorobenzene	7		
	1,2-D	11		
	1,3-D	10		
	2,4,5-T	2		
	2,4,5-TP	5		
	2,4-D	5		
	2,6-Diethylaniline	4		
	3,4-Dichloroanaline	4	1	0.045
	3-Hydroxycarbofuran	5		
	4-Chloro-ortho-cresol	4		
	Acetochlor	4		
	Alachlor	9		
	Alachlor 2nd amide	4		
	Aldicarb	5		
	Aldicarb sulfone	5		
	Aldicarb sulfoxide	5		
	Aldrin	5		
	Atrazine	9		
	Azinphos-methyl	4		
	Azinphos-methyl oxon	4		
	Benefin	4		
	Bentazon	5		
	Bromacil	5		
	Butachlor	5		
	Carbaryl	9		
	Carbofuran	5		
	Carbon disulfide	7	1	0.4
	Chlordane	5		
	Chlorothalonil	2		
	Chlorpyrifos	4		

Contra Costa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Chlorpyrifos oxon	4		
	Cyfluthrin	4		
	Cypermethrin	4		
	Dalapon	5		
	DBCP	9		
	DCPA	4		
	DCPA acid degradates	3		
	DDVP	4		
	DEA	4		
	Desulfinyl fipronil	4		
	Desulfinyl fipronil amide	4		
	Diazinon	9		
	Dicamba	5		
	Dicrotophos	4		
	Dieldrin	9		
	Dimethoate	9		
	Dinoseb	5		
	Diquat dibromide	5		
	Diuron	3		
	EDB	5		
	Endothall	5		
	Endrin	5		
	Ethion	4		
	Ethion monoxon	4		
	Fenamiphos	4		
	Fenamiphos sulfone	4		
	Fenamiphos sulfoxide	4		
	Fipronil	4		
	Fipronil sulfide	4		
	Fipronil sulfone	4		
	Fonofos	4		
	Fonofos oxon	4		
	Glyphosate, isopropylamine salt	5		
	Heptachlor	5		
	Heptachlor epoxide	5		
	Hexachlorobenzene	5		
	Hexazinone	4		
	Iprodione	4		
	Isofenphos	4		
	Lindane (gamma-BHC)	5		
	Malaoxon	4		
	Malathion	4		
	Metalaxyl	4		
	Methidathion	4		
	Methiocarb	3		
	Methomyl	5		
	Methoxychlor	5		

Contra Costa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methyl bromide	9		
	Methyl iodide	4		
	Methyl paraoxon	4		
	Methyl parathion	4		
	Metolachlor	9		
	Metribuzin	9		
	Molinate	5		
	Myclobutanil	4		
	Naphthalene	9		
	Ortho-dichlorobenzene	7		
	Oxamyl	5		
	Pendimethalin	4		
	Permethrin	4		
	Phorate	4		
	Phoratoxon	4		
	Phosmet	4		
	Phosmet oxon	4		
	Picloram	5		
	Prometon	4		
	Prometryn	4		
	Propachlor	5		
	Propoxur	3		
	Propyzamide	4		
	Simazine	9		
	Tebuthiuron	4		
	Terbufos	4		
	Terbufos oxon sulfone	4		
	Terbuthylazine	4		
	Thiobencarb	6		
	Toxaphene	5		
	Trifluralin	6		
	Xylene	7		

Del Norte	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	3		
	1,2,4-Trichlorobenzene	3		
	1,2-D	9		
	1,3-D	9		
	2,6-Diethylaniline	6		
	3,4-Dichloroanaline	6		
	3,5-Dichloroaniline	6		
	4-Chloro-ortho-cresol	6		
	Acetochlor	6		
	Alachlor	6		
	Alachlor 2nd amide	6		

Del Norte	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Atrazine	6		
	Azinphos-methyl	6		
	Azinphos-methyl oxon	6		
	Benefin	6		
	Carbaryl	6		
	Carbofuran	6		
	Carbon disulfide	6		
	Chlorpyrifos	6		
	Chlorpyrifos oxon	6		
	cis-Propiconazole	6		
	Cyanazine	6		
	Cyfluthrin	6		
	Cypermethrin	6		
	DBCP	6		
	DCPA	6		
	DDVP	6		
	DEA	6		
	Desulfinyl fipronil	6		
	Desulfinyl fipronil amide	6		
	Diazinon	6		
	Dicrotophos	6		
	Dieldrin	6		
	Dimethoate	6		
	Disulfoton	6		
	Disulfoton sulfone	6		
	Endosulfan	6		
	Endosulfan sulfate	6		
	EPTC	6		
	Ethion	6		
	Ethion monoxon	6		
	Ethoprop	6		
	Fenamiphos	6		
	Fenamiphos sulfone	6		
	Fenamiphos sulfoxide	6		
	Fipronil	6		
	Fipronil sulfide	6		
	Fipronil sulfone	6		
	Fonofos	6		
	Hexazinone	6		
	Iprodione	6		
	Isofenphos	6		
	Lambda-cyhalothrin	6		
	Malaoxon	6		
	Malathion	6		
	Metalaxyl	6		
	Methidathion	6		
	Methyl bromide	9		

Del Norte	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methyl iodide	6		
	Methyl paraoxon	6		
	Methyl parathion	6		
	Metolachlor	6		
	Metribuzin	6		
	Molinate	6		
	Myclobutanil	6		
	Naphthalene	9		
	Ortho-dichlorobenzene	3		
	Oxyfluorfen	6		
	Pendimethalin	6		
	Permethrin	6		
	Phorate	6		
	Phoratoxon	6		
	Phosmet	6		
	Phosmet oxon	6		
	Prometon	6		
	Prometryn	6		
	Propanil	6		
	Propargite	6		
	Propyzamide	6		
	S,S,S-Tributyl phosphorotrithioate	6		
	Simazine	6		
	Tebuthiuron	6		
	Tefluthrin	6		
	Terbufos	6		
	Terbufos oxon sulfone	6		
	Terbuthylazine	6		
	Thiobencarb	6		
	trans-Propiconazole	6		
	Trifluralin	6		
	Xylene	3		

El Dorado	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	13		
	1,2,4-Trichlorobenzene	13		
	1,2-D	41		
	1,3-D	41		
	2,6-Diethylaniline	28		
	3,4-Dichloroanaline	28	1	0.004
	4-Chloro-ortho-cresol	28		
	Acetochlor	28		
	Alachlor	28		
	Alachlor 2nd amide	28		
	Atrazine	28		

El Dorado	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Azinphos-methyl	28		
	Azinphos-methyl oxon	28		
	Benefin	28		
	Carbaryl	28		
	Carbon disulfide	28	1	0.35
	Chlorpyrifos	28		
	Chlorpyrifos oxon	28		
	Cyfluthrin	28		
	Cypermethrin	28		
	DBCP	28		
	DCPA	28		
	DDVP	28		
	DEA	28		
	Desulfinyl fipronil	28		
	Desulfinyl fipronil amide	28		
	Diazinon	28		
	Dicrotophos	28		
	Dieldrin	28		
	Dimethoate	28		
	Ethion	28		
	Ethion monoxon	28		
	Fenamiphos	28		
	Fenamiphos sulfone	28		
	Fenamiphos sulfoxide	28		
	Fipronil	28		
	Fipronil sulfide	28		
	Fipronil sulfone	28		
	Fonofos	28		
	Hexazinone	28		
	Iprodione	28		
	Isofenphos	28		
	Malaoxon	28		
	Malathion	28		
	Metalaxyl	28		
	Methidathion	28		
	Methyl bromide	41		
	Methyl iodide	28		
	Methyl paraoxon	28		
	Methyl parathion	28		
	Metolachlor	28		
	Metribuzin	28		
	Myclobutanil	28		
	Naphthalene	41		
	Ortho-dichlorobenzene	13		
	Pendimethalin	28		
	Permethrin	28		
	Phorate	28		

El Dorado	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Phoratoxon	28		
	Phosmet	20		
	Phosmet oxon	18		
	Prometon	28		
	Prometryn	28		
	Propyzamide	28		
	S,S,S-Tributyl phosphorotrithioate	28		
	Simazine	28		
	Tebuthiuron	28		
	Terbufos	28		
	Terbufos oxon sulfone	28		
	Terbuthylazine	28		
	Trifluralin	28		
	Xylene	13		

Fresno	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	249		
	1,2,4-Trichlorobenzene	249		
	1,2-D	304	3	0.04 - 0.25
	1,3-D	300		
	2,4-D	2		
	2,4-D methyl ester	2		
	2,4-DB acid	29		
	2,6-Diethylaniline	53		
	3,4-Dichloroanaline	53	12	0.001 - 0.288
	3,5-Dichloroaniline	50	2	0.002 - 0.004
	3-Hydroxycarbofuran	29		
	4-Chloro-ortho-cresol	53		
	ACET	87	53	0.01 - 0.934
	Acetochlor	53		
	Acifluorfen, sodium salt	29		
	Alachlor	285		
	Alachlor 2nd amide	53		
	Aldicarb	29		
	Aldicarb sulfone	29		
	Aldicarb sulfoxide	29		
	Aldrin	2		
	Atrazine	346	16	0.004 - 0.093
	Azinphos-methyl	53		
	Azinphos-methyl oxon	53		
	Bendiocarb	29		
	Benefin	53		
	Benomyl	29		
	Bensulfuron methyl	29		
	Bentazon	29	1	0.01

Fresno	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bromacil	300	15	0.01 - 6.69
	Bromoxynil phenol	29		
	Butachlor	212		
	Carbaryl	55		
	Carbofuran	52		
	Carbon disulfide	59	3	0.02 - 0.1
	Chloramben methyl ester	29		
	Chlordane	3		
	Chlorimuron ethyl	29		
	Chlorothalonil	16		
	Chlorpyrifos	53		
	Chlorpyrifos oxon	53		
	cis-Propiconazole	52		
	Clopyralid	29		
	Cyanazine	50		
	Cycloate	29		
	Cyfluthrin	53		
	Cypermethrin	53		
	DACT	59	44	0.05 - 2.6
	DBCP	338	126	0.01 - 2.03
	DCPA	53		
	DCPA acid degradates	29		
	DDVP	53		
	DEA	114	23	0.003 - 0.212
	Desulfinyl fipronil	53	2	0.005
	Desulfinyl fipronil amide	53		
	Diazinon	263		
	Dicamba	24		
	Dichlorprop	29		
	Dicrotophos	53		
	Dieldrin	55	1	0.006
	Dimethoate	265		
	Dinoseb	29		
	Diphenamid	29		
	Disulfoton	50		
	Disulfoton sulfone	50		
	Diuron	88	26	0.03 - 0.67
	DSMN	59	27	0.051 - 0.82
	EDB	277	3	0.03 - 0.16
	Endosulfan	50		
	Endosulfan sulfate	50		
	Endrin	3		
	EPTC	50	1	0.038
	Ethion	53		
	Ethion monoxon	53		
	Ethoprop	50		
	Fenamiphos	53		

Fresno	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fenamiphos sulfone	53		
	Fenamiphos sulfoxide	53		
	Fipronil	53		
	Fipronil sulfide	53	2	0.006
	Fipronil sulfone	53		
	Flumetsulam	29		
	Fluometuron	29		
	Fonofos	53		
	Heptachlor	3		
	Heptachlor epoxide	3		
	Hexachlorobenzene	3		
	Hexazinone	112	2	0.013 - 0.067
	Imazaquin	29		
	Imazethapyr	29	1	0.43
	Imidacloprid	29		
	Iprodione	53		
	Isofenphos	53		
	Lambda-cyhalothrin	50		
	Lindane (gamma-BHC)	3		
	Linuron	29		
	Malaoxon	53		
	Malathion	53		
	MCPA	29		
	MCPB	29		
	Metalaxyl	55		
	Methidathion	53		
	Methiocarb	29		
	Methomyl	29		
	Methoxychlor	3		
	Methyl bromide	291	1	2.1
	Methyl iodide	55		
	Methyl paraoxon	53		
	Methyl parathion	53		
	Metolachlor	265		
	Metribuzin	265		
	Metsulfuron-methyl	24		
	Molinate	262		
	Myclobutanil	53	1	0.034
	N(4-Chlorophenyl)N methylurea	29		
	Naphthalene	294		
	Neburon	29		
	Nicosulfuron	29		
	Norflurazon	88	13	0.07 - 0.305
	OIET	16		
	Ortho-dichlorobenzene	249		
	Oryzalin	40		
	Oxamyl	29	1	0.03

Fresno	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Oxyfluorfen	50		
	Pendimethalin	53		
	Permethrin	53		
	Phorate	53		
	Phoratoxon	53		
	Phosmet	23		
	Phosmet oxon	23		
	Picloram	29		
	Prometon	112	1	0.005
	Prometryn	57	1	0.006
	Propachlor	212		
	Propanil	50		
	Propargite	50		
	Propham	29		
	Propoxur	29		
	Propyzamide	53		
	S,S,S-Tributyl phosphorotrithioate	53		
	Siduron	29		
	Simazine	344	52	0.004 - 0.128
	Sulfometuron methyl	29		
	Tebuthiuron	114	1	0.01
	Tebuthiuron degradate 104	11		
	Tebuthiuron degradate 106	11		
	Tebuthiuron degradate 107	11		
	Tebuthiuron degradate 108	11		
	Tefluthrin	50		
	Terbacil	29		
	Terbufos	53		
	Terbufos oxon sulfone	53		
	Terbuthylazine	53		
	Thiobencarb	262		
	Toxaphene	3		
	trans-Propiconazole	50		
	Triclopyr, triethylamine salt	29		
	Trifluralin	55		
	Xylene	249		

Glenn	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	9		
	1,2,4-Trichlorobenzene	9		
	1,2-D	41		
	1,3-D	32		
	2,4,5-T	1		
	2,4,5-TP	1		
	2,4-D	1		

Glenn	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	2,4-DB acid	32		
	2,6-Diethylaniline	32		
	3,4-Dichloroanaline	32	4	0.006 - 0.091
	3,5-Dichloroaniline	10		
	3-Hydroxycarbofuran	33		
	4-Chloro-ortho-cresol	32		
	ACET	32	2	0.04 - 0.15
	Acetochlor	32		
	Acifluorfen, sodium salt	32		
	Alachlor	33		
	Alachlor 2nd amide	32		
	Aldicarb	33		
	Aldicarb sulfone	33		
	Aldicarb sulfoxide	33		
	Atrazine	33	11	0.004 - 0.04
	Azinphos-methyl	32		
	Azinphos-methyl oxon	32		
	Bendiocarb	32		
	Benefin	32		
	Benomyl	32		
	Bensulfuron methyl	32		
	Bentazon	31	12	0.01 - 1.82
	Bromacil	32		
	Bromoxynil phenol	32		
	Butachlor	1		
	Carbaryl	33		
	Carbofuran	33		
	Carbon disulfide	32	2	0.03
	Chloramben methyl ester	32		
	Chlorimuron ethyl	32	1	0.004
	Chlorpyrifos	32		
	Chlorpyrifos oxon	32		
	cis-Propiconazole	32	1	0.001
	Clopyralid	32		
	Cyanazine	10		
	Cycloate	32		
	Cyfluthrin	32		
	Cypermethrin	32		
	Dalapon	1		
	DBCP	39		
	DCPA	32		
	DCPA acid degradates	32		
	DDVP	32		
	DEA	32	12	0.005 - 0.057
	Desulfinyl fipronil	32		
	Desulfinyl fipronil amide	32		
	Diazinon	32		

Glenn	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Dicamba	33		
	Dichlorprop	32		
	Dicrotophos	32		
	Dieldrin	32		
	Dimethoate	33		
	Dinoseb	33		
	Diphenamid	32		
	Disulfoton	10		
	Disulfoton sulfone	10		
	Diuron	32	1	1.57
	EDB	7		
	Endosulfan	10		
	Endosulfan sulfate	10		
	EPTC	10		
	Ethion	32		
	Ethion monoxon	32		
	Ethoprop	10		
	Fenamiphos	32		
	Fenamiphos sulfone	32		
	Fenamiphos sulfoxide	32		
	Fipronil	32		
	Fipronil sulfide	32		
	Fipronil sulfone	32		
	Flumetsulam	32		
	Fluometuron	32		
	Fonofos	32		
	Glyphosate, isopropylamine salt	1		
	Hexazinone	32	2	0.013 - 0.016
	Imazaquin	32		
	Imazethapyr	32		
	Imidacloprid	32		
	Iprodione	32		
	Isofenphos	32		
	Lambda-cyhalothrin	32		
	Linuron	32		
	Malaoxon	32		
	Malathion	32		
	MCPA	32		
	MCPB	32		
	Metalaxyl	32		
	Methidathion	32		
	Methiocarb	32		
	Methomyl	33		
	Methyl bromide	38		
	Methyl iodide	32		
	Methyl paraoxon	32		
	Methyl parathion	32		

Glenn	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Metolachlor	33		
	Metribuzin	33		
	Metsulfuron-methyl	32		
	Molinate	33		
	Myclobutanil	32		
	N(4-Chlorophenyl)N methylurea	32		
	Naphthalene	35		
	Neburon	32		
	Nicosulfuron	32		
	Norflurazon	32		
	OIET	31	1	0.003
	Ortho-dichlorobenzene	9		
	Oryzalin	32		
	Oxamyl	33		
	Oxyfluorfen	10		
	Pendimethalin	32		
	Permethrin	32		
	Phorate	32		
	Phoratoxon	32		
	Phosmet	21		
	Phosmet oxon	21		
	Picloram	33		
	Prometon	32		
	Prometryn	32		
	Propachlor	1		
	Propanil	32		
	Propargite	10		
	Propham	32		
	Propoxur	32		
	Propyzamide	32		
	S,S,S-Tributyl phosphorotrithioate	32		
	Siduron	32		
	Simazine	33	9	0.004 - 0.082
	Sulfometuron methyl	32		
	Tebuthiuron	32	1	0.02
	Tefluthrin	10		
	Terbacil	32		
	Terbufos	32		
	Terbufos oxon sulfone	32		
	Terbuthylazine	32		
	Thiobencarb	33		
	trans-Propiconazole	32	1	0.01
	Triclopyr, triethylamine salt	26		
	Trifluralin	32		
	Xylene	9		

Humboldt	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	1		
	1,2,4-Trichlorobenzene	1		
	1,2-D	21		
	1,3-D	21		
	2,6-Diethylaniline	20		
	3,4-Dichloroanaline	20		
	3,5-Dichloroaniline	20		
	4-Chloro-ortho-cresol	20		
	Acetochlor	20		
	Alachlor	20		
	Alachlor 2nd amide	20		
	Atrazine	20		
	Azinphos-methyl	20		
	Azinphos-methyl oxon	19		
	Benefin	20		
	Carbaryl	20		
	Carbofuran	20		
	Carbon disulfide	20	1	0.12
	Chlorpyrifos	20		
	Chlorpyrifos oxon	19		
	cis-Propiconazole	20		
	Cyanazine	20		
	Cyfluthrin	20		
	Cypermethrin	20		
	DBCP	20		
	DCPA	20		
	DDVP	20		
	DEA	20		
	Desulfinyl fipronil	20		
	Desulfinyl fipronil amide	20		
	Diazinon	20		
	Dicrotophos	20		
	Dieldrin	20		
	Dimethoate	20		
	Disulfoton	20		
	Disulfoton sulfone	20		
	Endosulfan	20		
	Endosulfan sulfate	20		
	EPTC	20		
	Ethion	20		
	Ethion monoxon	20		
	Ethoprop	20		
	Fenamiphos	20		
	Fenamiphos sulfone	20		
	Fenamiphos sulfoxide	16		
	Fipronil	20		
	Fipronil sulfide	20		

Humboldt	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fipronil sulfone	20		
	Fonofos	20		
	Hexazinone	20		
	Iprodione	20		
	Isofenphos	20		
	Lambda-cyhalothrin	20		
	Malaoxon	20		
	Malathion	20		
	Metalaxyl	20		
	Methidathion	20		
	Methyl bromide	21		
	Methyl iodide	20		
	Methyl paraoxon	20		
	Methyl parathion	20		
	Metolachlor	20		
	Metribuzin	20		
	Molinate	20		
	Myclobutanil	20		
	Naphthalene	21		
	Ortho-dichlorobenzene	1		
	Oxyfluorfen	20		
	Pendimethalin	20		
	Permethrin	20		
	Phorate	20		
	Phoratoxon	20		
	Phosmet	20		
	Phosmet oxon	16		
	Prometon	20		
	Prometryn	20		
	Propanil	20		
	Propargite	20		
	Propyzamide	20		
	S,S,S-Tributyl phosphorotrithioate	20		
	Simazine	20	1	0.03
	Tebuthiuron	20		
	Tefluthrin	20		
	Terbufos	20		
	Terbufos oxon sulfone	20		
	Terbuthylazine	20		
	Thiobencarb	20		
	trans-Propiconazole	20		
	Trifluralin	20		
	Xylene	1		

Imperial	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	1		
	1,2,4-Trichlorobenzene	1		
	1,2-D	14		
	1,3-D	14		
	2,6-Diethylaniline	13		
	3,4-Dichloroanaline	13		
	4-Chloro-ortho-cresol	13		
	Acetochlor	13		
	Alachlor	13		
	Alachlor 2nd amide	13		
	Atrazine	13	1	0.007
	Azinphos-methyl	13		
	Azinphos-methyl oxon	13		
	Benefin	13		
	Carbaryl	13		
	Carbon disulfide	13		
	Chlorpyrifos	13		
	Chlorpyrifos oxon	13		
	Cyfluthrin	13		
	Cypermethrin	13		
	DBCP	13		
	DCPA	13		
	DDVP	13		
	DEA	13	3	0.005 - 0.007
	Desulfinyl fipronil	13		
	Desulfinyl fipronil amide	13		
	Diazinon	13		
	Dicrotophos	13		
	Dieldrin	13		
	Dimethoate	13		
	Ethion	13		
	Ethion monoxon	13		
	Fenamiphos	13		
	Fenamiphos sulfone	13		
	Fenamiphos sulfoxide	13		
	Fipronil	13		
	Fipronil sulfide	13		
	Fipronil sulfone	13		
	Fonofos	13		
	Hexazinone	13		
	Iprodione	13		
	Isofenphos	13		
	Malaoxon	13		
	Malathion	13		
	Metalaxyl	13		
	Methidathion	13		
	Methyl bromide	14		

Imperial	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methyl iodide	13		
	Methyl paraoxon	13		
	Methyl parathion	13		
	Metolachlor	13		
	Metribuzin	13		
	Myclobutanil	13		
	Naphthalene	14		
	Ortho-dichlorobenzene	1		
	Pendimethalin	13		
	Permethrin	13		
	Phorate	13		
	Phoratoxon	13		
	Phosmet	13		
	Phosmet oxon	13		
	Prometon	13		
	Prometryn	13	1	0.005
	Propyzamide	13		
	S,S,S-Tributyl phosphorotrithioate	13		
	Simazine	13	1	0.007
	Tebuthiuron	13		
	Terbufos	13		
	Terbufos oxon sulfone	13		
	Terbuthylazine	13		
	Trifluralin	13		
	Xylene	1		

Inyo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	2		
	1,2,4-Trichlorobenzene	2		
	1,2-D	56		
	1,3-D	56		
	2,4,5-TP	1		
	2,6-Diethylaniline	52		
	3,4-Dichloroanaline	52		
	3-Hydroxycarbofuran	1		
	4-Chloro-ortho-cresol	52		
	Acetochlor	52		
	Alachlor	53		
	Alachlor 2nd amide	52		
	Aldicarb	1		
	Aldicarb sulfone	1		
	Aldicarb sulfoxide	1		
	Aldrin	1		
	Atrazine	53	1	0.006
	Azinphos-methyl	52		

Inyo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Azinphos-methyl oxon	52		
	Benefin	52		
	Carbaryl	53		
	Carbofuran	1		
	Carbon disulfide	54	2	0.04 - 0.09
	Chlordane	1		
	Chlorpyrifos	52		
	Chlorpyrifos oxon	52		
	Cyfluthrin	52		
	Cypermethrin	52		
	DBCP	57		
	DCPA	52		
	DDVP	52		
	DEA	52		
	Desulfinyl fipronil	52		
	Desulfinyl fipronil amide	52		
	Diazinon	52		
	Dicrotophos	52		
	Dieldrin	53		
	Dimethoate	52		
	Diquat dibromide	1		
	EDB	3		
	Endothall	1		
	Endrin	1		
	Ethion	52		
	Ethion monoxon	52		
	Fenamiphos	52		
	Fenamiphos sulfone	52		
	Fenamiphos sulfoxide	52		
	Fipronil	52		
	Fipronil sulfide	52		
	Fipronil sulfone	52		
	Fonofos	52		
	Glyphosate, isopropylamine salt	1		
	Heptachlor	1		
	Heptachlor epoxide	1		
	Hexachlorobenzene	1		
	Hexazinone	52	1	0.008
	Iprodione	52		
	Isofenphos	52		
	Lindane (gamma-BHC)	1		
	Malaoxon	52		
	Malathion	52		
	Metalaxyl	52		
	Methidathion	52		
	Methiocarb	1		
	Methomyl	1		

Inyo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methoxychlor	1		
	Methyl bromide	55		
	Methyl iodide	54		
	Methyl paraoxon	52		
	Methyl parathion	52		
	Metolachlor	52		
	Metribuzin	52		
	Molinate	1		
	Myclobutanil	52		
	Naphthalene	55		
	Ortho-dichlorobenzene	2		
	Oxamyl	1		
	Pendimethalin	52		
	Permethrin	52		
	Phorate	52		
	Phoratoxon	52		
	Phosmet	52		
	Phosmet oxon	52		
	Prometon	52		
	Prometryn	52		
	Propachlor	1		
	Propoxur	1		
	Propyzamide	52		
	S,S,S-Tributyl phosphorotrithioate	52		
	Simazine	53	2	0.004 - 0.006
	Tebuthiuron	52	1	0.01
	Terbufos	52		
	Terbufos oxon sulfone	52		
	Terbuthylazine	52		
	Thiobencarb	1		
	Toxaphene	1		
	Trifluralin	52		
	Xylene	2		

Kern	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	143		
	1,2,4-Trichlorobenzene	143	2	2
	1,2-D	292	23	0.02 - 0.67
	1,3-D	227		
	2,4,5-T	10		
	2,4,5-TP	10		
	2,4,6-trichlorophenol	1		
	2,4-D	14		
	2,4-D methyl ester	3		
	2,4-DB acid	20		

Kern	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	2,4-Dinitrophenol	1		
	2,6-Diethylaniline	148		
	3,4-Dichloroanaline	148	9	0.003 - 0.008
	3,5-Dichloroaniline	49		
	3-Hydroxycarbofuran	30		
	4(2,4-DB), dimethylamine salt	9		
	4-Chloro-ortho-cresol	148		
	ACET	19	3	0.01 - 0.04
	Acetochlor	148		
	Acifluorfen, sodium salt	20		
	Alachlor	198		
	Alachlor 2nd amide	148		
	Aldicarb	30		
	Aldicarb sulfone	30		
	Aldicarb sulfoxide	30		
	Aldrin	12		
	Atrazine	199	29	0.003 - 0.02
	Azinphos-methyl	149		
	Azinphos-methyl oxon	148		
	Barban	1		
	Bendiocarb	20		
	Benefin	148		
	Benomyl	20		
	Bensulfuron methyl	20		
	Bentazon	30		
	BHC (other than gamma isomer)	17		
	Bromacil	58	1	0.01
	Bromoxynil phenol	20		
	Butachlor	21		
	Carbaryl	159		
	Carbofuran	63		
	Carbon disulfide	165	4	0.03 - 0.08
	Chloramben methyl ester	20		
	Chlordane	9		
	Chlorimuron ethyl	20		
	Chlorothalonil	9		
	Chlorpropham	1		
	Chlorpyrifos	149	1	0.006
	Chlorpyrifos oxon	148		
	cis-Propiconazole	52		
	Clopyralid	20		
	Coumaphos	1		
	Cyanazine	49		
	Cycloate	20		
	Cyfluthrin	148		
	Cypermethrin	148		
	DACT	1		

Kern	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Dalapon	11		
	DBCP	257	20	0.01 - 0.56
	DCPA	148		
	DCPA acid degradates	20		
	DDD	6		
	DDE	6		
	DDT	6		
	DDVP	149		
	DEA	149	34	0.004 - 0.016
	Desulfinyl fipronil	148		
	Desulfinyl fipronil amide	148		
	Diazinon	164		
	Dicamba	29		
	Dichlorprop	20		
	Dichlorprop, butoxyethanol ester	9		
	Dicrotophos	148		
	Dieldrin	160	2	0.004 - 0.007
	Dimethoate	189		
	Dinoseb	31	4	0.01 - 0.03
	Diphenamid	20	2	0.01 - 0.03
	Diquat dibromide	2		
	Disulfoton	50		
	Disulfoton sulfone	49		
	Diuron	21	2	0.02 - 0.07
	DSMN	1		
	EDB	107	1	0.01
	Endosulfan	55		
	Endosulfan sulfate	55		
	Endothall	10	1	64
	Endrin	13		
	Endrin aldehyde	6		
	EPTC	49	7	0.002 - 0.032
	Ethion	148		
	Ethion monoxon	148		
	Ethoprop	49		
	Fenamiphos	148		
	Fenamiphos sulfone	148		
	Fenamiphos sulfoxide	148		
	Fensulfothion	1		
	Fenthion	1		
	Fipronil	148		
	Fipronil sulfide	148		
	Fipronil sulfone	148		
	Flumetsulam	20		
	Fluometuron	21		
	Fonofos	148		
	Glyphosate, isopropylamine salt	1		

Kern	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Heptachlor	12		
	Heptachlor epoxide	12		
	Hexachlorobenzene	22		
	Hexazinone	149	2	0.011 - 0.017
	Imazaquin	20		
	Imazethapyr	20	1	0.01
	Imidacloprid	20		
	Iprodione	148		
	Isofenphos	148		
	Lambda-cyhalothrin	49		
	Lindane (gamma-BHC)	23		
	Linuron	21		
	Malaoxon	148		
	Malathion	148		
	MCPA	18		
	MCPA, dimethylamine salt	9		
	MCPB	20		
	MCPP	9		
	Merphos	1		
	Metalaxyl	148		
	Methidathion	148		
	Methiocarb	20		
	Methomyl	31		
	Methoxychlor	23		
	Methyl bromide	234		
	Methyl iodide	149		
	Methyl paraoxon	148		
	Methyl parathion	149		
	Metolachlor	185	2	0.013 - 0.014
	Metribuzin	185	1	0.01
	Metsulfuron-methyl	20		
	Mevinphos	1		
	Molinate	94		
	Monuron	1		
	Myclobutanil	148		
	N(4-Chlorophenyl)N methylurea	20		
	Naled	1		
	Naphthalene	287		
	Neburon	21		
	Nicosulfuron	20		
	Norflurazon	21		
	OIET	7		
	Ortho-dichlorobenzene	143		
	Oryzalin	21		
	Oxamyl	31		
	Oxyfluorfen	49		
	Paraquat dichloride	1		

Kern	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Pendimethalin	148		
	Permethrin	148		
	Phorate	149		
	Phoratoxon	148		
	Phosmet	110		
	Phosmet oxon	94		
	Picloram	22		
	Prometon	165	5	0.004 - 0.009
	Prometryn	164	3	0.006 - 0.009
	Propachlor	21		
	Propanil	49		
	Propargite	49		
	Propham	21		
	Propoxur	21		
	Propyzamide	148		
	Ronnel	1		
	S,S,S-Tributyl phosphorotrithioate	148		
	Siduron	21		
	Simazine	201	27	0.003 - 0.033
	Sulfometuron methyl	20		
	Tebuthiuron	149		
	Tebuthiuron degradate 104	1		
	Tebuthiuron degradate 106	1		
	Tebuthiuron degradate 107	1		
	Tebuthiuron degradate 108	1		
	Tefluthrin	49		
	Terbacil	20		
	Terbufos	148		
	Terbufos oxon sulfone	148		
	Terbuthylazine	148		
	Terbutryn	16		
	Tetrachlorvinphos	1		
	Thiobencarb	94		
	Toxaphene	9		
	trans-Propiconazole	49		
	Triclopyr, triethylamine salt	20		
	Trifluralin	149		
	Xylene	145	1	1.3

Kings	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	3		
	1,2,4-Trichlorobenzene	3		
	1,2-D	14		
	1,3-D	14		
	2,4,5-TP	1		

Kings	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	2,4-D	1		
	2,4-DB acid	5		
	2,6-Diethylaniline	11		
	3,4-Dichloroanaline	11		
	3,5-Dichloroaniline	11		
	3-Hydroxycarbofuran	5		
	4-Chloro-ortho-cresol	11		
	ACET	5		
	Acetochlor	11		
	Acifluorfen, sodium salt	5		
	Alachlor	14		
	Alachlor 2nd amide	11		
	Aldicarb	5		
	Aldicarb sulfone	5		
	Aldicarb sulfoxide	5		
	Atrazine	14	1	0.006
	Azinphos-methyl	11		
	Azinphos-methyl oxon	11		
	Bendiocarb	5		
	Benefin	11		
	Benomyl	5		
	Bensulfuron methyl	5		
	Bentazon	6		
	Bromacil	5	1	0.01
	Bromoxynil phenol	5		
	Carbaryl	11		
	Carbofuran	11		
	Carbon disulfide	11	1	0.04
	Chloramben methyl ester	5		
	Chlorimuron ethyl	5		
	Chlorothalonil	1		
	Chlorpyrifos	11		
	Chlorpyrifos oxon	11		
	cis-Propiconazole	11		
	Clopyralid	5		
	Cyanazine	11		
	Cycloate	5		
	Cyfluthrin	11		
	Cypermethrin	11		
	Dalapon	1		
	DBCP	26		
	DCPA	11		
	DCPA acid degradates	6		
	DDVP	11		
	DEA	11	1	0.005
	Desulfinyl fipronil	11		
	Desulfinyl fipronil amide	11		

Kings	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Diazinon	11		
	Dicamba	6		
	Dichlorprop	5		
	Dicrotophos	11		
	Dieldrin	11		
	Dimethoate	11		
	Dinoseb	6		
	Diphenamid	5		
	Disulfoton	11		
	Disulfoton sulfone	11		
	Diuron	5		
	EDB	15		
	Endosulfan	11		
	Endosulfan sulfate	11		
	EPTC	11		
	Ethion	11		
	Ethion monoxon	11		
	Ethoprop	11		
	Fenamiphos	11		
	Fenamiphos sulfone	11		
	Fenamiphos sulfoxide	11		
	Fipronil	11		
	Fipronil sulfide	11		
	Fipronil sulfone	11		
	Flumetsulam	5		
	Fluometuron	5		
	Fonofos	11		
	Hexazinone	11		
	Imazaquin	5		
	Imazethapyr	5		
	Imidacloprid	5		
	Iprodione	11		
	Isofenphos	11		
	Lambda-cyhalothrin	11		
	Linuron	5		
	Malaoxon	11		
	Malathion	11		
	MCPA	5		
	MCPB	5		
	Metalaxyl	11		
	Methidathion	11		
	Methiocarb	5		
	Methomyl	5		
	Methyl bromide	13		
	Methyl iodide	11		
	Methyl paraoxon	11		
	Methyl parathion	11		

Kings	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Metolachlor	11		
	Metribuzin	11		
	Metsulfuron-methyl	1		
	Molinate	11		
	Myclobutanil	11		
	N(4-Chlorophenyl)N methylurea	5		
	Naphthalene	13		
	Neburon	5		
	Nicosulfuron	5		
	Norflurazon	5		
	OIET	5		
	Ortho-dichlorobenzene	3		
	Oryzalin	5		
	Oxamyl	5		
	Oxyfluorfen	11		
	Pendimethalin	11		
	Permethrin	11		
	Phorate	11		
	Phoratoxon	11		
	Phosmet	1		
	Phosmet oxon	1		
	Picloram	6		
	Prometon	11		
	Prometryn	11		
	Propanil	11		
	Propargite	11		
	Propham	5		
	Propoxur	5		
	Propyzamide	11		
	S,S,S-Tributyl phosphorotrithioate	11		
	Siduron	5		
	Simazine	14	2	0.007 - 0.008
	Sulfometuron methyl	5		
	Tebuthiuron	11		
	Tefluthrin	11		
	Terbacil	5		
	Terbufos	11		
	Terbufos oxon sulfone	11		
	Terbuthylazine	11		
	Thiobencarb	11		
	trans-Propiconazole	11		
	Triclopyr, triethylamine salt	5		
	Trifluralin	11		
	Xylene	3		

Lake	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	7		
	1,2,4-Trichlorobenzene	7		
	1,2-D	16		
	1,3-D	11		
	2,4,5-T	12		
	2,4,5-TP	14		
	2,4-D	14		
	2,6-Diethylaniline	9		
	3,4-Dichloroanaline	9		
	3,5-Dichloroaniline	9		
	3-Hydroxycarbofuran	8		
	4(2,4-DB), dimethylamine salt	12		
	4-Chloro-ortho-cresol	9		
	Acetochlor	9		
	Acifluorfen, sodium salt	8		
	Acrylonitrile	2		
	Alachlor	17		
	Alachlor 2nd amide	9		
	Aldicarb	8		
	Aldicarb sulfone	8		
	Aldicarb sulfoxide	8		
	Aldrin	3		
	Atrazine	23		
	Azinphos-methyl	9		
	Azinphos-methyl oxon	9		
	Benefin	9		
	Bentazon	14		
	BHC (other than gamma isomer)	3		
	Bromacil	6		
	Butachlor	6		
	Carbaryl	17		
	Carbofuran	20		
	Carbon disulfide	10		
	Chlordane	3		
	Chlorobenzilate	3		
	Chloroneb	3		
	Chlorothalonil	3		
	Chlorpyrifos	9		
	Chlorpyrifos oxon	9		
	cis-Propiconazole	9		
	Cyanazine	9		
	Cyfluthrin	9		
	Cypermethrin	9		
	Dalapon	14		
	DBCP	10		
	DCPA	12		
	DCPA acid degradates	4		

Lake	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	DDD	3		
	DDE	3		
	DDT	3		
	DDVP	9		
	DEA	9		
	Desulfinyl fipronil	9		
	Desulfinyl fipronil amide	9		
	Diazinon	9		
	Dicamba	12		
	Dichlorprop, butoxyethanol ester	8		
	Dicrotophos	9		
	Dieldrin	12		
	Dimethoate	15		
	Dinoseb	14		
	Diquat dibromide	12		
	Disulfoton	9		
	Disulfoton sulfone	9		
	EDB	1		
	Endosulfan	12		
	Endosulfan sulfate	12		
	Endothall	13		
	Endrin	3		
	Endrin aldehyde	3		
	EPTC	9		
	Ethion	9		
	Ethion monoxon	9		
	Ethoprop	9		
	Fenamiphos	9		
	Fenamiphos sulfone	9		
	Fenamiphos sulfoxide	9		
	Fipronil	9		
	Fipronil sulfide	9		
	Fipronil sulfone	9		
	Fonofos	9		
	Heptachlor	3		
	Heptachlor epoxide	3		
	Hexachlorobenzene	3		
	Hexazinone	9		
	Iprodione	9		
	Isofenphos	9		
	Lambda-cyhalothrin	9		
	Lindane (gamma-BHC)	3		
	Malaoxon	9		
	Malathion	9		
	Metalaxyl	9		
	Methidathion	9		
	Methiocarb	8		

Lake	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methomyl	8		
	Methoxychlor	3		
	Methyl bromide	16		
	Methyl iodide	9		
	Methyl paraoxon	9		
	Methyl parathion	9		
	Metolachlor	15		
	Metribuzin	15		
	Molinate	17		
	Myclobutanil	9		
	Naphthalene	11		
	Ortho-dichlorobenzene	7		
	Oxamyl	12		
	Oxyfluorfen	9		
	Pendimethalin	9		
	Permethrin	12		
	Permethrin, other related compounds	3		
	Phorate	9		
	Phoratoxon	9		
	Phosmet	9		
	Phosmet oxon	8		
	Picloram	14		
	Prometon	9		
	Prometryn	15		
	Propachlor	8		
	Propanil	9		
	Propargite	9		
	Propoxur	8		
	Propyzamide	9		
	S,S,S-Tributyl phosphorotrithioate	9		
	Simazine	23	1	0.009
	Tebuthiuron	9		
	Tefluthrin	9		
	Terbufos	9		
	Terbufos oxon sulfone	9		
	Terbuthylazine	9		
	Thiobencarb	17		
	Toxaphene	3		
	trans-Propiconazole	9		
	Trifluralin	12		
	Xylene	7		

Lassen	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	7		
	1,2,4-Trichlorobenzene	7		

Lassen	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,2-D	8		
	1,3-D	8		
	2,6-Diethylaniline	1		
	3,4-Dichloroanaline	1		
	4-Chloro-ortho-cresol	1		
	Acetochlor	1		
	Alachlor	1		
	Alachlor 2nd amide	1		
	Atrazine	1		
	Azinphos-methyl	1		
	Azinphos-methyl oxon	1		
	Benefin	1		
	Carbaryl	1		
	Carbon disulfide	1		
	Chlorpyrifos	1		
	Chlorpyrifos oxon	1		
	Cyfluthrin	1		
	Cypermethrin	1		
	DBCP	1		
	DCPA	1		
	DDVP	1		
	DEA	1		
	Desulfinyl fipronil	1		
	Desulfinyl fipronil amide	1		
	Diazinon	1		
	Dicrotophos	1		
	Dieldrin	1		
	Dimethoate	1		
	Ethion	1		
	Ethion monoxon	1		
	Fenamiphos	1		
	Fenamiphos sulfone	1		
	Fenamiphos sulfoxide	1		
	Fipronil	1		
	Fipronil sulfide	1		
	Fipronil sulfone	1		
	Fonofos	1		
	Hexazinone	1		
	Iprodione	1		
	Isofenphos	1		
	Malaoxon	1		
	Malathion	1		
	Metalaxyl	1		
	Methidathion	1		
	Methyl bromide	8		
	Methyl iodide	1		
	Methyl paraoxon	1		

Lassen	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methyl parathion	1		
	Metolachlor	1		
	Metribuzin	1		
	Myclobutanil	1		
	Naphthalene	8		
	Ortho-dichlorobenzene	7		
	Pendimethalin	1		
	Permethrin	1		
	Phorate	1		
	Phoratoxon	1		
	Phosmet	1		
	Phosmet oxon	1		
	Prometon	1		
	Prometryn	1		
	Propyzamide	1		
	S,S,S-Tributyl phosphorotrithioate	1		
	Simazine	1		
	Tebuthiuron	1		
	Terbufos	1		
	Terbufos oxon sulfone	1		
	Terbuthylazine	1		
	Trifluralin	1		
	Xylene	7		

Los Angeles	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	671		
	1,2,4-Trichlorobenzene	671		
	1,2-D	812	3	0.06 - 0.65
	1,3-D	683		
	2,4,5-T	27		
	2,4,5-TP	61		
	2,4,6-trichlorophenol	2		
	2,4-D	65		
	2,4-DB acid	40		
	2,6-Diethylaniline	139		
	3,4-Dichloroanaline	139	18	0.002 - 0.013
	3,5-Dichloroaniline	3		
	3-Hydroxycarbofuran	78		
	4(2,4-DB), dimethylamine salt	26		
	4-Chloro-ortho-cresol	139		
	ACET	39	10	0.01 - 0.03
	Acetochlor	153		
	Acifluorfen, sodium salt	54		
	Acrolein	4		
	Acrylonitrile	5		

Los Angeles	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Alachlor	228		
	Alachlor 2nd amide	139		
	Aldicarb	78		
	Aldicarb sulfone	78		
	Aldicarb sulfoxide	78		
	Aldrin	39		
	Ametryne	2		
	Atrazine	234	61	0.004 - 0.247
	Azinphos-methyl	139		
	Azinphos-methyl oxon	139		
	Barban	1		
	Bendiocarb	40		
	Benefin	139		
	Benomyl	40		
	Bensulfuron methyl	40		
	Bentazon	105		
	BHC (other than gamma isomer)	19		
	Bromacil	88	2	0.01 - 0.04
	Bromoxynil phenol	40		
	Butachlor	37		
	Butylate	2		
	Captan	10		
	Carbaryl	179		
	Carbofuran	93		
	Carbon disulfide	266	11	0.02 - 0.17
	Carbophenothion	10		
	Chloramben methyl ester	40		
	Chlordane	56		
	Chlorimuron ethyl	40		
	Chloroneb	2		
	Chlorothalonil	11		
	Chlorpropham	13		
	Chlorpyrifos	141		
	Chlorpyrifos oxon	139		
	cis-Propiconazole	40		
	Clopyralid	40		
	Cyanazine	13		
	Cycloate	42		
	Cyfluthrin	139		
	Cypermethrin	139		
	Dalapon	61		
	DBCP	218	3	0.01 - 0.04
	DCPA	139		
	DCPA acid degradates	79		
	DDD	18		
	DDE	30		
	DDT	18		

Los Angeles	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	DDVP	139		
	DEA	139	66	0.003 - 0.051
	Desulfinyl fipronil	139	3	0.005 - 0.006
	Desulfinyl fipronil amide	139		
	Diazinon	183		
	Dicamba	90		
	Dichlorprop	40		
	Dichlorprop, butoxyethanol ester	24		
	Dicrotophos	138		
	Dieldrin	176		
	Dimethoate	181		
	Dinoseb	105		
	Diphenamid	50	5	0.01 - 0.02
	Diquat dibromide	64	1	0.44
	Disulfoton	13		
	Disulfoton sulfone	3		
	Diuron	41	7	0.02 - 0.16
	EDB	77	1	0.17
	Endosulfan	21		
	Endosulfan sulfate	21		
	Endothall	63		
	Endrin	66		
	Endrin aldehyde	18		
	EPTC	25		
	Ethion	139		
	Ethion monoxon	139		
	Ethoprop	3		
	Fenamiphos	139		
	Fenamiphos sulfone	139		
	Fenamiphos sulfoxide	138		
	Fipronil	139	4	0.005 - 0.008
	Fipronil sulfide	139	4	0.006 - 0.009
	Fipronil sulfone	139	2	0.005 - 0.006
	Flumetsulam	40		
	Fluometuron	41		
	Fonofos	139		
	Glyphosate, isopropylamine salt	65		
	Heptachlor	62		
	Heptachlor epoxide	62		
	Hexachlorobenzene	67		
	Hexazinone	139	6	0.007 - 0.058
	Imazaquin	40		
	Imazethapyr	40	1	0.02
	Imidacloprid	40		
	Iprodione	139		
	Isofenphos	139		
	Lambda-cyhalothrin	3		

Los Angeles	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Lindane (gamma-BHC)	68		
	Linuron	43		
	Malaoxon	139		
	Malathion	139		
	MCPA	40		
	MCPA, dimethylamine salt	10		
	MCPB	40		
	MCPP	10		
	Metalaxyl	139	8	0.004 - 0.144
	Methidathion	139		
	Methiocarb	68		
	Methomyl	78		
	Methoxychlor	68		
	Methyl bromide	551		
	Methyl iodide	141		
	Methyl paraoxon	139		
	Methyl parathion	139		
	Metolachlor	187	6	0.002 - 0.007
	Metribuzin	187		
	Metsulfuron-methyl	40		
	Molinate	89		
	Monuron	1		
	Myclobutanil	139	1	0.009
	N(4-Chlorophenyl)N methylurea	39	2	0.01
	Naphthalene	522	2	0.4 - 0.5
	Napropamide	2		
	Neburon	41		
	Nicosulfuron	40		
	Norflurazon	40	1	0.02
	OIET	40	1	0.035
	Ortho-dichlorobenzene	671		
	Oryzalin	40		
	Oxamyl	93		
	Oxyfluorfen	3		
	Paraquat dichloride	9		
	Pendimethalin	139		
	Permethrin	139		
	Phorate	139		
	Phoratoxon	139		
	Phosmet	100		
	Phosmet oxon	96		
	Picloram	91		
	Prometon	160	21	0.004 - 0.036
	Prometryn	168		
	Propachlor	34		
	Propanil	3		
	Propargite	3		

Los Angeles	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propazine	2		
	Propham	41		
	Propoxur	63		
	Propyzamide	139		
	S,S,S-Tributyl phosphorotrithioate	88		
	Siduron	41		
	Simazine	234	67	0.004 - 0.261
	Sulfometuron methyl	40	1	0.064
	Tebuthiuron	139	11	0.01 - 0.14
	Tefluthrin	3		
	Terbacil	64		
	Terbufos	139		
	Terbufos oxon sulfone	139		
	Terbuthylazine	139		
	Terbutryn	11		
	Thiobencarb	133		
	Toxaphene	56		
	trans-Propiconazole	3		
	Triadimefon	2		
	Triclopyr, triethylamine salt	40		
	Trifluralin	150		
	Vernolate	2		
	Xylene	670		

Madera	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	26		
	1,2,4-Trichlorobenzene	26		
	1,2-D	89	2	0.06
	1,3-D	89		
	2,4-D	29		
	2,4-D methyl ester	30		
	2,4-DB acid	29		
	2,6-Diethylaniline	62		
	3,4-Dichloroanaline	62	6	0.004 - 0.009
	3,5-Dichloroaniline	59		
	3-Hydroxycarbofuran	29		
	4-Chloro-ortho-cresol	62		
	ACET	35	1	0.03
	Acetochlor	62		
	Acifluorfen, sodium salt	29		
	Alachlor	77		
	Alachlor 2nd amide	62		
	Aldicarb	29		
	Aldicarb sulfone	29		
	Aldicarb sulfoxide	29		

Madera	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Atrazine	89	5	0.004 - 0.039
	Azinphos-methyl	62		
	Azinphos-methyl oxon	62		
	Bendiocarb	29		
	Benefin	62		
	Benomyl	29		
	Bensulfuron methyl	29		
	Bentazon	29		
	Bromacil	45	2	0.01 - 0.03
	Bromoxynil phenol	29		
	Butachlor	10		
	Carbaryl	62		
	Carbofuran	59		
	Carbon disulfide	66	1	0.03
	Chloramben methyl ester	29		
	Chlorimuron ethyl	29		
	Chlorothalonil	6		
	Chlorpyrifos	71		
	Chlorpyrifos oxon	62		
	cis-Propiconazole	59		
	Clopyralid	29		
	Cyanazine	59		
	Cycloate	29		
	Cyfluthrin	62		
	Cypermethrin	62		
	DACT	6	1	0.092
	DBCP	71	8	0.02 - 0.82
	DCPA	62		
	DCPA acid degradates	29		
	DDVP	62		
	DEA	68	9	0.006 - 0.056
	Desulfinyl fipronil	62		
	Desulfinyl fipronil amide	62		
	Diazinon	72		
	Dicamba	29		
	Dichlorprop	29		
	Dicrotophos	62		
	Dieldrin	62		
	Dimethoate	72		
	Dinoseb	29	1	0.04
	Diphenamid	29		
	Disulfoton	59		
	Disulfoton sulfone	59		
	Diuron	34	4	0.04 - 0.188
	DSMN	6		
	EDB	7		
	Endosulfan	59		

Madera	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Endosulfan sulfate	59		
	EPTC	59		
	Ethion	62		
	Ethion monoxon	62		
	Ethoprop	59		
	Fenamiphos	62		
	Fenamiphos sulfone	62		
	Fenamiphos sulfoxide	62		
	Fipronil	62		
	Fipronil sulfide	62		
	Fipronil sulfone	62		
	Flumetsulam	29		
	Fluometuron	29		
	Fonofos	62		
	Hexazinone	68	2	0.009 - 0.011
	Imazaquin	29		
	Imazethapyr	29		
	Imidacloprid	29		
	Iprodione	62		
	Isofenphos	62		
	Lambda-cyhalothrin	59		
	Linuron	29		
	Malaoxon	62		
	Malathion	62		
	MCPA	29		
	MCPB	29		
	Metalaxyl	62		
	Methidathion	62		
	Methiocarb	29		
	Methomyl	29		
	Methyl bromide	89		
	Methyl iodide	63		
	Methyl paraoxon	62		
	Methyl parathion	62		
	Metolachlor	72		
	Metribuzin	72		
	Metsulfuron-methyl	27		
	Molinate	69		
	Myclobutanil	62		
	N(4-Chlorophenyl)N methylurea	29		
	Naphthalene	82		
	Neburon	29		
	Nicosulfuron	29		
	Norflurazon	35	1	0.01
	OIET	29		
	Ortho-dichlorobenzene	26		
	Oryzalin	35		

Madera	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Oxamyl	29		
	Oxyfluorfen	59		
	Pendimethalin	62		
	Permethrin	62		
	Phorate	62		
	Phoratoxon	62		
	Phosmet	50		
	Phosmet oxon	46		
	Picloram	29		
	Prometon	68		
	Prometryn	72		
	Propachlor	10		
	Propanil	59		
	Propargite	59		
	Propham	29		
	Propoxur	29		
	Propyzamide	62		
	S,S,S-Tributyl phosphorotrithioate	62		
	Siduron	29		
	Simazine	89	8	0.004 - 0.018
	Sulfometuron methyl	29		
	Tebuthiuron	68		
	Tebuthiuron degradate 104	6		
	Tebuthiuron degradate 106	6		
	Tebuthiuron degradate 107	6		
	Tebuthiuron degradate 108	6		
	Tefluthrin	59		
	Terbacil	29		
	Terbufos	62		
	Terbufos oxon sulfone	62		
	Terbuthylazine	62		
	Thiobencarb	69		
	trans-Propiconazole	59		
	Triclopyr, triethylamine salt	29		
	Trifluralin	62		
	Xylene	26		

Marin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,2-D	2		
	1,3-D	2		
	2,4,5-T	7		
	2,4,5-TP	7		
	2,4-D	7		
	2,4-DB acid	1		
	2,6-Diethylaniline	2		

Marin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	3,4-Dichloroanaline	2		
	3-Hydroxycarbofuran	7		
	4(2,4-DB), dimethylamine salt	1		
	4-Chloro-ortho-cresol	2		
	ACET	1		
	Acetochlor	2		
	Acifluorfen, sodium salt	1		
	Alachlor	10		
	Alachlor 2nd amide	2		
	Aldicarb	7		
	Aldicarb sulfone	7		
	Aldicarb sulfoxide	7		
	Aldrin	2		
	Atrazine	8		
	Azinphos-methyl	2		
	Azinphos-methyl oxon	2		
	Bendiocarb	1		
	Benefin	2		
	Benomyl	1		
	Bensulfuron methyl	1		
	Bentazon	8		
	Bromacil	7		
	Bromoxynil phenol	1		
	Butachlor	6		
	Carbaryl	8		
	Carbofuran	8		
	Carbon disulfide	2		
	Chloramben methyl ester	1		
	Chlordane	2		
	Chlorimuron ethyl	1		
	Chlorpyrifos	2		
	Chlorpyrifos oxon	2		
	cis-Propiconazole	1		
	Clopyralid	1		
	Cycloate	1		
	Cyfluthrin	2		
	Cypermethrin	2		
	Dalapon	7		
	DBCP	4		
	DCPA	2		
	DCPA acid degradates	1		
	DDVP	2		
	DEA	2		
	Desulfinyl fipronil	2		
	Desulfinyl fipronil amide	2		
	Diazinon	8		
	Dicamba	8		

Marin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Dichlorprop	1		
	Dicrotophos	2		
	Dieldrin	4		
	Dimethoate	8		
	Dinoseb	8		
	Diphenamid	1		
	Diuron	1		
	EDB	3		
	Endrin	2		
	Ethion	2		
	Ethion monoxon	2		
	Fenamiphos	2		
	Fenamiphos sulfone	2		
	Fenamiphos sulfoxide	2		
	Fipronil	2		
	Fipronil sulfide	2		
	Fipronil sulfone	2		
	Flumetsulam	1		
	Fluometuron	1		
	Fonofos	2		
	Fonofos oxon	2		
	Heptachlor	2		
	Heptachlor epoxide	2		
	Hexachlorobenzene	2		
	Hexazinone	2		
	Imazaquin	1		
	Imazethapyr	1		
	Imidacloprid	1		
	Iprodione	2		
	Isofenphos	2		
	Lindane (gamma-BHC)	2		
	Linuron	1		
	Malaoxon	2		
	Malathion	2		
	MCPA	1		
	MCPB	1		
	Metalaxyl	2		
	Methidathion	2		
	Methiocarb	1		
	Methomyl	7		
	Methoxychlor	2		
	Methyl bromide	2		
	Methyl iodide	2		
	Methyl paraoxon	2		
	Methyl parathion	2		
	Metolachlor	8		
	Metribuzin	8		

Marin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Metsulfuron-methyl	1		
	Molinate	6		
	Myclobutanil	2		
	N(4-Chlorophenyl)N methylurea	1		
	Naphthalene	2		
	Neburon	1		
	Nicosulfuron	1		
	Norflurazon	1		
	OIET	1		
	Oryzalin	1		
	Oxamyl	7		
	Pendimethalin	2		
	Permethrin	2		
	Phorate	2		
	Phoratoxon	2		
	Phosmet	2		
	Phosmet oxon	2		
	Picloram	8		
	Prometon	2		
	Prometryn	2		
	Propachlor	6		
	Propham	1		
	Propoxur	1		
	Propyzamide	2		
	Siduron	1		
	Simazine	8		
	Sulfometuron methyl	1		
	Tebuthiuron	2		
	Terbacil	1		
	Terbufos	2		
	Terbufos oxon sulfone	2		
	Terbuthylazine	2		
	Thiobencarb	6		
	Toxaphene	2		
	Triclopyr, triethylamine salt	1		
	Trifluralin	2		

Mariposa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	19		
	1,2,4-Trichlorobenzene	19		
	1,2-D	24		
	1,3-D	20		
	2,4,5-TP	1		
	2,4-D	1		
	2,6-Diethylaniline	5		

Mariposa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	3,4-Dichloroanaline	5		
	3-Hydroxycarbofuran	1		
	4-Chloro-ortho-cresol	5		
	Acetochlor	6		
	Alachlor	7		
	Alachlor 2nd amide	5		
	Aldicarb	1		
	Aldicarb sulfone	1		
	Aldicarb sulfoxide	1		
	Aldrin	1		
	Atrazine	8		
	Azinphos-methyl	5		
	Azinphos-methyl oxon	5		
	Benefin	5		
	Bentazon	1		
	Bromacil	2		
	Butachlor	2		
	Carbaryl	6		
	Carbofuran	1		
	Carbon disulfide	5		
	Chlordane	1		
	Chlorothalonil	2	1	0.02
	Chlorpyrifos	6		
	Chlorpyrifos oxon	5		
	Cyfluthrin	5		
	Cypermethrin	5		
	Dalapon	1		
	DBCP	6		
	DCPA	5		
	DDVP	5		
	DEA	5		
	Desulfinyl fipronil	5		
	Desulfinyl fipronil amide	5		
	Diazinon	7		
	Dicamba	1		
	Dichlorprop, butoxyethanol ester	1		
	Dicrotophos	5		
	Dieldrin	6		
	Dimethoate	7		
	Dinoseb	1		
	Diquat dibromide	1		
	EDB	1		
	Endrin	1		
	Ethion	5		
	Ethion monoxon	5		
	Fenamiphos	5		
	Fenamiphos sulfone	5		

Mariposa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fenamiphos sulfoxide	5		
	Fipronil	5		
	Fipronil sulfide	5		
	Fipronil sulfone	5		
	Fonofos	5		
	Glyphosate, isopropylamine salt	1		
	Heptachlor	1		
	Heptachlor epoxide	1		
	Hexachlorobenzene	1		
	Hexazinone	5		
	Iprodione	5		
	Isofenphos	5		
	Lindane (gamma-BHC)	1		
	Malaoxon	5		
	Malathion	5		
	Metalaxyl	5		
	Methidathion	5		
	Methiocarb	1		
	Methomyl	1		
	Methoxychlor	1		
	Methyl bromide	19		
	Methyl iodide	5		
	Methyl paraoxon	5		
	Methyl parathion	5		
	Metolachlor	7		
	Metribuzin	7		
	Molinate	2		
	Myclobutanil	5		
	Naphthalene	14		
	Ortho-dichlorobenzene	19		
	Oxamyl	1		
	Pendimethalin	5		
	Permethrin	5		
	Phorate	5		
	Phoratoxon	5		
	Phosmet	5		
	Phosmet oxon	5		
	Picloram	1		
	Prometon	5		
	Prometryn	7		
	Propachlor	1		
	Propoxur	1		
	Propyzamide	5		
	S,S,S-Tributyl phosphorotrithioate	5		
	Simazine	8		
	Tebuthiuron	5		
	Terbacil	1		

Mariposa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Terbufos	5		
	Terbufos oxon sulfone	5		
	Terbuthylazine	5		
	Thiobencarb	2		
	Toxaphene	1		
	Trifluralin	6		
	Xylene	19		

Mendocino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	9		
	1,2,4-Trichlorobenzene	9		
	1,2-D	30		
	1,3-D	29		
	2,4,5-T	6		
	2,4,5-TP	7		
	2,4-D	7		
	2,6-Diethylaniline	21		
	3,4-Dichloroanaline	21		
	3,5-Dichloroaniline	21		
	3-Hydroxycarbofuran	4		
	4(2,4-DB), dimethylamine salt	6		
	4-Chloro-ortho-cresol	21		
	Acetochlor	21		
	Acifluorfen, sodium salt	5		
	Acrylonitrile	7		
	Alachlor	29		
	Alachlor 2nd amide	21		
	Aldicarb	4		
	Aldicarb sulfone	4		
	Aldicarb sulfoxide	4		
	Aldrin	1		
	Atrazine	30	2	0.005 - 0.011
	Azinphos-methyl	21		
	Azinphos-methyl oxon	21		
	Benefin	21		
	Bentazon	6		
	BHC (other than gamma isomer)	1		
	Bromacil	8		
	Butachlor	8		
	Carbaryl	25		
	Carbofuran	25		
	Carbon disulfide	28		
	Chlordane	1		
	Chlorobenzilate	1		
	Chloroneb	1		

Mendocino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Chlorothalonil	1		
	Chlorpyrifos	21		
	Chlorpyrifos oxon	18		
	cis-Propiconazole	21		
	Cyanazine	21		
	Cyfluthrin	21		
	Cypermethrin	21		
	Dalapon	7		
	DBCP	22		
	DCPA	22		
	DDD	1		
	DDE	1		
	DDT	1		
	DDVP	21		
	DEA	21	2	0.006
	Desulfinyl fipronil	21		
	Desulfinyl fipronil amide	21		
	Diazinon	21		
	Dicamba	6		
	Dichlorprop, butoxyethanol ester	5		
	Dicrotophos	21		
	Dieldrin	22		
	Dimethoate	29		
	Dinoseb	6		
	Diquat dibromide	4		
	Disulfoton	21		
	Disulfoton sulfone	21		
	EDB	1		
	Endosulfan	22		
	Endosulfan sulfate	22		
	Endothall	4		
	Endrin	1		
	Endrin aldehyde	1		
	EPTC	21		
	Ethion	21		
	Ethion monoxon	21		
	Ethoprop	21		
	Fenamiphos	21		
	Fenamiphos sulfone	21		
	Fenamiphos sulfoxide	20		
	Fipronil	21		
	Fipronil sulfide	21		
	Fipronil sulfone	21		
	Fonofos	21		
	Heptachlor	1		
	Heptachlor epoxide	1		
	Hexachlorobenzene	1		

Mendocino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Hexazinone	21		
	Iprodione	21		
	Isofenphos	21		
	Lambda-cyhalothrin	21		
	Lindane (gamma-BHC)	1		
	Malaoxon	21		
	Malathion	21		
	Metalaxyl	21		
	Methidathion	21		
	Methiocarb	4		
	Methomyl	4		
	Methoxychlor	1		
	Methyl bromide	30		
	Methyl iodide	21		
	Methyl paraoxon	21		
	Methyl parathion	21		
	Metolachlor	29		
	Metribuzin	29		
	Molinate	29		
	Myclobutanil	21		
	Naphthalene	29		
	Ortho-dichlorobenzene	9		
	Oxamyl	4		
	Oxyfluorfen	21		
	Pendimethalin	21		
	Permethrin	22		
	Permethrin, other related compounds	1		
	Phorate	21		
	Phoratoxon	21		
	Phosmet	21		
	Phosmet oxon	20		
	Picloram	6		
	Prometon	21		
	Prometryn	29		
	Propachlor	8		
	Propanil	21		
	Propargite	21		
	Propoxur	4		
	Propyzamide	21		
	S,S,S-Tributyl phosphorotrithioate	21		
	Simazine	30	4	0.005 - 0.009
	Tebuthiuron	21		
	Tefluthrin	21		
	Terbufos	21		
	Terbufos oxon sulfone	21		
	Terbuthylazine	21		
	Thiobencarb	29		

Mendocino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Toxaphene	1		
	trans-Propiconazole	21		
	Trifluralin	22		
	Xylene	9		

Merced	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	46		
	1,2,4-Trichlorobenzene	46		
	1,2-D	91	3	0.03 - 0.04
	1,3-D	86		
	2,4,5-T	2		
	2,4,5-TP	2		
	2,4-D	5		
	2,4-D methyl ester	3		
	2,4-DB acid	8		
	2,6-Diethylaniline	45		
	3,4-Dichloroanaline	45	3	0.004 - 0.005
	3,5-Dichloroaniline	3		
	3-Hydroxycarbofuran	10		
	4-Chloro-ortho-cresol	45		
	ACET	11	2	0.02 - 0.03
	Acetochlor	45		
	Acifluorfen, sodium salt	8		
	Alachlor	76		
	Alachlor 2nd amide	45		
	Aldicarb	10		
	Aldicarb sulfone	10		
	Aldicarb sulfoxide	10		
	Aldrin	4		
	Atrazine	80	11	0.004 - 0.011
	Azinphos-methyl	45		
	Azinphos-methyl oxon	45		
	Bendiocarb	8		
	Benefin	45		
	Benomyl	8		
	Bensulfuron methyl	8		
	Bentazon	10		
	Bromacil	31		
	Bromoxynil phenol	8		
	Butachlor	19		
	Carbaryl	47		
	Carbofuran	10		
	Carbon disulfide	45	2	0.05 - 0.07
	Chloramben methyl ester	8		
	Chlordane	4		

Merced	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Chlorimuron ethyl	8		
	Chlorothalonil	11		
	Chlorpyrifos	45		
	Chlorpyrifos oxon	45		
	cis-Propiconazole	8		
	Clopyralid	8		
	Cyanazine	3		
	Cycloate	8		
	Cyfluthrin	45		
	Cypermethrin	45		
	DACT	4		
	Dalapon	2		
	DBCP	90	14	0.01 - 1.44
	DCPA	45		
	DCPA acid degradates	8		
	DDVP	45		
	DEA	49	16	0.005 - 0.018
	Desulfinyl fipronil	45		
	Desulfinyl fipronil amide	45		
	Diazinon	52		
	Dicamba	10		
	Dichlorprop	8		
	Dicrotophos	45		
	Dieldrin	48		
	Dimethoate	64		
	Dinoseb	10		
	Diphenamid	8		
	Diquat dibromide	2		
	Disulfoton	3		
	Disulfoton sulfone	3		
	Diuron	12	3	0.01
	DSMN	4		
	EDB	46	1	0.03
	Endosulfan	3		
	Endosulfan sulfate	3		
	Endothall	2		
	Endrin	4		
	EPTC	3		
	Ethion	45		
	Ethion monoxon	45		
	Ethoprop	3		
	Fenamiphos	45		
	Fenamiphos sulfone	45		
	Fenamiphos sulfoxide	45		
	Fipronil	45		
	Fipronil sulfide	45		
	Fipronil sulfone	45		

Merced	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Flumetsulam	8		
	Fluometuron	8		
	Fonofos	45		
	Glyphosate, isopropylamine salt	2		
	Heptachlor	4		
	Heptachlor epoxide	4		
	Hexachlorobenzene	4		
	Hexazinone	49	3	0.009 - 0.014
	Imazaquin	8		
	Imazethapyr	8	1	0.01
	Imidacloprid	8		
	Iprodione	45		
	Isofenphos	45		
	Lambda-cyhalothrin	3		
	Lindane (gamma-BHC)	4		
	Linuron	8		
	Malaoxon	45		
	Malathion	45		
	MCPA	8		
	MCPB	8		
	Metalaxyl	45		
	Methidathion	45		
	Methiocarb	8		
	Methomyl	10		
	Methoxychlor	4		
	Methyl bromide	91		
	Methyl iodide	45		
	Methyl paraoxon	45		
	Methyl parathion	45		
	Metolachlor	64	5	0.004 - 0.007
	Metribuzin	64		
	Metsulfuron-methyl	7		
	Molinate	22		
	Myclobutanil	45		
	N(4-Chlorophenyl)N methylurea	8		
	Naphthalene	91	1	0.4
	Neburon	8		
	Nicosulfuron	8		
	Norflurazon	12		
	OIET	8		
	Ortho-dichlorobenzene	46		
	Oryzalin	12		
	Oxamyl	10		
	Oxyfluorfen	3		
	Pendimethalin	45		
	Permethrin	45		
	Phorate	45		

Merced	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Phoratoxon	45		
	Phosmet	24		
	Phosmet oxon	24		
	Picloram	10		
	Prometon	49		
	Prometryn	45		
	Propachlor	19		
	Propanil	3		
	Propargite	3		
	Propham	8		
	Propoxur	8		
	Propyzamide	45		
	S,S,S-Tributyl phosphorotrithioate	16		
	Siduron	8		
	Simazine	80	17	0.003 - 0.112
	Sulfometuron methyl	8		
	Tebuthiuron	49		
	Tebuthiuron degradate 104	4		
	Tebuthiuron degradate 106	4		
	Tebuthiuron degradate 107	4		
	Tebuthiuron degradate 108	4		
	Tefluthrin	3		
	Terbacil	8		
	Terbufos	45		
	Terbufos oxon sulfone	45		
	Terbuthylazine	45		
	Thiobencarb	22		
	Toxaphene	4		
	trans-Propiconazole	3		
	Triclopyr, triethylamine salt	8		
	Trifluralin	47		
	Xylene	46	1	0.72

Modoc	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	1		
	1,2,4-Trichlorobenzene	1		
	1,2-D	1		
	1,3-D	1		
	Methyl bromide	1		
	Naphthalene	1		
	Ortho-dichlorobenzene	1		
	Xylene	1		

Mono	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	3		
	1,2,4-Trichlorobenzene	3		
	1,2-D	9		
	1,3-D	9		
	2,4,5-TP	1		
	2,4-D	1		
	2,6-Diethylaniline	2		
	3,4-Dichloroanaline	2		
	3-Hydroxycarbofuran	1		
	4-Chloro-ortho-cresol	2		
	Acetochlor	2		
	Alachlor	4		
	Alachlor 2nd amide	2		
	Aldicarb	1		
	Aldicarb sulfone	1		
	Aldicarb sulfoxide	1		
	Aldrin	1		
	Atrazine	4		
	Azinphos-methyl	2		
	Azinphos-methyl oxon	2		
	Benefin	2		
	Bentazon	1		
	BHC (other than gamma isomer)	1		
	Bromacil	1		
	Carbaryl	3		
	Carbofuran	1		
	Carbon disulfide	6		
	Chlordane	1		
	Chlorpyrifos	2		
	Chlorpyrifos oxon	2		
	Cyfluthrin	2		
	Cypermethrin	2		
	Dalapon	1		
	DBCP	8		
	DCPA	2		
	DDVP	2		
	DEA	2		
	Desulfinyl fipronil	2		
	Desulfinyl fipronil amide	2		
	Diazinon	3		
	Dicamba	1		
	Dicrotophos	2		
	Dieldrin	3		
	Dimethoate	3		
	Dinoseb	1		
	Diquat dibromide	1		
	EDB	2		

Mono	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Endothall	1		
	Endrin	1		
	Ethion	2		
	Ethion monoxon	2		
	Fenamiphos	2		
	Fenamiphos sulfone	2		
	Fenamiphos sulfoxide	2		
	Fipronil	2		
	Fipronil sulfide	2		
	Fipronil sulfone	2		
	Fonofos	2		
	Glyphosate, isopropylamine salt	1		
	Heptachlor	1		
	Heptachlor epoxide	1		
	Hexachlorobenzene	2		
	Hexazinone	2		
	Iprodione	2		
	Isofenphos	2		
	Lindane (gamma-BHC)	2		
	Malaoxon	2		
	Malathion	2		
	Metalaxyl	2		
	Methidathion	2		
	Methiocarb	1		
	Methomyl	1		
	Methoxychlor	2		
	Methyl bromide	9		
	Methyl iodide	6		
	Methyl paraoxon	2		
	Methyl parathion	2		
	Metolachlor	3		
	Metribuzin	3		
	Molinate	2		
	Myclobutanil	2		
	Naphthalene	9		
	Ortho-dichlorobenzene	3		
	Oxamyl	1		
	Pendimethalin	2		
	Permethrin	2		
	Phorate	2		
	Phoratoxon	2		
	Phosmet	2		
	Phosmet oxon	2		
	Picloram	1		
	Prometon	3		
	Prometryn	3		
	Propachlor	1		

Mono	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propoxur	1		
	Propyzamide	2		
	S,S,S-Tributyl phosphorotrithioate	2		
	Simazine	4		
	Tebuthiuron	2		
	Terbufos	2		
	Terbufos oxon sulfone	2		
	Terbuthylazine	2		
	Terbutryn	1		
	Thiobencarb	2		
	Toxaphene	1		
	Trifluralin	2		
	Xylene	3		

Monterey	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	49		
	1,2,4-Trichlorobenzene	49		
	1,2-D	115	1	0.03
	1,3-D	98		
	2,4,5-T	29		
	2,4,5-TP	30		
	2,4-D	50		
	2,4-DB acid	24		
	2,6-Diethylaniline	66		
	3,4-Dichloroanaline	66		
	3-Hydroxycarbofuran	47		
	4(2,4-DB), dimethylamine salt	5		
	4-Chloro-ortho-cresol	66		
	ACET	23		
	Acetochlor	66		
	Acifluorfen, sodium salt	29		
	Alachlor	96		
	Alachlor 2nd amide	66		
	Aldicarb	47		
	Aldicarb sulfone	47		
	Aldicarb sulfoxide	47		
	Aldrin	4		
	Atrazine	116	3	0.006 - 0.035
	Azinphos-methyl	66		
	Azinphos-methyl oxon	66		
	Barban	1		
	Bendiocarb	24		
	Benefin	66		
	Benomyl	24		
	Bensulfuron methyl	24		

Monterey	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bentazon	56		
	Bromacil	44		
	Bromoxynil phenol	24		
	Butachlor	20		
	Carbaryl	89		
	Carbofuran	49		
	Carbon disulfide	67		
	Chloramben methyl ester	24		
	Chlordane	7		
	Chlorimuron ethyl	24		
	Chlorothalonil	3		
	Chlorpropham	1		
	Chlorpyrifos	66		
	Chlorpyrifos oxon	66		
	cis-Propiconazole	24		
	Clopyralid	24		
	Cycloate	24		
	Cyfluthrin	66		
	Cypermethrin	66		
	Dalapon	30		
	DBCP	73		
	DCPA	66	3	0.002 - 0.004
	DCPA acid degradates	30		
	DDVP	66		
	DEA	66	7	0.003 - 0.007
	Desulfinyl fipronil	66		
	Desulfinyl fipronil amide	66		
	Diazinon	77		
	Dicamba	54		
	Dichlorprop	24		
	Dichlorprop, butoxyethanol ester	5		
	Dicrotophos	66		
	Dieldrin	70	1	0.006
	Dimethoate	87		
	Dinoseb	54		
	Diphenamid	24		
	Diquat dibromide	49		
	Diuron	25		
	EDB	8		
	Endothall	8		
	Endrin	7		
	Ethion	66		
	Ethion monoxon	66		
	Fenamiphos	66		
	Fenamiphos sulfone	66		
	Fenamiphos sulfoxide	66		
	Fipronil	66		

Monterey	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fipronil sulfide	66		
	Fipronil sulfone	66		
	Flumetsulam	24		
	Fluometuron	25		
	Fonofos	66		
	Glyphosate, isopropylamine salt	5		
	Heptachlor	7		
	Heptachlor epoxide	7		
	Hexachlorobenzene	7		
	Hexazinone	66		
	Imazaquin	24		
	Imazethapyr	23		
	Imidacloprid	24		
	Iprodione	66		
	Isofenphos	66		
	Lindane (gamma-BHC)	8		
	Linuron	25		
	Malaoxon	66		
	Malathion	66		
	MCPA	23		
	MCPB	24		
	Metalaxyl	66		
	Methidathion	66		
	Methiocarb	29		
	Methomyl	45		
	Methoxychlor	7		
	Methyl bromide	96		
	Methyl iodide	66		
	Methyl paraoxon	66		
	Methyl parathion	66		
	Metolachlor	86		
	Metribuzin	86		
	Metsulfuron-methyl	24		
	Molinate	24		
	Monuron	1		
	Myclobutanil	66		
	N(4-Chlorophenyl)N methylurea	24		
	Naphthalene	111		
	Neburon	25		
	Nicosulfuron	24		
	Norflurazon	24		
	OIET	24		
	Ortho-dichlorobenzene	49		
	Oryzalin	24		
	Oxamyl	48		
	Paraquat dichloride	1		
	Pendimethalin	66		

Monterey	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Permethrin	66		
	Phorate	66		
	Phoratoxon	66		
	Phosmet	55		
	Phosmet oxon	50		
	Picloram	54	1	3.6
	Prometon	66	1	0.006
	Prometryn	66		
	Propachlor	20		
	Propham	25		
	Propoxur	27		
	Propyzamide	66		
	Siduron	25		
	Simazine	116	13	0.005 - 0.02
	Sulfometuron methyl	24		
	Tebuthiuron	66		
	Terbacil	24		
	Terbufos	66		
	Terbufos oxon sulfone	66		
	Terbuthylazine	66	1	0.01
	Thiobencarb	24		
	Toxaphene	7		
	Triclopyr, triethylamine salt	24		
	Trifluralin	69		
	Xylene	49		

Napa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	1		
	1,2,4-Trichlorobenzene	1		
	1,2-D	24		
	1,3-D	23		
	2,4,5-T	5		
	2,4,5-TP	6		
	2,4-D	6		
	2,4-DB acid	7		
	2,6-Diethylaniline	23		
	3,4-Dichloroanaline	23		
	3,5-Dichloroaniline	1		
	3-Hydroxycarbofuran	12		
	4(2,4-DB), dimethylamine salt	4		
	4-Chloro-ortho-cresol	23		
	ACET	7		
	Acetochlor	23		
	Acifluorfen, sodium salt	8		
	Alachlor	25		

Napa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Alachlor 2nd amide	23		
	Aldicarb	12		
	Aldicarb sulfone	12		
	Aldicarb sulfoxide	12		
	Atrazine	29		
	Azinphos-methyl	23		
	Azinphos-methyl oxon	23		
	Bendiocarb	7		
	Benefin	23		
	Benomyl	7		
	Bensulfuron methyl	7		
	Bentazon	13		
	Bromacil	9		
	Bromoxynil phenol	7		
	Butachlor	1		
	Carbaryl	28		
	Carbofuran	14		
	Carbon disulfide	22	6	0.03 - 0.37
	Chloramben methyl ester	7		
	Chlorimuron ethyl	7		
	Chlorpyrifos	23		
	Chlorpyrifos oxon	23		
	cis-Propiconazole	8		
	Clopyralid	7		
	Cyanazine	1		
	Cycloate	7		
	Cyfluthrin	23		
	Cypermethrin	23		
	Dalapon	6		
	DBCP	23		
	DCPA	23		
	DCPA acid degradates	9		
	DDVP	23		
	DEA	23		
	Desulfinyl fipronil	23		
	Desulfinyl fipronil amide	23		
	Diazinon	24		
	Dicamba	13		
	Dichlorprop	7		
	Dichlorprop, butoxyethanol ester	1		
	Dicrotophos	23		
	Dieldrin	23		
	Dimethoate	25		
	Dinoseb	13		
	Diphenamid	7		
	Diquat dibromide	6		
	Disulfoton	1		

Napa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Disulfoton sulfone	1		
	Diuron	7		
	Endosulfan	1		
	Endosulfan sulfate	1		
	Endothall	5		
	EPTC	1		
	Ethion	23		
	Ethion monoxon	23		
	Ethoprop	1		
	Fenamiphos	23		
	Fenamiphos sulfone	23		
	Fenamiphos sulfoxide	23		
	Fipronil	23		
	Fipronil sulfide	23		
	Fipronil sulfone	23		
	Flumetsulam	7		
	Fluometuron	7		
	Fonofos	23		
	Fonofos oxon	22		
	Hexazinone	23		
	Imazaquin	7		
	Imazethapyr	7		
	Imidacloprid	7		
	Iprodione	23		
	Isofenphos	23		
	Lambda-cyhalothrin	1		
	Linuron	7		
	Malaoxon	23		
	Malathion	23		
	MCPA	7		
	MCPB	7		
	Metalaxyl	23		
	Methidathion	23		
	Methiocarb	11		
	Methomyl	12		
	Methyl bromide	24		
	Methyl iodide	23		
	Methyl paraoxon	23		
	Methyl parathion	23		
	Metolachlor	25		
	Metribuzin	25		
	Metsulfuron-methyl	7		
	Molinate	3		
	Myclobutanil	23		
	N(4-Chlorophenyl)N methylurea	7		
	Naphthalene	23		
	Neburon	7		

Napa	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Nicosulfuron	7		
	Norflurazon	7		
	OIET	7		
	Ortho-dichlorobenzene	1		
	Oryzalin	7		
	Oxamyl	12		
	Oxyfluorfen	1		
	Pendimethalin	23		
	Permethrin	23		
	Phorate	23		
	Phoratoxon	23		
	Phosmet	23		
	Phosmet oxon	23		
	Picloram	13		
	Prometon	23		
	Prometryn	24		
	Propachlor	1		
	Propanil	1		
	Propargite	1		
	Propham	7		
	Propoxur	11		
	Propyzamide	23		
	S,S,S-Tributyl phosphorotrithioate	1		
	Siduron	7		
	Simazine	29	2	0.004 - 0.011
	Sulfometuron methyl	7		
	Tebuthiuron	23		
	Tefluthrin	1		
	Terbacil	7		
	Terbufos	23		
	Terbufos oxon sulfone	23		
	Terbuthylazine	23		
	Thiobencarb	3		
	trans-Propiconazole	1		
	Triclopyr, triethylamine salt	7		
	Trifluralin	23		
	Xylene	1		

Nevada	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	5		
	1,2,4-Trichlorobenzene	5		
	1,2-D	24		
	1,3-D	21		
	2,6-Diethylaniline	19		
	3,4-Dichloroanaline	19		

Nevada	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	4-Chloro-ortho-cresol	19		
	Acetochlor	19		
	Alachlor	19		
	Alachlor 2nd amide	19		
	Atrazine	19	2	0.004 - 0.012
	Azinphos-methyl	19		
	Azinphos-methyl oxon	19		
	Benefin	19		
	Carbaryl	19		
	Carbon disulfide	19		
	Chlorpyrifos	19		
	Chlorpyrifos oxon	18		
	Cyfluthrin	19		
	Cypermethrin	19		
	DBCP	19		
	DCPA	19		
	DDVP	19		
	DEA	19	2	0.003 - 0.008
	Desulfinyl fipronil	19		
	Desulfinyl fipronil amide	19		
	Diazinon	19		
	Dicrotophos	19	1	0.03
	Dieldrin	19		
	Dimethoate	19		
	Ethion	19		
	Ethion monoxon	19		
	Fenamiphos	19		
	Fenamiphos sulfone	19		
	Fenamiphos sulfoxide	19		
	Fipronil	19		
	Fipronil sulfide	19		
	Fipronil sulfone	19		
	Fonofos	19		
	Hexazinone	19		
	Iprodione	19		
	Isofenphos	19		
	Malaoxon	19		
	Malathion	19		
	Metalaxyl	19		
	Methidathion	19		
	Methyl bromide	19		
	Methyl iodide	19		
	Methyl paraoxon	19		
	Methyl parathion	19		
	Metolachlor	19		
	Metribuzin	19		
	Myclobutanil	19		

Nevada	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Naphthalene	19		
	Ortho-dichlorobenzene	5		
	Pendimethalin	19		
	Permethrin	19		
	Phorate	19		
	Phoratoxon	19		
	Phosmet	16		
	Phosmet oxon	16		
	Prometon	19		
	Prometryn	19		
	Propyzamide	19		
	S,S,S-Tributyl phosphorotrithioate	19		
	Simazine	19		
	Tebuthiuron	19		
	Terbufos	19		
	Terbufos oxon sulfone	19		
	Terbuthylazine	19		
	Trifluralin	19		
	Xylene	5		

Orange	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	178		
	1,2,4-Trichlorobenzene	176		
	1,2-D	205		
	1,3-D	202		
	2,4,5-TP	12		
	2,4-D	12		
	2,4-DB acid	2		
	2,6-Diethylaniline	28		
	3,4-Dichloroanaline	28	2	0.017 - 0.024
	3,5-Dichloroaniline	3		
	3-Hydroxycarbofuran	13		
	4-Chloro-ortho-cresol	28		
	ACET	2		
	Acetochlor	43		
	Acifluorfen, sodium salt	2		
	Alachlor	82		
	Alachlor 2nd amide	28		
	Aldicarb	13		
	Aldicarb sulfone	13		
	Aldicarb sulfoxide	13		
	Aldrin	14		
	Atrazine	82	7	0.004 - 0.059
	Azinphos-methyl	28		
	Azinphos-methyl oxon	28		

Orange	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bendiocarb	2		
	Benefin	28		
	Benomyl	2		
	Bensulfuron methyl	2		
	Bentazon	14		
	BHC (other than gamma isomer)	14		
	Bromacil	55		
	Bromoxynil phenol	2		
	Butachlor	53		
	Carbaryl	39		
	Carbofuran	16		
	Carbon disulfide	28	3	0.03 - 0.12
	Chloramben methyl ester	2		
	Chlordane	12		
	Chlorimuron ethyl	2		
	Chlorothalonil	14		
	Chlorpyrifos	28		
	Chlorpyrifos oxon	28		
	cis-Propiconazole	4		
	Clopyralid	2		
	Cyanazine	3		
	Cycloate	2		
	Cyfluthrin	28		
	Cypermethrin	28		
	Dalapon	12		
	DBCP	205		
	DCPA	28		
	DCPA acid degradates	2		
	DDD	14		
	DDE	14		
	DDT	14		
	DDVP	28	1	0.01
	DEA	28	8	0.001 - 0.019
	Desulfinyl fipronil	28		
	Desulfinyl fipronil amide	28		
	Diazinon	80		
	Dicamba	13		
	Dichlorprop	2		
	Dicrotophos	28		
	Dieldrin	42		
	Dimethoate	81		
	Dinoseb	14		
	Diphenamid	2		
	Diquat dibromide	12		
	Disulfoton	3		
	Disulfoton sulfone	3		
	Diuron	13		

Orange	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	EDB	177		
	Endosulfan	17		
	Endosulfan sulfate	17		
	Endothall	12		
	Endrin	15		
	Endrin aldehyde	14		
	EPTC	3		
	Ethion	28		
	Ethion monoxon	28		
	Ethoprop	3		
	Fenamiphos	28		
	Fenamiphos sulfone	28		
	Fenamiphos sulfoxide	28		
	Fipronil	28		
	Fipronil sulfide	28		
	Fipronil sulfone	28		
	Flumetsulam	2		
	Fluometuron	2		
	Fonofos	28		
	Fonofos oxon	2		
	Glyphosate, isopropylamine salt	12		
	Heptachlor	15		
	Heptachlor epoxide	15		
	Hexachlorobenzene	15		
	Hexazinone	28	3	0.009 - 0.016
	Imazaquin	2		
	Imazethapyr	2		
	Imidacloprid	2		
	Iprodione	28		
	Isofenphos	28		
	Lambda-cyhalothrin	3		
	Lindane (gamma-BHC)	15		
	Linuron	13		
	Malaoxon	28		
	Malathion	78		
	MCPA	2		
	MCPB	2		
	Metalaxyl	28		
	Methidathion	28		
	Methiocarb	13		
	Methomyl	13		
	Methoxychlor	15		
	Methyl bromide	204		
	Methyl iodide	28		
	Methyl paraoxon	28		
	Methyl parathion	78		
	Metolachlor	81	1	0.004

Orange	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Metribuzin	80		
	Metsulfuron-methyl	2		
	Molinate	57		
	Myclobutanil	28		
	N(4-Chlorophenyl)N methylurea	2		
	Naphthalene	202		
	Neburon	2		
	Nicosulfuron	2		
	Norflurazon	2		
	OIET	2		
	Ortho-dichlorobenzene	178		
	Oryzalin	2		
	Oxamyl	14		
	Oxyfluorfen	3		
	Paraquat dichloride	11		
	Parathion or ethyl parathion	50		
	Pendimethalin	28		
	Permethrin	28		
	Phorate	28		
	Phoratoxon	28		
	Phosmet	22		
	Phosmet oxon	22		
	Picloram	14		
	Prometon	78	3	0.007 - 0.01
	Prometryn	80		
	Propachlor	52		
	Propanil	3		
	Propargite	3		
	Propham	2		
	Propoxur	13		
	Propyzamide	28		
	S,S,S-Tributyl phosphorotrithioate	26		
	Siduron	2		
	Simazine	82	7	0.006 - 0.268
	Sulfometuron methyl	2		
	Tebuthiuron	28	4	0.01 - 0.02
	Tefluthrin	3		
	Terbacil	3		
	Terbufos	28		
	Terbufos oxon sulfone	28		
	Terbuthylazine	28		
	Thiobencarb	58		
	Toxaphene	12		
	trans-Propiconazole	3		
	Triclopyr, triethylamine salt	2		
	Trifluralin	28		
	Xylene	178		

Placer	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	12		
	1,2,4-Trichlorobenzene	12		
	1,2-D	34		
	1,3-D	34		
	2,4,5-TP	1		
	2,4-D	1		
	2,4-DB acid	3		
	2,6-Diethylaniline	22		
	3,4-Dichloroanaline	22		
	3-Hydroxycarbofuran	3		
	4-Chloro-ortho-cresol	22		
	ACET	3	1	0.01
	Acetochlor	22		
	Acifluorfen, sodium salt	3		
	Alachlor	23		
	Alachlor 2nd amide	22		
	Aldicarb	3		
	Aldicarb sulfone	3		
	Aldicarb sulfoxide	3		
	Atrazine	23	2	0.005 - 0.011
	Azinphos-methyl	22		
	Azinphos-methyl oxon	22		
	Bendiocarb	3		
	Benefin	22		
	Benomyl	3		
	Bensulfuron methyl	3		
	Bentazon	4	1	0.26
	Bromacil	3		
	Bromoxynil phenol	3		
	Carbaryl	22		
	Carbofuran	6		
	Carbon disulfide	22		
	Chloramben methyl ester	3		
	Chlordane	1		
	Chlorimuron ethyl	3		
	Chlorpyrifos	22		
	Chlorpyrifos oxon	22		
	cis-Propiconazole	5		
	Clopyralid	3		
	Cycloate	3		
	Cyfluthrin	22		
	Cypermethrin	22		
	Dalapon	1		
	DBCP	23		
	DCPA	22		
	DCPA acid degradates	3		
	DDVP	22		

Orange	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	DEA	22	2	0.005 - 0.01
	Desulfinyl fipronil	22		
	Desulfinyl fipronil amide	22		
	Diazinon	22		
	Dicamba	3		
	Dichlorprop	3		
	Dicrotophos	22		
	Dieldrin	22	1	0.002
	Dimethoate	22		
	Dinoseb	4		
	Diphenamid	3		
	Diquat dibromide	1		
	Diuron	3		
	EDB	1		
	Endothall	1		
	Endrin	1		
	Ethion	22		
	Ethion monoxon	22		
	Fenamiphos	22		
	Fenamiphos sulfone	22		
	Fenamiphos sulfoxide	22		
	Fipronil	22		
	Fipronil sulfide	22		
	Fipronil sulfone	22		
	Flumetsulam	3		
	Fluometuron	3		
	Fonofos	22		
	Glyphosate, isopropylamine salt	1		
	Heptachlor	1		
	Heptachlor epoxide	1		
	Hexachlorobenzene	1		
	Hexazinone	22		
	Imazaquin	3		
	Imazethapyr	3		
	Imidacloprid	3		
	Iprodione	22		
	Isofenphos	22	1	0.006
	Lambda-cyhalothrin	5		
	Lindane (gamma-BHC)	1		
	Linuron	3		
	Malaoxon	22		
	Malathion	22		
	MCPA	3		
	MCPB	3		
	Metalaxyl	22	1	0.004
	Methidathion	22		
	Methiocarb	3		

Orange	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methomyl	3		
	Methoxychlor	1		
	Methyl bromide	34		
	Methyl iodide	22		
	Methyl paraoxon	22		
	Methyl parathion	22		
	Metolachlor	22	1	0.006
	Metribuzin	22		
	Metsulfuron-methyl	3		
	Molinate	6		
	Myclobutanil	22		
	N(4-Chlorophenyl)N methylurea	3		
	Naphthalene	34		
	Neburon	3		
	Nicosulfuron	3		
	Norflurazon	3		
	OIET	3		
	Ortho-dichlorobenzene	12		
	Oryzalin	3		
	Oxamyl	4		
	Pendimethalin	22		
	Permethrin	22		
	Phorate	22		
	Phoratoxon	22		
	Phosmet	20		
	Phosmet oxon	18		
	Picloram	4		
	Prometon	22		
	Prometryn	22		
	Propanil	5		
	Propham	3		
	Propoxur	3		
	Propyzamide	22		
	S,S,S-Tributyl phosphorotrithioate	17		
	Siduron	3		
	Simazine	23		
	Sulfometuron methyl	3		
	Tebuthiuron	22		
	Terbacil	3		
	Terbufos	22		
	Terbufos oxon sulfone	22		
	Terbuthylazine	22		
	Thiobencarb	6		
	Toxaphene	1		
	trans-Propiconazole	5		
	Triclopyr, triethylamine salt	3		
	Trifluralin	22		

Orange	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Xylene	12		

Plumas	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	12		
	1,2,4-Trichlorobenzene	12		
	1,2-D	20		
	1,3-D	17		
	2,6-Diethylaniline	8		
	3,4-Dichloroanaline	8		
	4-Chloro-ortho-cresol	8		
	Acetochlor	8		
	Alachlor	8		
	Alachlor 2nd amide	8		
	Atrazine	8		
	Azinphos-methyl	8		
	Azinphos-methyl oxon	8		
	Benefin	8		
	Carbaryl	8		
	Carbon disulfide	8		
	Chlorpyrifos	8		
	Chlorpyrifos oxon	8		
	Cyfluthrin	8		
	Cypermethrin	8		
	DBCP	8		
	DCPA	8		
	DDVP	8		
	DEA	8		
	Desulfinyl fipronil	8		
	Desulfinyl fipronil amide	8		
	Diazinon	8		
	Dicrotophos	8		
	Dieldrin	8		
	Dimethoate	8		
	Ethion	8		
	Ethion monoxon	8		
	Fenamiphos	8		
	Fenamiphos sulfone	8		
	Fenamiphos sulfoxide	8		
	Fipronil	8		
	Fipronil sulfide	8		
	Fipronil sulfone	8		
	Fonofos	8		
	Hexazinone	8		
	Iprodione	8		
	Isofenphos	8		

Plumas	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Malaoxon	8		
	Malathion	8		
	Metalaxyl	8		
	Methidathion	8		
	Methyl bromide	20		
	Methyl iodide	8		
	Methyl paraoxon	8		
	Methyl parathion	8		
	Metolachlor	8		
	Metribuzin	8		
	Myclobutanil	8		
	Naphthalene	17		
	Ortho-dichlorobenzene	12		
	Pendimethalin	8		
	Permethrin	8		
	Phorate	8		
	Phoratoxon	8		
	Phosmet	8		
	Phosmet oxon	6		
	Prometon	8		
	Prometryn	8		
	Propyzamide	8		
	S,S,S-Tributyl phosphorotrithioate	8		
	Simazine	8		
	Tebuthiuron	8		
	Terbufos	8		
	Terbufos oxon sulfone	8		
	Terbuthylazine	8		
	Trifluralin	8		
	Xylene	12		

Riverside	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	159		
	1,2,4-Trichlorobenzene	159		
	1,2-D	275	10	0.09 - 0.91
	1,3-D	208		
	2,4,5-TP	53		
	2,4-D	72		
	2,4-D methyl ester	19		
	2,4-DB acid	90		
	2,6-Diethylaniline	115		
	3,4-Dichloroanaline	116	10	0.003 - 0.018
	3,5-Dichloroaniline	44		
	3-Hydroxycarbofuran	122		
	4-Chloro-ortho-cresol	116		

Riverside	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	ACET	88	11	0.01 - 0.72
	Acetochlor	116	1	0.002
	Acifluorfen, sodium salt	90		
	Alachlor	177		
	Alachlor 2nd amide	116		
	Aldicarb	122		
	Aldicarb sulfone	122		
	Aldicarb sulfoxide	122		
	Aldrin	31		
	Atrazine	193	44	0.003 - 0.11
	Azinphos-methyl	115		
	Azinphos-methyl oxon	114		
	Bendiocarb	90		
	Benefin	115		
	Benomyl	90		
	Bensulfuron methyl	90		
	Bentazon	143		
	Bromacil	89	16	0.01 - 1.99
	Bromoxynil phenol	85		
	Carbaryl	148		
	Carbofuran	147		
	Carbon disulfide	122		
	Chloramben methyl ester	90		
	Chlordane	56		
	Chlorimuron ethyl	90		
	Chlorpyrifos	116		
	Chlorpyrifos oxon	113		
	cis-Propiconazole	90		
	Clopyralid	90		
	Cyanazine	43		
	Cycloate	89		
	Cyfluthrin	116		
	Cypermethrin	116		
	DACT	19	2	0.05 - 0.1
	Dalapon	53		
	DBCP	199	10	0.01 - 0.5
	DCPA	115	1	0.004
	DCPA acid degradates	90		
	DDVP	116		
	DEA	115	45	0.004 - 0.051
	Desulfinyl fipronil	115	3	0.003 - 0.007
	Desulfinyl fipronil amide	115	1	0.006
	Diazinon	116		
	Dicamba	117		
	Dichlorprop	90		
	Dicrotophos	114		
	Dieldrin	147		

Riverside	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Dimethoate	115		
	Dinoseb	143		
	Diphenamid	83	1	0.01
	Diquat dibromide	57		
	Disulfoton	43		
	Disulfoton sulfone	44		
	Diuron	85	10	0.01 - 0.23
	EDB	84		
	Endosulfan	43		
	Endosulfan sulfate	44		
	Endothall	53		
	Endrin	56		
	EPTC	43		
	Ethion	115		
	Ethion monoxon	116		
	Ethoprop	43		
	Fenamiphos	116		
	Fenamiphos sulfone	116		
	Fenamiphos sulfoxide	114		
	Fipronil	115	1	0.006
	Fipronil sulfide	115	1	0.005
	Fipronil sulfone	115		
	Flumetsulam	90		
	Fluometuron	90		
	Fonofos	115		
	Fonofos oxon	21		
	Glyphosate, isopropylamine salt	57		
	Heptachlor	56		
	Heptachlor epoxide	56		
	Hexachlorobenzene	57		
	Hexazinone	115	1	0.01
	Imazaquin	89		
	Imazethapyr	90	1	0.01
	Imidacloprid	90		
	Iprodione	116		
	Isofenphos	116		
	Lambda-cyhalothrin	44		
	Lindane (gamma-BHC)	56		
	Linuron	89		
	Malaoxon	116		
	Malathion	116		
	MCPA	89		
	MCPB	89		
	Metalaxyl	116	4	0.005 - 0.011
	Methidathion	116		
	Methiocarb	121		
	Methomyl	122		

Riverside	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methoxychlor	56		
	Methyl bromide	211		
	Methyl iodide	116		
	Methyl paraoxon	116		
	Methyl parathion	115		
	Metolachlor	116	2	0.002 - 0.004
	Metribuzin	115		
	Metsulfuron-methyl	90		
	Molinate	105		
	Myclobutanil	116	1	0.005
	N(4-Chlorophenyl)N methylurea	89		
	Naphthalene	211		
	Neburon	90		
	Nicosulfuron	90		
	Norflurazon	90		
	OIET	90	2	0.005 - 0.011
	Ortho-dichlorobenzene	159		
	Oryzalin	90		
	Oxamyl	147		
	Oxyfluorfen	44		
	Pendimethalin	115		
	Permethrin	115		
	Phorate	115		
	Phoratoxon	116		
	Phosmet	112		
	Phosmet oxon	102		
	Picloram	132		
	Prometon	115	11	0.006 - 0.017
	Prometryn	115	1	0.008
	Propachlor	32		
	Propanil	43		
	Propargite	43		
	Propham	90		
	Propoxur	122		
	Propyzamide	115		
	S,S,S-Tributyl phosphorotrithioate	95		
	Siduron	87	3	0.01
	Simazine	192	47	0.004 - 0.139
	Sulfometuron methyl	90		
	Tebuthiuron	115	2	0.01 - 0.02
	Tefluthrin	44		
	Terbacil	89		
	Terbufos	115		
	Terbufos oxon sulfone	116		
	Terbuthylazine	115	1	0.01
	Thiobencarb	105		
	Toxaphene	56		

Riverside	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	trans-Propiconazole	43		
	Triclopyr, triethylamine salt	90		
	Trifluralin	115		
	Xylene	159		

Sacramento	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	151		
	1,2,4-Trichlorobenzene	151		
	1,2-D	200	1	0.12
	1,3-D	117		
	2,4,5-T	17		
	2,4,5-TP	17		
	2,4-D	17		
	2,4-DB acid	24		
	2,6-Diethylaniline	49		
	3,4-Dichloroanaline	49	3	0.003 - 0.062
	3-Hydroxycarbofuran	41		
	4(2,4-DB), dimethylamine salt	1		
	4-Chloro-ortho-cresol	49		
	ACET	24	1	0.01
	Acetochlor	49		
	Acifluorfen, sodium salt	25		
	Alachlor	67		
	Alachlor 2nd amide	49		
	Aldicarb	41		
	Aldicarb sulfone	41		
	Aldicarb sulfoxide	41		
	Aldrin	16		
	Atrazine	67	5	0.002 - 0.011
	Azinphos-methyl	49		
	Azinphos-methyl oxon	49		
	Bendiocarb	24		
	Benefin	49		
	Benomyl	24		
	Bensulfuron methyl	24		
	Bentazon	41	2	0.02 - 0.03
	Bromacil	39	1	0.01
	Bromoxynil phenol	24		
	Butachlor	16		
	Carbaryl	66		
	Carbofuran	58		
	Carbon disulfide	49	9	0.01 - 0.1
	Chloramben methyl ester	24		
	Chlordane	18		
	Chlorimuron ethyl	24		

Sacramento	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Chlorothalonil	16		
	Chlorpyrifos	49		
	Chlorpyrifos oxon	49		
	cis-Propiconazole	41		
	Clopyralid	24		
	Cycloate	24		
	Cyfluthrin	49		
	Cypermethrin	49		
	Dalapon	17		
	DBCP	70	2	0.02 - 0.06
	DCPA	49		
	DCPA acid degradates	25		
	DDVP	49		
	DEA	49	11	0.002 - 0.046
	Desulfinyl fipronil	49		
	Desulfinyl fipronil amide	49		
	Diazinon	65		
	Dicamba	41		
	Dichlorprop	24		
	Dichlorprop, butoxyethanol ester	1		
	Dicrotophos	49		
	Dieldrin	65	1	0.004
	Dimethoate	65		
	Dinoseb	41		
	Diphenamid	24	1	0.01
	Diquat dibromide	17		
	Diuron	24	1	0.03
	EDB	21		
	Endothall	17		
	Endrin	18		
	Ethion	49		
	Ethion monoxon	49		
	Fenamiphos	49		
	Fenamiphos sulfone	49		
	Fenamiphos sulfoxide	45		
	Fipronil	49		
	Fipronil sulfide	49		
	Fipronil sulfone	49		
	Flumetsulam	24		
	Fluometuron	24		
	Fonofos	49		
	Fonofos oxon	5		
	Glyphosate, isopropylamine salt	17		
	Heptachlor	18		
	Heptachlor epoxide	18		
	Hexachlorobenzene	18		
	Hexazinone	49	1	0.012

Sacramento	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Imazaquin	24		
	Imazethapyr	24		
	Imidacloprid	24		
	Iprodione	49		
	Isofenphos	49		
	Lambda-cyhalothrin	41		
	Lindane (gamma-BHC)	18		
	Linuron	24		
	Malaoxon	49		
	Malathion	49		
	MCPA	24		
	MCPB	24		
	Metalaxyl	49	1	0.006
	Methidathion	49		
	Methiocarb	25		
	Methomyl	41		
	Methoxychlor	18		
	Methyl bromide	79		
	Methyl iodide	49		
	Methyl paraoxon	49		
	Methyl parathion	49		
	Metolachlor	65		
	Metribuzin	65		
	Metsulfuron-methyl	23		
	Molinate	59	2	0.016
	Myclobutanil	49		
	N(4-Chlorophenyl)N methylurea	24		
	Naphthalene	75	1	0.3
	Neburon	24		
	Nicosulfuron	24		
	Norflurazon	24		
	OIET	24	2	0.033 - 0.042
	Ortho-dichlorobenzene	151		
	Oryzalin	24		
	Oxamyl	41	8	0.01 - 0.08
	Pendimethalin	49		
	Permethrin	49		
	Phorate	49		
	Phoratoxon	49		
	Phosmet	48		
	Phosmet oxon	46		
	Picloram	38		
	Prometon	49		
	Prometryn	49		
	Propachlor	16		
	Propanil	41		
	Propham	24		

Sacramento	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propoxur	24		
	Propyzamide	48		
	Siduron	24		
	Simazine	67	2	0.009 - 0.012
	Sulfometuron methyl	24		
	Tebuthiuron	49		
	Terbacil	24		
	Terbufos	49		
	Terbufos oxon sulfone	49		
	Terbuthylazine	49		
	Thiobencarb	108		
	Toxaphene	18		
	trans-Propiconazole	41		
	Triclopyr, triethylamine salt	24		
	Trifluralin	65		
	Xylene	151		

San Benito	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	15		
	1,2,4-Trichlorobenzene	15		
	1,2-D	25		
	1,3-D	20		
	2,4,5-T	14		
	2,4,5-TP	19		
	2,4-D	19		
	2,6-Diethylaniline	10		
	3,4-Dichloroanaline	10		
	3-Hydroxycarbofuran	13		
	4-Chloro-ortho-cresol	10		
	Acetochlor	10		
	Alachlor	30		
	Alachlor 2nd amide	10		
	Aldicarb	13		
	Aldicarb sulfone	13		
	Aldicarb sulfoxide	13		
	Aldrin	2		
	Atrazine	30		
	Azinphos-methyl	10		
	Azinphos-methyl oxon	10		
	Benefin	10		
	Bentazon	19		
	Bromacil	8		
	Butachlor	8		
	Carbaryl	23		
	Carbofuran	19		

San Benito	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Carbon disulfide	10		
	Chlordane	2		
	Chlorothalonil	2		
	Chlorpyrifos	10		
	Chlorpyrifos oxon	10		
	Cyfluthrin	10		
	Cypermethrin	10		
	Dalapon	19		
	DBCP	12		
	DCPA	10		
	DDVP	10		
	DEA	10	1	0.008
	Desulfinyl fipronil	10		
	Desulfinyl fipronil amide	10		
	Diazinon	18		
	Dicamba	14		
	Dicrotophos	10		
	Dieldrin	12		
	Dimethoate	18		
	Dinoseb	19		
	Diquat dibromide	19		
	EDB	3		
	Endothall	3		
	Endrin	2		
	Ethion	10		
	Ethion monoxon	10		
	Fenamiphos	10		
	Fenamiphos sulfone	10		
	Fenamiphos sulfoxide	10		
	Fipronil	10		
	Fipronil sulfide	10		
	Fipronil sulfone	10		
	Fonofos	10		
	Heptachlor	2		
	Heptachlor epoxide	2		
	Hexachlorobenzene	2		
	Hexazinone	10		
	Iprodione	10		
	Isofenphos	10		
	Lindane (gamma-BHC)	3		
	Malaoxon	10		
	Malathion	10		
	Metalaxyl	10		
	Methidathion	10		
	Methomyl	13		
	Methoxychlor	2		
	Methyl bromide	20		

San Benito	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methyl iodide	10		
	Methyl paraoxon	10		
	Methyl parathion	10		
	Metolachlor	18		
	Metribuzin	18		
	Molinate	13		
	Myclobutanil	10		
	Naphthalene	20		
	Ortho-dichlorobenzene	15		
	Oxamyl	19		
	Pendimethalin	10		
	Permethrin	10		
	Phorate	10		
	Phoratoxon	10		
	Phosmet	10		
	Phosmet oxon	10		
	Picloram	19		
	Prometon	10		
	Prometryn	10		
	Propachlor	8		
	Propyzamide	10		
	S,S,S-Tributyl phosphorotrithioate	10		
	Simazine	30	2	0.006
	Tebuthiuron	10		
	Terbufos	10		
	Terbufos oxon sulfone	10		
	Terbuthylazine	10		
	Thiobencarb	13		
	Toxaphene	2		
	Trifluralin	12		
	Xylene	15		

San Bernardino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	259		
	1,2,4-Trichlorobenzene	259		
	1,2-D	405		
	1,3-D	328		
	2,4,5-T	37		
	2,4,5-TP	171		
	2,4-D	180		
	2,4-D methyl ester	9		
	2,4-DB acid	45		
	2,6-Diethylaniline	138		
	3,4-Dichloroanaline	138	7	0.004 - 0.057
	3,5-Dichloroaniline	46		

San Bernardino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	3-Hydroxycarbofuran	108		
	4(2,4-DB), dimethylamine salt	37		
	4-Chloro-ortho-cresol	138		
	ACET	45	9	0.01 - 0.21
	Acetochlor	140		
	Acifluorfen, sodium salt	61		
	Acrylonitrile	1		
	Alachlor	326		
	Alachlor 2nd amide	138		
	Aldicarb	108		
	Aldicarb sulfone	108		
	Aldicarb sulfoxide	108		
	Aldrin	69		
	Ametryne	21		
	Atrazine	337	30	0.004 - 0.053
	Azinphos-methyl	138		
	Azinphos-methyl oxon	138		
	Bendiocarb	45		
	Benefin	138		
	Benomyl	45		
	Bensulfuron methyl	45		
	Bentazon	216		
	BHC (other than gamma isomer)	16		
	Bromacil	71	11	0.01 - 0.22
	Bromoxynil phenol	45		
	Butachlor	47		
	Butylate	21		
	Captan	16		
	Carbaryl	204		
	Carbofuran	207		
	Carbon disulfide	223	1	2.7
	Carbophenothion	16		
	Chloramben methyl ester	45		
	Chlordane	168		
	Chlorimuron ethyl	45		
	Chloroneb	21		
	Chlorothalonil	16		
	Chlorpropham	37		
	Chlorpyrifos	159		
	Chlorpyrifos oxon	136		
	cis-Propiconazole	46		
	Clopyralid	45		
	Cyanazine	62		
	Cycloate	66		
	Cyfluthrin	138		
	Cypermethrin	138		
	DACT	9		

San Bernardino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Dalapon	171		
	DBCP	451	29	0.01 - 0.5
	DCPA	138		
	DCPA acid degradates	95		
	DDD	16		
	DDE	18		
	DDT	16		
	DDVP	138		
	DEA	138	32	0.005 - 0.047
	Desulfinyl fipronil	138	2	0.003 - 0.004
	Desulfinyl fipronil amide	138		
	Diazinon	164		
	Dicamba	108		
	Dichlorprop	45		
	Dichlorprop, butoxyethanol ester	16		
	Dicrotophos	138		
	Dieldrin	207	2	0.004 - 0.006
	Dimethoate	164		
	Dinoseb	215	1	0.01
	Diphenamid	77	1	0.01
	Diquat dibromide	166		
	Disulfoton	62		
	Disulfoton sulfone	46		
	Diuron	44	7	0.01 - 0.19
	EDB	294		
	Endosulfan	62		
	Endosulfan sulfate	62		
	Endothall	160		
	Endrin	169		
	Endrin aldehyde	16		
	EPTC	64		
	Ethion	138		
	Ethion monoxon	138		
	Ethoprop	46		
	Fenamiphos	138		
	Fenamiphos sulfone	138		
	Fenamiphos sulfoxide	136		
	Fipronil	138	1	0.006
	Fipronil sulfide	138	1	0.005
	Fipronil sulfone	138		
	Flumetsulam	45		
	Fluometuron	45		
	Fonofos	138		
	Glyphosate, isopropylamine salt	160		
	Heptachlor	169		
	Heptachlor epoxide	169		
	Hexachlorobenzene	168		

San Bernardino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Hexazinone	138		
	Imazaquin	45		
	Imazethapyr	45		
	Imidacloprid	45	1	0.005
	Iprodione	138		
	Isofenphos	138		
	Lambda-cyhalothrin	46		
	Lindane (gamma-BHC)	169		
	Linuron	45		
	Malaoxon	138		
	Malathion	138		
	MCPA	45		
	MCPB	45		
	Metalaxyl	138		
	Methidathion	138		
	Methiocarb	87		
	Methomyl	108		
	Methoxychlor	169		
	Methyl bromide	324		
	Methyl iodide	146		
	Methyl paraoxon	138		
	Methyl parathion	138		
	Metolachlor	185	2	0.011 - 0.16
	Metribuzin	185		
	Metsulfuron-methyl	45		
	Molinate	234		
	Myclobutanil	138		
	N(4-Chlorophenyl)N methylurea	45	1	0.01
	Naphthalene	324		
	Napropamide	21		
	Neburon	45		
	Nicosulfuron	45		
	Norflurazon	44	1	0.02
	OIET	45	1	0.008
	Ortho-dichlorobenzene	259		
	Oryzalin	45		
	Oxamyl	206		
	Oxyfluorfen	46		
	Paraquat dichloride	21		
	Pendimethalin	138	1	0.039
	Permethrin	138		
	Phorate	138		
	Phoratoxon	138		
	Phosmet	135		
	Phosmet oxon	127		
	Picloram	215		
	Prometon	154	5	0.006 - 0.015

San Bernardino	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Prometryn	179		
	Propachlor	63		
	Propanil	46		
	Propargite	46		
	Propazine	21		
	Propham	45		
	Propoxur	87		
	Propyzamide	138		
	S,S,S-Tributyl phosphorotrithioate	138		
	Siduron	44	6	0.01
	Simazine	341	31	0.004 - 0.137
	Sulfometuron methyl	45		
	Tebuthiuron	138	2	0.01
	Tefluthrin	46		
	Terbacil	63		
	Terbufos	138		
	Terbufos oxon sulfone	138		
	Terbuthylazine	137		
	Thiobencarb	234		
	Toxaphene	168		
	trans-Propiconazole	46		
	Triadimefon	21		
	Triclopyr, triethylamine salt	45		
	Trifluralin	175		
	Vernolate	21		
	Xylene	259		

San Diego	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	35		
	1,2,4-Trichlorobenzene	35		
	1,2-D	77	1	1.19
	1,3-D	73		
	2,4,5-T	7		
	2,4,5-TP	15		
	2,4-D	15		
	2,4-DB acid	12		
	2,6-Diethylaniline	46		
	3,4-Dichloroanaline	46	1	0.013
	3,5-Dichloroaniline	2		
	3-Hydroxycarbofuran	25		
	4(2,4-DB), dimethylamine salt	7		
	4-Chloro-ortho-cresol	46		
	ACET	12	1	0.03
	Acetochlor	46		
	Acifluorfen, sodium salt	18		

San Diego	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Alachlor	67		
	Alachlor 2nd amide	46		
	Aldicarb	25		
	Aldicarb sulfone	25		
	Aldicarb sulfoxide	25		
	Aldrin	15		
	Ametryne	7		
	Atrazine	77	2	0.007 - 0.085
	Azinphos-methyl	46		
	Azinphos-methyl oxon	46		
	Bendiocarb	12		
	Benefin	46		
	Benomyl	12		
	Bensulfuron methyl	12		
	Bentazon	26	1	0.01
	BHC (other than gamma isomer)	7		
	Bromacil	18		
	Bromoxynil phenol	12		
	Butachlor	7		
	Butylate	7		
	Carbaryl	59		
	Carbofuran	28		
	Carbon disulfide	64	1	0.26
	Chloramben methyl ester	12		
	Chlordane	17		
	Chlorimuron ethyl	12		
	Chloroneb	7		
	Chlorothalonil	7		
	Chlorpropham	7		
	Chlorpyrifos	52		
	Chlorpyrifos oxon	46		
	cis-Propiconazole	14		
	Clopyralid	12		
	Cyanazine	2		
	Cycloate	18		
	Cyfluthrin	46		
	Cypermethrin	46		
	Dalapon	15		
	DBCP	71	1	0.04
	DCPA	46		
	DCPA acid degradates	24		
	DDD	7		
	DDE	7		
	DDT	7		
	DDVP	46		
	DEA	46	7	0.004 - 0.013
	Desulfinyl fipronil	46		

San Diego	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Desulfinyl fipronil amide	46		
	Diazinon	52		
	Dicamba	25		
	Dichlorprop	12		
	Dichlorprop, butoxyethanol ester	7		
	Dicrotophos	46		
	Dieldrin	60		
	Dimethoate	46		
	Dinoseb	26		
	Diphenamid	18		
	Diquat dibromide	17		
	Disulfoton	2		
	Disulfoton sulfone	2		
	Diuron	12	1	0.06
	EDB	29		
	Endosulfan	9		
	Endosulfan sulfate	9		
	Endothall	15		
	Endrin	16		
	Endrin aldehyde	7		
	EPTC	2		
	Ethion	46		
	Ethion monoxon	46		
	Ethoprop	2		
	Fenamiphos	46		
	Fenamiphos sulfone	46		
	Fenamiphos sulfoxide	46		
	Fipronil	46		
	Fipronil sulfide	46		
	Fipronil sulfone	46		
	Flumetsulam	9		
	Fluometuron	12		
	Fonofos	46		
	Fonofos oxon	35		
	Glyphosate, isopropylamine salt	16		
	Heptachlor	16		
	Heptachlor epoxide	16		
	Hexachlorobenzene	16		
	Hexazinone	46		
	Imazaquin	12		
	Imazethapyr	12	1	0.07
	Imidacloprid	12		
	Iprodione	46		
	Isofenphos	46		
	Lambda-cyhalothrin	2		
	Lindane (gamma-BHC)	16		
	Linuron	12		

San Diego	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Malaoxon	46		
	Malathion	46		
	MCPA	12		
	MCPB	12		
	Metalaxyl	46	1	0.009
	Methidathion	46		
	Methiocarb	25		
	Methomyl	25		
	Methoxychlor	16		
	Methyl bromide	74		
	Methyl iodide	46		
	Methyl paraoxon	46		
	Methyl parathion	46		
	Metolachlor	52	2	0.008 - 0.011
	Metribuzin	52		
	Metsulfuron-methyl	12		
	Molinate	24		
	Myclobutanil	46	1	0.006
	N(4-Chlorophenyl)N methylurea	12		
	Naphthalene	74		
	Napropamide	7		
	Neburon	12		
	Nicosulfuron	12		
	Norflurazon	12		
	OIET	12	1	0.024
	Ortho-dichlorobenzene	35		
	Oryzalin	12		
	Oxamyl	26		
	Oxyfluorfen	2		
	Pendimethalin	46		
	Permethrin	48		
	Phorate	46		
	Phoratoxon	46		
	Phosmet	46		
	Phosmet oxon	46		
	Picloram	26		
	Prometon	46	6	0.006 - 0.032
	Prometryn	52		
	Propachlor	10		
	Propanil	2		
	Propargite	2		
	Propazine	7		
	Propham	12		
	Propoxur	25		
	Propyzamide	46		
	S,S,S-Tributyl phosphorotrithioate	11		
	Siduron	12		

San Diego	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Simazine	78	13	0.006 - 0.181
	Sulfometuron methyl	12		
	Tebuthiuron	46	4	0.02 - 0.23
	Tefluthrin	2		
	Terbacil	18		
	Terbufos	46		
	Terbufos oxon sulfone	46		
	Terbuthylazine	46		
	Terbutryn	3		
	Thiobencarb	24		
	Toxaphene	17		
	trans-Propiconazole	2		
	Triadimefon	7		
	Triclopyr, triethylamine salt	12		
	Trifluralin	52		
	Vernolate	7		
	Xylene	35		

San Francisco	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,2-D	6		
	1,3-D	6		
	2,4-D	6		
	2,4-D methyl ester	6		
	2,4-DB acid	6		
	2,6-Diethylaniline	6		
	3,4-Dichloroanaline	6		
	3-Hydroxycarbofuran	6		
	4-Chloro-ortho-cresol	6		
	ACET	6		
	Acetochlor	6		
	Acifluorfen, sodium salt	6		
	Alachlor	6		
	Alachlor 2nd amide	6		
	Aldicarb	4		
	Aldicarb sulfone	6		
	Aldicarb sulfoxide	6		
	Atrazine	6		
	Azinphos-methyl	6		
	Azinphos-methyl oxon	6		
	Bendiocarb	6		
	Benefin	6		
	Benomyl	6		
	Bensulfuron methyl	6		
	Bentazon	6		
	Bromacil	6		

San Francisco	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bromoxynil phenol	6		
	Carbaryl	6		
	Carbofuran	6		
	Carbon disulfide	6		
	Chloramben methyl ester	6		
	Chlorimuron ethyl	6		
	Chlorpyrifos	6		
	Chlorpyrifos oxon	6		
	cis-Propiconazole	6		
	Clopyralid	6		
	Cycloate	6		
	Cyfluthrin	6		
	Cypermethrin	6		
	DACT	4		
	DBCP	6		
	DCPA	6		
	DCPA acid degradates	6		
	DDVP	6		
	DEA	6		
	Desulfinyl fipronil	6		
	Desulfinyl fipronil amide	6		
	Diazinon	6		
	Dicamba	6		
	Dichlorprop	6		
	Dicrotophos	6		
	Dieldrin	6		
	Dimethoate	6		
	Dinoseb	6		
	Diphenamid	6		
	Diuron	6		
	Ethion	6		
	Ethion monoxon	6		
	Fenamiphos	6		
	Fenamiphos sulfone	6		
	Fenamiphos sulfoxide	6		
	Fipronil	6		
	Fipronil sulfide	6		
	Fipronil sulfone	6		
	Flumetsulam	6		
	Fluometuron	6		
	Fonofos	6		
	Hexazinone	6		
	Imazaquin	6		
	Imazethapyr	6		
	Imidacloprid	6		
	Iprodione	6		
	Isofenphos	6		

San Francisco	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Linuron	6		
	Malaoxon	6		
	Malathion	6		
	MCPA	6		
	MCPB	6		
	Metalaxyl	6		
	Methidathion	6		
	Methiocarb	6		
	Methomyl	4		
	Methyl bromide	6		
	Methyl iodide	6		
	Methyl paraoxon	6		
	Methyl parathion	6		
	Metolachlor	6		
	Metribuzin	6		
	Metsulfuron-methyl	6		
	Myclobutanil	6		
	N(4-Chlorophenyl)N methylurea	6		
	Naphthalene	6		
	Neburon	6		
	Nicosulfuron	6		
	Norflurazon	6		
	OIET	6		
	Oryzalin	6		
	Oxamyl	4		
	Pendimethalin	6		
	Permethrin	6		
	Phorate	6		
	Phoratoxon	6		
	Phosmet	6		
	Phosmet oxon	5		
	Picloram	6		
	Prometon	6		
	Prometryn	6		
	Propham	6		
	Propoxur	6		
	Propyzamide	6		
	S,S,S-Tributyl phosphorotrithioate	6		
	Siduron	6		
	Simazine	6		
	Sulfometuron methyl	6		
	Tebuthiuron	6		
	Terbacil	6		
	Terbufos	6		
	Terbufos oxon sulfone	6		
	Terbuthylazine	6		
	Triclopyr, triethylamine salt	6		

San Francisco	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Trifluralin	6		

San Joaquin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	34		
	1,2,4-Trichlorobenzene	34		
	1,2-D	80	3	0.02 - 0.2
	1,3-D	61		
	2,3-Dichloropropene	1		
	2,4,5-TP	10		
	2,4-D	10		
	2,4-DB acid	13		
	2,6-Diethylaniline	46	2	0.004
	3,4-Dichloroanaline	46		
	3-Hydroxycarbofuran	23		
	4-Chloro-ortho-cresol	46		
	ACET	14	3	0.02 - 0.08
	Acetochlor	46		
	Acifluorfen, sodium salt	13		
	Alachlor	57		
	Alachlor 2nd amide	46		
	Aldicarb	23		
	Aldicarb sulfone	23		
	Aldicarb sulfoxide	23		
	Atrazine	62	4	0.008 - 0.081
	Azinphos-methyl	46		
	Azinphos-methyl oxon	46		
	Bendiocarb	13		
	Benefin	46		
	Benomyl	13		
	Bensulfuron methyl	13		
	Bentazon	23		
	Bromacil	15		
	Bromoxynil phenol	13		
	Butachlor	1		
	Carbaryl	56		
	Carbofuran	23		
	Carbon disulfide	47	1	0.01
	Chloramben methyl ester	13		
	Chlordane	10		
	Chlorimuron ethyl	13		
	Chlorothalonil	5		
	Chlorpyrifos	46		
	Chlorpyrifos oxon	46		
	cis-Propiconazole	13		
	Clopyralid	13		

San Joaquin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Cycloate	13		
	Cyfluthrin	46		
	Cypermethrin	46		
	DACT	1		
	Dalapon	10		
	DBCP	128	22	0.02 - 1.43
	DCPA	46		
	DCPA acid degradates	22		
	DDVP	46		
	DEA	47	7	0.005 - 0.035
	Desulfinyl fipronil	46		
	Desulfinyl fipronil amide	46		
	Diazinon	47		
	Dicamba	23		
	Dichlorprop	13		
	Dicrotophos	46		
	Dieldrin	46		
	Dimethoate	47		
	Dinoseb	23		
	Diphenamid	13	1	0.02
	Diquat dibromide	10		
	Diuron	14		
	DSMN	1		
	EDB	81	1	0.02 - 0.04
	Endothall	10		
	Endrin	10		
	Ethion	46		
	Ethion monoxon	46		
	Fenamiphos	46		
	Fenamiphos sulfone	46		
	Fenamiphos sulfoxide	43		
	Fipronil	46		
	Fipronil sulfide	46		
	Fipronil sulfone	46		
	Flumetsulam	13		
	Fluometuron	13		
	Fonofos	46		
	Fonofos oxon	24		
	Glyphosate, isopropylamine salt	17		
	Heptachlor	10		
	Heptachlor epoxide	10		
	Hexachlorobenzene	10		
	Hexazinone	47	2	0.008 - 0.066
	Imazaquin	12		
	Imazethapyr	13		
	Imidacloprid	13		
	Iprodione	46		

San Joaquin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Isofenphos	46		
	Lindane (gamma-BHC)	10		
	Linuron	13		
	Malaoxon	46		
	Malathion	46		
	MCPA	13		
	MCPB	13		
	Metalaxyl	46		
	Methidathion	46		
	Methiocarb	13		
	Methomyl	23		
	Methoxychlor	10		
	Methyl bromide	67		
	Methyl iodide	46		
	Methyl paraoxon	46		
	Methyl parathion	46		
	Metolachlor	47	2	0.006 - 0.012
	Metribuzin	47		
	Metsulfuron-methyl	13		
	Molinate	11		
	Myclobutanil	46		
	N(4-Chlorophenyl)N methylurea	13		
	Naphthalene	67		
	Neburon	13		
	Nicosulfuron	13		
	Norflurazon	14		
	OIET	13		
	Ortho-dichlorobenzene	34		
	Oryzalin	13		
	Oxamyl	23		
	Paraquat dichloride	7		
	Pendimethalin	46		
	Permethrin	46		
	Phorate	46	1	0.004
	Phoratoxon	46		
	Phosmet	46		
	Phosmet oxon	44		
	Picloram	23		
	Prometon	47		
	Prometryn	46		
	Propachlor	1		
	Propham	13		
	Propoxur	13		
	Propyzamide	46		
	Siduron	13		
	Simazine	62	8	0.006 - 0.058
	Sulfometuron methyl	13		

San Joaquin	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Tebuthiuron	47	1	0.03
	Tebuthiuron degradate 104	1		
	Tebuthiuron degradate 106	1		
	Tebuthiuron degradate 107	1		
	Tebuthiuron degradate 108	1		
	Terbacil	13		
	Terbufos	46		
	Terbufos oxon sulfone	46		
	Terbuthylazine	46		
	Thiobencarb	11		
	Toxaphene	10		
	Triclopyr, triethylamine salt	13		
	Trifluralin	46	1	0.005
	Xylene	34		

San Luis Obispo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	53		
	1,2,4-Trichlorobenzene	53		
	1,2-D	82		
	1,3-D	73		
	2,4-D	19		
	2,4-D methyl ester	19		
	2,4-DB acid	21		
	2,6-Diethylaniline	29		
	3,4-Dichloroanaline	29		
	3-Hydroxycarbofuran	21		
	4-Chloro-ortho-cresol	29		
	ACET	21		
	Acetochlor	29		
	Acifluorfen, sodium salt	21		
	Alachlor	36		
	Alachlor 2nd amide	29		
	Aldicarb	21		
	Aldicarb sulfone	21		
	Aldicarb sulfoxide	21		
	Aldrin	1		
	Atrazine	42	4	0.005 - 0.011
	Azinphos-methyl	29		
	Azinphos-methyl oxon	29		
	Bendiocarb	21		
	Benefin	29		
	Benomyl	21		
	Bensulfuron methyl	21		
	Bentazon	21		
	Bromacil	20	1	0.08

San Luis Obispo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bromoxynil phenol	21		
	Carbaryl	29		
	Carbofuran	21		
	Carbon disulfide	34		
	Chloramben methyl ester	21		
	Chlordane	1		
	Chlorimuron ethyl	21		
	Chlorpyrifos	29		
	Chlorpyrifos oxon	29		
	cis-Propiconazole	21		
	Clopyralid	21		
	Cycloate	21		
	Cyfluthrin	29		
	Cypermethrin	29		
	DBCP	29		
	DCPA	29	1	0.003
	DCPA acid degradates	21		
	DDVP	28		
	DEA	29	6	0.005 - 0.01
	Desulfinyl fipronil	29		
	Desulfinyl fipronil amide	29		
	Diazinon	29		
	Dicamba	21		
	Dichlorprop	21		
	Dicrotophos	29		
	Dieldrin	30		
	Dimethoate	29		
	Dinoseb	21		
	Diphenamid	21		
	Diuron	20	1	0.01
	Ethion	29		
	Ethion monoxon	29		
	Fenamiphos	29		
	Fenamiphos sulfone	29		
	Fenamiphos sulfoxide	29		
	Fipronil	29		
	Fipronil sulfide	29		
	Fipronil sulfone	29		
	Flumetsulam	21		
	Fluometuron	21		
	Fonofos	29		
	Hexachlorobenzene	1		
	Hexazinone	29		
	Imazaquin	21		
	Imazethapyr	21		
	Imidacloprid	21		
	Iprodione	29		

San Luis Obispo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Isofenphos	29		
	Linuron	21		
	Malaoxon	29		
	Malathion	29		
	MCPA	21		
	MCPB	21		
	Metalaxyl	29	1	0.008 - 0.01
	Methidathion	29		
	Methiocarb	21		
	Methomyl	21		
	Methyl bromide	64		
	Methyl iodide	29		
	Methyl paraoxon	29		
	Methyl parathion	29		
	Metolachlor	29	1	0.007
	Metribuzin	29		
	Metsulfuron-methyl	21		
	Molinate	5		
	Myclobutanil	29		
	N(4-Chlorophenyl)N methylurea	21	1	0.01
	Naphthalene	64		
	Neburon	21		
	Nicosulfuron	21		
	Norflurazon	21		
	OIET	21		
	Ortho-dichlorobenzene	53		
	Oryzalin	21		
	Oxamyl	21		
	Pendimethalin	29		
	Permethrin	29		
	Phorate	29		
	Phoratoxon	29		
	Phosmet	27		
	Phosmet oxon	27		
	Picloram	21		
	Prometon	29		
	Prometryn	29		
	Propham	21		
	Propoxur	21		
	Propyzamide	29		
	S,S,S-Tributyl phosphorotrithioate	20		
	Siduron	21		
	Simazine	42	6	0.005 - 0.01
	Sulfometuron methyl	21		
	Tebuthiuron	29		
	Terbacil	21		
	Terbufos	29		

San Luis Obispo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Terbufos oxon sulfone	29		
	Terbuthylazine	29		
	Thiobencarb	5		
	Triclopyr, triethylamine salt	21		
	Trifluralin	29		
	Xylene	53		

San Mateo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	17		
	1,2,4-Trichlorobenzene	17		
	1,2-D	26	3	0.63 - 1.13
	1,3-D	22		
	2,4,5-T	9		
	2,4,5-TP	9		
	2,4-D	19		
	2,4-D methyl ester	9		
	2,4-DB acid	9		
	2,6-Diethylaniline	9		
	3,4-Dichloroanaline	9		
	3-Hydroxycarbofuran	18		
	4-Chloro-ortho-cresol	9		
	ACET	9		
	Acetochlor	9		
	Acifluorfen, sodium salt	9		
	Alachlor	18		
	Alachlor 2nd amide	9		
	Aldicarb	17		
	Aldicarb sulfone	18		
	Aldicarb sulfoxide	18		
	Aldrin	12		
	Atrazine	19		
	Azinphos-methyl	9		
	Azinphos-methyl oxon	9		
	Barban	3		
	Bendiocarb	9		
	Benefin	9		
	Benomyl	9		
	Bensulfuron methyl	9		
	Bentazon	18		
	Bromacil	18		
	Bromoxynil phenol	9		
	Butachlor	9		
	Carbaryl	18		
	Carbofuran	18		
	Carbon disulfide	13	1	0.04

San Mateo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Chloramben methyl ester	9		
	Chlordane	12		
	Chlorimuron ethyl	9		
	Chlorothalonil	12		
	Chlorpropham	3		
	Chlorpyrifos	9		
	Chlorpyrifos oxon	9		
	cis-Propiconazole	9		
	Clopyralid	9		
	Cycloate	9		
	Cyfluthrin	9		
	Cypermethrin	9		
	DACT	8		
	Dalapon	9		
	DBCP	22		
	DCPA	9		
	DCPA acid degradates	9		
	DDVP	9		
	DEA	9		
	Desulfinyl fipronil	9		
	Desulfinyl fipronil amide	9		
	Diazinon	18		
	Dicamba	18		
	Dichlorprop	9		
	Dicrotophos	9		
	Dieldrin	21		
	Dimethoate	18		
	Dinoseb	18		
	Diphenamid	9		
	Diquat dibromide	9		
	Diuron	14		
	EDB	13		
	Endothall	9		
	Endrin	12		
	Ethion	9		
	Ethion monoxon	9		
	Fenamiphos	9		
	Fenamiphos sulfone	9		
	Fenamiphos sulfoxide	8		
	Fipronil	9		
	Fipronil sulfide	9		
	Fipronil sulfone	9		
	Flumetsulam	9		
	Fluometuron	12		
	Fonofos	9		
	Glyphosate, isopropylamine salt	9		
	Heptachlor	12		

San Mateo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Heptachlor epoxide	12		
	Hexachlorobenzene	12		
	Hexazinone	9		
	Imazaquin	9		
	Imazethapyr	9		
	Imidacloprid	9		
	Iprodione	9		
	Isofenphos	9		
	Lindane (gamma-BHC)	12		
	Linuron	12		
	Malaoxon	9		
	Malathion	9		
	MCPA	9		
	MCPB	9		
	Metalaxyl	9		
	Methidathion	9		
	Methiocarb	9		
	Methomyl	17		
	Methoxychlor	12		
	Methyl bromide	22		
	Methyl iodide	9		
	Methyl paraoxon	9		
	Methyl parathion	9		
	Metolachlor	18		
	Metribuzin	18		
	Metsulfuron-methyl	9		
	Molinate	9		
	Monuron	3		
	Myclobutanil	9		
	N(4-Chlorophenyl)N methylurea	9		
	Naphthalene	26		
	Neburon	12		
	Nicosulfuron	9		
	Norflurazon	9		
	OIET	9		
	Ortho-dichlorobenzene	17		
	Oryzalin	9		
	Oxamyl	17		
	Pendimethalin	9		
	Permethrin	9		
	Phorate	9		
	Phoratoxon	9		
	Phosmet	9		
	Phosmet oxon	5		
	Picloram	18		
	Prometon	9		
	Prometryn	9		

San Mateo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propachlor	9		
	Propham	12		
	Propoxur	12		
	Propyzamide	9		
	S,S,S-Tributyl phosphorotrithioate	9		
	Siduron	12		
	Simazine	19		
	Sulfometuron methyl	9		
	Tebuthiuron	9		
	Terbacil	9		
	Terbufos	9		
	Terbufos oxon sulfone	9		
	Terbuthylazine	9		
	Thiobencarb	9		
	Toxaphene	12		
	Triclopyr, triethylamine salt	9		
	Trifluralin	21		
	Xylene	17		

Santa Barbara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	41		
	1,2,4-Trichlorobenzene	41		
	1,2-D	100	1	0.05
	1,3-D	91		
	2,4,5-TP	9		
	2,4-D	61		
	2,4-D methyl ester	52		
	2,4-DB acid	52		
	2,6-Diethylaniline	58		
	3,4-Dichloroanaline	58	1	0.005
	3-Hydroxycarbofuran	58		
	4-Chloro-ortho-cresol	58		
	ACET	52		
	Acetochlor	58	1	0.008
	Acifluorfen, sodium salt	52		
	Alachlor	74		
	Alachlor 2nd amide	58		
	Aldicarb	58		
	Aldicarb sulfone	58		
	Aldicarb sulfoxide	58		
	Aldrin	6		
	Atrazine	75	3	0.005 - 0.01
	Azinphos-methyl	58		
	Azinphos-methyl oxon	58		
	Bendiocarb	52		

Santa Barbara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Benefin	58		
	Benomyl	52		
	Bensulfuron methyl	52		
	Bentazon	61		
	Bromacil	53		
	Bromoxynil phenol	52		
	Butachlor	1		
	Carbaryl	65		
	Carbofuran	61		
	Carbon disulfide	64		
	Chloramben methyl ester	52		
	Chlordane	9		
	Chlorimuron ethyl	52		
	Chlorpyrifos	58		
	Chlorpyrifos oxon	58		
	cis-Propiconazole	52		
	Clopyralid	47		
	Cycloate	52		
	Cyfluthrin	58		
	Cypermethrin	58		
	Dalapon	9		
	DBCP	70		
	DCPA	58		
	DCPA acid degradates	58		
	DDVP	58		
	DEA	58	6	0.004 - 0.021
	Desulfinyl fipronil	58		
	Desulfinyl fipronil amide	58		
	Diazinon	59		
	Dicamba	58		
	Dichlorprop	52		
	Dicrotophos	58		
	Dieldrin	64		
	Dimethoate	59		
	Dinoseb	61		
	Diphenamid	52		
	Diquat dibromide	9		
	Diuron	52	1	0.02
	EDB	11		
	Endothall	9		
	Endrin	9		
	Ethion	58		
	Ethion monoxon	58		
	Fenamiphos	58		
	Fenamiphos sulfone	58		
	Fenamiphos sulfoxide	58		
	Fipronil	58		

Santa Barbara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fipronil sulfide	58	1	0.007
	Fipronil sulfone	58	1	0.007
	Flumetsulam	52		
	Fluometuron	52		
	Fonofos	58		
	Glyphosate, isopropylamine salt	9		
	Heptachlor	9		
	Heptachlor epoxide	9		
	Hexachlorobenzene	9		
	Hexazinone	58		
	Imazaquin	52		
	Imazethapyr	52		
	Imidacloprid	52		
	Iprodione	58		
	Isofenphos	58		
	Lindane (gamma-BHC)	9		
	Linuron	52		
	Malaoxon	58		
	Malathion	58		
	MCPA	52		
	MCPB	52		
	Metalaxyl	59	1	0.007
	Methidathion	58		
	Methiocarb	58		
	Methomyl	58		
	Methoxychlor	9		
	Methyl bromide	77	1	0.56
	Methyl iodide	59		
	Methyl paraoxon	58		
	Methyl parathion	58		
	Metolachlor	59	1	0.011
	Metribuzin	59		
	Metsulfuron-methyl	51		
	Molinate	16		
	Myclobutanil	58		
	N(4-Chlorophenyl)N methylurea	52	1	0.02
	Naphthalene	77		
	Neburon	52		
	Nicosulfuron	52		
	Norflurazon	52		
	OIET	52		
	Ortho-dichlorobenzene	41		
	Oryzalin	52		
	Oxamyl	61		
	Pendimethalin	58		
	Permethrin	58		
	Phorate	58		

Santa Barbara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Phoratoxon	58		
	Phosmet	58		
	Phosmet oxon	58		
	Picloram	56		
	Prometon	58	1	0.007
	Prometryn	59		
	Propachlor	1		
	Propham	52		
	Propoxur	58		
	Propyzamide	58		
	S,S,S-Tributyl phosphorotrithioate	58		
	Siduron	52		
	Simazine	75	4	0.004 - 0.007
	Sulfometuron methyl	52		
	Tebuthiuron	58		
	Terbacil	52		
	Terbufos	58		
	Terbufos oxon sulfone	58		
	Terbuthylazine	58		
	Thiobencarb	16		
	Toxaphene	9		
	Triclopyr, triethylamine salt	52		
	Trifluralin	58		
	Xylene	41		

Santa Clara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	101		
	1,2,4-Trichlorobenzene	101		
	1,2-D	151		
	1,3-D	80		
	2,4,5-T	10		
	2,4,5-TP	46		
	2,4,6-trichlorophenol	1		
	2,4-D	86		
	2,4-D methyl ester	40		
	2,4-DB acid	40		
	2,4-Dinitrophenol	1		
	2,6-Diethylaniline	50		
	3,4-Dichloroanaline	50		
	3-Hydroxycarbofuran	61		
	4-Chloro-ortho-cresol	50		
	ACET	40		
	Acetochlor	50		
	Acifluorfen, sodium salt	40		
	Alachlor	81		

Santa Clara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Alachlor 2nd amide	50		
	Aldicarb	58		
	Aldicarb sulfone	61		
	Aldicarb sulfoxide	61		
	Aldrin	21		
	Atrazine	81	2	0.006 - 0.107
	Azinphos-methyl	50		
	Azinphos-methyl oxon	50		
	Barban	2		
	Bendiocarb	40		
	Benefin	50		
	Benomyl	39	1	0.003
	Bensulfuron methyl	40		
	Bentazon	86		
	Bromacil	60		
	Bromoxynil phenol	38		
	Butachlor	20		
	Carbaryl	71		
	Carbofuran	68		
	Carbon disulfide	65		
	Chloramben methyl ester	40		
	Chlordane	28		
	Chlorimuron ethyl	40		
	Chlorothalonil	10		
	Chlorpropham	2		
	Chlorpyrifos	50		
	Chlorpyrifos oxon	50		
	cis-Propiconazole	40		
	Clopyralid	40		
	Cycloate	40		
	Cyfluthrin	50		
	Cypermethrin	50		
	DACT	19		
	Dalapon	46		
	DBCP	72		
	DCPA	50		
	DCPA acid degradates	51		
	DDVP	50		
	DEA	50	3	0.005 - 0.096
	Desulfinyl fipronil	50		
	Desulfinyl fipronil amide	50		
	Diazinon	70		
	Dicamba	61		
	Dichlorprop	40		
	Dicrotophos	50		
	Dieldrin	71		
	Dimethoate	70		

Santa Clara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Dinoseb	86		
	Diphenamid	40		
	Diquat dibromide	22		
	Diuron	42		
	EDB	22		
	Endothall	28		
	Endrin	28		
	Ethion	50		
	Ethion monoxon	50		
	Fenamiphos	50		
	Fenamiphos sulfone	50		
	Fenamiphos sulfoxide	49		
	Fipronil	50		
	Fipronil sulfide	50		
	Fipronil sulfone	50		
	Flumetsulam	40		
	Fluometuron	42		
	Fonofos	50		
	Glyphosate, isopropylamine salt	21		
	Heptachlor	28		
	Heptachlor epoxide	28		
	Hexachlorobenzene	28		
	Hexazinone	50		
	Imazaquin	40		
	Imazethapyr	40		
	Imidacloprid	40		
	Iprodione	50		
	Isofenphos	50		
	Lindane (gamma-BHC)	28		
	Linuron	42		
	Malaoxon	50		
	Malathion	50		
	MCPA	40		
	MCPB	40		
	Metalaxyl	50		
	Methidathion	50		
	Methiocarb	51		
	Methomyl	58		
	Methoxychlor	28		
	Methyl bromide	80		
	Methyl iodide	50		
	Methyl paraoxon	50		
	Methyl parathion	50		
	Metolachlor	70		
	Metribuzin	70		
	Metsulfuron-methyl	40		
	Molinate	31		

Santa Clara	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Monuron	2		
	Myclobutanil	50		
	N(4-Chlorophenyl)N methylurea	40		
	Naphthalene	89		
	Neburon	42		
	Nicosulfuron	40		
	Norflurazon	40		
	OIET	40		
	Ortho-dichlorobenzene	101		
	Oryzalin	40		
	Oxamyl	65		
	Pendimethalin	50		
	Permethrin	50		
	Phorate	50		
	Phoratoxon	50		
	Phosmet	49		
	Phosmet oxon	45		
	Picloram	86		
	Prometon	50		
	Prometryn	50		
	Propachlor	20		
	Propham	42		
	Propoxur	53		
	Propyzamide	50		
	S,S,S-Tributyl phosphorotrithioate	50		
	Siduron	42		
	Simazine	81	4	0.005 - 0.011
	Sulfometuron methyl	40		
	Tebuthiuron	50		
	Terbacil	40		
	Terbufos	50		
	Terbufos oxon sulfone	50		
	Terbuthylazine	50		
	Thiobencarb	31		
	Toxaphene	28		
	Triclopyr, triethylamine salt	40		
	Trifluralin	60		
	Xylene	101		

Santa Cruz	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	45		
	1,2,4-Trichlorobenzene	45		
	1,2-D	67		
	1,3-D	66		
	2,4,5-T	4		

Santa Cruz	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	2,4,5-TP	23		
	2,4-D	28		
	2,4-DB acid	8		
	2,6-Diethylaniline	22		
	3,4-Dichloroanaline	22		
	3-Hydroxycarbofuran	15		
	4-Chloro-ortho-cresol	22		
	ACET	8		
	Acetochlor	22		
	Acifluorfen, sodium salt	8		
	Alachlor	52		
	Alachlor 2nd amide	22		
	Aldicarb	15		
	Aldicarb sulfone	15		
	Aldicarb sulfoxide	15		
	Aldrin	4		
	Atrazine	55		
	Azinphos-methyl	22		
	Azinphos-methyl oxon	22		
	Bendiocarb	8		
	Benefin	22		
	Benomyl	8		
	Bensulfuron methyl	8		
	Bentazon	36		
	Bromacil	16		
	Bromoxynil phenol	8		
	Butachlor	8		
	Carbaryl	29		
	Carbofuran	20		
	Carbon disulfide	51		
	Chloramben methyl ester	8		
	Chlordane	4		
	Chlorimuron ethyl	8		
	Chlorothalonil	1		
	Chlorpyrifos	22		
	Chlorpyrifos oxon	22		
	cis-Propiconazole	8		
	Clopyralid	8		
	Cycloate	8		
	Cyfluthrin	22		
	Cypermethrin	22		
	Dalapon	23		
	DBCP	37		
	DCPA	34		
	DCPA acid degradates	14		
	DDVP	22		
	DEA	22	1	0.004

Santa Cruz	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Desulfinyl fipronil	22		
	Desulfinyl fipronil amide	22		
	Diazinon	37		
	Dicamba	18		
	Dichlorprop	8		
	Dicrotophos	22		
	Dieldrin	26		
	Dimethoate	30		
	Dinoseb	31		
	Diphenamid	8		
	Diquat dibromide	29		
	Diuron	8		
	EDB	15		
	Endothall	3		
	Endrin	4		
	Ethion	22		
	Ethion monoxon	22		
	Fenamiphos	22		
	Fenamiphos sulfone	22		
	Fenamiphos sulfoxide	22		
	Fipronil	22		
	Fipronil sulfide	22		
	Fipronil sulfone	22		
	Flumetsulam	8		
	Fluometuron	8		
	Fonofos	22		
	Glyphosate, isopropylamine salt	1		
	Heptachlor	4		
	Heptachlor epoxide	4		
	Hexachlorobenzene	7		
	Hexazinone	22		
	Imazaquin	8		
	Imazethapyr	8		
	Imidacloprid	8		
	Iprodione	22		
	Isofenphos	22		
	Lindane (gamma-BHC)	4		
	Linuron	8		
	Malaoxon	22		
	Malathion	22		
	MCPA	7		
	MCPB	8		
	Metalaxyl	22		
	Methidathion	22		
	Methiocarb	13		
	Methomyl	15		
	Methoxychlor	4		

Santa Cruz	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methyl bromide	64		
	Methyl iodide	22		
	Methyl paraoxon	22		
	Methyl parathion	22		
	Metolachlor	30	2	0.005 - 0.007
	Metribuzin	30		
	Metsulfuron-methyl	8		
	Molinate	26		
	Myclobutanil	22		
	N(4-Chlorophenyl)N methylurea	8		
	Naphthalene	64		
	Neburon	8		
	Nicosulfuron	8		
	Norflurazon	8		
	OIET	8		
	Ortho-dichlorobenzene	45		
	Oryzalin	8		
	Oxamyl	15		
	Paraquat dichloride	12		
	Pendimethalin	22		
	Permethrin	22		
	Phorate	22		
	Phoratoxon	22		
	Phosmet	13		
	Phosmet oxon	13		
	Picloram	31		
	Prometon	22		
	Prometryn	22		
	Propachlor	8		
	Propham	8		
	Propoxur	13		
	Propyzamide	22		
	Siduron	8		
	Simazine	55		
	Sulfometuron methyl	8		
	Tebuthiuron	22		
	Terbacil	8		
	Terbufos	22		
	Terbufos oxon sulfone	22		
	Terbuthylazine	22		
	Thiobencarb	26		
	Toxaphene	4		
	Triclopyr, triethylamine salt	8		
	Trifluralin	23		
	Xylene	45		

Shasta	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	18		
	1,2,4-Trichlorobenzene	18		
	1,2-D	39		
	1,3-D	21		
	2,4-D	21		
	2,4-D methyl ester	21		
	2,4-DB acid	21		
	2,6-Diethylaniline	21		
	3,4-Dichloroanaline	21		
	3-Hydroxycarbofuran	17		
	4-Chloro-ortho-cresol	21		
	ACET	21		
	Acetochlor	21		
	Acifluorfen, sodium salt	16		
	Alachlor	21		
	Alachlor 2nd amide	21		
	Aldicarb	21		
	Aldicarb sulfone	17		
	Aldicarb sulfoxide	17		
	Atrazine	21	2	0.007 - 0.009
	Azinphos-methyl	21		
	Azinphos-methyl oxon	21		
	Bendiocarb	17		
	Benefin	21		
	Benomyl	21		
	Bensulfuron methyl	21		
	Bentazon	21		
	Bromacil	21		
	Bromoxynil phenol	16		
	Carbaryl	21		
	Carbofuran	21		
	Carbon disulfide	21		
	Chloramben methyl ester	21		
	Chlorimuron ethyl	16		
	Chlorpyrifos	21		
	Chlorpyrifos oxon	21		
	cis-Propiconazole	21		
	Clopyralid	21		
	Cycloate	21		
	Cyfluthrin	21		
	Cypermethrin	21		
	DBCP	21		
	DCPA	21		
	DCPA acid degradates	21		
	DDVP	21		
	DEA	21	4	0.005 - 0.007
	Desulfinyl fipronil	21		

	Desulfinyl fipronil amide	21
	Diazinon	21
	Dicamba	21
	Dichlorprop	21
	Dicrotophos	21
	Dieldrin	21
	Dimethoate	21
	Dinoseb	21
	Diphenamid	16
	Diuron	21
	Ethion	21
	Ethion monoxon	21
	Fenamiphos	21
	Fenamiphos sulfone	21
	Fenamiphos sulfoxide	21
	Fipronil	21
	Fipronil sulfide	21
	Fipronil sulfone	21
	Flumetsulam	21
	Fluometuron	21
	Fonofos	21
	Hexazinone	21
	Imazaquin	16
	Imazethapyr	21
	Imidacloprid	21
	Iprodione	21
	Isofenphos	21
	Lambda-cyhalothrin	21
	Linuron	21
	Malaoxon	21
	Malathion	21
	MCPA	21
	MCPB	21
	Metalaxyl	21
	Methidathion	21
	Methiocarb	17
	Methomyl	17
	Methyl bromide	39
	Methyl iodide	21
	Methyl paraoxon	21
	Methyl parathion	21
	Metolachlor	21
	Metribuzin	21
	Metsulfuron-methyl	16
	Molinate	21
	Myclobutanil	21
	N(4-Chlorophenyl)N methylurea	21
	Naphthalene	21
	Neburon	21

	Nicosulfuron	20		
	Norflurazon	21		
	OIET	21		
	Ortho-dichlorobenzene	18		
	Oryzalin	21		
	Oxamyl	17		
	Pendimethalin	21		
	Permethrin	21		
	Phorate	21		
	Phoratoxon	21		
	Phosmet	20		
	Phosmet oxon	18		
	Picloram	16		
	Prometon	21		
	Prometryn	21		
	Propanil	21		
	Propham	21		
	Propoxur	17		
	Propyzamide	21		
	S,S,S-Tributyl phosphorotrithioate	21		
	Siduron	21		
	Simazine	21	1	0.005
	Sulfometuron methyl	16		
	Tebuthiuron	21		
	Terbacil	21		
	Terbufos	21		
	Terbufos oxon sulfone	21		
	Terbuthylazine	21		
	Thiobencarb	21		
	trans-Propiconazole	21		
	Triclopyr, triethylamine salt	21		
	Trifluralin	21		
	Xylene	18		

Sierra	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,2-D	2		
	1,3-D	2		
	2,6-Diethylaniline	2		
	3,4-Dichloroanaline	2		
	4-Chloro-ortho-cresol	2		
	Acetochlor	2		
	Alachlor	2		
	Alachlor 2nd amide	2		
	Atrazine	2		
	Azinphos-methyl	2		
	Azinphos-methyl oxon	2		
	Benefin	2		

Sierra	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Carbaryl	2		
	Carbon disulfide	2		
	Chlorpyrifos	2		
	Chlorpyrifos oxon	2		
	Cyfluthrin	2		
	Cypermethrin	2		
	DBCP	2		
	DCPA	2		
	DDVP	2		
	DEA	2		
	Desulfinyl fipronil	2		
	Desulfinyl fipronil amide	2		
	Diazinon	2		
	Dicrotophos	2		
	Dieldrin	2		
	Dimethoate	2		
	Ethion	2		
	Ethion monoxon	2		
	Fenamiphos	2		
	Fenamiphos sulfone	2		
	Fenamiphos sulfoxide	2		
	Fipronil	2		
	Fipronil sulfide	2		
	Fipronil sulfone	2		
	Fonofos	2		
	Hexazinone	2		
	Iprodione	2		
	Isofenphos	2		
	Malaoxon	2		
	Malathion	2		
	Metalaxyl	2		
	Methidathion	2		
	Methyl bromide	2		
	Methyl iodide	2		
	Methyl paraoxon	2		
	Methyl parathion	2		
	Metolachlor	2		
	Metribuzin	2		
	Myclobutanil	2		
	Naphthalene	2		
	Pendimethalin	2		
	Permethrin	2		
	Phorate	2		
	Phoratoxon	2		
	Phosmet	2		
	Prometon	2		
	Prometryn	2		

Sierra	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propyzamide	2		
	S,S,S-Tributyl phosphorotrithioate	2		
	Simazine	2		
	Tebuthiuron	2		
	Terbufos	2		
	Terbufos oxon sulfone	2		
	Terbuthylazine	2		
	Trifluralin	2		

Siskiyou	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	4		
	1,2,4-Trichlorobenzene	4		
	1,2-D	4		
	Methyl bromide	4		
	Ortho-dichlorobenzene	4		
	Xylene	4		

Solano	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	21		
	1,2,4-Trichlorobenzene	21		
	1,2-D	36		
	1,3-D	30		
	2,4,5-TP	12		
	2,4-D	12		
	2,4-DB acid	5		
	2,6-Diethylaniline	14		
	3,4-Dichloroanaline	8		
	3-Hydroxycarbofuran	18		
	4-Chloro-ortho-cresol	14		
	ACET	5		
	Acetochlor	18		
	Acifluorfen, sodium salt	5		
	Alachlor	27		
	Alachlor 2nd amide	14		
	Aldicarb	18		
	Aldicarb sulfone	18		
	Aldicarb sulfoxide	18		
	Aldrin	12		
	Atrazine	27	6	0.004 - 0.038
	Azinphos-methyl	14		
	Azinphos-methyl oxon	14		
	Bendiocarb	5		
	Benefin	13		

Solano	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Benomyl	5		
	Bensulfuron methyl	5		
	Bentazon	19		
	Bromacil	17		
	Bromoxynil phenol	5		
	Butachlor	12		
	Carbaryl	27		
	Carbofuran	27		
	Carbon disulfide	28	1	0.02
	Chloramben methyl ester	5		
	Chlordane	13		
	Chlorimuron ethyl	5		
	Chlorpyrifos	14		
	Chlorpyrifos oxon	14		
	cis-Propiconazole	14		
	Clopyralid	5		
	Cycloate	5		
	Cyfluthrin	14		
	Cypermethrin	14		
	Dalapon	12		
	DBCP	28		
	DCPA	13		
	DCPA acid degradates	17		
	DDE	4		
	DDVP	14		
	DEA	14	4	0.006 - 0.029
	Desulfinyl fipronil	14		
	Desulfinyl fipronil amide	14		
	Diazinon	26		
	Dicamba	17		
	Dichlorprop	5		
	Dicrotophos	14		
	Dieldrin	26		
	Dimethoate	26		
	Dinoseb	17		
	Diphenamid	5		
	Diquat dibromide	13		
	Diuron	5		
	EDB	13		
	Endothall	13		
	Endrin	13		
	EPTC	4		
	Ethion	14		
	Ethion monoxon	14		
	Fenamiphos	14		
	Fenamiphos sulfone	14		
	Fenamiphos sulfoxide	14		

Solano	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Fipronil	14		
	Fipronil sulfide	14		
	Fipronil sulfone	14		
	Flumetsulam	5		
	Fluometuron	5		
	Fonofos	14		
	Glyphosate, isopropylamine salt	13		
	Heptachlor	13		
	Heptachlor epoxide	13		
	Hexachlorobenzene	13		
	Hexazinone	14		
	Imazaquin	5		
	Imazethapyr	5		
	Imidacloprid	5		
	Iprodione	14		
	Isofenphos	14		
	Lambda-cyhalothrin	14		
	Lindane (gamma-BHC)	13		
	Linuron	5		
	Malaoxon	14		
	Malathion	14		
	MCPA	5		
	MCPB	5		
	Metalaxyl	14		
	Methidathion	14		
	Methiocarb	17		
	Methomyl	18		
	Methoxychlor	13		
	Methyl bromide	30		
	Methyl iodide	15		
	Methyl paraoxon	14		
	Methyl parathion	14		
	Metolachlor	26	1	0.004
	Metribuzin	26		
	Metsulfuron-methyl	5		
	Molinate	28		
	Myclobutanil	14		
	N(4-Chlorophenyl)N methylurea	5		
	Naphthalene	34		
	Neburon	5		
	Nicosulfuron	5		
	Norflurazon	5		
	OIET	5		
	Ortho-dichlorobenzene	21		
	Oryzalin	5		
	Oxamyl	18		
	Pendimethalin	14		

Solano	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Permethrin	14		
	Phorate	14		
	Phoratoxon	14		
	Phosmet	14		
	Phosmet oxon	13		
	Picloram	16		
	Prometon	14	1	0.007
	Prometryn	14		
	Propachlor	12		
	Propanil	14		
	Propham	5		
	Propoxur	17		
	Propyzamide	14		
	Siduron	5		
	Simazine	27	1	0.013
	Sulfometuron methyl	5		
	Tebuthiuron	14	1	0.12
	Terbacil	9		
	Terbufos	14		
	Terbufos oxon sulfone	14		
	Terbuthylazine	14		
	Thiobencarb	28		
	Toxaphene	13		
	trans-Propiconazole	14		
	Triclopyr, triethylamine salt	5		
	Trifluralin	13		
	Xylene	21		

Sonoma	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	65		
	1,2,4-Trichlorobenzene	65		
	1,2-D	130		
	1,3-D	78		
	2,4,5-T	43		
	2,4,5-TP	49		
	2,4-D	49		
	2,4-DB acid	14		
	2,6-Diethylaniline	63		
	3,4-Dichloroanaline	63		
	3-Hydroxycarbofuran	48		
	4(2,4-DB), dimethylamine salt	33		
	4-Chloro-ortho-cresol	63		
	ACET	13	1	0.01
	Acetochlor	63		
	Acifluorfen, sodium salt	22		

Sonoma	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Acrylonitrile	8		
	Alachlor	89		
	Alachlor 2nd amide	63		
	Aldicarb	48		
	Aldicarb sulfone	48		
	Aldicarb sulfoxide	48		
	Aldrin	14		
	Ametryne	2		
	Atrazine	122	2	0.006 - 0.007
	Azinphos-methyl	63		
	Azinphos-methyl oxon	63		
	Bendiocarb	14		
	Benefin	63		
	Benomyl	14		
	Bensulfuron methyl	14		
	Bentazon	63		
	BHC (other than gamma isomer)	6		
	Bromacil	32		
	Bromoxynil phenol	14		
	Butachlor	20		
	Butylate	2		
	Carbaryl	97		
	Carbofuran	48		
	Carbon disulfide	73	2	0.05 - 0.06
	Chloramben methyl ester	14		
	Chlordane	16		
	Chlorimuron ethyl	14		
	Chlorobenzilate	6		
	Chloroneb	8		
	Chlorothalonil	8		
	Chlorpropham	2		
	Chlorpyrifos	65		
	Chlorpyrifos oxon	63		
	cis-Propiconazole	14		
	Clopyralid	14		
	Cycloate	16		
	Cyfluthrin	63		
	Cypermethrin	63		
	Dalapon	57		
	DBCP	76		
	DCPA	69		
	DCPA acid degradates	20		
	DDD	6		
	DDE	6		
	DDT	6		
	DDVP	64		
	DEA	63	2	0.005 - 0.006

Sonoma	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Desulfinyl fipronil	63		
	Desulfinyl fipronil amide	63		
	Diazinon	71	1	0.108
	Dicamba	61		
	Dichlorprop	14		
	Dichlorprop, butoxyethanol ester	8		
	Dicrotophos	63		
	Dieldrin	75		
	Dimethoate	81		
	Dinoseb	63		
	Diphenamid	15		
	Diquat dibromide	50		
	Diuron	20		
	EDB	15		
	Endosulfan	6		
	Endosulfan sulfate	6		
	Endothall	51		
	Endrin	16		
	Endrin aldehyde	6		
	Ethion	63		
	Ethion monoxon	63		
	Fenamiphos	63		
	Fenamiphos sulfone	63		
	Fenamiphos sulfoxide	63		
	Fipronil	63		
	Fipronil sulfide	63		
	Fipronil sulfone	63		
	Flumetsulam	14		
	Fluometuron	14		
	Fonofos	63		
	Fonofos oxon	63		
	Glyphosate, isopropylamine salt	8		
	Heptachlor	16		
	Heptachlor epoxide	16		
	Hexachlorobenzene	15		
	Hexazinone	63		
	Imazaquin	14		
	Imazethapyr	14		
	Imidacloprid	14		
	Iprodione	63		
	Isofenphos	63		
	Lindane (gamma-BHC)	16		
	Linuron	14		
	Malaoxon	63		
	Malathion	63		
	MCPA	14		
	MCPB	14		

Sonoma	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Metalaxyl	63		
	Methidathion	63		
	Methiocarb	38		
	Methomyl	48		
	Methoxychlor	16		
	Methyl bromide	103		
	Methyl iodide	65		
	Methyl paraoxon	63		
	Methyl parathion	63		
	Metolachlor	83		
	Metribuzin	83		
	Metsulfuron-methyl	14		
	Molinate	22		
	Myclobutanil	63		
	N(4-Chlorophenyl)N methylurea	14		
	Naphthalene	83		
	Napropamide	2		
	Neburon	14		
	Nicosulfuron	14		
	Norflurazon	14		
	OIET	14		
	Ortho-dichlorobenzene	65		
	Oryzalin	14		
	Oxamyl	63		
	Paraquat dichloride	2		
	Pendimethalin	63		
	Permethrin	71		
	Permethrin, other related compounds	6		
	Phorate	63		
	Phoratoxon	63		
	Phosmet	63		
	Phosmet oxon	57		
	Picloram	70		
	Prometon	63		
	Prometryn	72		
	Propachlor	20		
	Propazine	2		
	Propham	14		
	Propoxur	38		
	Propyzamide	63		
	Siduron	14		
	Simazine	122	7	0.003 - 0.052
	Sulfometuron methyl	14	1	0.052
	Tebuthiuron	63		
	Terbacil	14		
	Terbufos	63		
	Terbufos oxon sulfone	63		

Sonoma	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Terbuthylazine	63		
	Terbutryn	2		
	Thiobencarb	22		
	Toxaphene	16		
	Triadimefon	2		
	Triclopyr, triethylamine salt	14		
	Trifluralin	73	1	0.006
	Vernolate	2		
	Xylene	63		

Stanislaus	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	86		
	1,2,4-Trichlorobenzene	86		
	1,2-D	124	1	0.1
	1,3-D	111		
	2,4,5-T	10		
	2,4,5-TP	10		
	2,4-D	10		
	2,4-DB acid	10		
	2,6-Diethylaniline	38		
	3,4-Dichloroanaline	38	2	0.004 - 0.01
	3-Hydroxycarbofuran	20		
	4-Chloro-ortho-cresol	38		
	ACET	10	3	0.01
	Acetochlor	38		
	Acifluorfen, sodium salt	10		
	Alachlor	52		
	Alachlor 2nd amide	38		
	Aldicarb	20		
	Aldicarb sulfone	20		
	Aldicarb sulfoxide	20		
	Aldrin	10		
	Atrazine	52	15	0.004 - 0.014
	Azinphos-methyl	38		
	Azinphos-methyl oxon	38		
	Bendiocarb	10		
	Benefin	38		
	Benomyl	10		
	Bensulfuron methyl	10		
	Bentazon	20		
	Bromacil	24		
	Bromoxynil phenol	10		
	Butachlor	14		
	Carbaryl	48		
	Carbofuran	20		

Stanislaus	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Carbon disulfide	38	1	0.03
	Chloramben methyl ester	10		
	Chlordane	10		
	Chlorimuron ethyl	10		
	Chlorothalonil	19		
	Chlorpyrifos	38		
	Chlorpyrifos oxon	38		
	cis-Propiconazole	10		
	Clopyralid	10		
	Cycloate	10		
	Cyfluthrin	38		
	Cypermethrin	38		
	Dalapon	10		
	DBCP	110	16	0.02 - 0.6
	DCPA	38		
	DCPA acid degradates	10		
	DDVP	38		
	DEA	38	23	0.004 - 0.016
	Desulfinyl fipronil	38		
	Desulfinyl fipronil amide	38		
	Diazinon	52		
	Dicamba	20		
	Dichlorprop	10		
	Dicrotophos	38		
	Dieldrin	48		
	Dimethoate	52		
	Dinoseb	20		
	Diphenamid	10		
	Diquat dibromide	10		
	Diuron	11	1	0.03
	EDB	70		
	Endothall	10		
	Endrin	10		
	Ethion	38		
	Ethion monoxon	38		
	Fenamiphos	38		
	Fenamiphos sulfone	38		
	Fenamiphos sulfoxide	38		
	Fipronil	38		
	Fipronil sulfide	38		
	Fipronil sulfone	38		
	Flumetsulam	10		
	Fluometuron	10		
	Fonofos	38		
	Glyphosate, isopropylamine salt	10		
	Heptachlor	10		
	Heptachlor epoxide	10		

Stanislaus	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Hexachlorobenzene	10		
	Hexazinone	38	3	0.012 - 0.062
	Imazaquin	10		
	Imazethapyr	10		
	Imidacloprid	10		
	Iprodione	38		
	Isofenphos	38		
	Lindane (gamma-BHC)	10		
	Linuron	10		
	Malaoxon	38		
	Malathion	38		
	MCPA	10		
	MCPB	10		
	Metalaxyl	38		
	Methidathion	38		
	Methiocarb	10		
	Methomyl	20		
	Methoxychlor	10		
	Methyl bromide	124		
	Methyl iodide	38		
	Methyl paraoxon	38		
	Methyl parathion	38		
	Metolachlor	52	5	0.005 - 0.035
	Metribuzin	52		
	Metsulfuron-methyl	10		
	Molinate	14		
	Myclobutanil	38		
	N(4-Chlorophenyl)N methylurea	10		
	Naphthalene	122		
	Neburon	10		
	Nicosulfuron	10		
	Norflurazon	10	2	0.01
	OIET	10		
	Ortho-dichlorobenzene	86		
	Oryzalin	10		
	Oxamyl	20		
	Pendimethalin	38		
	Permethrin	38		
	Phorate	38		
	Phoratoxon	38		
	Phosmet	17		
	Phosmet oxon	17		
	Picloram	20		
	Prometon	38	3	0.005 - 0.013
	Prometryn	38		
	Propachlor	14		
	Propham	10		

Stanislaus	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propoxur	10		
	Propyzamide	38		
	S,S,S-Tributyl phosphorotrithioate	4		
	Siduron	10		
	Simazine	54	14	0.004 - 0.017
	Sulfometuron methyl	10		
	Tebuthiuron	38		
	Terbacil	10		
	Terbufos	38		
	Terbufos oxon sulfone	38		
	Terbuthylazine	38		
	Thiobencarb	14		
	Toxaphene	10		
	Triclopyr, triethylamine salt	10		
	Trifluralin	48		
	Xylene	86		

Sutter	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,2-D	15		
	1,3-D	15		
	2,4-D	2		
	2,4-DB acid	12		
	2,6-Diethylaniline	15		
	3,4-Dichloroanaline	14		
	3,5-Dichloroaniline	4		
	3-Hydroxycarbofuran	12		
	4-Chloro-ortho-cresol	15		
	ACET	12		
	Acetochlor	15		
	Acifluorfen, sodium salt	12		
	Alachlor	15		
	Alachlor 2nd amide	15		
	Aldicarb	12		
	Aldicarb sulfone	12		
	Aldicarb sulfoxide	12		
	Atrazine	18	1	0.007
	Azinphos-methyl	15		
	Azinphos-methyl oxon	12		
	Bendiocarb	12		
	Benefin	15		
	Benomyl	12		
	Bensulfuron methyl	12		
	Bentazon	12	1	0.21
	Bromacil	11		
	Bromoxynil phenol	12		

Sutter	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Carbaryl	15		
	Carbofuran	18		
	Carbon disulfide	15	2	0.02 - 0.15
	Chloramben methyl ester	12		
	Chlorimuron ethyl	12		
	Chlorpyrifos	15		
	Chlorpyrifos oxon	15		
	cis-Propiconazole	15		
	Clopyralid	12		
	Cyanazine	4		
	Cycloate	12		
	Cyfluthrin	15		
	Cypermethrin	15		
	DBCP	15		
	DCPA	15		
	DCPA acid degradates	12		
	DDVP	15		
	DEA	15	1	0.006
	Desulfinyl fipronil	15		
	Desulfinyl fipronil amide	15		
	Diazinon	15		
	Dicamba	12		
	Dichlorprop	12		
	Dicrotophos	13		
	Dieldrin	15		
	Dimethoate	15		
	Dinoseb	12		
	Diphenamid	12		
	Disulfoton	4		
	Disulfoton sulfone	4		
	Diuron	12		
	Endosulfan	4		
	Endosulfan sulfate	4		
	EPTC	4		
	Ethion	15		
	Ethion monoxon	15		
	Ethoprop	4		
	Fenamiphos	15		
	Fenamiphos sulfone	15		
	Fenamiphos sulfoxide	15		
	Fipronil	15		
	Fipronil sulfide	15		
	Fipronil sulfone	15		
	Flumetsulam	12		
	Fluometuron	12		
	Fonofos	15		
	Glyphosate, isopropylamine salt	2		

Sutter	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Hexazinone	15		
	Imazaquin	12		
	Imazethapyr	12		
	Imidacloprid	12		
	Iprodione	15		
	Isofenphos	15		
	Lambda-cyhalothrin	15		
	Linuron	12		
	Malaoxon	15		
	Malathion	15		
	MCPA	12		
	MCPB	12		
	Metalaxyl	15		
	Methidathion	15		
	Methiocarb	12		
	Methomyl	12		
	Methyl bromide	15		
	Methyl iodide	15		
	Methyl paraoxon	15		
	Methyl parathion	15		
	Metolachlor	15		
	Metribuzin	15		
	Metsulfuron-methyl	12		
	Molinate	18	2	0.008 - 0.066
	Myclobutanil	15		
	N(4-Chlorophenyl)N methylurea	12		
	Naphthalene	15		
	Neburon	12		
	Nicosulfuron	12		
	Norflurazon	12		
	OIET	12		
	Oryzalin	12		
	Oxamyl	12		
	Oxyfluorfen	4		
	Pendimethalin	15		
	Permethrin	15		
	Phorate	15		
	Phoratoxon	15		
	Phosmet	8		
	Phosmet oxon	8		
	Picloram	12		
	Prometon	15		
	Prometryn	15		
	Propanil	15	1	0.006
	Propargite	4		
	Propham	12		
	Propoxur	12		

Sutter	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propyzamide	15		
	S,S,S-Tributyl phosphorotrithioate	12		
	Siduron	12		
	Simazine	18	3	0.004 - 0.011
	Sulfometuron methyl	12		
	Tebuthiuron	15		
	Tefluthrin	4		
	Terbacil	12		
	Terbufos	15		
	Terbufos oxon sulfone	15		
	Terbuthylazine	15		
	Thiobencarb	18		
	trans-Propiconazole	15		
	Triclopyr, triethylamine salt	8		
	Trifluralin	15		

Tehama	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	2		
	1,2,4-Trichlorobenzene	2		
	1,2-D	54		
	1,3-D	52		
	2,4-D	45		
	2,4-D methyl ester	45		
	2,4-DB acid	52		
	2,6-Diethylaniline	52		
	3,4-Dichloroanaline	52		
	3-Hydroxycarbofuran	38		
	4-Chloro-ortho-cresol	52		
	ACET	52		
	Acetochlor	52		
	Acifluorfen, sodium salt	43		
	Alachlor	52		
	Alachlor 2nd amide	52		
	Aldicarb	52		
	Aldicarb sulfone	38		
	Aldicarb sulfoxide	38		
	Atrazine	52	8	0.004 - 0.008
	Azinphos-methyl	52		
	Azinphos-methyl oxon	52		
	Bendiocarb	38		
	Benefin	52		
	Benomyl	52		
	Bensulfuron methyl	52		
	Bentazon	52		
	Bromacil	52		

Tehama	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bromoxynil phenol	43		
	Carbaryl	52		
	Carbofuran	52		
	Carbon disulfide	52	1	0.04
	Chloramben methyl ester	46		
	Chlorimuron ethyl	43		
	Chlorpyrifos	52		
	Chlorpyrifos oxon	52		
	cis-Propiconazole	52		
	Clopyralid	52		
	Cycloate	52		
	Cyfluthrin	52		
	Cypermethrin	52		
	DBCP	52		
	DCPA	52		
	DCPA acid degradates	52		
	DDVP	52		
	DEA	52	11	0.005 - 0.009
	Desulfinyl fipronil	52		
	Desulfinyl fipronil amide	52		
	Diazinon	52		
	Dicamba	52		
	Dichlorprop	52		
	Dicrotophos	52		
	Dieldrin	52		
	Dimethoate	52		
	Dinoseb	52		
	Diphenamid	43		
	Diuron	52		
	Ethion	52		
	Ethion monoxon	52		
	Fenamiphos	52		
	Fenamiphos sulfone	52		
	Fenamiphos sulfoxide	52		
	Fipronil	52		
	Fipronil sulfide	52		
	Fipronil sulfone	52		
	Flumetsulam	47		
	Fluometuron	52		
	Fonofos	52		
	Hexazinone	52		
	Imazaquin	43		
	Imazethapyr	51		
	Imidacloprid	52		
	Iprodione	52		
	Isofenphos	52		
	Lambda-cyhalothrin	52		

Tehama	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Linuron	52		
	Malaoxon	52		
	Malathion	52		
	MCPA	52		
	MCPB	52		
	Metalaxyl	52		
	Methidathion	52		
	Methiocarb	38		
	Methomyl	46		
	Methyl bromide	54		
	Methyl iodide	52		
	Methyl paraoxon	52		
	Methyl parathion	52		
	Metolachlor	52		
	Metribuzin	52		
	Metsulfuron-methyl	38		
	Molinate	52		
	Myclobutanil	52		
	N(4-Chlorophenyl)N methylurea	52		
	Naphthalene	52		
	Neburon	52		
	Nicosulfuron	49		
	Norflurazon	52		
	OIET	52		
	Ortho-dichlorobenzene	2		
	Oryzalin	52		
	Oxamyl	38		
	Pendimethalin	52		
	Permethrin	52		
	Phorate	52		
	Phoratoxon	52		
	Phosmet	48		
	Phosmet oxon	44		
	Picloram	43		
	Prometon	52	2	0.006 - 0.012
	Prometryn	52		
	Propanil	52		
	Propham	52		
	Propoxur	38		
	Propyzamide	52		
	S,S,S-Tributyl phosphorotrithioate	52		
	Siduron	52		
	Simazine	52	6	0.004 - 0.01
	Sulfometuron methyl	43		
	Tebuthiuron	52		
	Terbacil	52		
	Terbufos	52		

Tehama	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Terbufos oxon sulfone	52		
	Terbuthylazine	52		
	Thiobencarb	52		
	trans-Propiconazole	52		
	Triclopyr, triethylamine salt	51		
	Trifluralin	52		
	Xylene	2		

Trinity	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	1		
	1,2,4-Trichlorobenzene	1		
	1,2-D	1		
	Methyl bromide	1		
	Ortho-dichlorobenzene	1		
	Xylene	1		

Tulare	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	101		
	1,2,4-Trichlorobenzene	102		
	1,2-D	153	4	0.06 - 0.56
	1,3-D	101		
	2,4,5-T	9		
	2,4,5-TP	9		
	2,4-D	9		
	2,4-DB acid	12		
	2,6-Diethylaniline	51		
	3,4-Dichloroanaline	51	9	0.001 - 0.009
	3,5-Dichloroaniline	38	1	0.006
	3-Hydroxycarbofuran	23		
	4(2,4-DB), dimethylamine salt	1		
	4-Chloro-ortho-cresol	51		
	ACET	36	21	0.02 - 1.49
	Acetochlor	51	1	0.006
	Acifluorfen, sodium salt	12		
	Alachlor	106	1	0.004
	Alachlor 2nd amide	51		
	Aldicarb	23		
	Aldicarb sulfone	23		
	Aldicarb sulfoxide	23		
	Aldrin	17		
	Atrazine	131	18	0.004 - 0.095
	Azinphos-methyl	51		
	Azinphos-methyl oxon	51		

Tulare	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bendiocarb	12		
	Benefin	51		
	Benomyl	12		
	Bensulfuron methyl	12		
	Bentazon	21		
	BHC (other than gamma isomer)	1		
	Bromacil	84	11	0.01 - 2.11
	Bromoxynil phenol	12		
	Butachlor	47		
	Captan	12		
	Carbaryl	62		
	Carbofuran	50		
	Carbon disulfide	52	5	0.03 - 0.17
	Carbophenothion	12		
	Chloramben methyl ester	12		
	Chlordane	16		
	Chlorimuron ethyl	12		
	Chlorothalonil	24		
	Chlorpropham	12		
	Chlorpyrifos	51		
	Chlorpyrifos oxon	51		
	cis-Propiconazole	38		
	Clopyralid	12		
	Cyanazine	50		
	Cycloate	12		
	Cyfluthrin	51		
	Cypermethrin	51		
	DACT	25	19	0.057 - 5.22
	Dalapon	9		
	DBCP	196	36	0.01 - 0.49
	DCPA	51		
	DCPA acid degradates	12		
	DDD	1		
	DDE	1		
	DDT	1		
	DDVP	51		
	DEA	76	23	0.003 - 0.126
	Desulfinyl fipronil	51		
	Desulfinyl fipronil amide	51		
	Diazinon	90	1	0.003
	Dicamba	19		
	Dichlorprop	12		
	Dichlorprop, butoxyethanol ester	1		
	Dicrotophos	51		
	Dieldrin	68	1	0.003
	Dimethoate	98		
	Dinoseb	20		

Tulare	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Diphenamid	24		
	Diquat dibromide	8		
	Disulfoton	50		
	Disulfoton sulfone	38		
	Diuron	37	8	0.02 - 0.286
	DSMN	25	13	0.053 - 0.62
	EDB	139		
	Endosulfan	39		
	Endosulfan sulfate	39		
	Endothall	31		
	Endrin	17		
	Endrin aldehyde	1		
	EPTC	51	2	0.004 - 0.039
	Ethion	51		
	Ethion monoxon	51		
	Ethoprop	38		
	Fenamiphos	51		
	Fenamiphos sulfone	51		
	Fenamiphos sulfoxide	51		
	Fipronil	51		
	Fipronil sulfide	51	1	0.005
	Fipronil sulfone	51		
	Flumetsulam	12		
	Fluometuron	12		
	Fonofos	51		
	Glyphosate, isopropylamine salt	8		
	Heptachlor	17		
	Heptachlor epoxide	17		
	Hexachlorobenzene	16		
	Hexazinone	76	1	0.01
	Imazaquin	12		
	Imazethapyr	12		
	Imidacloprid	12		
	Iprodione	51		
	Isofenphos	51		
	Lambda-cyhalothrin	38		
	Lindane (gamma-BHC)	17		
	Linuron	12		
	Malaoxon	51		
	Malathion	51		
	MCPA	12		
	MCPA, dimethylamine salt	1		
	MCPB	12		
	MCPP	1		
	Metalaxyl	51		
	Methidathion	51		
	Methiocarb	12		

Tulare	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Methomyl	23		
	Methoxychlor	17		
	Methyl bromide	96		
	Methyl iodide	51		
	Methyl paraoxon	51		
	Methyl parathion	51		
	Metolachlor	98	1	0.002
	Metribuzin	98		
	Metsulfuron-methyl	6		
	Molinate	85		
	Myclobutanil	51		
	N(4-Chlorophenyl)N methylurea	12		
	Naphthalene	115		
	Neburon	12		
	Nicosulfuron	12		
	Norflurazon	37	8	0.064 - 0.499
	OIET	8		
	Ortho-dichlorobenzene	102		
	Oryzalin	18		
	Oxamyl	24		
	Oxyfluorfen	38		
	Pendimethalin	51		
	Permethrin	51		
	Phorate	51		
	Phoratoxon	51		
	Phosmet	14		
	Phosmet oxon	14		
	Picloram	21		
	Prometon	90	4	0.004 - 0.009
	Prometryn	70		
	Propachlor	34		
	Propanil	38		
	Propargite	38		
	Propham	12		
	Propoxur	12		
	Propyzamide	51		
	S,S,S-Tributyl phosphorotrithioate	51		
	Siduron	12		
	Simazine	131	37	0.005 - 0.202
	Sulfometuron methyl	12		
	Tebuthiuron	76		
	Tebuthiuron degradate 104	6		
	Tebuthiuron degradate 106	6		
	Tebuthiuron degradate 107	6		
	Tebuthiuron degradate 108	6		
	Tefluthrin	38		
	Terbacil	25		

Tulare	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Terbufos	51		
	Terbufos oxon sulfone	51		
	Terbuthylazine	51		
	Terbutryn	1		
	Thiobencarb	89		
	Toxaphene	16		
	trans-Propiconazole	38		
	Triclopyr, triethylamine salt	12		
	Trifluralin	66		
	Xylene	102		

Tuolumne	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	16		
	1,2,4-Trichlorobenzene	16		
	1,2-D	25		
	1,3-D	11		
	2,6-Diethylaniline	9		
	3,4-Dichloroanaline	9	1	0.004
	4-Chloro-ortho-cresol	9		
	Acetochlor	21		
	Alachlor	21		
	Alachlor 2nd amide	9		
	Atrazine	22	1	0.015
	Azinphos-methyl	9		
	Azinphos-methyl oxon	9		
	Benefin	9		
	Bromacil	12		
	Butachlor	12		
	Carbaryl	9		
	Carbon disulfide	9		
	Chlorothalonil	12		
	Chlorpyrifos	9		
	Chlorpyrifos oxon	9		
	Cyfluthrin	9		
	Cypermethrin	9		
	DBCP	9		
	DCPA	9		
	DDVP	9		
	DEA	9	1	0.08
	Desulfinyl fipronil	9	1	0.005
	Desulfinyl fipronil amide	9		
	Diazinon	21		
	Dicrotophos	9		
	Dieldrin	9		
	Dimethoate	21		

Tuolumne	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Ethion	9		
	Ethion monoxon	9		
	Fenamiphos	9		
	Fenamiphos sulfone	9		
	Fenamiphos sulfoxide	9		
	Fipronil	9	1	0.011
	Fipronil sulfide	9		
	Fipronil sulfone	9	1	0.008
	Fonofos	9		
	Hexazinone	9	1	0.008
	Iprodione	9		
	Isofenphos	9		
	Malaoxon	9		
	Malathion	9		
	Metalaxyl	9		
	Methidathion	9		
	Methyl bromide	24		
	Methyl iodide	9		
	Methyl paraoxon	9		
	Methyl parathion	9		
	Metolachlor	21		
	Metribuzin	21		
	Molinate	12		
	Myclobutanil	9		
	Naphthalene	10		
	Ortho-dichlorobenzene	16		
	Pendimethalin	9		
	Permethrin	9		
	Phorate	9		
	Phoratoxon	9		
	Phosmet	9		
	Phosmet oxon	9		
	Prometon	9		
	Prometryn	21		
	Propyzamide	9		
	S,S,S-Tributyl phosphorotrithioate	9		
	Simazine	22	1	0.005
	Tebuthiuron	9		
	Terbacil	12		
	Terbufos	9		
	Terbufos oxon sulfone	9		
	Terbuthylazine	9		
	Thiobencarb	12		
	Trifluralin	9		
	Xylene	16		

Ventura	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	37		
	1,2,4-Trichlorobenzene	37		
	1,2-D	84		
	1,3-D	84		
	2,4,5-T	4		
	2,4,5-TP	4		
	2,4-D	14		
	2,4-D methyl ester	9		
	2,4-DB acid	9		
	2,6-Diethylaniline	46		
	3,4-Dichloroanaline	46		
	3-Hydroxycarbofuran	13		
	4-Chloro-ortho-cresol	46		
	ACET	9		
	Acetochlor	46		
	Acifluorfen, sodium salt	9		
	Alachlor	50		
	Alachlor 2nd amide	46		
	Aldicarb	13		
	Aldicarb sulfone	13		
	Aldicarb sulfoxide	13		
	Aldrin	4		
	Atrazine	63	5	0.004 - 0.01
	Azinphos-methyl	46		
	Azinphos-methyl oxon	46		
	Bendiocarb	9		
	Benefin	46		
	Benomyl	9		
	Bensulfuron methyl	9		
	Bentazon	13		
	Bromacil	13		
	Bromoxynil phenol	9		
	Butachlor	4		
	Captan	1		
	Carbaryl	50		
	Carbofuran	13		
	Carbon disulfide	47	2	0.15 - 0.31
	Carbophenothion	1		
	Chloramben methyl ester	9		
	Chlordane	4		
	Chlorimuron ethyl	9		
	Chlorpropham	1		
	Chlorpyrifos	46		
	Chlorpyrifos oxon	46		
	cis-Propiconazole	9		
	Clopyralid	9		
	Cyanazine	1		

Ventura	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Cycloate	9		
	Cyfluthrin	46		
	Cypermethrin	46		
	DACT	9		
	Dalapon	4		
	DBCP	51		
	DCPA	46		
	DCPA acid degradates	9		
	DDVP	46		
	DEA	46	8	0.005 - 0.031
	Desulfinyl fipronil	46		
	Desulfinyl fipronil amide	46		
	Diazinon	50		
	Dicamba	13		
	Dichlorprop	9		
	Dicrotophos	46		
	Dieldrin	50		
	Dimethoate	50		
	Dinoseb	13		
	Diphenamid	10		
	Diquat dibromide	4		
	Disulfoton	1		
	Diuron	13		
	EDB	4		
	Endothall	1		
	Endrin	4		
	EPTC	1		
	Ethion	46		
	Ethion monoxon	46		
	Fenamiphos	46		
	Fenamiphos sulfone	46		
	Fenamiphos sulfoxide	46		
	Fipronil	46		
	Fipronil sulfide	46		
	Fipronil sulfone	46		
	Flumetsulam	9		
	Fluometuron	9		
	Fonofos	46		
	Glyphosate, isopropylamine salt	6		
	Heptachlor	4		
	Heptachlor epoxide	4		
	Hexachlorobenzene	4		
	Hexazinone	46		
	Imazaquin	9		
	Imazethapyr	9		
	Imidacloprid	9		
	Iprodione	46		

Ventura	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Isofenphos	46		
	Lindane (gamma-BHC)	4		
	Linuron	9		
	Malaoxon	46		
	Malathion	46		
	MCPA	9		
	MCPB	9		
	Metalaxyl	46	1	0.01
	Methidathion	46		
	Methiocarb	9		
	Methomyl	13		
	Methoxychlor	4		
	Methyl bromide	79		
	Methyl iodide	47		
	Methyl paraoxon	46		
	Methyl parathion	46		
	Metolachlor	50		
	Metribuzin	50		
	Metsulfuron-methyl	9		
	Molinate	4		
	Myclobutanil	46		
	N(4-Chlorophenyl)N methylurea	9		
	Naphthalene	79		
	Neburon	9		
	Nicosulfuron	9		
	Norflurazon	9		
	OIET	9		
	Ortho-dichlorobenzene	37		
	Oryzalin	9		
	Oxamyl	13		
	Pendimethalin	46		
	Permethrin	46		
	Phorate	46		
	Phoratoxon	46		
	Phosmet	46		
	Phosmet oxon	46		
	Picloram	14		
	Prometon	47		
	Prometryn	50	1	0.005
	Propachlor	4		
	Propham	9		
	Propoxur	9		
	Propyzamide	46		
	S,S,S-Tributyl phosphorotrithioate	46		
	Siduron	9		
	Simazine	63	9	0.005 - 0.027
	Sulfometuron methyl	9		

Ventura	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Tebuthiuron	46	1	0.02
	Terbacil	10		
	Terbufos	46		
	Terbufos oxon sulfone	46		
	Terbuthylazine	46		
	Thiobencarb	6		
	Toxaphene	4		
	Triclopyr, triethylamine salt	9		
	Trifluralin	46		
	Xylene	37		

Yolo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	29		
	1,2,4-Trichlorobenzene	29		
	1,2-D	53		
	1,3-D	53		
	2,4,5-T	2		
	2,4,5-TP	2		
	2,4-D	2		
	2,4-DB acid	16		
	2,6-Diethylaniline	23		
	3,4-Dichloroanaline	22	1	0.005
	3-Hydroxycarbofuran	18		
	4-Chloro-ortho-cresol	23		
	ACET	16	1	0.01
	Acetochlor	23		
	Acifluorfen, sodium salt	16		
	Alachlor	31		
	Alachlor 2nd amide	23		
	Aldicarb	18		
	Aldicarb sulfone	18		
	Aldicarb sulfoxide	18		
	Aldrin	2		
	Atrazine	31	3	0.004 - 0.005
	Azinphos-methyl	23		
	Azinphos-methyl oxon	23		
	Bendiocarb	16		
	Benefin	23		
	Benomyl	16		
	Bensulfuron methyl	16		
	Bentazon	17	1	0.02
	Bromacil	23		
	Bromoxynil phenol	16		
	Butachlor	7		
	Carbaryl	25		

Yolo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Carbofuran	25		
	Carbon disulfide	24	1	0.04
	Chloramben methyl ester	16		
	Chlordane	2		
	Chlorimuron ethyl	16		
	Chlorothalonil	2		
	Chlorpyrifos	23		
	Chlorpyrifos oxon	23		
	cis-Propiconazole	23		
	Clopyralid	16		
	Cycloate	16		
	Cyfluthrin	23		
	Cypermethrin	23		
	Dalapon	2		
	DBCP	27		
	DCPA	23		
	DCPA acid degradates	16		
	DDVP	23		
	DEA	23	5	0.005 - 0.022
	Desulfinyl fipronil	23		
	Desulfinyl fipronil amide	23		
	Diazinon	30		
	Dicamba	18		
	Dichlorprop	16		
	Dicrotophos	23		
	Dieldrin	25		
	Dimethoate	30		
	Dinoseb	18		
	Diphenamid	16		
	Diquat dibromide	2		
	Diuron	16		
	EDB	3	2	0.08 - 0.1
	Endothall	2		
	Endrin	2		
	Ethion	23		
	Ethion monoxon	23		
	Fenamiphos	23		
	Fenamiphos sulfone	23		
	Fenamiphos sulfoxide	23		
	Fipronil	23		
	Fipronil sulfide	23		
	Fipronil sulfone	23		
	Flumetsulam	16		
	Fluometuron	16		
	Fonofos	23		
	Glyphosate, isopropylamine salt	2		
	Heptachlor	2		

Yolo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Heptachlor epoxide	2		
	Hexachlorobenzene	2		
	Hexazinone	23	2	0.008 - 0.009
	Imazaquin	16		
	Imazethapyr	16		
	Imidacloprid	16		
	Iprodione	23		
	Isofenphos	23		
	Lambda-cyhalothrin	23		
	Lindane (gamma-BHC)	2		
	Linuron	16		
	Malaoxon	23		
	Malathion	23		
	MCPA	16		
	MCPB	16		
	Metalaxyl	23		
	Methidathion	23		
	Methiocarb	18		
	Methomyl	18		
	Methoxychlor	2		
	Methyl bromide	53		
	Methyl iodide	24		
	Methyl paraoxon	23		
	Methyl parathion	23		
	Metolachlor	30	2	0.005
	Metribuzin	30	1	0.113
	Metsulfuron-methyl	16		
	Molinate	30		
	Myclobutanil	23		
	N(4-Chlorophenyl)N methylurea	16		
	Naphthalene	53		
	Neburon	16		
	Nicosulfuron	16		
	Norflurazon	16		
	OIET	16	1	0.024
	Ortho-dichlorobenzene	29		
	Oryzalin	16		
	Oxamyl	18		
	Pendimethalin	23		
	Permethrin	23		
	Phorate	23		
	Phoratoxon	23		
	Phosmet	17		
	Phosmet oxon	12		
	Picloram	18		
	Prometon	23		
	Prometryn	23		

Yolo	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Propachlor	7		
	Propanil	23		
	Propham	16		
	Propoxur	18		
	Propyzamide	23		
	S,S,S-Tributyl phosphorotrithioate	5		
	Siduron	16		
	Simazine	31	4	0.006 - 0.01
	Sulfometuron methyl	16		
	Tebuthiuron	23	1	0.03
	Terbacil	16		
	Terbufos	23		
	Terbufos oxon sulfone	23		
	Terbuthylazine	23		
	Thiobencarb	31		
	Toxaphene	2		
	trans-Propiconazole	23		
	Triclopyr, triethylamine salt	14		
	Trifluralin	23		
	Xylene	30		

Yuba	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	1,1,2,2-Tetrachloroethane	11		
	1,2,4-Trichlorobenzene	11		
	1,2-D	19		
	1,3-D	13		
	2,4-DB acid	7		
	2,6-Diethylaniline	8		
	3,4-Dichloroanaline	8		
	3-Hydroxycarbofuran	7		
	4-Chloro-ortho-cresol	8		
	ACET	7		
	Acetochlor	8	1	0.059
	Acifluorfen, sodium salt	7		
	Alachlor	8		
	Alachlor 2nd amide	8		
	Aldicarb	7		
	Aldicarb sulfone	7		
	Aldicarb sulfoxide	7		
	Atrazine	8	4	0.004 - 0.077
	Azinphos-methyl	8		
	Azinphos-methyl oxon	8		
	Bendiocarb	7		
	Benefin	8		
	Benomyl	7		

Yuba	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Bensulfuron methyl	7		
	Bentazon	7	4	0.02 - 0.47
	Bromacil	7		
	Bromoxynil phenol	7		
	Carbaryl	8		
	Carbofuran	7		
	Carbon disulfide	8		
	Chloramben methyl ester	7		
	Chlorimuron ethyl	7		
	Chlorpyrifos	8	1	0.008
	Chlorpyrifos oxon	7		
	cis-Propiconazole	7		
	Clopyralid	7		
	Cycloate	7		
	Cyfluthrin	8		
	Cypermethrin	8		
	DBCP	8		
	DCPA	8		
	DCPA acid degradates	7		
	DDVP	8		
	DEA	8	4	0.006 - 0.022
	Desulfinyl fipronil	8	1	0.008
	Desulfinyl fipronil amide	8		
	Diazinon	8		
	Dicamba	7		
	Dichlorprop	7		
	Dicrotophos	8		
	Dieldrin	8		
	Dimethoate	8		
	Dinoseb	7		
	Diphenamid	7		
	Diuron	7		
	Ethion	8		
	Ethion monoxon	8		
	Fenamiphos	8		
	Fenamiphos sulfone	8		
	Fenamiphos sulfoxide	8		
	Fipronil	8	1	0.017
	Fipronil sulfide	8	1	0.006
	Fipronil sulfone	8	1	0.008
	Flumetsulam	7		
	Fluometuron	7		
	Fonofos	8		
	Hexazinone	8		
	Imazaquin	7		
	Imazethapyr	7		
	Imidacloprid	7		

Yuba	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Iprodione	8		
	Isofenphos	8		
	Lambda-cyhalothrin	7		
	Linuron	7		
	Malaoxon	8		
	Malathion	8		
	MCPA	7		
	MCPB	7		
	Metalaxyl	8		
	Methidathion	8		
	Methiocarb	7		
	Methomyl	7		
	Methyl bromide	14		
	Methyl iodide	8		
	Methyl paraoxon	8		
	Methyl parathion	8		
	Metolachlor	8	1	0.028
	Metribuzin	8		
	Metsulfuron-methyl	7		
	Molinate	7	1	0.013
	Myclobutanil	8		
	N(4-Chlorophenyl)N methylurea	7		
	Naphthalene	18		
	Neburon	7		
	Nicosulfuron	7		
	Norflurazon	7		
	OIET	7		
	Ortho-dichlorobenzene	11		
	Oryzalin	7		
	Oxamyl	7		
	Pendimethalin	8		
	Permethrin	8		
	Phorate	8		
	Phoratoxon	8		
	Phosmet	6		
	Phosmet oxon	6		
	Picloram	7		
	Prometon	8	1	0.019
	Prometryn	8		
	Propanil	7		
	Propham	7		
	Propoxur	7		
	Propyzamide	8		
	S,S,S-Tributyl phosphorotrithioate	8		
	Siduron	7		
	Simazine	8	2	0.003 - 0.024
	Sulfometuron methyl	7		

Yuba	Pesticide	Wells Sampled	Wells with Detections	Concentration (ppb)
	Tebuthiuron	8		
	Terbacil	7		
	Terbufos	8		
	Terbufos oxon sulfone	8		
	Terbuthylazine	8		
	Thiobencarb	7		
	trans-Propiconazole	7		
	Triclopyr, triethylamine salt	2		
	Trifluralin	8		
	Xylene	11		

APPENDIX G – DETECTION INFORMATION FROM 1984 TO PRESENT FOR ALL REPORTING AGENCIES

The following tables summarize detections in ground water reported to DPR from 1984 through 2011 for pesticides that are registered in California (Table E-1) and for those that are no longer, or have never been, registered in California (Table E-2). If a pesticide or degradate was not sampled during the most current reporting period, the 'Current Min-Max' column was left blank.

Table G-1: Registered pesticides and degradation products detected by all reporting agencies.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
1,3-D	57/4	12,430/8	0.64 - 1.9		CDPH MCL OEHHA PHG	0.5 0.2	CDPR CDWR SWRCB CDPH	1% 2% 15% 74%	Fumigant.
2,4-D	58/12	7,579/17	0.3 - 46		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	70 20 70 70	CDPR CDWR SWRCB CDPH	1% 3% 6% 89%	Herbicide.
2,6-Diethylaniline	55/1	1,837/2	0.004	0.004	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of alachlor.
2-Hydroxycyclohexyl hexazinone	8/1	69/1	0.126		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of hexazinone.
3,4-Dichloroaniline	55/20	1,830/94	0.001 - 0.541	0.001 - 0.541	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of diuron, linuron and propanil.

[30] Sources for the water quality standards and health advisory levels are provided following Table E-2.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
3,5-Dichloroaniline	20/2	388/3	0.002 - 0.006	0.002 - 0.006	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of iprodione and vinclozolin.
ACET	42/24	2,387/ 498	0.01 - 6	0.01 - 1.49	---		CDPR CDWR SWRCB CDPH	68% 0% 31% 0%	Degradate of atrazine or simazine. DPR regulates the use of atrazine and simazine in GWPAs based on detections of ACET.
Alachlor	58/5	9,957/5	0.004 - 9	0.004	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	2 4 2 0	CDPR CDWR SWRCB CDPH	3% 2% 18% 73%	Herbicide.
Alachlor ESA	10/7	167/34	0.05 - 1.38		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of alachlor. Refer to Appendix B for more information.
Alachlor OXA	10/2	167/2	0.05 - 0.058		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of alachlor. Refer to Appendix B for more information.
Aldicarb	55/3	6,730/5	1.1 - 87[31]		CDPH AAL U.S. EPA HAL	7 7	CDPR CDWR SWRCB CDPH	4% 3% 11% 76%	Insecticide. Refer to Appendix B for more information.
Aldicarb sulfone	52/6	5,560/61	0.05 - 1281[32]		U.S. EPA HAL	7	CDPR CDWR SWRCB CDPH	4% 0% 13% 78%	Degradate of aldicarb. Refer to Appendix B for more information.

[31] In 2009, CDPH reported a detection of 87 ppb of aldicarb in a well however, this pesticide was not detected in follow-up sampling conducted three months later.

[32] In 1986, Rhone-Poulenc Ag. Co. reported a detection of 1281 ppb of aldicarb sulfone in Stanislaus County. Rhone-Poulenc Ag. Co. also reported a detection of 768 ppb and 965 ppb of aldicarb sulfone in a nearby well in the same year.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Aldicarb sulfoxide	52/5	5,567/25	0.06 - 13.2		U.S. EPA HAL	7	CDPR CDWR SWRCB CDPH	4% 0% 13% 78%	Degradate of aldicarb. Refer to Appendix B for more information.
Aldicarb total (parent and breakdown products)	10/2	110/33	0.13 - 49		See aldicarb and individual breakdown products above		CDPR SWRCB CDWR CDPH	0% 70% 0% 0%	Combined aldicarb parent and degradates reported by some agencies in the mid-1980s and as late as 2003.This reporting method is no longer used by agencies sampling for aldicarb and its degradates. Refer to Appendix B for more information.
Atrazine	58/38	14,717/ 632	0.001 - 8.5	0.002 - 0.247	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	1 0.15 3	CDPR CDWR SWRCB CDPH	28% 2% 13% 58%	Herbicide. DPR regulates the use of this pesticide in GWPAs following its detection in ground water due to legal agricultural use.
Azinphos-methyl	56/1	3,127/1	0.014		---		CDPR CDWR SWRCB CDPH	1% 3% 59% 29%	Insecticide.
Azoxystrobin acid	11/1	124/3	0.101 - 0.268		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of azoxystrobin, Refer to Appendix B for more information.
Bensulfuron methyl	36/1	753/1	0.01	0.01	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Herbicide.
Bentazon	55/19	6,636/159	0.01 - 20	0.01 - 1.82	CDPH MCL OEHHA PHG U.S. EPA HAL	18 200 200	CDPR CDWR SWRCB CDPH	4% 1% 11% 82%	Herbicide. DPR regulates the use of this pesticide in GWPAs and prohibits applications to rice following its detection in ground water due to legal agricultural use.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Bromacil	56/22	11,406/ 307	0.01 - 23	0.01 - 6.69	U.S. EPA HAL	70	CDPR CDWR SWRCB CDPH	34% 1% 6% 60%	Herbicide. DPR regulates the use of this pesticide in GWPAs following its detection in ground water due to legal agricultural use.
Captan	38/2	1,529/3	0.1 - 0.5		CDPH AAL	15	CDPR CDWR SWRCB CDPH	1% 11% 0% 80%	Fungicide.
Carbaryl	57/5	7,819/5	0.007 - 55[33]	0.007	CDPH AAL	700	CDPR CDWR SWRCB CDPH	0% 3% 24% 70%	Insecticide.
Chlorothalonil	51/2	4,556/2	0.02 - 1.1	0.02	---		CDPR CDWR SWRCB CDPH	1% 3% 0% 94%	Fungicide.
Chlorpyrifos	56/4	3,290/5	0.006 - 0.06	0.006 - 0.008	U.S. EPA HAL	2	CDPR CDWR SWRCB CDPH	0% 4% 56% 33%	Insecticide.
DCPA	55/5	3,386/14	0.002 - 300[34]	0.002 - 0.004	U.S. EPA HAL	70	CDPR CDWR SWRCB CDPH	9% 4% 56% 29%	Herbicide. Registered. Refer to Appendix B for more information.

[33] In 1987, the Central Coast Regional Water Quality Control Board (CCRWQCB) reported a detection of 2 ppb of carbaryl in one well but did not detect this pesticide in a follow-up sample taken four months later. Between 1988 and 1993, CDPH reported detections of 2, 2.3, and 55 ppb of carbaryl in three wells but did not detect this pesticide in follow-up samples taken during the same period.

[34] In 1988, the CCRWQCB reported a detection of 300, 1.3, 0.7 ppb of chlorthal-dimethyl in one well. In 1989, they detected this pesticide in two additional wells with concentrations ranging from 2 to 3.6 ppb. In 1989, DPR sampled in the vicinity of these wells but did not detect chlorthal-dimethyl.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]	Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
DCPA, MTP and TPA (total combined)	8/8	74/60	0.03 - 10.9	NS	---	CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	This analytical method is no longer used by DPR. Refer to Appendix B for more information.
DCPA acid degradates[35]	47/15	2965/74	0.01 - 30		---	CDPR CDWR SWRCB CDPH	12% 1% 15% 70%	Acid degradates of DCPA. Refer to Appendix B for more information.
Coumaphos	12/1	133/1	1		---	CDPR CDWR SWRCB CDPH	0% 80% 0% 5%	Insecticide.
DACT	34/12	1,140/ 298	0.05 - 7.158	0.05 - 5.22	---	CDPR CDWR SWRCB CDPH	92% 0% 6% 0%	Degradate of atrazine or simazine. DPR regulates the use of atrazine and simazine in GWPAs based on detections of DACT.
DDVP	56/1	2,067/1	0.01	0.01	---	CDPR CDWR SWRCB CDPH	1% 5% 89% 4%	Insecticide.
DEA	57/38	3,525/ 515	0.001 - 2	0.001 - 0.212	---	CDPR CDWR SWRCB CDPH	46% 0% 52% 0%	Degradate of atrazine. DPR regulates the use of atrazine in GWPAs based on detections of DEA.
Demethyl-norflurazon[36]	2/2	5/5	0.24 - 0.57		---	CDPR CDWR SWRCB CDPH	0% 0% 0% 0%	Degradate of norflurazon. DPR regulates the use of norflurazon in GWPAs based on detections of this degradate.

[35] DCPA acid degradates, MTP and TPA have been reported to DPR in several ways. For the purposes of this report, DPR has combined all sampling data for these degradates into one category. These data are maintained in DPR's data system as they were reported to DPR.

[36] These detections were reported to DPR by the USGS. "Demethyl-norflurazon" is assumed to be a synonym of "desmethyl-norflurazon" or "DSMN", the term used by DPR in its monitoring programs.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Desulfinyl fipronil	55/6	1,837/12	0.003 - 0.008	0.003 - 0.008	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of fipronil.
Desulfinyl fipronil amide	55/1	1,837/1	0.006	0.006	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of fipronil.
Diazinon	58/8	9,173/11	0.003 – 3.2	0.003 - 0.108	CDPH NL U.S. EPA HAL	1.2 1	CDPR CDWR SWRCB CDPH	1% 2% 20% 73%	Insecticide.
Dicamba	54/5	5,719/7	0.01 - 0.5		U.S. EPA HAL	4000	CDPR CDWR SWRCB CDPH	1% 3% 12% 80%	Herbicide.
Dimethoate	57/3	8,629/3	0.38 - 10		CDPH AAL	1	CDPR CDWR SWRCB CDPH	0% 1% 21% 76%	Insecticide.
Diquat dibromide	48/8	4,843/13	0.44 – 6.6	0.44	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	20 15 20 20	CDPR CDWR SWRCB CDPH	0% 0% 0% 100%	Herbicide.
Diuron	55/24	9,025/ 569	0.01 - 5.2	0.01 - 1.57	---		CDPR CDWR SWRCB CDPH	43% 2% 7% 46%	Herbicide. DPR regulates the use of this pesticide in GWPAs following its detection in ground water due to legal agricultural use.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]	Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
DSMN	26/6	663/89	0.05 - 1.86	0.051 - 0.82	---	CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of norflurazon. DPR regulates the use of norflurazon in GWPAs based on detections of this degradate.
Endosulfan	50/4	3,290/10	0.01 - 34.7[37]		---	CDPR CDWR SWRCB CDPH	2% 8% 12% 73%	Insecticide.
Endosulfan sulfate	50/2	2,646/3	0.15 - 0.48		---	CDPR CDWR SWRCB CDPH	1% 7% 15% 69%	Degradate of endosulfan.
EPTC	44/3	2,766/11	0.002 - 170[38]	0.002 - 0.039	---	CDPR CDWR SWRCB CDPH	3% 0% 14% 78%	Herbicide.
Fipronil	55/5	1,837/8	0.005 - 0.017	0.005 - 0.017	---	CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Insecticide.
Fipronil sulfide	55/7	1,837/11	0.005 - 0.009	0.005 - 0.009	---	CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of fipronil.
Fipronil sulfone	55/4	1,837/5	0.005 - 0.008	0.005 - 0.008	---	CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of fipronil.

[37] In 1992, Glenn County reported a detection of 34.7 ppb of endosulfan in one well but did not detect this pesticide in a follow-up sample taken one month later.

[38] In 1989 DWR reported a detection of 170 ppb of EPTC in a well however, this pesticide was not detected in follow-up sampling they conducted in 1990. In 1991, DWR took a third sample from this well and reported a detection of 5.6 ppb of EPTC.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Glyphosate, isopropylamine salt	52/1	4,778/1	20 - 20		CDPR MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	700 900 700 700	CDPR CDWR SWRCB CDPH	0% 0% 0% 99%	Herbicide.
Hexazinone	57/19	4,386/62	0.007 - 0.55	0.007 - 0.067	U.S. EPA HAL	400	CDPR CDWR SWRCB CDPH	56% 0% 42% 2%	Herbicide. Refer to Appendix B for more information.
Imidacloprid	37/1	817/1	0.005	0.005	---		CDPR CDWR SWRCB CDPH	8% 0% 92% 0%	Insecticide. Registered.
Malathion	56/1	3,058/1	0.32		CDPH AAL U.S. EPA HAL	160 500	CDPR CDWR SWRCB CDPH	0% 5% 60% 25%	Insecticide.
MCPA	36/1	825/1	0.02	0.02	U.S. EPA HAL	30	CDPR CDWR SWRCB CDPH	0% 0% 91% 0%	Herbicide.
Metalaxyl	55/8	1,874/18	0.004 - 0.144	0.004 - 0.144	---		CDPR CDWR SWRCB CDPH	2% 0% 98% 0%	Fungicide.
Methomyl	52/2	6,271/2	0.8 - 15		U.S. EPA HAL	200	CDPR CDWR SWRCB CDPH	0% 4% 12% 80%	Insecticide.
Methyl bromide	58/17	13,930/ 40	0.5 - 9.3[39]	0.56 - 2.1	U.S. EPA HAL	10	CDPR CDWR SWRCB CDPH	0% 1% 13% 78%	Fumigant.

[39] In 2008, CDPH reported a detection of 9.3 ppb of methyl bromide in one well but did not detect this pesticide in follow-up sampling conducted in 2010. In 2010, CDPH reported a detection of 7.7 ppb of methyl bromide in another well but did not detect this pesticide in follow-up sampling in the same year.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Metolachlor / s-Metolachlor	57/18	7,907/40	0.002 - 0.16	0.002 - 0.16	U.S. EPA HAL	700	CDPR CDWR SWRCB CDPH	3% 0% 23% 73%	Herbicide.
Metolachlor ESA	9/7	166/64	0.05 - 24		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of metolachlor. Refer to Appendix B for more information.
Metolachlor OXA	9/5	166/23	0.05 - 2.65		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of metolachlor. Refer to Appendix B for more information.
Metribuzin	57/2	9,182/2	0.01 - 0.113	0.01 - 0.113	U.S. EPA HAL	70	CDPR CDWR SWRCB CDPH	19% 0% 20% 61%	Registered.
MTP	36/1	1027/1	2.41 - 2.55		---		CDPR CDWR SWRCB CDPH	27% 0% 73% 0%	Degradate of chlorthal-dimethyl. Refer to Appendix B for more information.
Myclobutanil	55/4	1,838/4	0.005 - 0.034	0.005 - 0.034	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Fungicide.
Naled	16/1	221/1	5		---		CDPR CDWR SWRCB CDPH	3% 48% 0% 40%	Insecticide.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Norflurazon	40/10	2,064/84	0.01 - 2.48	0.01 - 0.499	U.S. EPA HAL	30[40]	CDPR CDWR SWRCB CDPH	60% 0% 36% 0%	Herbicide. DPR regulates the use of this pesticide in GWPAs following its detection in ground water due to legal agricultural use.
OIET	36/7	722/9	0.003 - 0.042	0.003 - 0.042	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of atrazine.
Oxamyl	52/3	6,532/10	0.01 - 9	0.01 - 0.08	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	50 26 200 200	CDPR CDWR SWRCB CDPH	0% 4% 11% 82%	Insecticide and nematicide.
Paraquat dichloride	34/3	978/5	0.91 - 16		U.S. EPA HAL	30	CDPR CDWR SWRCB CDPH	2% 10% 0% 88%	Herbicide.
Pendimethalin	55/1	1,930/1	0.039	0.039	---		CDPR CDWR SWRCB CDPH	0% 0% 95% 1%	Herbicide.
Phorate	56/1	3,034/1	0.004	0.004	---		CDPR CDWR SWRCB CDPH	0% 4% 61% 25%	Insecticide.

[40] The 2011 Edition of the Drinking Water Standards and Advisories (U.S. EPA Office of Water), where most of the HALs in this appendix were obtained, did not include a HAL for norflurazon. The HAL for norflurazon was obtained from the 1996 Registration Eligibility Document Fact Sheet for norflurazon published in 1996 by the U.S. EPA Office of Pesticide Programs <http://www.epa.gov/oppsrrd1/REDs/factsheets.0229fact.pdf>.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Prometon	57/22	7,395/ 121	0.004 - 80[41]	0.004 - 0.036	U.S. EPA HAL	400	CDPR CDWR SWRCB CDPH	54% 3% 25% 13%	Herbicide. DPR regulates the use of this pesticide in GWPAs following its detection in ground water due to legal agricultural use.
Prometryn	58/7	10,237/ 10	0.005 - 0.5	0.005 - 0.009	---		CDPR CDWR SWRCB CDPH	16% 2% 18% 62%	Herbicide.
Propanil	29/2	736/2	0.006 - 0.097	0.006 - 0.097	---		CDPR CDWR SWRCB CDPH	0% 1% 84% 3%	Herbicide.
cis-Propiconazole	40/1	971/1	0.001	0.001	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Fungicide.
trans-Propiconazole	27/1	620/1	0.01	0.01	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Fungicide.
Propoxur	49/2	2,526/2	4 - 5		---		CDPR CDWR SWRCB CDPH	0% 8% 29% 55%	Insecticide.
Siduron	39/2	1,115/9	0.01	0.01	---		CDPR CDWR SWRCB CDPH	2% 19% 67% 10%	Herbicide.

[41] The USGS sampled in a well in Fresno County twice and reported a detection of 80 ppb in one sample and no residues in the other sample. As there are no sample dates associated with these reports (a common issue for data reported to DPR in the 1980s), it is not possible to determine the order in which these samples were taken. There are no other follow-up sampling data available for this well. The median value of all detections of prometon in DPR's database is 0.019 ppb.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Simazine	58/42	15,261/ 1,238	0.002 - 49.2[42]	0.003 - 0.268	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	4 4 4 4	CDPR CDWR SWRCB CDPH	28% 2% 12% 58%	Herbicide. DPR regulates the use of this pesticide in GWPAs following its detection in ground water due to legal agricultural use.
Sulfometuron methyl	36/3	739/3	0.003 - 0.064	0.003 - 0.064	---		CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Herbicide.
Tebuthiuron	55/14	2,340/42	0.005 - 22.1	0.01 - 0.23	U.S. EPA HAL	500	CDPR CDWR SWRCB CDPH	16% 0% 79% 2%	Herbicide. See Appendix B for more information.
Tebuthiuron degradate 104	24/1	264/1	0.058		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of tebuthiuron. See Appendix B for more information.
Terbuthylazine	56/2	2,137/2	0.01	0.01	---		CDPR CDWR SWRCB CDPH	0% 9% 86% 2%	Herbicide.
Tetrachlorvinphos	23/1	190/1	1 - 1		---		CDPR CDWR SWRCB CDPH	3% 56% 0% 29%	Insecticide.
Thiobencarb	56/6	8,047/9	0.006 - 8.7		CDPH MCL OEHHA PHG	70 70	CDPR CDWR SWRCB CDPH	3% 1% 8% 87%	Herbicide.
Thiram	2/1	18/4	5 - 17		---		CDPR CDWR SWRCB CDPH	56% 0% 0% 0%	Fungicide.

[42] CDPH sampled a well in Fresno County twice, reporting detections of 10.4 ppb and 49.2 ppb. There are no other follow-up sampling data available for this well. The median value of all detections of simazine in DPR's database is 0.141 ppb.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min – Max (All Report Years)	Current Min – Max (Current Report Year)	Water Quality Standards and Health Advisories[30]		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
TPA	10/8	274/35	0.1 - 15		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of DCPA. See Appendix B for more information.
Triclopyr, triethylamine salt	36/1	806/1	0.12	0.12	---		CDPR CDWR SWRCB CDPH	0% 0% 90% 0%	Herbicide.
Trifluralin	55/4	3,261/4	0.005 - 0.9	0.005 - 0.006	U.S. EPA HAL	10	CDPR CDWR SWRCB CDPH	0% 1% 56% 28%	Herbicide.

Table G-2: Inactive Pesticides and Degradation Products Detected by All Reporting Agencies

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
1,1,2,2-Tetrachloroethane	57/7	9,213/8	0.83 - 51.4		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA HAL	1 0.1 0 70	CDPR CDWR SWRCB CDPH	0% 1% 0% 90%	Fumigant. Never registered by DPR. Previously registered by the U.S. EPA.
1,2,4-Trichlorobenzene	58/6	8,478/9	0.53 - 21	2	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG U.S. EPA HAL	0.15 5 70 70 70	CDPR CDWR SWRCB CDPH	0% 0% 0% 99%	Herbicide. Never registered by DPR. Previously registered by the U.S. EPA..
1,2-D	58/27	14,307/236	0.02 - 160	0.02 - 1.19	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	5 0.5 5 0	CDPR CDWR SWRCB CDPH	1% 2% 14% 77%	Fumigant. Never registered by DPR. Previously registered by the U.S. EPA..
2,4,5-T	47/2	2,211/2	0.02 - 0.21		U.S. EPA HAL	70	CDPR CDWR SWRCB CDPH	0% 6% 0% 89%	Herbicide. Previously registered by the U.S. EPA and DPR.
2,4,5-TP	58/3	6,599/4	0.15 - 1.4		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG U.S. EPA HAL	50 25 50 50 50	CDPR CDWR SWRCB CDPH	0% 3% 0% 94%	Herbicide. Previously registered by the U.S. EPA and DPR.
2,4-DP, isooctyl ester	9/2	106/3	0.01 - 0.06		---		CDPR CDWR SWRCB CDPH	17% 25% 0% 0%	Herbicide. Previously registered by the U.S. EPA and DPR
Acetochlor	55/4	3,335/4	0.002 - 0.059	0.002 - 0.059			CDPR CDWR SWRCB CDPH	0% 0% 55% 43%	Herbicide. Never registered by DPR. Currently registered by the U.S. EPA..
Aldrin	54/2	5,624/24	21 - 107		CDPH ANL	0.002	CDPR CDWR SWRCB CDPH	0% 5% 0% 92%	Insecticide. Previously registered by the U.S. EPA and DPR.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Benomyl	42/3	1,841/3	0.003 - 500[43]	0.003	---		CDPR CDWR SWRCB CDPH	1% 10% 41% 48%	Fungicide. Previously registered by the U.S. EPA and DPR.
BHC (other than gamma isomer)	49/1	2,247/1	0.08		---		CDPR CDWR SWRCB CDPH	0% 11% 0% 80%	Fungicide. Never registered by DPR. Previously registered by the U.S. EPA..
Butachlor	52/1	5,679/1	0.39		---		CDPR CDWR SWRCB CDPH	0% 0% 0% 100%	Herbicide. Never registered by DPR. Previously registered by the U.S. EPA..
Carbofuran	54/4	7,578/5	0.016 - 0.686		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	18 1.7 40 40	CDPR CDWR SWRCB CDPH	4% 3% 13% 76%	Insecticide. Previously registered by the U.S. EPA and DPR.
Carbon disulfide	55/31	3,125/85	0.01 - 5	0.01 - 2.7	CDPH NL	160	CDPR CDWR SWRCB CDPH	1% 0% 59% 40%	Fumigant. Previously registered by the U.S. EPA and DPR.
Chlordane	56/1	6,924/1	20		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	0.1 0.03 0.002 0	CDPR CDWR SWRCB CDPH	1% 4% 0% 93%	Insecticide. Previously registered by the U.S. EPA and DPR.
Chlorimuron ethyl	36/1	739/1	0.004	0.004			CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Herbicide. Never registered by DPR. Currently registered by the U.S. EPA.

[43] In 1988, CDPH reported a detection of 500 ppb of benomyl in one well but did not detect this pesticide in a follow-up sample taken in 1992. In 1991, the U.S. Department of Agriculture reported a detection of 190 ppb of benomyl in one well but did not detect this pesticide in follow-up samples taken in 1992.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Dalapon	50/1	5,206/5	1 - 17		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG U.S. EPA HAL	200 790 200 200 200	CDPR CDWR SWRCB CDPH	0% 1% 0% 99%	Herbicide. Previously registered by the U.S. EPA and DPR.
DBCP	58/25	14,515/3,158	0.001 - 8000	0.01 - 2.03	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	0.2 0.0017 0.2 0	CDPR CDWR SWRCB CDPH	3% 2% 13% 66%	Soil fumigant. Previously registered by the U.S. EPA and DPR. Source of residues considered by DPR to be from historical nonpoint source, legal agricultural use. CDPH and/or SWRCB are authorized to respond to these detections.
DDD	43/1	1,941/1	1.04		---		CDPR CDWR SWRCB CDPH	2% 7% 0% 80%	Degradate of DDT.
DDE	45/3	3,460/6	0.01 - 0.09		---		CDPR CDWR SWRCB CDPH	1% 5% 0% 87%	Degradate of DDT.
DDT	43/3	2,151/4	0.02 - 0.12		---		CDPR CDWR SWRCB CDPH	2% 9% 0% 79%	Insecticide. Previously registered by the U.S. EPA and DPR.
Demeton	46/1	1,774/1	1		---		CDPR CDWR SWRCB CDPH	0% 8% 0% 86%	Insecticide. Previously registered by the U.S. EPA and DPR.
Dichlorprop	36/1	802/1	6.8		---		CDPR CDWR SWRCB CDPH	0% 5% 94% 0%	Herbicide. Never registered by DPR. Previously registered by the U.S. EPA..
Dichlorprop, butoxyethanol ester	33/3	555/3	0.1 - 6.8		---		CDPR CDWR SWRCB CDPH	0% 12% 0% 72%	Herbicide. Previously registered by the U.S. EPA and DPR.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Dicrotophos	55/1	1,843/1	0.03	0.03	---		CDPR CDWR SWRCB CDPH	0% 0% 99% 0%	Insecticide. Previously registered by DPR. Currently registered by the U.S. EPA..
Dieldrin	57/8	7,501/15	0.002 - 7	0.002 - 0.007	CDPH AAL	0.002	CDPR CDWR SWRCB CDPH	0% 3% 25% 69%	Insecticide. Previously registered by the U.S. EPA and DPR.
Dinoseb	52/5	6,966/8	0.01 - 30	0.01 - 0.04	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	7 14 7 7	CDPR CDWR SWRCB CDPH	0% 3% 11% 84%	Herbicide. Previously registered by the U.S. EPA and DPR.
Diphenamid	42/6	1,630/11	0.01 - 0.03	0.01 - 0.03	U.S. EPA MCL U.S. EPA HAL	0 200	CDPR CDWR SWRCB CDPH	0% 4% 44% 48%	Herbicide. Previously registered by the U.S. EPA and DPR.
Endothall	49/2	4,333/3	64 - 160	64	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG U.S. EPA HAL	100 580 100 100 50	CDPR CDWR SWRCB CDPH	0% 2% 0% 96%	Herbicide. Previously registered by DPR. Currently registered by the U.S. EPA.. Early 1989 detections were not confirmed by DPR monitoring.
Endrin	58/4	7,244/5	0.03 - 2		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG U.S. EPA HAL	2 1.8 2 2 2	CDPR CDWR SWRCB CDPH	0% 4% 0% 93%	Insecticide. Previously registered by the U.S. EPA and DPR.
EDB	56/20	8,683/187	0.006 - 4.7	0.01 - 0.17	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	0.05 0.01 0.05 0	CDPR CDWR SWRCB CDPH	5% 3% 1% 88%	Fumigant, insecticide, and nematicide. Previously registered by the U.S. EPA and DPR. Source of residues considered by DPR to be from historical non-point source, legal agricultural use. CDPH and/or SWRCB are authorized to respond to these detections.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Ethylene thiourea	8/1	67/1	0.725		---		CDPR CDWR SWRCB CDPH	9% 0% 0% 46%	Degradate of EDB.
Ethylene dichloride (1,2-dichloroethane)	11/1	197/1	2.9		CDPH MCL OEHHA PHG U.S. EPA MCL	0.5 0.4 5	CDPR CDWR SWRCB CDPH	0% 7% 0% 0%	Fumigant. Previously registered by the U.S. EPA and DPR.
Heptachlor	56/4	6,703/12	0.01 - 0.25		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	0.01 0.008 0.4 0	CDPR CDWR SWRCB CDPH	1% 4% 0% 92%	Insecticide. Previously registered by the U.S. EPA and DPR.
Heptachlor epoxide	56/1	6,690/1	0.01		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	0.01 0.006 0.2 0	CDPR CDWR SWRCB CDPH	1% 3% 0% 93%	Degradate of heptachlor.
Imazethapyr	36/6	751/6	0.01 - 0.43	0.01 - 0.43			CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Herbicide. Previously registered by DPR. Currently registered by the U.S. EPA..
Isofenphos	55/1	1,838/1	0.006	0.006			CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Insecticide. Previously registered by the U.S. EPA and DPR.
Lindane (gamma-BHC)	58/3	7,341/6	0.05 - 180		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	0.2 0.032 0.2 0.2	CDPR CDWR SWRCB CDPH	1% 4% 0% 92%	Insecticide. Previously registered by the U.S. EPA and DPR.
Merphos	21/2	428/2	1 - 1.5		---		CDPR CDWR SWRCB CDPH	0% 17% 0% 78%	Defoliant. Previously registered by the U.S. EPA and DPR.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Methoxychlor	57/2	6,868/4	0.32 - 0.55		CDPH MCL OEHHA PHG U.S. EPA HAL U.S. EPA MCL U.S. EPA MCLG	30 0.09 40 40 40	CDPR CDWR SWRCB CDPH	1% 3% 0% 93%	Insecticide. Previously registered by the U.S. EPA and DPR.
Methylene chloride (dichloromethane)	6/2	61/6	3 - 6		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	5 4 5 0	CDPR CDWR SWRCB CDPH	0% 84% 0% 0%	Fumigant. Previously registered by the U.S. EPA and DPR.
Mexacarbate	23/1	427/1	22		---		CDPR CDWR SWRCB CDPH	0% 49% 0% 29%	Insecticide. Previously registered by the U.S. EPA and DPR.
Molinate	55/9	8,160/19	0.002 - 29	0.008 - 0.066	CDPH MCL OEHHA PHG	20 1	CDPR CDWR SWRCB CDPH	4% 0% 8% 87%	Herbicide. Previously registered by the U.S. EPA and DPR.
Molinate sulfoxide	17/1	210/1	0.8		---		CDPR CDWR SWRCB CDPH	100% 0% 0% 0%	Degradate of molinate.
Monuron	26/1	515/4	0.04 - 2		---		CDPR CDWR SWRCB CDPH	5% 42% 1% 33%	Herbicide. Previously registered by the U.S. EPA and DPR.
N(4-Chlorophenyl)N methylurea	36/4	751/5	0.01 - 0.02	0.01 - 0.02			CDPR CDWR SWRCB CDPH	0% 0% 100% 0%	Degradate of monuron.
Naphthalene	57/13	9,962/31	0.3 - 66	0.3 - 0.5	CDPH NL U.S. EPA HAL	17 100	CDPR CDWR SWRCB CDPH	0% 0% 19% 80%	Fumigant. Previously registered by DPR. Currently registered by the U.S. EPA..

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Ortho-dichlorobenzene	58/10	11,369/22	0.56 - 12		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG U.S. EPA HAL	600 600 600 600 600	CDPR CDWR SWRCB CDPH	0% 2% 0% 90%	Herbicide and insecticide. Previously registered by the U.S. EPA and DPR.
Picloram	52/3	5,982/6	0.1 - 3.6	3.6	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	500 500 500 500	CDPR CDWR SWRCB CDPH	0% 0% 12% 85%	Herbicide. Previously registered by DPR. Currently registered by the U.S. EPA..
Propachlor	52/1	5,583/1	1.1		CDPH NL	90	CDPR CDWR SWRCB CDPH	0% 2% 0% 96%	Herbicide. Previously registered by the U.S. EPA and DPR.
Propazine	41/1	1,065/1	0.2		U.S. EPA HAL	10	CDPR CDWR SWRCB CDPH	8% 21% 0% 38%	Herbicide. Previously registered by DPR. Currently registered by the U.S. EPA..
Propham	40/1	1,827/1	6		U.S. EPA HAL	100	CDPR CDWR SWRCB CDPH	0% 14% 41% 31%	Herbicide. Previously registered by the U.S. EPA and DPR.
Tetrachloroethylene	9/3	193/5	0.2 - 2.5		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG U.S. EPA HAL	5 0.06 5 0 10	CDPR CDWR SWRCB CDPH	0% 0% 0% 0%	Insecticide. Previously registered by the U.S. EPA and DPR.
Toxaphene	58/4	7,376/6	1 - 57		CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	3 0.03 3 0	CDPR CDWR SWRCB CDPH	1% 4% 0% 92%	Insecticide. Previously registered by the U.S. EPA and DPR.

Pesticide	Counties Sampled/Positive Counties	Wells Sampled/Positive Wells	Historical Min-Max (ppb) (All Report Years)	Current Min-Max (ppb) (Current Report Year)	Water Quality Standards and Health Advisories (ppb)		Reporting Agency Distribution		Pesticide Type, CA Registration Status, Comments
Xylene	58/32	11,205/118	0.25 - 1100	0.72 - 1.3	CDPH MCL OEHHA PHG U.S. EPA MCL U.S. EPA MCLG	1,750 1,800 10,000 10,000	CDPR CDWR SWRCB CDPH	1% 1% 0% 91%	Insecticide. Previously registered by the U.S. EPA and DPR.. Currently used in petroleum and chemical manufacturing. Detections are the result of the industrial use of this chemical.

The following abbreviations apply to the Water Quality Limits mentioned above (All limits were converted into ppb)

CDPH Archived Advisory Levels (AAL) for Drinking Water. Source: CDPH. Last update: March 2012. (<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/NotificationLevels.aspx>).

CDPH Maximum Contaminant Levels (MCL). Source: CDPH. Last update: January 2013. (<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/MCLsandPHGs.aspx>).

CDPH Notification Levels (NL). Source: CDPH. Last update: March 2012. (<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/NotificationLevels.aspx>).

OEHHA California Public Health Goals (PHG). Source: CDPH. Last update: January 2013. (<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/MCLsandPHGs.aspx>).

U.S. EPA Lifetime Health Advisory Limits (HAL). Source: U.S. EPA. Last update: Spring 2012. (<http://water.epa.gov/action/advisories/drinking/upload/dwstandards2012.pdf>).

For pesticides that are no longer registered, the Pesticide Action Network provides HALs. Source: Pesticide Action Network Pesticide Database. (<http://www.pesticideinfo.org/>).

U.S. EPA Maximum Contaminant Levels (MCL). Source: U.S. EPA. Last update: June 2012. (<http://www.epa.gov/safewater/contaminants/#organic>).

U.S. EPA Maximum Contaminant Level Goals (MCLG). Source: U.S. EPA. Last update: June 2012). (<http://www.epa.gov/safewater/contaminants/#organic>)

GLOSSARY OF TERMS

TERM	*DEFINITION*
AB 1803	(1983) (Chapter 881, Statutes of 1983) A law that required CDPH to evaluate each public water system to determine its potential for contamination. The systems were required to conduct specified water analyses and to report those results. Monitoring required by AB 1803 was completed in June 1989.
AB 2021	See "Pesticide Contamination Prevention Act."
AB 2701	AB 2701 (Chapter 644, Statutes of 2004) amended the Pesticide Contamination Prevention Act (PCPA) to require DPR to post specified information on sampling for pesticide residues in California ground water to its Web site. This law replaced the previous requirement that DPR submit the sampling information in a written report to the Legislature, SWRCB, and CDPH.
Archived advisory level (AAL)	In 1982 and 1983, CDPH provided advisory levels (then called "action levels" and now called "notification levels") for a number of chemicals to the Central Valley Regional Water Quality Control Board. Many were pesticides that had not been detected in drinking water but which were nonetheless of concern because of their association with a particular site. Some of those chemicals now have enforceable drinking water standards. The remaining chemicals were archived, along with several others with advisory levels established in 1990-91, or updated more recently. If a chemical is detected above its archived advisory level, the requirements and recommendations are the same as for chemicals detected above their notification levels and response levels. More information is available at: <http://www.cdph.ca.gov/certlic/drinkingwater/Documents/Notificationlevels/archivedadvisorylevels.pdf >.
Active ingredient	The chemical or chemicals in a pesticide formulation that are biologically active and are capable, in themselves, or preventing, destroying, repelling or mitigating insects, fungi, rodents, weeds, or other pests. The remainder of the product consists of one or more *inert ingredients* (such as water, solvents, emulsifiers, surfactants, clay and propellants), which are there for reasons other than pesticidal activity.
Adjuvant	Chemicals added to a pesticide product to improve its effectiveness, including wetting agents, dispersing agents, stickers, emulsifiers, spreaders, and penetrants. In California, must be registered as pesticides.
Agricultural Commissioner	Local official whose duties include pesticide use enforcement in their counties.

TERM	*DEFINITION*
Agricultural use	The use of any pesticide or method or device for the control of plant or animal pests, or any other pests, or the use of any pesticide for the regulation of plant growth or defoliation of plants. Agricultural use includes but is not limited to commercial production of animals or plants (including forest), parks, golf courses, cemeteries, roadsides, rights-of-way and nurseries. It excludes the sale or use of pesticides intended for: a) Home use b) Structural pest control c) Industrial or institutional use d) The control of an animal pest under the written prescription of a veterinarian e) Uses by certain local districts or agencies that operate under a cooperative agreement with the California Department of Public Health, such as many mosquito abatement districts. See also "legal agricultural use."
Analysis	For the well inventory data, it is the act of determining whether a substance is present in a water sample using laboratory methodology.
Aquifer	A geologic formation, group of formations, or part of a formation, that is water bearing and which transmits water in sufficient quantity to supply springs and pumping wells.
Cal/EPA	California Environmental Protection Agency. Comprised of the Department of Pesticide Regulation, the Department of Toxic Substances Control, the Water Resources Control Board, the Air Resources Control Board, and the Office of Environmental Health Hazard Assessment.
California Code of Regulations (CCR)	Regulations formally adopted by state agencies. Regulations about pesticides and pest control operations are mainly in Title 3, Division 6, and Title 16, Division 19.
Chemigation	Applying pesticide through an irrigation system or mixing with irrigation water before the water is applied to the soil or crop.
Degradation	With respect to pesticides, degradation is the breakdown of the parent chemical by the action of microbes, water, air, sunlight, or other agents into daughter products (degradates) that may undergo further degradation by similar processes. With respect to ground water quality, degradation refers to a reduction of water quality.

TERM	*DEFINITION*
Detection	A well water sample in which the presence of a pesticide is detected at or above the, minimum detection limit of the analytical instruments used for analysis of the pesticide under investigation. A detection may be designated as confirmed or unconfirmed.
EPA Registration Number (EPA Reg. No)	Assigned by U.S. EPA to identify each pesticide product registration. This number must appear on the product's label.
Environmental fate	Describes the processes by which pesticides move and are transformed in the environment, including persistence in air, water, and soil; reactivity and degradation; migration in groundwater; and bioaccumulation in aquatic or terrestrial organisms.
FAC	Food and Agricultural Code. Division 6 of the FAC (specifically Sections 11401 - 12499) pertains to the registration, sale and use of pesticides.
Formulation	Pesticide product as sold, usually a mixture of active and inert ingredients.
Ground water	Water found below the surface of the land, usually in porous rock formations.
Ground water protection area (GWPA)	A geographic area defined in state regulations as vulnerable to pesticide contamination by either leaching or runoff.
Groundwater Protection List (GWPL)	A list of pesticides having the potential to pollute ground water included in 3 CCR section 6800(b).
Health advisory level (HAL)	An advisory number published by U.S. EPA's Office of Drinking Water and Office of Water Regulations and Standards. Short-term (ten days or less), long-term (seven years or less), and lifetime exposure health advisories for noncarcinogens and suspected human carcinogens are included where data sufficient for derivation of the advisories exist. A HAL is a guideline, which includes a margin of safety to protect human health. For lifetime HALs, water that contains a pesticide at a concentration at or below its HAL is acceptable for drinking every day over the course of one's lifetime.
Inert ingredient	Any substance other than an active ingredient which is intentionally included in a pesticide product. Also known as "other" ingredients, they do not attack a particular pest but may be chemically or biologically active.

TERM	*DEFINITION*
Leaching	A pathway by which agricultural pesticides may reach ground water; the process by which residues are dissolved in soil water and follow the movement of water through the soil matrix as it recharges a ground water aquifer.
Legal agricultural use	The application of a pesticide, according to its labeled directions and in accordance with federal and state laws and regulations, for agricultural use as defined in FAC section 11408. See also "agricultural use."
Maximum contaminant level (MCL)	MCLs are adopted as regulations by CDPH. They are health protective drinking water standards to be met by public water systems. MCLs take into account not only chemicals' health risks but also factors such as their detectability and treatability, as well as costs of treatment. Health and Safety Code §116365(a) requires CDPH to establish a contaminant's MCL at a level as close to its PHG as is technically and economically feasible, placing primary emphasis on the protection of public health.
Mitigation measure	A use practice designed to reduce the risk of harm to people or the environment.
Model	Mathematical equations that represent certain processes. These equations can be implemented in a computer program to facilitate calculations and to test model predictions against measured data.
Monitoring well	A well-used principally for any of the follow purposes: (1) observing ground water levels and flow conditions, (2) obtaining samples for determining ground water quality, or (3) evaluating hydraulic properties of water-bearing strata.
Non-agricultural use	*See "agricultural use."*
Nonpoint source	Pollution sources which are diffuse and do not have a distinct discharge point (compare with *point source*), for example, applications of agricultural pesticide to crops.
Notification level (NL)	Notification levels are health-based advisory levels established by CDPH for chemicals in drinking water that lack maximum contaminant levels (MCLs). When chemicals are found at concentrations greater than their notification levels, certain requirements and recommendations apply. The level at which CDPH recommends removal of a drinking water source from service is called the "response level". Since the early 1980s, notification levels (known as "action levels" through 2004) for 93 contaminants have been established. Of those, 39 have gone through the formal regulatory process and now have MCLs. Currently there are 30 chemicals with notification levels. In addition, another 24 chemicals have archived advisory levels, which are also available for use.

TERM	*DEFINITION*
Permit	Time- and site-specific permits are issued by county agricultural commissioners for the use of pesticides designated as restricted materials.
Pest	Any undesired insect, rodent, nematode, fungus, bird, vertebrate, invertebrate, weed, virus, bacteria or other microorganism (except microorganisms on or in humans or animals) which is declared to be injurious to health or environment.
Pest control	The use or application of any pesticide. It also means the use of any substance, method or device to control pests; prevent, destroy, repel, mitigate or correct any pest infestation or disorder of plants; or inhibit, regulate, stimulate or otherwise alter plant growth by direct application to plants.
Pesticide	A substance, or mixture of substances, intended to defoliate plants, regulate plant growth, or prevent, destroy, repel, or mitigate any insects, fungi, bacteria, weeds, rodents, predatory animal, or any other form of plant or animal life declared to be a pest detrimental to vegetation, man, animal, or households, or any environment. Also, in California only, a spray adjuvant.
Pesticide Contamination Prevention Act (PCPA, AB 2021)	A law, effective January 1, 1986, which added agricultural use sections 13141 through 13152 to Division 7 of the FAC. The PCPA requires the following: (1) each registrant of an agricultural use pesticide to submit environmental fate data to DPR; (2) the director to use those data to establish a list of pesticides with the potential to pollute ground water (GWPL); (3) the director to monitor ground water for these pesticides; (4) all local, county, and state agencies to report to DPR the results of pesticides sampled in ground water; (5) the director to maintain a specified well sampling database and to post certain information annually on its website about pesticides in ground water; and (6) a specified subcommittee and the director to conduct a formal review to determine if continued use of a pesticide can be allowed if it is detected and verified in ground water due to legal agricultural use.
Pesticide Management Zone (PMZ)	A geographic surveying unit of approximately one square mile, which is vulnerable to ground water contamination based on detections of pesticides or pesticide degradates in ground water due to agricultural use. PMZs were formally listed in section 3 CCR section 6802 and were pesticide specific. The use of a pesticide inside its PMZs was subject to certain ground water protection restrictions and requirements. PMZs were renamed GWPAs in May 2004.
Point source	A source of contamination, such as a spill or at a waste site that is initially deposited and concentrated in a small, well-defined area.
Public health goal (PHG)	PHGs are established by s OEHHA. They are concentrations of drinking water contaminants that pose no significant health risk if consumed for a lifetime, based on current risk assessment principles, practices, and methods. OEHHA establishes PHGs pursuant to Health and Safety Code §116365(c) for contaminants with MCLs, and for those for which CDPH will be adopting MCLs.

TERM	*DEFINITION*
Range	When used in the context of mapping locations, a range is a single series or row of townships, each six miles square, extending parallel to, and numbered east and west from, a survey base meridian line. A range is a vertical column of townships.
Registered pesticide	A pesticide product approved by the U.S. EPA and DPR for use in California.
Regulations	These are adopted by state agencies to implement or clarify statutes enacted by the California Legislature. They can also be adopted in response to federal legislation, court decisions, changing technologies, and concerns for the health and well-being of the residents of California.
Restricted material	A pesticide that with certain exceptions may be possessed or used only by or under the supervision of licensed or certified persons, and only in accordance with a permit issued by the CAC.
Section	Section/Township/Range: Public Land Survey System units. A section is a one-square-mile block of land containing 640 acres. A township is contains 36 sections. A range is a vertical column of townships.
Specific numerical values (SNV)	Certain numeric threshold values that the PCPA requires to be established for the following physical and chemical properties of pesticide active ingredients: water solubility, soil adsorption coefficient, hydrolysis, aerobic, and anaerobic soil metabolism, and field dissipation (the field dissipation SNV has not been established). The PCPA associates these properties with the longevity and mobility of a pesticide in the soil and requires the establishment of SNVs in regulation as a means of predicting which pesticides are likely to pollute ground water.
State Well Number	A unique number assigned to a well consisting of the county number/township/range/section/tract and sequence number.
Township	When used in the context of mapping locations, a township is a public land surveying unit that is a square parcel of land, six miles on each side. The location of a township is established as being so many six-mile units east or west of a north-south line running through an initial point (called the "principal meridian") and so many six-mile units north or south of an east-west line running through another point (called the "baseline"). A township normally contains 36 sections.

TERM	*DEFINITION*
Triazine	A pesticide derived from any of three isomeric compounds, each having three carbon and three nitrogen atoms in a six-member ring. Triazine herbicides are strong inhibitors of photosynthesis. Atrazine and simazine are examples of commonly used triazine herbicides.
Well Inventory Database	A statewide database, required by the PCPA and maintained by DPR, of wells sampled for pesticides and pesticide degradates.