



# Department of Pesticide Regulation



Paul Helliker  
Director

Gray Davis  
Governor  
Winston H. Hickox  
Secretary, California  
Environmental  
Protection Agency

January 8, 2003

EM 03-01

TO: County Agricultural Commissioners

SUBJECT: PROPOSED GROUND WATER PROTECTION REGULATIONS

We plan to ask the Office of Administrative Law to approve our notice of proposed ground water regulations for public comment in late January 2003.

The regulations will apply to the seven pesticides currently listed in section 6800(a): atrazine, simazine, bromacil, diuron, prometon, bentazon, and norflurazon. The regulations will designate sections as Ground Water Protection Areas (GWPA) in lieu of current Pesticide Management Zones (PMZs). The GWPA will be designated as either "runoff GWPA" or "leaching GWPA," depending on the mechanism that makes them vulnerable to ground water contamination. Specific sections designated as GWPA are listed in the regulations and are also available from the Department of Pesticide Regulation's (DPR's) Web site at <[www.cdpr.ca.gov/docs/empm/gwp\\_prog/gwpamaps.htm](http://www.cdpr.ca.gov/docs/empm/gwp_prog/gwpamaps.htm)>. The regulations will present a "menu" of management measures from which prospective users may choose, depending on the type of area in which they intend to make an application. Use of these pesticides in a GWPA will require a restricted materials permit and the user's chosen management measure will be specified on the permit.

Pesticides listed in section 6800(a) will be prohibited below the high water line in artificial recharge basins and canal and ditch banks. Other requirements will apply if pesticides are applied to certain rights-of-way inside GWPA and to artificial recharge basins, canals and ditch banks, both inside and outside of GWPA.

Prohibitions on bentazon use on rice and in Humbolt and Del Norte counties will remain. Other changes are made in the conditions of use where bentazon is allowed.

Growers, registrants, and others will have the opportunity to request that DPR approve other effective management practices that may be more suitable to their cultural practices or farming techniques while those practices are being adopted into regulation. If no feasible alternatives exist to the current practices, they may formally request DPR to allow interim use of the pesticide without restriction for three years, provided they initiate studies to develop suitable alternative management practices.

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The regulations also provide additional use restrictions for the listed pesticides when used around wellheads to prevent direct contamination of ground water.

The proposed regulations will repeal requirements for:

- Current mandatory use prohibitions in sensitive areas
- Ground water protection advisories
- Mandatory groundwater protection training for pest control advisers
- Statements that purchasers of a section 6800(a) pesticide have to give dealers about PMZ use.

Enclosed are copies of the draft regulations and of the ground water protection regulation fact sheet. In comparison to previous drafts, this draft does not require training of growers in irrigation management, does not require irrigation recordkeeping, and allows alternative management practices and interim use. We do not expect the regulations to increase costs to the county agricultural commissioners (CACs), and we will provide training to CAC staff to implement the regulations.

If you have any questions, please contact me.

Sincerely,

*original signed by*

John S. Sanders, Ph.D., Chief  
Environmental Monitoring Branch  
(916) 324-4100

Enclosure

cc: Mr. Douglas Y. Okumura, Assistant Director (w/o Enclosure)  
Mr. Scott T. Paulsen, Chief (w/Enclosure)

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TEXT OF PROPOSED REGULATIONS

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Proposed deletions are indicated by ~~strikeout~~.  
Proposed additions are indicated by underline.

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TITLE 3. CALIFORNIA CODE OF REGULATIONS  
DIVISION 6. PESTICIDES AND PEST CONTROL OPERATIONS  
CHAPTER 1. PESTICIDE REGULATORY PROGRAM  
SUBCHAPTER 1. DEFINITION OF TERMS  
ARTICLE 1. DEFINITIONS FOR DIVISION 6

Amend section 6000 by adding, in alphabetical order, the following definitions:

**6000. Definitions.**

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"Artificial recharge basin" means a surface facility, such as an infiltration pond or basin, or spreading ground specifically designed and managed to increase the infiltration of introduced surface water supplies into a ground water basin. "Artificial recharge basin" does not include ditches, canals or reservoirs designed primarily to transport and store water, or stream channels, lakes, and other naturally occurring water bodies that are not principally managed to recharge ground water.

"Engineered rights of way" means areas within a ground water protection area that are constructed in a way that results in increased runoff and collection of stormwater, such as railroad ballast and berms, public roadsides and highway median strips or similar areas, but not canal or ditch banks or utility lines.

"Evapotranspiration" is the combination of water transpired from vegetation and evaporated from the soil and plant surfaces. Evapotranspiration data can be obtained from the California Irrigation Management Information System (CIMIS), or other local sources.

"Field capacity" is the amount of water remaining in soil when the downward water flow due to gravity becomes negligible.

"Ground water protection area" means an area of land that has been determined by the Director to be vulnerable to the movement of pesticides to ground water, as identified in the Department of Pesticide Regulation document EH00-08 (Est. 09/00), hereby incorporated by reference, entitled "Ground Water Protection Areas," in Appendix I. The determination of a ground water protection area is based on factors, such as soil type, climate, and depth to the ground water, that are characteristic of areas where legally applied pesticides or their breakdown products have been

detected and verified in ground water.

"Leaching ground water protection areas" are sections of land designated as "leaching" in the Department of Pesticide Regulation document EH00-08 (Est. 09/00), hereby incorporated by reference, where pesticide residues move from the soil surface downward through the soil matrix with percolating water to ground water.

"Net irrigation requirement" is the amount of water needed to bring the soil in the crop root zone to field capacity at the time of irrigation. It can be determined by direct measurements of soil moisture, such as by using tensiometers, or indirect measurements of soil moisture, such as by estimating evapotranspiration that has accumulated since the last irrigation.

"Runoff ground water protection areas" are sections of land designated as "runoff" in the Department of Pesticide Regulation document EH00-08 (Est. 09/00), hereby incorporated by reference, where pesticide residues are carried in runoff water to more direct routes to ground water such as dry or drainage wells, poorly sealed production wells, or soil cracks, or to areas where leaching can occur.

...

NOTE: Authority cited: Sections 11502, 12111, 12781, 12976, 12981, 13145, 14001, and 14005, Food and Agricultural Code.

Reference: Sections 11408, 11410, 11501, 11701, 11702(b), 11704, 11708(a), 12042(f), 12103, 12971, 12972, 12973, 12980, 12981, 13145, 13146 and 14006, Food and Agricultural Code.

Repeal the following definition in section 6000.

#### **6000. Definitions.**

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~~"Groundwater protection advisory" means a written statement containing advice for the use of a pesticide product containing a chemical listed in section 6800(a) in its respective Pesticide Management Zone(s) and includes the information listed in section 6557.~~

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NOTE: Authority cited: Sections 11502, 12111, 12781, 12976, 12981, 13145, 14001, and 14005, Food and Agricultural Code.

Reference: Sections 11408, 11410, 11501, 11701, 11702(b), 11704, 11708(a), 12042(f), 12103, 12971, 12972, 12973, 12980, 12981, 13145, 13146 and 14006, Food and Agricultural Code.

CHAPTER 2. PESTICIDES  
SUBCHAPTER 4. RESTRICTED MATERIALS  
ARTICLE 2. POSSESSION AND USE LIMITATIONS

Amend section 6416 to read:

**6416. Groundwater Protection Restrictions.**

~~(a) A permit is required for possession or use of a pesticide containing a chemical listed in Ssection 6800(a) when it is intended for agricultural, outdoor institutional or outdoor industrial use in the following situations:~~

~~(1) When use is to occur within a chemical's Pesticide Management Zone designated in Ssection 6802.~~

~~(2) When the pesticide to be used contains a chemical for which no Pesticide Management Zones have been established in section 6802.~~

~~(3) When the pesticide to be used is also restricted for purposes other than groundwater protection.~~

~~(b) No permit for use of a pesticide containing a chemical listed in section 6800(a) in a chemical's Pesticide Management Zone shall be issued unless the applicant for the permit submits a groundwater protection advisory written by a licensed pest control adviser who has completed the Groundwater Protection Training Program approved and administered by the Department, which shall be scheduled and announced at least once annually.~~

(a) A permit is required for the possession or use of a pesticide containing a chemical listed in section 6800(a) when the pesticide is:

(1) applied in an agricultural, outdoor institutional, or outdoor industrial use within a runoff ground water protection area or in a leaching ground water protection area, or

(2) restricted for purposes other than ground water protection.

(b) No permit is required for the use of A permit is not required for the possession or use of a pesticide containing a chemical listed in section 6800(a) when the pesticide is used in a pest eradication program approved by the Department of Food and Agriculture, unless the pesticide is also restricted for purposes other than ground water protection.

(c) Notwithstanding the provisions of this article and Article 4, the chemicals listed in section 6800(a) may be applied for research or experimental purposes pursuant to a valid research authorization. The applicant must provide the location of the research or experimental site with the research authorization request. The exemptions found in section 6268 do not apply when a person wishes to use these chemicals for research or experimental purposes.

NOTE: Authority cited: Sections 11456, 12976, 13145, 14004.5, 14005, 14006, and 14102, Food and Agricultural Code.

Reference: Sections 11501, 13145, 13150, 14004.5, 14005, and 14006, Food and Agricultural Code.

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CHAPTER 2. PESTICIDES  
SUBCHAPTER 4. RESTRICTED MATERIALS  
ARTICLE 4. USE REQUIREMENTS

Repeal section 6486.1:

**6486.1. Atrazine.**

~~(a) Agricultural, outdoor institutional and outdoor industrial uses of pesticides containing atrazine are prohibited in the Pesticide Management Zones listed in section 6802(c).~~

NOTE: Authority cited: Sections 11456, 12976, 13145, 14005 and 14006, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14006, Food and Agricultural Code.

Repeal section 6486.2:

**6486.2. Simazine.**

~~The following agricultural, outdoor institutional and outdoor industrial uses of pesticides containing simazine are prohibited in the Pesticide Management Zones listed in section 6802(d).~~

~~(a) In noncrop areas including, but not limited to, petroleum tank farms, lumberyards, storage areas, industrial sites, parking lots, fence lines, driveways, and around buildings and equipment.~~

~~(b) On rights of way including, but not limited to, utility lines, pipelines, railroads, highways, roadsides and roadways.~~

NOTE: Authority cited: Sections 11456, 12976, 13145, 14005 and 14006, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14006, Food and Agricultural Code.

Repeal section 6486.3:

**6486.3. Bromacil.**

~~The following agricultural, outdoor institutional and outdoor industrial uses of pesticides containing bromacil are prohibited in the Pesticide Management Zones listed in section 6802(e).~~

~~(a) In noncrop areas including, but not limited to, petroleum tank farms, lumber yards, storage areas, industrial sites, parking lots, fence lines, railroad sidings, loading ramps, and around buildings and equipment.~~

~~(b) On rights of way including, but not limited to, utility lines, pipelines, railroads, highways, roadsides, roadways and irrigation ditch banks.~~

NOTE: Authority cited: Sections 11456, 12976, 13145, 14005 and 14006, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14006, Food and Agricultural Code.

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Repeal section 6486.4:

**6486.4. Diuron.**

~~The following agricultural, outdoor institutional and outdoor industrial uses of pesticides containing diuron are prohibited in the Pesticide Management Zones listed in section 6802(f).~~

~~(a) In non-crop areas including, but not limited to, petroleum tank farms, lumber yards, storage areas, industrial sites, parking lots, fence lines, and around buildings and equipment.~~

~~(b) On rights-of-way including, but not limited to, utility lines, pipelines, railroads, highways, roadsides, roadways, and irrigation and drainage ditches.~~

NOTE: Authority cited: Sections 11456, 12976, 13145, 14005 and 14006, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14006, Food and Agricultural Code.

Repeal section 6486.5:

**6486.5. Prometon.**

~~Agricultural, outdoor institutional and outdoor industrial uses of pesticides containing prometon are prohibited in the Pesticide Management Zones listed in section 6802(g).~~

NOTE: Authority cited: Sections 11456, 12976, 13145, 14005 and 14006, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14006, Food and Agricultural Code.

Amend and renumber section 6486.6 to 6457 to read:

**6486.6 6457. Bentazon.**

~~For the purpose of groundwater protection, the following restrictions apply for agricultural, outdoor institutional, and outdoor industrial uses of bentazon:~~ In addition to the restrictions specified in sections 6487.1, 6487.2, 6487.3, and 6487.4, the following restrictions apply for agricultural, outdoor institutional, and outdoor industrial uses of bentazon for the purpose of ground water protection:

(a) Bentazon shall not be applied in Del Norte or Humboldt Counties.

(b) Bentazon shall not be used in the production of rice.

~~(c) Bentazon shall not be applied prior to April 1 or after July 31 of each year.~~

~~(d) Irrigation water applied to sites following treatment with bentazon shall be applied only by sprinklers through December 31 of that year.~~

NOTE: Authority cited: Sections 11456, 12976, 13145, 14005 and 14006, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14006, Food and Agricultural Code.

Repeal section 6486.8:

**6486.8. Norflurazon.**

~~Agricultural, outdoor institutional, and outdoor industrial uses of pesticides containing norflurazon are prohibited in areas that are specifically managed or designed to recharge ground water and inside canal and ditch banks, within the Pesticide Management Zones listed in section 6802(h).~~

NOTE: Authority cited: Sections 12976, 13145, 14005 and 14006, Food and Agricultural Code.  
Reference: Sections 13145, 13150 and 14006, Food and Agricultural Code.

Adopt section 6487.1 to read:

**6487.1. Artificial Recharge Basins.**

Use of pesticides registered for agricultural, outdoor industrial and outdoor institutional use containing chemicals listed in section 6800(a) shall be prohibited below the high water line inside artificial recharge basins, unless the pesticide is applied 6 months or more before the basin is used to recharge ground water.

NOTE: Authority cited: Sections 11456, 12976, 13145, and 14102, Food and Agricultural Code.  
Reference: Sections 13145, 13150 and 14102, Food and Agricultural Code

Adopt section 6487.2 to read:

**6487.2. Inside Canal and Ditch Banks.**

Use of pesticides registered for agricultural, outdoor industrial and outdoor institutional use containing chemicals listed in section 6800(a) shall be prohibited below the high water line inside unlined canals and ditches, unless at least one of the following applies:

- (a) the pesticide user can document that the percolation rate of the canal or ditch is equal to or less than 0.2 inches per hour (0.002 gallons per minute per square foot); or
- (b) the pesticide is applied six months before water is run in the canal or ditch.

NOTE: Authority cited: Sections 11456, 12976, 13145, and 14102, Food and Agricultural Code.  
Reference: Sections 13145, 13150 and 14102, Food and Agricultural Code

Adopt section 6487.3 to read:

**6487.3. Engineered Rights of Way Within Ground Water Protection Areas.**

Use of pesticides registered for agricultural, outdoor industrial and outdoor institutional use containing chemicals listed in section 6800(a) shall be prohibited on engineered rights of way in Leaching or Runoff Ground Water Protection Areas unless one of the following management options can be met and is designated by the commissioner on the permit:

- (a) The property operator complies with section 6487.4, or
- (b) Any runoff from the treated right of way shall pass through a fully vegetated area adjacent,

and equal in area, to the treated area, or spread out onto an adjacent unenclosed fallow field that is at least 300 feet long.

(c) The property operator complies with any permit issued pursuant to the storm-water provisions of the federal Clean Water Act pertaining to the treated area.

(d) An alternative mitigation measure or pesticide approved by the Director.

(1) Upon written request, the Director may evaluate and approve use of alternative mitigation measures that are based on scientific data demonstrating their effectiveness in reducing movement of pesticides to ground water; or

(2) Upon written request, the Director may make a determination to allow the interim use of a pesticide containing a chemical listed in section 6800(a) on an engineered right of way within a ground water protection area, for a period not to exceed three years. The Director's determination shall be based on evidence that there are no feasible alternatives for a specific crop or site, or that the available mitigation measures are not feasible for the specific crop or site. The formal request shall include a study protocol(s) that is acceptable to the Director to develop feasible alternatives or alternate mitigation measures. The study protocol shall include a description of the objective, personnel, study plan, sampling methods including number of samples to be analyzed, data analysis, chemical analytical methods including appropriate quality control, timetable, and references, if any. The requestor shall submit a written progress report every six months. If the progress report does not support the submitted study protocol(s), or if a report is not submitted, the Director may rescind the determination to allow the use of the pesticide within a ground water protection area.

(3) The Director will issue a public notice stating the reasons interim use has been approved under (1) or (2).

Adopt section 6487.4 to read:

#### **6487.4. Runoff Ground Water Protection Areas.**

Except as provided in sections 6487.1, 6487.2 and 6487.3, use of pesticides registered for agricultural, outdoor industrial and outdoor institutional use containing chemicals listed in section 6800(a) shall be prohibited in runoff ground water protection areas unless one of the following management practices can be met and is designated by the commissioner on the permit. The management practice identified in (b), "Incorporation of the pesticide," does not apply to bentazon.

(a) Soil disturbance. Within seven days before the pesticide is applied, the soil to be treated shall be disturbed by using a disc, harrow, rotary tiller, or other mechanical method. This subsection does not apply to the area to be treated that is immediately adjacent to the crop row and that does not exceed 33 percent of the distance between crop rows; or

(b) Incorporation of the pesticide. Within seven days after the pesticide is applied, the pesticide shall be incorporated on at least 90 percent of the area treated, using a disc; harrow; rotary tiller; or other mechanical method; or by sprinkler or low flow irrigation, including chemigation if allowed by the label, using a minimum of ¼ inch of irrigation water and a maximum of either one inch or the maximum amount of irrigation water specified on the label, at application rates that do not cause surface water runoff from the treated property or to wells on the treated property. This

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subsection does not apply to bentazon, and does not apply to the area treated with other pesticides listed in section 6800(a) that is immediately adjacent to the crop row and that does not exceed 33 percent of the distance between crop rows; or

(c) Band treatment. The pesticide shall be applied as a band treatment immediately adjacent to the crop row so that not more than 33 percent of the distance between rows is treated; or

(d) Timing of application. The pesticide shall be applied between April 1 and July 31; or

(e) Retention of runoff on field. For six months following the application, the field shall be designed, by berms, levees, or non-draining circulation systems, to retain, all irrigation runoff and all precipitation on, and drainage through, the field . The retention area on the field shall not have a percolation rate of more than 0.2 inches per hour (5 inches per 24 hours); or

(f) Retention of runoff in a holding area off the field. For six months following the application, the field, under the control of the property operator, shall be designed so that all runoff is channeled to a separate holding area that is designed to retain all irrigation runoff and all precipitation on, and drainage through, the treated field and all other areas draining into that holding area . The holding area shall not have a percolation rate of more than 0.2 inches per hour (5 inches per 24 hours).

(g) An alternative mitigation measure or pesticide approved by the Director.

(1) Upon written request, the Director may evaluate and approve use of alternative mitigation measures that are based on scientific data demonstrating their effectiveness in reducing movement of pesticides to ground water; or

(2) Upon written request, the Director may make a determination to allow the interim use of a pesticide containing a chemical listed in section 6800(a) within a runoff ground water protection area, for a period not to exceed three years. The Director's determination shall be based on evidence that there are no feasible alternatives for a specific crop or site, or that the available mitigation measures are not feasible for the specific crop or site. The formal request shall include a study protocol(s) that is acceptable to the Director to develop feasible alternatives or alternate mitigation measures. The study protocol shall include a description of the objective, personnel, study plan, sampling methods including number of samples to be analyzed, data analysis, chemical analytical methods including appropriate quality control, timetable, and references, if any. The requestor shall submit a written progress report every six months. If the progress report does not support the submitted study protocol(s), or if a report is not submitted, the Director may rescind the determination to allow the use of the pesticide within a ground water protection area.

(3) The Director will issue a public notice stating the reasons interim use has been approved under (1) or (2).

NOTE: Authority cited: Sections 11456, 12976, 13145, and 14102, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14102, Food and Agricultural Code.

Adopt section 6487.5 to read:

**6487.5. Leaching Ground Water Protection Areas.**

Except as provided in sections 6487.1, 6487.2 and 6487.3, use of pesticides registered for agricultural, outdoor industrial, and outdoor institutional use containing chemicals listed in section 6800(a) shall be prohibited in leaching ground water protection areas unless any one of the

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following management practices can be met for six months following application of the pesticide and is designated by the commissioner on the permit:

(a) The permittee shall not apply any irrigation water; or

(b) The permittee shall apply the pesticide to the planting bed or the berm above the level of irrigation water in the furrow or basin; or

(c) Irrigation shall be managed so that the ratio of the amount of irrigation water applied divided by the net irrigation requirement is 1.33 or less.

(d) An alternative mitigation measure or pesticide approved by the Director.

(1) Upon written request, the Director may evaluate and approve use of alternative mitigation measures that are based on scientific data demonstrating their effectiveness in reducing movement of pesticides to ground water; or

(2) Upon written request, the Director may make a determination to allow the interim use of a pesticide containing a chemical listed in section 6800(a) within a leaching ground water protection area, for a period not to exceed three years. The Director's determination shall be based on evidence that there are no feasible alternatives for a specific crop or site, or that the available mitigation measures are not feasible for the specific crop or site. The formal request shall include a study protocol(s) that is acceptable to the Director to develop feasible alternatives or alternate mitigation measures. The study protocol shall include a description of the objective, personnel, study plan, sampling methods including number of samples to be analyzed, data analysis, chemical analytical methods including appropriate quality control, timetable, and references, if any. The requestor shall submit a written progress report every six months. If the progress report does not support the submitted study protocol(s), or if a report is not submitted, the Director may rescind the determination to allow the use of the pesticide within a ground water protection area.

(3) The Director will issue a public notice stating the reasons interim use has been approved under (1) or (2).

NOTE: Authority cited: Sections 11456, 12976, 13145, and 14102, Food and Agricultural Code.

Reference: Sections 13145, 13150 and 14102, Food and Agricultural Code.

CHAPTER 3. PEST CONTROL OPERATIONS  
SUBCHAPTER 1. LICENSING  
ARTICLE 5. AGRICULTURAL PEST CONTROL ADVISER LICENSES

Repeal section 6557:

**6557. Advisories for Groundwater Protection.**

~~(a) Each groundwater protection advisory shall be in writing, shall be specific to not more than one chemical listed in section 6800(a), and shall include the following:~~

~~(1) Name and address of the owner or operator of the property to be treated;~~

~~(2) Location of each property to be treated, including the designation by base meridian, township, range and section;~~

~~(3) The basic soil textural class (such as sandy loam, silty clay loam or clay) for each site on the~~

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property to be treated;

(4) A map of the property to be treated, identifying all known areas that could impact the movement of the chemical to groundwater, including but not limited to abandoned and surface drainage (dry) wells, and irrigation and domestic wells;

(5) The conditions for the property to be treated in relation to basic soil textural class, irrigation practices, and the location of the wells, including but not limited to abandoned and surface drainage (dry) and irrigation and domestic, to minimize the movement of the chemical to groundwater;

(6) The signature and address of the agricultural pest control advise writing the advisory and the date and number of the agricultural pest control adviser's license.

(b) A licensed agricultural pest control adviser shall:

(1) file written proof of completion of the approved Groundwater Protection Training Program within the past 2 calendar years in each county in which the adviser intends to make groundwater protection advisories pursuant to this section.

(2) retain one copy of each groundwater protection advisory for agricultural, outdoor institutional or outdoor industrial use for one year following the date of such advisory. The advisory shall be made available to the Director and commissioner upon request and one copy of each such advisory shall be furnished to the owner or operator of the property.

(c) The information listed in subparagraph (a) does not meet the requirements of a written recommendation.

NOTE: Authority cited: Sections 11456, 12976, 13145, 14005, 14006 and 14102, Food and Agricultural Code.

Reference: Sections 11501, 13145 and 14006, Food and Agricultural Code.

Repeal section 6570:

### **6570. Groundwater Protection Material Requirements.**

(a) ~~Prior to the sale of a pesticide specified in Section 6800(a) (Groundwater Protection List) for which Pesticide Management Zones have been established in Section 6802 and when the pesticide is intended for agricultural, outdoor institutional, or outdoor industrial use, the dealer shall obtain and retain for two years a signed statement from the purchaser in substantially the following form:~~

**PESTICIDE SALES: GROUNDWATER PROTECTION**

~~/\_\_\_\_\_ / The material I am purchasing will not be used in a Pesticide Management Zone\* (as described in Section 6802, Title 3, California Code of Regulations) for agricultural, outdoor institutional or outdoor industrial use.~~

~~/\_\_\_\_\_ / The material I am purchasing will be used in a Pesticide Management Zone\* (as described in Section 6802, Title 3, California Code of Regulations) for agricultural, outdoor institutional or outdoor industrial use and a copy of my restricted materials permit is attached.~~

Material Purchased: \_\_\_\_\_

I certify under penalty of perjury that the foregoing statement is true, and that I will not apply any material listed in Section 6800(a) in any Pesticide Management Zone for agricultural, outdoor institutional or outdoor industrial uses except in accordance with a permit issued by the county agricultural commissioner or the director in a county in which there is no commissioner.

Purchaser \_\_\_\_\_ Date \_\_\_\_\_

~~\* A Pesticide Management Zone is a geographical area of approximately 1 square mile which is sensitive to groundwater pollution. A list of these zones is available from the County Agricultural Commissioner.~~

~~(b) For each sale of a Groundwater Protection List chemical which does not require a restricted materials permit, the dealer shall provide to the purchaser a copy of the Department's Groundwater Protection List Use Report form.~~

NOTE: Authority cited: Sections 11456, 12976 and 13145, Food and Agricultural Code.  
Reference: Sections 11501 and 13145, Food and Agricultural Code.

CHAPTER 3. PEST CONTROL OPERATIONS  
SUBCHAPTER 2. WORK REQUIREMENTS  
ARTICLE 1. PEST CONTROL OPERATIONS GENERALLY

Adopt section 6609 to read:

**6609. Wellhead Protection.**

(a) Except as provided in subsection (b), the following activities shall be prohibited within 100 feet of a well (including domestic, municipal, agricultural, dry or drainage, monitoring or abandoned wells):

- (1) mixing, loading and storage of pesticides.
- (2) rinsing of spray equipment or pesticide containers.
- (3) maintenance of spray equipment that could result in spillage of pesticide residues on the soil.
- (4) application of pre-emergent herbicides.

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(b) Wells shall not be subject to the requirements in (a) if they are:

(1) sited so that runoff water from irrigation or rainfall does not contact any part of the well including the concrete pad or foundation or

(2) protected by a berm that prevents movement of surface runoff water to the well

(c) Application of preemergent herbicides shall be prohibited within a berm surrounding a well.

NOTE: Authority cited: Sections 11456, 12976, and 14102, Food and Agricultural Code.

Reference: Sections 11501 and 14102, Food and Agricultural Code.

CHAPTER 4. ENVIRONMENTAL PROTECTION  
SUBCHAPTER 1. GROUNDWATER  
ARTICLE 1. PESTICIDE CONTAMINATION PREVENTION

Amend section 6800 to read:

**6800. Groundwater Protection List.**

Pesticides labeled for agricultural, outdoor institutional or outdoor industrial use that contain any of the following chemicals are designated as having the potential to pollute ground water:

(a) The following chemicals detected in ground water or soil pursuant to section 13149 of the Food and Agricultural Code:

- (1) Atrazine
- (2) Simazine
- (3) Bromacil
- (4) Diuron, except for products with less than 7% diuron that are applied to foliage
- (5) Prometon
- (6) Bentazon (Basagran®)
- (7) Norflurazon

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NOTE: Authority cited: Sections 11456, ~~12976~~, 13145, Food and Agricultural Code.

Reference: Sections 13144, 13145, and 13149, Food and Agricultural Code.

Repeal section 6802:

**6802. Pesticide Management Zones.**

~~(a) A Pesticide Management Zone is a geographical area of approximately one square mile which is sensitive to ground water pollution and which corresponds to a section as defined by base meridian, township, range and section, or which is defined by latitude and longitude or other generally accepted geographical coordinates.~~

~~(b) The areas listed below, designated by meridian, township, range and section, are Pesticide~~

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Management Zones. Chemicals detected in groundwater in these zones are designated by numbers corresponding to subparagraph numbers in section 6800(a):

Butte County—Mount Diablo Meridian  
21N/01E/01 (1,3)

Colusa County—Mount Diablo Meridian  
13N/01W/06 (2)  
14N/01W/32 (2)

Contra Costa County—Mount Diablo Meridian  
02N/02W/14 (3,5)  
02N/02W/24 (1,2,5)  
01S/03E/04(1)

Fresno County—Mount Diablo Meridian  
12S/20E/01 (2,4)  
13S/21E/01 (2)  
13S/22E/06 (2,3,4)  
13S/22E/33 (2,3,4)  
13S/22E/36 (1,2,3,4)  
13S/23E/24 (1,2,3,4)  
13S/23E/26 (1,2,3,4)  
13S/23E/27 (2,3,4)  
13S/23E/28 (2,3,4)  
13S/23E/31 (1,2,3,4)  
13S/23E/32 (1,2,4)  
13S/23E/33 (2,3,4)  
13S/23E/34 (1,2,4)  
14S/21E/13 (2,4)  
14S/21E/16 (2)  
14S/21E/20 (2,4)  
14S/21E/21 (2)  
14S/21E/23 (2)  
14S/21E/24 (2)  
14S/21E/25 (2,3)  
14S/21E/26 (2)  
14S/21E/28 (2)  
14S/21E/32 (2)  
14S/21E/34 (2)  
14S/21E/35 (2)  
14S/21E/36 (2,4)  
14S/22E/01 (1,2,3,4)

DRAFT

14S/22E/03 (4)  
14S/22E/12 (1,2,3,4,7)  
14S/22E/13 (1,2,4)  
14S/22E/14 (2,3,4)  
14S/22E/18 (2)  
14S/22E/19 (2,4)  
14S/22E/20 (1,2,4)  
14S/22E/22 (1,5)  
14S/22E/23 (2)  
14S/22E/31 (2,4)  
14S/22E/33 (2,3,4)  
14S/23E/22 (1,2,4,7)  
14S/23E/26 (1,2,7)  
14S/23E/28 (1,2,4,7)  
14S/23E/32 (1,2,4)  
14S/23E/33 (2,4,7)  
14S/23E/34 (2,4)  
14S/23E/35 (1,2,4)  
14S/24E/35 (1,2,4)  
14S/24E/36 (2,3,4)  
15S/21E/02 (2)  
15S/21E/03 (2)  
15S/21E/04 (2,4)  
15S/21E/05 (2,4)  
15S/21E/08 (2,5)  
15S/21E/09 (2)  
15S/21E/10 (2)  
15S/21E/12 (2)  
15S/21E/13 (2,4)  
15S/21E/14 (1,2,4)  
15S/21E/15 (2)  
15S/21E/17 (2)  
15S/21E/24 (1,2)  
15S/21E/34 (2)  
15S/22E/03 (1,2)  
15S/22E/05 (2,3,4)  
15S/22E/06 (2)  
15S/22E/07 (2)  
15S/22E/08 (2)  
15S/22E/09 (2,3)  
15S/22E/11 (2)  
15S/22E/15 (4)

**DRAFT**

15S/22E/16 (5)  
15S/22E/17 (2)  
15S/22E/18 (2)  
15S/22E/19 (2)  
15S/22E/20 (2)  
15S/22E/21 (2)  
15S/22E/22 (2)  
15S/22E/28 (2)  
15S/22E/30 (2,4)  
15S/22E/32 (2)  
15S/22E/33 (2)  
15S/23E/01 (1,2,4)  
15S/23E/02 (1,2,4,7)  
15S/23E/06 (2,3,4)  
15S/23E/07 (2,4)  
15S/23E/12 (1,2,4,5,7)  
15S/24E/01 (2,3,4)  
15S/24E/10 (2,3,4)  
15S/24E/11 (2,3,4)  
15S/24E/12 (1,2,4)  
15S/24E/13 (1,2,3,4)  
15S/24E/14 (1,2,3,4)  
15S/24E/23 (1,2,4)  
15S/24E/25 (1,2,3,4)  
15S/24E/31 (2,4)  
15S/24E/33 (2,3,4)  
15S/24E/36 (1,2,3,4)  
16S/21E/04 (2)  
16S/21E/05 (2)  
16S/21E/07 (2)  
16S/21E/16 (2)  
16S/21E/21 (1,2)  
16S/22E/01 (2,4)  
16S/22E/02 (1,2)  
16S/22E/03 (2)  
16S/22E/11 (2)  
16S/22E/33 (1,2,3)  
16S/22E/34 (2,4)  
17S/19E/35 (4)  
17S/22E/05 (2)

**DRAFT**

**Glenn County—Mount Diablo Meridian**

18N/03W/05 (1,2,5)  
18N/03W/07 (1,2)  
18N/03W/18 (2,5)  
18N/04W/01 (1)  
19N/02W/05 (1)  
19N/02W/09 (4)  
19N/03W/03 (1,2)  
19N/03W/04 (1)  
19N/03W/06 (1)  
19N/03W/07 (1,2)  
19N/03W/08 (1,2,5)  
19N/03W/09 (1,2,5)  
19N/03W/10 (1,2)  
19N/03W/17 (2,5)  
19N/03W/18 (1,5)  
19N/03W/22 (1)  
19N/03W/31 (1)  
19N/04W/01 (5)  
19N/04W/02 (1)  
19N/04W/12 (1)  
19N/04W/23 (1)  
19N/04W/25 (1)  
20N/03W/03 (1)  
20N/03W/09 (1,2)  
20N/03W/16 (5)  
20N/03W/19 (1)  
20N/03W/20 (1)  
20N/03W/25 (1,2)  
20N/03W/33 (1)  
20N/03W/34 (2,5)  
20N/03W/36 (1)

**Kern County—Mount Diablo Meridian**

28S/25E/14 (4)  
31S/27E/16 (1)

**Los Angeles County—San Bernardino Meridian**

01N/08W/33 (1)  
01N/09W/35 (1,2)  
01N/12W/05 (1)  
01N/12W/08 (1)

**DRAFT**

01S/08W/03 (3)  
01S/08W/05 (1,3)  
01S/09W/03 (1)  
01S/11W/02 (1)  
01S/11W/09 (1)  
01S/11W/10 (1,2)  
01S/11W/11 (2)  
01S/11W/12 (1)  
01S/11W/14 (1,2)  
01S/11W/15 (1)  
01S/11W/21 (1)  
01S/11W/23 (1)  
01S/11W/26 (1)  
01S/11W/27 (1)  
02S/11W/05 (2,4)  
02S/11W/07 (1,2)  
02S/11W/08 (1,2)  
02S/11W/18 (1,2)  
02S/11W/19 (1,2)  
02S/12W/01 (1,2)  
02S/12W/08 (1)  
02S/12W/12 (1,2)  
02S/12W/13 (1,2)  
02S/12W/14 (1,2)  
02S/12W/15 (1,2)  
02S/12W/16 (1,2)  
02S/12W/20 (1)  
02S/12W/21 (1,2,4)  
02S/12W/22 (1,2)  
02S/12W/23 (1,2)  
02S/12W/24 (1,2)  
02S/12W/25 (1,2)  
02S/12W/26 (1,2)  
02S/12W/27 (1,2)  
02S/12W/28 (1,2,4)  
02S/12W/29 (1,2,4)  
02S/12W/30 (1,2)  
02S/12W/31 (1)  
02S/12W/33 (1,2)  
02S/12W/34 (1)  
02S/12W/35 (1,2)  
02S/12W/36 (1)

**DRAFT**

03S/12W/01 (1,2)  
03S/12W/02 (1,2)  
03S/12W/03 (1,2,4)  
03S/12W/04 (1,2)  
03S/12W/05 (1,2)  
03S/12W/08 (1)  
03S/12W/09 (1)  
03S/12W/10 (1)  
03S/12W/11 (1)  
03S/12W/12 (1,2)  
03S/12W/13 (1)  
03S/12W/14 (1)  
03S/12W/15 (1)  
03S/12W/17 (1)  
04N/15W/21 (2,5)

~~Madera County—Mount Diablo Meridian~~

~~08S/20E/34 (2,4)  
09S/20E/02 (2)~~

~~Mendocino County—Mount Diablo Meridian~~

~~15N/12W/16 (2)~~

~~Merced County—Mount Diablo Meridian~~

~~06S/12E/32 (2)  
07S/13E/36 (2)  
08S/13E/01 (1,2,5)  
09S/12E/25 (4)  
09S/12E/36 (1,4)~~

~~Orange County—San Bernardino Meridian~~

~~03S/09W/27 (1,2,4)  
03S/09W/28 (1,2,4)  
03S/09W/32 (1,2)  
03S/09W/33 (2)  
03S/09W/34 (2,4)  
04S/09W/03 (2,3,4)  
04S/09W/04 (2,4)  
04S/09W/05 (1,2)  
04S/09W/07 (1,2)  
04S/09W/18 (2)  
04S/10W/01 (2)~~

**DRAFT**

04S/10W/03 (1,2)  
04S/10W/04 (1,2)  
04S/10W/09 (1)  
04S/10W/14 (2)  
04S/10W/24 (2)  
04S/10W/25 (1,2)

Placer County — Mount Diablo Meridian  
15N/10E/04 (3)

Riverside County — San Bernardino Meridian

02S/04W/07 (2)  
02S/04W/17 (2)  
02S/05W/12 (2)  
02S/05W/20 (2)  
02S/05W/21 (2)  
02S/07W/36 (2)  
03S/04W/30 (1,2,3,4)  
03S/04W/31 (1,2,3,4)  
03S/05W/06 (2)  
03S/06W/14 (2,3,4)  
03S/06W/15 (2,3)  
03S/06W/22 (1,2,4)  
03S/06W/23 (2,3,4)  
03S/06W/28 (2)  
03S/06W/31 (2)  
03S/07W/25 (2)

San Bernardino County — San Bernardino Meridian

01S/04W/32 (2,4)  
02S/04W/05 (2,4)  
02S/04W/06 (2)

San Joaquin County — Mount Diablo Meridian

01S/06E/12 (3)  
01S/06E/13 (3)  
02S/05E/13 (1,2)  
02S/05E/14 (1)  
02S/05E/23 (1,3)  
02S/05E/24 (1,4)  
02S/06E/19 (1,2,4)

**DRAFT**

Solano County—Mount Diablo Meridian

07N/01E/04 (1)

Stanislaus County—Mount Diablo Meridian

04S/07E/29 (4)

04S/07E/30 (4)

04S/09E/10 (2)

04S/09E/15 (2)

04S/09E/16 (2)

04S/09E/20 (2)

04S/09E/21 (2)

04S/09E/22 (1,2,4)

04S/09E/23 (2,4)

Tehama County—Mount Diablo Meridian

25N/03W/23 (1,2)

25N/03W/24 (1,3)

26N/03W/35 (2,4)

Tulare County—Mount Diablo Meridian

15S/25E/05 (2,3,4)

15S/25E/08 (1,2,4)

16S/23E/01 (2,3)

16S/24E/01 (2,3,4)

16S/24E/03 (2,4)

16S/24E/04 (2,3,4)

16S/24E/05 (1,2,4)

16S/24E/06 (3)

16S/24E/08 (2)

16S/24E/09 (2,3,4)

16S/24E/10 (2,3,4,5)

16S/24E/11 (4)

16S/24E/12 (2,3,4,7)

16S/24E/13 (1,2,3,4)

16S/24E/14 (4,7)

16S/24E/15 (4)

16S/24E/16 (2,3,4)

16S/24E/22 (2,3,4)

16S/24E/24 (1,2,4)

16S/24E/25 (2)

16S/24E/26 (2,3,4)

16S/24E/27 (2)

**DRAFT**

16S/24E/33 (1,2,4)  
16S/24E/34 (2)  
16S/24E/35 (4)  
16S/24E/36 (2,4)  
16S/25E/04 (2,3,4)  
16S/25E/05 (2,4)  
16S/25E/06 (2,3,4)  
16S/25E/08 (3)  
16S/25E/09 (3,4)  
16S/25E/16 (4)  
16S/25E/18 (2,4)  
16S/25E/19 (2,4)  
16S/25E/21 (2,3,4)  
16S/25E/28 (1,2,3,4)  
16S/25E/29 (2,4)  
16S/25E/31 (1,2)  
16S/25E/32 (2,3,4)  
16S/25E/34 (2)  
17S/24E/01 (4)  
17S/25E/02 (1,2)  
17S/25E/03 (2,4,5)  
17S/25E/04 (1,2,4,5)  
17S/25E/05 (2,4)  
17S/25E/11 (2,3,4)  
17S/25E/12 (2,4)  
17S/25E/13 (2,3,4)  
17S/25E/23 (2,3,4)  
17S/25E/24 (2,3,4)  
17S/25E/25 (2,3,4)  
17S/25E/36 (2,3,4)  
17S/26E/13 (1,2)  
17S/26E/14 (1,2)  
17S/26E/18 (2,3,4)  
17S/26E/19 (2,3,4)  
17S/26E/20 (2,3,4)  
17S/26E/21 (2,4)  
17S/26E/23 (2,4)  
17S/26E/24 (3,4)  
17S/26E/25 (4)  
17S/26E/26 (1,2,3,4)  
17S/26E/27 (2,4)  
17S/26E/28 (1,2,3,4)

**DRAFT**

17S/26E/29 (2,3,4)  
17S/26E/30 (2,3,4)  
17S/26E/31 (2,3,4)  
17S/26E/32 (2,3,4)  
17S/26E/33 (1,2,3,4)  
17S/26E/34 (2)  
17S/26E/35 (2,3,4)  
17S/26E/36 (2,4)  
17S/27E/29 (1,2)  
17S/27E/31 (2,4,5)  
18S/23E/36 (3)  
18S/24E/31 (2,4)  
18S/25E/01 (2,3,4)  
18S/25E/12 (2,3,4)  
18S/25E/13 (2,4)  
18S/26E/01 (2,4)  
18S/26E/02 (2,3,4)  
18S/26E/04 (2,4)  
18S/26E/06 (2,3,4)  
18S/26E/09 (2,4)  
18S/26E/14 (2)  
18S/26E/16 (2)  
18S/26E/21 (2,5)  
18S/26E/22 (2,4)  
18S/26E/23 (1,2,3,4,5)  
18S/26E/24 (2,3,4)  
18S/26E/25 (2,4)  
18S/26E/26 (2,3,4)  
18S/26E/27 (2)  
18S/26E/28 (2)  
18S/26E/33 (2,4)  
18S/26E/34 (3)  
18S/26E/35 (2,3,4)  
18S/26E/36 (2,3,4)  
18S/27E/02 (2,3,4)  
18S/27E/08 (2,3,4)  
18S/27E/09 (2,3,4)  
18S/27E/10(2,4)  
18S/27E/11 (2,4)  
18S/27E/14 (4)  
18S/27E/15 (2)  
18S/27E/16 (2,3,4,5)

**DRAFT**

18S/27E/17 (2,3,4)  
18S/27E/18 (2,3,4)  
18S/27E/19 (2,4)  
18S/27E/20 (2,3,4)  
18S/27E/21 (4)  
18S/27E/29 (2,3,4)  
18S/27E/30 (2,3,4)  
18S/27E/31 (2,4)  
19S/24E/36 (4)  
19S/25E/31 (4)  
19S/26E/01 (2,3,4)  
19S/26E/02 (2,3,4)  
19S/26E/04 (2,4)  
19S/26E/10 (2,4)  
19S/26E/11 (2,3,4)  
19S/26E/12 (2,3,4)  
19S/26E/13 (2)  
19S/26E/14 (1,2,3,4)  
19S/26E/15 (2,3,4)  
19S/26E/16 (7)  
19S/26E/23 (2,3,4)  
19S/26E/24 (2,4)  
19S/26E/25 (1,2)  
19S/26E/26 (2,3,4)  
19S/26E/34 (2,3,4,5)  
19S/26E/35 (2,3,4)  
19S/26E/36 (2,3,4)  
19S/27E/18 (2,4)  
19S/27E/19 (2,3,4)  
19S/27E/29 (1,2)  
19S/27E/30 (2)  
19S/27E/31 (2,3)  
19S/27E/32 (2)  
20S/26E/01 (2,4)  
20S/26E/02 (2,3,4)  
20S/26E/03 (2,4)  
20S/26E/11 (2,3,4)  
20S/26E/12 (2,3)  
20S/26E/24 (2,4)  
20S/26E/25 (2,3,4)  
20S/26E/35 (2,4)  
20S/26E/36 (2)

**DRAFT**

20S/27E/06 (2,3,4)  
20S/27E/07 (2,3,4)  
20S/27E/08 (2,3,4)  
20S/27E/09 (3)  
20S/27E/10 (3)  
20S/27E/16 (2,3)  
20S/27E/17 (3,4)  
20S/27E/18 (2,3,4)  
20S/27E/19 (1,3)  
20S/27E/20 (3)  
20S/27E/21 (3)  
20S/27E/29 (1,2,3)  
20S/27E/30 (2,3,4)  
20S/27E/31 (2,3,4)  
20S/27E/32 (2,3)  
21S/26E/02 (1)  
21S/26E/03 (4)  
21S/26E/21 (4)  
21S/26E/27 (4)  
21S/26E/28 (2)  
21S/26E/32 (2,4)  
21S/26E/33 (2)  
21S/26E/34 (2)  
21S/26E/36 (4)  
21S/27E/05 (7)  
21S/27E/06 (2)  
21S/27E/08 (1,2)  
21S/27E/17 (1,2)  
21S/29E/09 (2)  
21S/29E/10 (3,4)  
21S/29E/11 (4)  
21S/29E/14 (2,4)  
21S/29E/15 (2,4)  
21S/29E/16 (2,4)  
22S/26E/02 (2,4)  
22S/26E/03 (2)  
22S/26E/10 (4)  
22S/26E/11 (2,3,4)  
22S/26E/12 (2,4)  
22S/26E/13 (2,4)  
22S/26E/24 (4)  
22S/26E/29 (1)

**DRAFT**

22S/26E/32 (4)  
22S/27E/06 (2,4)  
22S/27E/07 (2,4)  
22S/27E/18 (1,2,3,4)  
22S/27E/34 (2,4)  
23S/26E/09 (2,4)  
23S/26E/17 (1)  
23S/27E/03 (2,4)  
24S/25E/13 (2)  
24S/25E/24 (2)  
24S/25E/25 (2)  
24S/25E/36 (2)  
24S/26E/07 (2)  
24S/26E/30 (2)

**Ventura County—San Bernardino Meridian**

02N/19W/19 (1,2,3)  
02N/19W/30 (1,2,3)  
02N/20W/23 (1,2,3)  
02N/20W/24 (1,3)  
02N/20W/25 (1,2)  
02N/20W/26 (1,2,3)

**Yolo County—Mount Diablo Meridian**

08N/01E/01 (1)  
08N/01E/02 (2)  
08N/01E/11 (1)  
08N/01E/14 (2)  
09N/01E/36 (1,2)

(c) ~~Pesticide Management Zones for atrazine are listed below:~~

**Mount Diablo Meridian**

**Butte County**  
21N/01E/01—

**Contra Costa County**

01S/03E/04  
02N/02W/24

**Fresno County**

13S/22E/36

**DRAFT**

13S/23E/24  
13S/23E/26  
13S/23E/31  
13S/23E/32  
13S/23E/34  
14S/22E/01  
14S/22E/12  
14S/22E/13  
14S/22E/20  
14S/22E/22  
14S/23E/22  
14S/23E/26  
14S/23E/28  
14S/23E/32  
14S/23E/35  
14S/24E/35  
15S/21E/14  
15S/21E/24  
15S/22E/03  
15S/23E/01  
15S/23E/02  
15S/23E/12  
15S/24E/12  
15S/24E/13  
15S/24E/14  
15S/24E/23  
15S/24E/25  
15S/24E/36  
16S/21E/21  
16S/22E/02  
16S/22E/33

**Glenn County**

18N/03W/05  
18N/03W/07  
18N/04W/01  
19N/02W/05  
19N/03W/03  
19N/03W/04  
19N/03W/06  
19N/03W/07  
19N/03W/08

**DRAFT**

19N/03W/09  
19N/03W/10  
19N/03W/18  
19N/03W/22  
19N/03W/31  
19N/04W/02  
19N/04W/12  
19N/04W/23  
19N/04W/25  
20N/03W/03  
20N/03W/09  
20N/03W/19  
20N/03W/20  
20N/03W/25  
20N/03W/33  
20N/03W/36

~~Kern County~~  
31S/27E/16

~~Merced County~~  
08S/13E/01  
09S/12E/36

~~San Joaquin County~~  
02S/05E/13  
02S/05E/14  
02S/05E/23  
02S/05E/24  
02S/06E/19

~~Solano County~~  
07N/01E/04

~~Stanislaus County~~  
04S/09E/22

~~Tehama County~~  
25N/03W/23  
25N/03W/24

~~Tulare County~~  
15S/25E/08

**DRAFT**

16S/24E/05  
16S/24E/13  
16S/24E/24  
16S/24E/33  
16S/25E/28  
16S/25E/31  
17S/25E/02  
17S/25E/04  
17S/26E/13  
17S/26E/14  
17S/26E/26  
17S/26E/28  
17S/27E/29  
17S/26E/33  
18S/26E/23  
19S/26E/14  
19S/26E/25  
19S/27E/29  
20S/27E/19  
20S/27E/29  
21S/26E/02  
21S/27E/08  
21S/27E/17  
22S/26E/29  
22S/27E/18  
23S/26E/17

~~Yolo County~~

08N/01E/01  
08N/01E/11  
09N/01E/36

~~San Bernardino Meridian~~

~~Los Angeles County~~

01N/08W/33  
01N/09W/35  
01N/12W/05  
01N/12W/08  
01S/08W/05  
01S/09W/03  
01S/11W/02

**DRAFT**

01S/11W/09  
01S/11W/10  
01S/11W/12  
01S/11W/14  
01S/11W/15  
01S/11W/21  
01S/11W/23  
01S/11W/26  
01S/11W/27  
02S/11W/07  
02S/11W/08  
02S/11W/18  
02S/11W/19  
02S/12W/01  
02S/12W/08  
02S/12W/12  
02S/12W/13  
02S/12W/14  
02S/12W/15  
02S/12W/16  
02S/12W/20  
02S/12W/21  
02S/12W/22  
02S/12W/23  
02S/12W/24  
02S/12W/25  
02S/12W/26  
02S/12W/27  
02S/12W/28  
02S/12W/29  
02S/12W/30  
02S/12W/31  
02S/12W/33  
02S/12W/34  
02S/12W/35  
02S/12W/36  
03S/12W/01  
03S/12W/02  
03S/12W/03  
03S/12W/04  
03S/12W/05  
03S/12W/08

**DRAFT**

03S/12W/09  
03S/12W/10  
03S/12W/11  
03S/12W/12  
03S/12W/13  
03S/12W/14  
03S/12W/15  
03S/12W/17

**Orange County**

03S/09W/27  
03S/09W/28  
03S/09W/32  
04S/09W/05  
04S/09W/07  
04S/10W/03  
04S/10W/04  
04S/10W/09  
04S/10W/25

**Riverside County**

03S/04W/30  
03S/04W/31  
03S/06W/22

**Ventura County**

02N/19W/19  
02N/19W/30  
02N/20W/23  
02N/20W/24  
02N/20W/25  
02N/20W/26

(d) ~~Pesticide Management Zones for simazine are listed below:~~

**Mount Diablo Meridian**

**Colusa County**

13N/01W/06  
14N/01W/32

**DRAFT**

Contra Costa County  
02N/02W/24

Fresno County

12S/20E/01  
13S/21E/01  
13S/22E/06  
13S/22E/33  
13S/22E/36  
13S/23E/24  
13S/23E/26  
13S/23E/27  
13S/23E/28  
13S/23E/31  
13S/23E/32  
13S/23E/33  
13S/23E/34  
14S/21E/13  
14S/21E/16  
14S/21E/20  
14S/21E/21  
14S/21E/23  
14S/21E/24  
14S/21E/25  
14S/21E/26  
14S/21E/28  
14S/21E/32  
14S/21E/34  
14S/21E/35  
14S/21E/36  
14S/22E/01  
14S/22E/12  
14S/22E/13  
14S/22E/14  
14S/22E/18  
14S/22E/19  
14S/22E/20  
14S/22E/23  
14S/22E/31  
14S/22E/33  
14S/23E/22  
14S/23E/26

**DRAFT**

14S/23E/28  
14S/23E/32  
14S/23E/33  
14S/23E/34  
14S/23E/35  
14S/24E/35  
14S/24E/36  
15S/21E/02  
15S/21E/03  
15S/21E/04  
15S/21E/05  
15S/21E/08  
15S/21E/09  
15S/21E/10  
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15S/22E/21  
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15S/22E/28  
15S/22E/30  
15S/22E/32  
15S/22E/33  
15S/23E/01  
15S/23E/02  
15S/23E/06  
15S/23E/07

**DRAFT**

15S/23E/12  
15S/24E/01  
15S/24E/10  
15S/24E/11  
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15S/24E/14  
15S/24E/23  
15S/24E/25  
15S/24E/31  
15S/24E/33  
15S/24E/36  
16S/21E/04  
16S/21E/05  
16S/21E/07  
16S/21E/16  
16S/21E/21  
16S/22E/01  
16S/22E/02  
16S/22E/03  
16S/22E/11  
16S/22E/33  
16S/22E/34  
17S/22E/05

**Glenn County**

18N/03W/05  
18N/03W/07  
18N/03W/18  
19N/03W/03  
19N/03W/07  
19N/03W/08  
19N/03W/09  
19N/03W/10  
19N/03W/17  
20N/03W/09  
20N/03W/25  
20N/03W/34

**Madera County**

08S/20E/34  
09S/20E/02

**DRAFT**

**Mendocino County**

15N/12W/16

**Merced County**

06S/12E/32

07S/13E/36

08S/13E/01

**San Joaquin County**

02S/05E/13

02S/06E/19

**Stanislaus County**

04S/09E/10

04S/09E/15

04S/09E/16

04S/09E/20

04S/09E/21

04S/09E/22

04S/09E/23

**Tehama County**

25N/03W/23

26N/03W/35

**Tulare County**

15S/25E/05

15S/25E/08

16S/23E/01

16S/24E/01

16S/24E/03

16S/24E/04

16S/24E/05

16S/24E/08

16S/24E/09

16S/24E/10

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17S/26E/33

**DRAFT**

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18S/26E/01  
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18S/26E/36  
18S/27E/02  
18S/27E/08  
18S/27E/09  
18S/27E/10  
18S/27E/11  
18S/27E/15  
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18S/27E/29  
18S/27E/30  
18S/27E/31  
19S/26E/01

**DRAFT**

19S/26E/02  
19S/26E/04  
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19S/26E/11  
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20S/26E/01  
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21S/26E/32  
21S/26E/33

**DRAFT**

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21S/27E/06  
21S/27E/08  
21S/27E/17  
21S/29E/09  
21S/29E/14  
21S/29E/15  
21S/29E/16  
22S/26E/02  
22S/26E/03  
22S/26E/11  
22S/26E/12  
22S/26E/13  
22S/27E/06  
22S/27E/07  
22S/27E/18  
22S/27E/34  
23S/26E/09  
23S/27E/03  
24S/25E/13  
24S/25E/24  
24S/25E/25  
24S/25E/36  
24S/26E/07  
24S/26E/30

~~Yolo County~~

~~08N/01E/02  
08N/01E/14  
09N/01E/36~~

~~San Bernardino Meridian~~

~~Los Angeles County~~

~~01N/09W/35  
01S/11W/10  
01S/11W/11  
01S/11W/14  
02S/11W/05  
02S/11W/07  
02S/11W/08  
02S/11W/18~~

**DRAFT**

02S/11W/19  
02S/12W/01  
02S/12W/12  
02S/12W/13  
02S/12W/14  
02S/12W/15  
02S/12W/16  
02S/12W/21  
02S/12W/22  
02S/12W/23  
02S/12W/24  
02S/12W/25  
02S/12W/26  
02S/12W/27  
02S/12W/28  
02S/12W/29  
02S/12W/30  
02S/12W/33  
02S/12W/35  
03S/12W/01  
03S/12W/02  
03S/12W/04  
03S/12W/03  
03S/12W/05  
03S/12W/12  
04N/15W/21

~~Orange County~~

03S/09W/27  
03S/09W/28  
03S/09W/32  
03S/09W/33  
03S/09W/34  
04S/09W/03  
04S/09W/04  
04S/09W/05  
04S/09W/07  
04S/09W/18  
04S/10W/01  
04S/10W/03  
04S/10W/04  
04S/10W/14

**DRAFT**

04S/10W/24  
04S/10W/25

~~Riverside County~~

~~02S/04W/07  
02S/04W/17  
02S/05W/12  
02S/05W/20  
02S/05W/21  
02S/07W/36  
03S/04W/30  
03S/04W/31  
03S/05W/06  
03S/06W/14  
03S/06W/15  
03S/06W/22  
03S/06W/23  
03S/06W/28  
03S/06W/31  
03S/07W/25~~

~~San Bernardino County~~

~~01S/04W/32  
02S/04W/05  
02S/04W/06~~

~~Ventura County~~

~~02N/19W/19  
02N/19W/30  
02N/20W/23  
02N/20W/25  
02N/20W/26~~

~~(e) Pesticide Management Zones for bromacil are listed below:~~

~~Mount Diablo Meridian~~

~~Butte County~~

~~21N/01E/01~~

~~Contra Costa County~~

~~02N/02W/14~~

**DRAFT**

Fresno County

13S/22E/06  
13S/22E/33  
13S/22E/36  
13S/23E/24  
13S/23E/26  
13S/23E/27  
13S/23E/28  
13S/23E/31  
13S/23E/33  
14S/21E/25  
14S/22E/01  
14S/22E/12  
14S/22E/14  
14S/22E/33  
14S/24E/36  
15S/22E/05  
15S/22E/09  
15S/23E/06  
15S/24E/01  
15S/24E/10  
15S/24E/11  
15S/24E/13  
15S/24E/14  
15S/24E/25  
15S/24E/33  
15S/24E/36  
16S/22E/33

Placer County

15N/10E/04

San Joaquin County

01S/06E/12  
01S/06E/13  
02S/05E/23

Tehama County

25N/03W/24

Tulare County

15S/25E/05

**DRAFT**

16S/23E/01  
16S/24E/01  
16S/24E/04  
16S/24E/06  
16S/24E/09  
16S/24E/10  
16S/24E/12  
16S/24E/13  
16S/24E/16  
16S/24E/22  
16S/24E/26  
16S/25E/04  
16S/25E/06  
16S/25E/08  
16S/25E/09  
16S/25E/21  
16S/25E/28  
16S/25E/32  
17S/25E/11  
17S/25E/13  
17S/25E/23  
17S/25E/24  
17S/25E/25  
17S/25E/36  
17S/26E/18  
17S/26E/19  
17S/26E/20  
17S/26E/24  
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17S/26E/29  
17S/26E/30  
17S/26E/31  
17S/26E/32  
17S/26E/33  
17S/26E/35  
18S/23E/36  
18S/25E/01  
18S/25E/12  
18S/26E/02  
18S/26E/06  
18S/26E/23

**DRAFT**

18S/26E/24  
18S/26E/26  
18S/26E/34  
18S/26E/35  
18S/26E/36  
18S/27E/02  
18S/27E/08  
18S/27E/09  
18S/27E/16  
18S/27E/17  
18S/27E/18  
18S/27E/20  
18S/27E/29  
18S/27E/30  
19S/26E/01  
19S/26E/02  
19S/26E/11  
19S/26E/12  
19S/26E/14  
19S/26E/15  
19S/26E/23  
19S/26E/26  
19S/26E/34  
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19S/26E/36  
19S/27E/19  
19S/27E/31  
20S/26E/02  
20S/26E/11  
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20S/27E/06  
20S/27E/07  
20S/27E/08  
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20S/27E/16  
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20S/27E/19  
20S/27E/20  
20S/27E/21

**DRAFT**

20S/27E/29  
20S/27E/30  
20S/27E/31  
20S/27E/32  
21S/29E/10  
22S/26E/11  
22S/27E/18

~~San Bernardino Meridian~~

~~Los Angeles County~~  
~~01S/08W/03~~  
~~01S/08W/05~~

~~Orange County~~  
~~04S/09W/03~~

~~Riverside County~~  
~~03S/04W/30~~  
~~03S/04W/31~~  
~~03S/06W/14~~  
~~03S/06W/15~~  
~~03S/06W/23~~

~~Ventura County~~  
~~02N/19W/19~~  
~~02N/19W/30~~  
~~02N/20W/23~~  
~~02N/20W/24~~  
~~02N/20W/26~~

~~(f) Pesticide Management Zones for diuron are listed below:~~

~~Mount Diablo Meridian~~

~~Fresno County~~  
~~12S/20E/01~~  
~~13S/22E/06~~  
~~13S/22E/33~~  
~~13S/22E/36~~  
~~13S/23E/24~~  
~~13S/23E/26~~

**DRAFT**

13S/23E/27  
13S/23E/28  
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13S/23E/34  
14S/21E/13  
14S/21E/20  
14S/21E/36  
14S/22E/01  
14S/22E/03  
14S/22E/12  
14S/22E/13  
14S/22E/14  
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14S/22E/31  
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14S/24E/35  
14S/24E/36  
15S/21E/04  
15S/21E/05  
15S/21E/13  
15S/21E/14  
15S/22E/05  
15S/22E/15  
15S/22E/30  
15S/23E/01  
15S/23E/02  
15S/23E/06  
15S/23E/07  
15S/23E/12  
15S/24E/01  
15S/24E/10  
15S/24E/11  
15S/24E/12

**DRAFT**

15S/24E/13  
15S/24E/14  
15S/24E/23  
15S/24E/25  
15S/24E/31  
15S/24E/33  
15S/24E/36  
16S/22E/01  
16S/22E/34  
17S/19E/35

~~Glenn County~~  
19N/02W/09

~~Kern County~~  
28S/25E/14

~~Madera County~~  
08S/20E/34

~~Merced County~~  
09S/12E/25  
09S/12E/36

~~San Joaquin County~~  
02S/05E/24  
02S/06E/19

~~Stanislaus County~~  
04S/07E/29  
04S/07E/30  
04S/09E/22  
04S/09E/23

~~Tehama County~~  
26N/03W/35

~~Tulare County~~  
15S/25E/05  
15S/25E/08  
16S/24E/01  
16S/24E/03

**DRAFT**

16S/24E/04  
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18S/26E/09  
18S/26E/22  
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18S/26E/36  
18S/27E/02  
18S/27E/10  
18S/27E/11  
18S/27E/08  
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18S/27E/16  
18S/27E/17  
18S/27E/18  
18S/27E/19  
18S/27E/20

**DRAFT**

18S/27E/21  
18S/27E/29  
18S/27E/30  
18S/27/E31  
19S/24E/36  
19S/25E/31  
19S/26E/01  
19S/26E/02  
19S/26E/12  
19S/26E/04  
19S/26E/10  
19S/26E/11  
19S/26E/14  
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20S/27E/17  
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20S/27E/31  
21S/26E/03  
21S/26E/21  
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21S/26E/32  
21S/26E/36  
21S/29E/10

**DRAFT**

21S/29E/11  
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22S/26E/10  
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22S/26E/12  
22S/26E/13  
22S/26E/24  
22S/26E/32  
22S/27E/06  
22S/27E/07  
22S/27E/18  
22S/27E/34  
23S/26E/09  
23S/27E/03

**San Bernardino Meridian**

**Los Angeles County**

02S/11W/05  
02S/12W/21  
02S/12W/28  
02S/12W/29  
03S/12W/03

**Orange County**

03S/09W/27  
03S/09W/28  
03S/09W/34  
04S/09W/03  
04S/09W/04

**Riverside County**

03S/04W/30  
03S/04W/31  
03S/06W/14  
03S/06W/22  
03S/06W/23

**DRAFT**

~~San Bernardino County~~

~~01S/04W/32~~

~~02S/04W/05~~

(g) ~~Pesticide Management Zones for prometon are listed below:~~

~~Mount Diablo Meridian~~

~~Contra Costa County~~

~~02N/02W/14~~

~~02N/02W/24~~

~~Fresno County~~

~~14S/22E/22~~

~~15S/21E/08~~

~~15S/22E/16~~

~~15S/23E/12~~

~~Glenn County~~

~~18N/03W/05~~

~~18N/03W/18~~

~~19N/03W/08~~

~~19N/03W/09~~

~~19N/03W/17~~

~~19N/03W/18~~

~~19N/04W/01~~

~~20N/03W/16~~

~~20N/03W/34~~

~~Merced County~~

~~08S/13E/01~~

~~Tulare County~~

~~16S/24E/10~~

~~17S/25E/03~~

~~17S/25E/04~~

~~17S/27E/31~~

~~18S/26E/21~~

~~18S/26E/23~~

~~18S/27E/16~~

~~19S/26E/34~~

**DRAFT**

~~San Bernardino Meridian~~

~~Los Angeles County~~  
~~04N/15W/21~~

~~(h) Pesticide Management Zones for norflurazon are listed below:~~

~~Mount Diablo Meridian~~

~~Fresno County~~  
~~14S/22E/12~~  
~~14S/23E/22~~  
~~14S/23E/26~~  
~~14S/23E/28~~  
~~14S/23E/33~~  
~~15S/23E/02~~  
~~15S/23E/12~~

~~Tulare County~~  
~~16S/24E/12~~  
~~16S/24E/14~~  
~~19S/26E/16~~  
~~21S/27E/05~~

NOTE: Authority cited: Section 11456, 12976 and 13145, Food and Agricultural Code.  
Reference: Section 13145, Food and Agricultural Code.



**California Department of  
Pesticide Regulation**

1001 I Street  
P.O. Box 4015  
Sacramento, CA 95812-4015  
916-445-4300  
[www.cdpr.ca.gov](http://www.cdpr.ca.gov)

**Division of Enforcement  
and Environmental Monitoring**

916-445-3980

**BRANCHES:**

**Enforcement**

916-324-4100

**Environmental Monitoring**

916-324-4100

**Pesticide Management  
and Licensing**

916-324-4100

**Division of Registration  
and Health Evaluation**

916-445-3984

**BRANCHES:**

**Worker Health and Safety**

916-445-4222

**Medical Toxicology**

916-445-4233

**Pesticide Registration**

916-445-4400

**Division of  
Administrative Services**

916-445-4140

**Information Technology**

916-445-4110

**Personnel**

916-322-4553

WHAT YOU NEED TO KNOW

# about

CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION

## A Better Way to Protect Ground Water

The California Department of Pesticide Regulation (DPR) is committed to solving water quality problems caused by pesticide contamination of ground water, using sound scientific standards and reasonable regulations.

In 1985, the Pesticide Contamination Prevention Act gave DPR a mandate to monitor wells for contamination and identify pesticides moving to ground water. To implement the law, we designated pesticide management zones (PMZs) to control use where contamination occurred. Those early efforts helped us understand how, where, and why some areas were more vulnerable to ground water contamination. Using this extensive data and other information, our scientists created a sophisticated computer model that shows where regulatory action can effectively prevent contamination. It identifies soil, climate and depth-to-ground-water combinations that can threaten ground water quality.

Using this information, DPR is proposing a more proactive, science-based program to protect ground water by emphasizing designation of vulnerable areas and preventing contamination in those areas.

### Why change the current program?

Our mandate under the Pesticide Contamination Prevention Act is *preventing* ground water contamination caused by agricultural use of pesticides. The current program is not effective. It only requires actions *after* contamination has occurred. The restrictions we have imposed along with special training of pest control advisers have not met the intent of the law. Use practices have not changed enough to prevent recurring problems. We

continue to find known contaminants (pesticides already detected in ground water) in new areas we sample. The existing regulations include prohibitions and requirements which are not only unnecessary but add to grower costs without protecting water quality.

Also, we have a better understanding of pesticide behaviour now, and that gives us the ability to craft workable pollution prevention measures. Most pesticides found in ground water are soil-applied herbicides, and we know now that prevention measures depend on the source and pathway of contamination.

### What do you plan to do?

To better carry out our mandate, we are revising the regulations. We intend to eliminate unnecessary requirements and put a new emphasis on designating sensitive areas to prevent contamination in the first place and minimize continuing contamination. The new regulations will allow us to classify vulnerable areas as either "runoff" or "leaching" and establish management practices in regulation for each area type. The system will operate within the existing permit process and give pesticide users flexibility to choose from a menu of regulatory options to apply the protection measure that best fits their situation.

When the new system is in place, you won't be able to use contaminant pesticides inside recharge basins and canals and ditches under conditions that favor movement to ground water. There also will be new, statewide controls around wellheads. Wellheads can provide a direct pathway to ground water and we want to prevent that.

**DPR is proposing a more proactive, science-based program to protect ground water by emphasizing designation of vulnerable areas and preventing contamination in those areas.**

### **Will all pesticide use be regulated?**

No, only pesticides already proven a problem, that is, those already found in ground water due to legal agricultural use. Right now, there are seven of these pesticides, listed in regulation (on what is called the 6800[a] list):

- Atrazine (Aatrex)
- Simazine (Princep)
- Bromacil (Krovar, Hyvar)
- Diuron (Karmex, Krovar)
- Prometon (Pramitol)
- Bentazon (Basagran)
- Norflurazon (Solicam, Predict, Zorial)

### **What will I have to do to use these pesticides?**

Permits will be needed to use any of the 6800(a) pesticides in a designated ground water protection area (GWPA). Pesticide users must choose a "use requirement" option (one of several management practices) that will be specified in the regulations. Management practices will vary based on whether the area is vulnerable to leaching or runoff. The option chosen will be spelled out on and enforced as part of the permit. Other requirements will apply if pesticides are applied to certain rights-of-way inside GWPAs, and to artificial recharge basins, canals and ditch banks, both inside and outside of GWPAs.

### **What are ground water protection areas (GWPAs)?**

We have found that specific combinations of climate, soil type, and depth to ground water are common to areas where pesticides have been found in ground water due to legal (that is, routine) agricultural use. A GWPA is a geographically defined area that is vulnerable to pesticide contamination, either by leaching or runoff. GWPAs will include all existing pesticide management zones, plus other areas based on specified soil types and a depth to ground water of 70 feet or less, encompassing almost eight times more area.

### **What will happen to pesticide management zones (PMZs)?**

To better protect vulnerable areas, we are replacing the scattered groupings of PMZs (where use of certain pesticides has been prohibited or restricted) with broader geographical areas, the GWPAs.

### **How do I find out whether the field I want to treat is in a GWPA?**

That information is available on DPR's Web site, [www.cdpr.ca.gov](http://www.cdpr.ca.gov) (click on "Programs and

Services" button, then on "Ground Water Protection Program). The County Agricultural Commissioners also have access to this information.

### **What if the management practices aren't feasible in my area?**

Growers, registrants, and others will have the opportunity to request that DPR approve other, effective management practices that may be more suitable to their cultural practices or farming techniques while those practices are being adopted into regulation. If no feasible alternatives exist to the current practices, you can formally request DPR allow interim use of the pesticide for three years, provided you initiate studies to develop suitable alternative management practices.

### **If I want to use these pesticides outside a GWPA, are there restrictions?**

Yes. All use requirements for artificial recharge basins, canals and ditch banks, and wellhead protection apply statewide. But leaching and runoff use requirements only apply within leaching and runoff GWPAs. Of course, all label restrictions still apply.

### **Under the old rules, use of some pesticides was prohibited in PMZs and there were training and other requirements. Will those still be in effect?**

No. In addition to eliminating PMZs, the proposed regulations would do away with:

- Current mandatory use prohibitions in sensitive areas.
- Ground water protection advisories.
- Mandatory ground water protection training for PCAs.
- Statements that purchasers of a 6800(a) pesticide have to give dealers about whether the pesticide will be used in its PMZs.

### **What is the timetable for the new regulations?**

We plan to notice them for public comment early in 2003 and expect them to be in effect later in the year. Once they are noticed, they will be available for review on our Web site, [www.cdpr.ca.gov](http://www.cdpr.ca.gov) (click on the "Laws and Regulations" button). You can submit written comments via the Web site or by mail.

### **Where can I get more information?**

Contact Mark Pepple at (916) 324-4086 or via E-mail at [mpepple@cdpr.ca.gov](mailto:mpepple@cdpr.ca.gov).