

Surface Water Protection Update



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Outline

- Introduction
- Pesticides covered
- Drift control concepts
- Runoff control concepts
- Exemptions
- Runoff control alternative for production agriculture



Introduction

- Objective: new surface water pesticide regulations realistic, workable statewide.
- Concepts released 2009: “Straw man” documents meant to elicit public comments and suggestions.
- Public workshops and other channels for feedback.
- Many comments received from a variety of stakeholders.

Pesticides Covered

- ~70 pesticides detected in surface water



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- between 1991-2008



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Pesticides Covered

- ~70 pesticides detected in surface water
 - between 1991-2008
 - at least two detections
 - excluded pesticides with most sensitive species levels above 50 ppb
 - excluded some due to registration or regulatory status, e-fate characteristics

Types of Pesticides Covered

Herbicides	32
OPs	14
Pyrethroids	11
Carbamates	6
Other	6



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Alachlor

Aldicarb

Atrazine

Azinphos-methyl

Benefin (benfluralin)

Bentazon, sodium salt

beta-Cyfluthrin

Bifenthrin

Bromacil

Carbaryl

Carbofuran

Chlorpyrifos

Cyfluthrin

Cypermethrin

S-cypermethrin

Deltamethrin

Diazinon

Dicamba,
dimethylamine salt

Dicamba, sodium salt

Dicofol

Dimethoate

Disulfoton

Diuron

Esfenvalerate

Ethalfuralin

Ethoprop

Fenoxycarb

Fenpropathrin

Fipronil

gamma-Cyhalothrin

Hexazinone

Imidacloprid

lambda-Cyhalothrin

Linuron

Malathion

All MCPAs

Methidathion

Methiocarb

Methomyl

Methyl parathion

Metolachlor

S-metolachlor

Metribuzin

Naled

Norflurazon

Oryzalin

Oxadiazon

Oxyfluorfen

Pendimethalin

Permethrin

Phorate

Phosmet

Prodiamine

Prometryn

Propanil

Propargite

Propoxur

Propyzamide
(pronamide)

Pyriproxifen

Siduron

Simazine

Tetrachlorvinphos

Triallate

**Tribufos (Folex -
S,S,S-tributyl
phosphorotrithioate)**

Trifluralin

2,4-Ds

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Drift Control

- Production Ag
- All Other Outdoor Apps by Pest Control Businesses, including Maintenance Gardeners



Drift Control – Production Ag

- No-application buffer zones apply between sensitive aquatic sites (SAS) and site to be treated



“Sensitive Aquatic Site”

- means any irrigation or drainage ditch, canal, or other body of water in which the presence of pesticides could adversely impact any of the beneficial uses of the waters of the state specified in Water Code section 13050(f).

No-Application Buffer Zones

Low-pressure ground apps	25 ft
High pressure (>60 psi) ground apps	100 ft
Aerial apps	150 ft

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Runoff Control – Production Ag

1. Avoid forecasted rain



Runoff Control – Production Ag

1. Avoid forecasted rain, and
2. Apply technology (such as PAM, Landguard[®]) to reduce residues, or



Runoff Control – Production Ag

1. Avoid forecasted rain, and
2. Apply technology to reduce residues, or
3. Hold or recirculate runoff for 72 hours after application



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Exemptions

- Apiaries
- Aquaculture
- Livestock and poultry production (meat, milk, eggs)
- On-farm post-harvest commodity treatments
- Injections into soil
- Applications immediately incorporated into soil; if by irrigation, no runoff allowed

Exemptions

- Applications to animal burrows
- Injections into or painted or wicked onto trees, shrubs, or other plants
- Intentional applications to water
- (Drift management) Enclosed baits
- (Runoff management) Application to hydrologically isolated sites

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Runoff Control Alternative (Production Ag)

Applicator does not have to comply with any of the three runoff options if:

1. **Applicator obtains and follows a written recommendation by a licensed PCA,**

Runoff Control Alternative (Production Ag)

Applicator does not have to comply with any of the three runoff options if:

1. Applicator obtains and follows a written recommendation by a licensed PCA, and
2. At the time of application, user possesses and is following a surface water management plan

Surface Water Management Plan

- A farm, conservation or other plan developed in cooperation with, and meeting the requirements of, conservation agencies, certifiers of organic or sustainable agricultural products or other organizations, that have been approved by the director.

Surface Water Management Plan

- The plan must have a pest management component and an irrigation and stormwater management component.

Next Steps



- Internal review of changes
- Review changes with CACs
- Draft rulemaking package
- Notice proposed regulations for public comment.

For Details, See DPR Website

www.cdpr.ca.gov

- Monitoring tab
- Surface Water Protection Program
- Regulatory Issues (twice)
- Surface Water Regulations

A photograph of a sunset or sunrise. The sun is partially obscured by a layer of clouds, creating a bright, glowing horizontal band of light across the middle of the frame. The sky above is a deep, dark purple, while the sky below the clouds is a bright, golden yellow. The overall mood is serene and grateful.

Thanks!