

# Update on Reevaluation of Neonicotinoids

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# Outline

- Background
- Types of products
- Data requirements
  - Field studies
  - Acute toxicity studies
- Project progress to date



# Background

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- Initiated on February 26, 2009
  - Adverse effects data submitted by Bayer CropScience for imidacloprid.
- Reevaluation includes:
  - Nitroguanidine-substituted neonicotinoids:  
imidacloprid, thiamethoxam,  
dinotefuran, and clothianidin.

# Pesticide Products Include

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- Universe includes 222 products from 41 registrants.
- Excluded certain products based on use patterns.
- List of products are available on DPR's Web site.
- Allowed registrants to comment on proposed data requirements.

# Field Studies

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## Imidacloprid

### Crop/Crop Groups to be Sampled:

- Almonds
- Citrus
- Cotton
- Cucurbits
- Fruiting vegetables
- Pome fruits
- Strawberries

# Field Studies

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## Thiamethoxam

### Crop/Crop Groups to be Sampled:

- Almonds
- Citrus
- Cotton
- Cucurbits
- Fruiting vegetables
- Pome fruits
- Strawberries

# Field Studies

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## Dinotefuran

### Crop/Crop Groups to be Sampled:

- Almonds
- Citrus
- Cotton
- Cucurbits
- Fruiting vegetables
- Pome fruits
- Strawberries

# Field Studies

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## **Clothianidin**

### **Crop/Crop Groups to be Sampled:**

- Almonds
- Citrus
- Cotton
- Cucurbits
- Fruiting vegetables
- **Pome fruits**
- Strawberries

# Acute Toxicity Studies

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- **Acute Dietary Concentration (LC<sub>50</sub> studies)**  
Brood (larvae)



# Project Progress to Date

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- Identification of registrants for each active ingredient.
- Each submitted information for consideration.
- DPR coordinating with U.S. EPA and PMRA Canada.

# Imidacloprid – Project Status

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## ■ Field studies

- Cotton and fruiting vegetable (tomato) residues collected in August. Final report anticipated March of 2011.
- Citrus investigations conducted at UC Riverside.
- Cucurbit, pome fruit, and strawberry sampling anticipated 1<sup>st</sup> and 2<sup>nd</sup> quarter of 2011.

## ■ Acute toxicity studies

- Request to bridge from existing whole hive study.

# Thiamethoxam – Project Status

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## ■ Field studies

- Fruiting vegetable (tomato) residues collected in July.
- Cucurbits experiencing location challenges.
- Pome sampling anticipated 1<sup>st</sup> quarter of 2011.
- Requesting waiver from generating data on strawberries.

## ■ Acute toxicity studies

- In process - following protocol.

# Conclusion

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- Background
- Types of products
- Data requirements
  - Field studies
  - Acute toxicity studies
- Project progress to date

# Questions?

The screenshot shows a Windows Internet Explorer browser window. The address bar contains the URL: <http://www.cdpr.ca.gov/docs/registration/reevaluation/chemicals/neonicotinoids.htm>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The page title is "Neonicotinoids - Windows Internet Explorer".

The website header features the "CA.GOV" logo and the text "California Department of Pesticide Regulation". A search bar is located in the top right corner. Below the header is a navigation menu with buttons for Home, Health & Safety, Enforcement, Pest Management, Licensing, Registration (highlighted), Monitoring, and Laws/Regulations. A secondary navigation bar includes links for Register a product, Product/label search, Chemical search, Notices, Mill assessment, Resources, Fees, and Forms.

The main content area is titled "Neonicotinoids" and includes a link "Back to Currently in Reevaluation". The text states: "On February 26, 2009, the Department of Pesticide Regulation (DPR) placed into reevaluation certain pesticide products containing the neonicotinoids imidacloprid, clothianidin, dinotefuran, and thiamethoxam. The reevaluation is based on an adverse effects disclosure submitted to DPR regarding the active ingredient imidacloprid. DPR's evaluation of the adverse effects data noted two critical findings: high levels of imidacloprid in leaves and blossoms of treated plants, and increases in residue levels over time. Clothianidin, dinotefuran and thiamethoxam are in the same chemical family as imidacloprid, and characteristics in common. They have similar soil mobility and half-lives, and similar toxicity to honeybees."

Below the text is a list of links:

- » [Reevaluation notice](#) (PDF, 59 kb)
- » [List of products included in reevaluation](#) (PDF, 68 kb)
- » [Example letters to registrants](#) (September 15, 2009) (PDF, 233 kb)
- » [Honey bee larval toxicity testing protocol](#) (PDF, 840 kb)

At the bottom of the content area, contact information is provided: "For content questions, contact: Denise Alder, 1001 I Street, P.O. Box 4015, Sacramento, CA 95812, Telephone: (916) 324-3522, E-mail: [dalder@cdpr.ca.gov](mailto:dalder@cdpr.ca.gov)".

The footer of the page includes links for "Back to Top", "Contact Us", "Site Map", and "Help". The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 9:06 PM and 100% zoom level.