

Update on Reevaluation of Neonicotinoids

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March 18, 2011

Outline

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



Background

- 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

- 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

Imidacloprid

Crop/Crop Groups to be Sampled:

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

Field Studies

Thiamethoxam

Crop/Crop Groups to be Sampled:

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

Field Studies

Dinotefuran

Crop/Crop Groups to be Sampled:

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

Field Studies

Clothianidin

Crop/Crop Groups to be Sampled:

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

Acute Toxicity Studies

- **Acute Dietary Concentration (LC₅₀ studies)**
Brood (larvae)

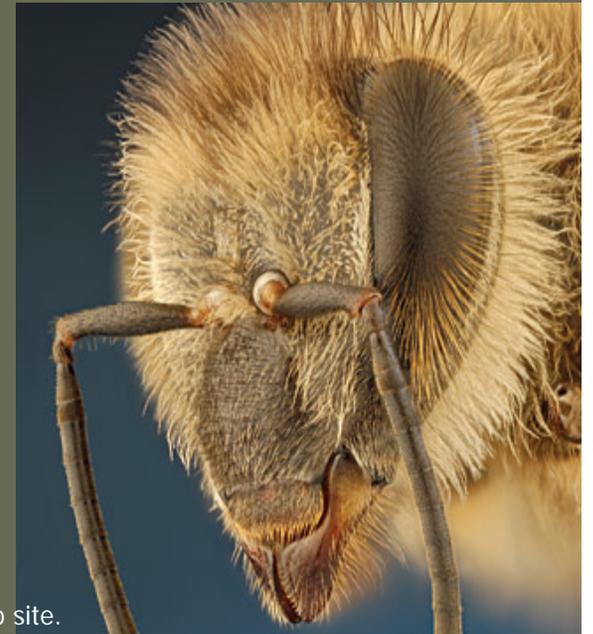


Photo obtained from Scientific American Web site.

Project Progress to Date

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

Imidacloprid – Project Status

■ Field studies

- Almond
- Cotton and fruiting vegetable (tomato) residues collected in August 2010.
 - Fruiting vegetable final report 2nd quarter 2011, cotton final report 4th quarter 2011.
- Citrus investigations conducted at UC Riverside.
- Cucurbit, pome fruit, and strawberry sampling anticipated 1st and 2nd quarter of 2011.

Imidacloprid – Project Status

- Acute toxicity studies
 - Request to bridge from existing whole hive study has been denied. A study protocol is anticipated.

Thiamethoxam – Project Status

■ Field studies

- Fruiting vegetable (tomato) residues collected in July.
 - Final report anticipated mid year 2011.
- Cucurbits experiencing location challenges.
- Pome applications dwindling.
- Requesting waiver from generating data on strawberries.

■ Acute toxicity studies

- In process - following protocol.

Conclusion

- 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 title bar reads "Neonicotinoids - Windows Internet Explorer". 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 content features the California Department of Pesticide Regulation logo and navigation tabs for "Home", "Health & Safety", "Enforcement", "Pest Management", "Licensing", "Registration", "Monitoring", and "Laws/Regulations". A search bar is located in the top right corner. 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 this text are four 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)", and "Honey bee larval toxicity testing protocol (PDF, 840 kb)". A contact information section for Denise Alder is provided at the bottom of the main content area. The browser's status bar at the bottom shows "Internet", "90%", and "100%". The Windows taskbar at the very bottom includes the Start button, several application icons, and the system clock showing "9:06 PM".

Neonicotinoids - Windows Internet Explorer

http://www.cdpr.ca.gov/docs/registration/reevaluation/chemicals/neonicotinoids.htm

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Neonicotinoids

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Start Neonicotinoid...