

Update on Neonicotinoid Reevaluation

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**Pesticide Registration and
Evaluation Committee Meeting
May 15, 2015**

Outline

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- **Background**
- **Types of products**
- **Data requirements**
 - ❖ **Field studies**
 - ❖ **Acute toxicity studies**
- **Project progress to date**
- **Pollinator protection labeling**

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, clothianidin, and dinotefuran

Types of Pesticide Products

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- Universe includes 274 products from 82 registrants.
- Excluded certain products based on use patterns.
- List of products are available on DPR's Web site.

Field Studies

Imidacloprid

Crop/Crop Groups to be Sampled:

~~Almonds~~

Fruiting Vegetables

Citrus

Pome Fruits

Cotton

Strawberries

Cucurbits

Stone Fruits

Field Studies

Thiamethoxam

Crop/Crop Groups to be Sampled:

~~Almonds~~

Fruiting Vegetables

Citrus

~~Pome Fruits~~

Cotton

Strawberries

Cucurbits

Stone Fruits

Field Studies

Clothianidin

Crop/Crop Groups to be Sampled:

Almonds

Citrus

~~Cotton~~

Cucurbits

Fruiting Vegetables

~~Pome Fruits~~

Strawberries

Stone Fruits

Field Studies

Dinotefuran

Crop/Crop Groups to be Sampled:

Almonds

Citrus

Cotton

Cucurbits

Fruiting Vegetables

Pome Fruits

Strawberries

Stone Fruits

Honey Bee Toxicity Studies

Acute Dietary Concentration
(LC₅₀ studies)

Brood (larvae)

Project Progress to Date

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- **Residue studies received**
- **Larva acute toxicity studies received**
- **Collaborative efforts with U.S. EPA and PMRA Health Canada**

Imidacloprid – Project Status

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- **Field studies**

- ❖ **Cotton and fruiting vegetable:** Received May 2011. DPR revised study strategy. Summary data received with final reports anticipated June 2015.
- ❖ **Citrus:** Received May 2011 and April 2012
- ❖ **Cucurbit and strawberry:**
Received December 2012
- ❖ **Pome and stone fruit:** Summary data received with final reports anticipated January 2016.

Imidacloprid – Project Status *continued*

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- Larva acute toxicity study
 - ❖ Final report received **March 2012.**

Thiamethoxam – Project Status

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- **Field studies**

- ❖ **Fruiting vegetable:** Received January 2012

- ❖ **Cucurbit:** Received January 2013

- ❖ **Cotton:** Summary data received with final report anticipated June 2015.

- ❖ **Citrus and stone fruit:** Summary data received with final report anticipated December 2015.

- ❖ **Strawberry:** Summary data anticipated December 2015.

Thiamethoxam – Project Status *continued*

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- Larva acute toxicity study
 - ❖ Final report received **January 2012.**

Clothianidin – Project Status

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- **Field studies**
 - ❖ **Almond:** Summary data anticipated December 2015.
 - ❖ **Cucurbit:** Received April 2015
 - ❖ **Fruiting vegetable:** Federal amendment pending
 - ❖ **Stone fruit:** Summary data anticipated August 2015.
- **Larva acute toxicity study**
 - ❖ Final report received February 2012.

Dinotefuran – Project Status

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- **Field studies**

- ❖ Cotton: **Received March 2012**

- ❖ Cucurbits and fruiting vegetables:
January 2010, provided existing studies for consideration.

- **Larva acute toxicity study**

- ❖ Effects on hives information received
March 2012.

- ❖ Final report anticipated **November 2015.**

Pollinator Protection Labeling Initiative

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- August 2013, U.S. EPA announced new labeling statements to protect pollinators.
- Required language applies to:
 - ❖ Outdoor foliar use directions
 - ❖ Containing one of the four neonicotinoids
 - ❖ All formulation types (except granules)

Pollinator Protection Labeling Initiative

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- Required bee advisory box
- Additional language in directions for use section specific to:
 - ❖ Crops under contracted pollination services (almonds)
 - ❖ Food crops and commercially grown ornamentals not under contract (citrus)
 - ❖ Non-agricultural products (everything else)

Pollinator Protection Labeling Initiative

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- U.S. EPA required changes by **February 1, 2014**
- DPR expedited amendments **(over 155 products)**
- Neonicotinoid product applications processed by reevaluation team

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