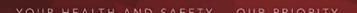
# Pest Management Regulatory Agency (PMRA) Update

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Regional Pesticide Officer January 28, 2016 IEPMA



## Overview

- What is the PMRA?
- · Imidacloprid publication
- Backyard fruit tree application
- · New registrations and label expansions
- Residential turf applications and PPE
- Burger and beer night

# What is the PMRA?

3 levels of government that regulate pesticides

**Federal** 

Provincial

Municipal



#### What is the PMRA?

# Division of roles & responsibilities

## Federal: PMRA

- Regulate importation, sale, distribution, fabrication and use
- Registration and re-evaluation of pest control products
- Scientific evaluation of impacts on health and environment
- Value assessment
- Compliance and enforcement

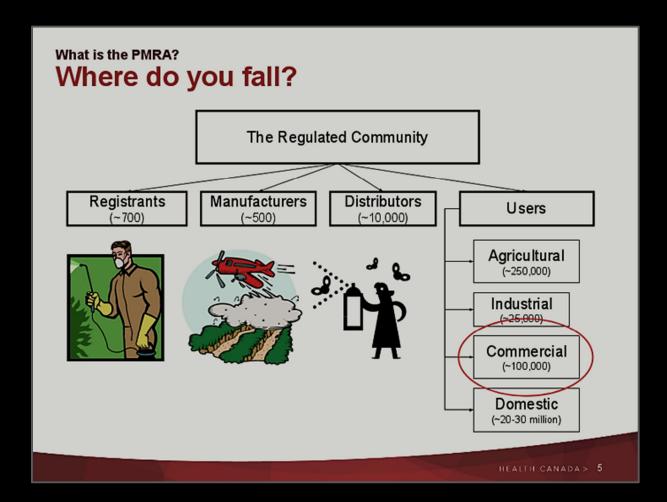


## Provincial: MoE

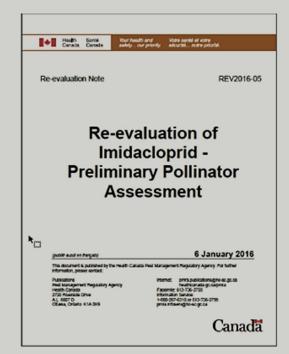
- · Compliance and enforcement
- Transport, sale, use, storage and disposal
- Training, certification and licensing of applicators and vendors
- Spills and accidents

## Municipal

 Bylaws: municipalities may have the power to set further conditions on the use of pesticides



## Imidacloprid - Preliminary Pollinator Assessment



- January 2012, PMRA announced a re-eval of neonics including:
  - → Clothianidin
  - → Thiamethoxam
  - → Imidacloprid
- Collaboration between the PMRA, the US EPA and the California Department of Pesticide Regulation
- Published Jan. 6, 2016
- · Contact me for a copy

# **Imidacloprid**

- Trade names you may recognize
  - → Merit (turf)
  - → Admire (fruit trees)
  - → Alias (fruit trees)
- Broad spectrum systemic insecticide (moves upward in the plant)
- Neonicotinoid, group 4
- · Concerns over toxicity to bees





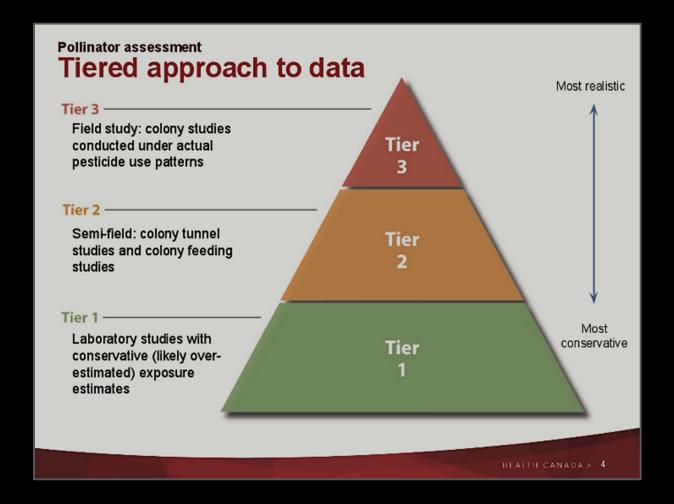
## What was considered in the prelim assessment?

- · Considers all relevant agricultural and outdoor uses including:
  - → Foliar applications
  - → Soil applications
  - → Seed treatments
  - -> Greenhouse
  - → Tree Injection
- Data considered include both registrant submissions and open scientific literature. (Additional data: Dec. 2016)









## Considerations

- · When is the crop harvested?
- Does the crop produce pollen/nectar?
- · Are the crops attractive to bees?
  - · If not, there is minimal risk
- · If attractive, when does the application occur?
  - · Pre-bloom
  - · During-bloom
  - · After bloom





## Overall Conclusions - FOLIAR APPLICATIONS

- Data suggests minimal risk to bees when considering crops that:
  - → Are harvested prior to bloom
  - → Do not have pollen or nectar sources
  - → Are unattractive to bees
- For foliar applications to turf, label mitigation (watering-in requirement) adequately minimizes risk
- Applications during-bloom to bee-attractive crops are expected to pose a risk to bees, however label restrictions prohibiting or reducing applications to bee-attractive crops adequately minimize risk
- Pre-bloom application may pose a risk there is some uncertainty (cotton/citrus data)
- Data suggests minimal colony-level risk for post-bloom applications to tree fruit when applied early
- Data suggests minimal risk to bees when applied to post-bloom to seasonal crops

#### Overall Conclusions - SOIL APPLICATIONS

 Label requirements (watering-in) adequately minimizes risk to bees associated with use on turf soil application

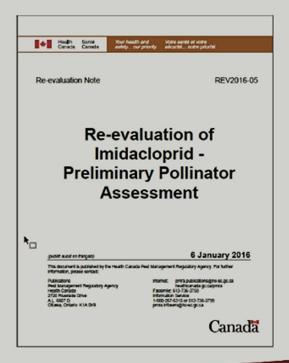
#### Overall Conclusions - SEED TREATMENTS

- · Potential risk to bees is not indicated
- Dust concerns have been addressed by new lubricants and label restrictions required as of 2014

## Overall Conclusions - NON-Apis BEES

- Information available for bumble bees, mason bees, leafcutting bees and stingless bees
- Available information suggests effects are similar to honey bees
- Typically no notable effect for Canadian relevant use patterns

# Imidacloprid - Preliminary Pollinator Assessment





# **Common issue – Communication**

- 1. No notification or information given after application
- 2. Information given to property owner but not tenant
- 3. Incorrect or no information given regarding PHI
- 4. Confusion around varieties with varying ripening times



# Leave information about:

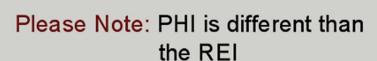
- What was sprayed
- For which pest
- When it is safe to harvest (PHI)





## Leave information about:

- What was sprayed
- For which pest
- When it is safe to harvest (PHI)



The PHI is the amount of time that must pass between the pesticide application and harvest of the fruit.



# Where do I find the PHI?

On the label.



HEALTH CANADA >

PHI = Pre-Harvest Interval

# Where do I find the PHI?

- 1. Correct crop
- 2. Preharvest interval

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#### Insect Pests Controlled with Delegate Insecticide

Pome Fruit (apple, crabapple, pear, Oriental pear, quince)

Maximum of three applications per year with a minimum treatment interval of 7 days and a preharvest interval of 7 days.

Target Pest	Application Rate Grams of Product Per Hectare	Application Timing	
Codling Moth Oriental Fruit Moth	420	For the control of each generation, apply at first egg hatch based on pheromone trap catches and degree days after biofix dates. These pests must be controlled before the larvae penetrate the fruit so early timing is critical. Repeat at 14 day intervals to maintain control depending on pest pressure.	
Obliquebanded & Threelined (Pandemis) leafrollers	210-420	For the control of the over wintering (spring) generation, apply when larvae have emerged and are actively feeding but before they roll up in the leaves. Under high insect pressure, an application timed to target the overwintering	



# Here's a great example:

"We have just applied	to your cherry trees.	It is used to
control	Oo not harvest or eat your cherrie	s for
days. Your tre	es will be sprayed again in	
days. If your cherries are ripe	at the time of the next spray and	you do not
want this next spray, call the o	ffice and cancel the spray or mai	rk the trees
in your yard that you do not wa	int sprayed."	

# Managing PHIs and harvest dates for different cherry varieties

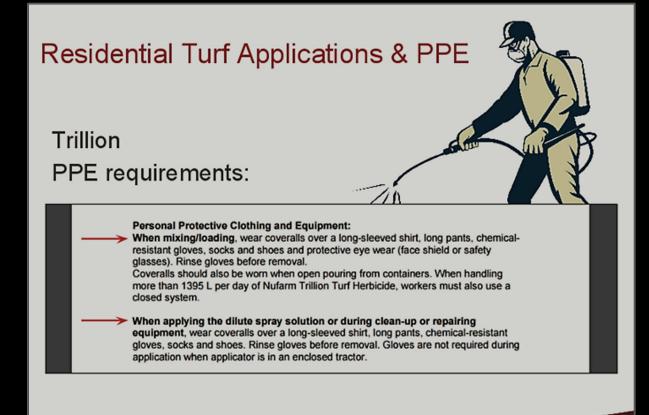
- · Different varieties will ripen at different times
- Find out when clients expect to harvest
- Plan treatment to accommodate both the harvest date and the pre-harvest interval
- Communicate the correct PHI

# **Backyard Fruit Trees – Label expansions**

- · Delegate label expansion includes:
  - · cherry fruit fly (cherries)
  - · spotted wing drosophila (peach & nectarine)
- Purespray Green Spray Oil 13E includes:
  - · rosy apply aphid (apple)
- · Actara 25WG, Clutch 50 WDG, Malathion 85E
  - · labels expanded to include brown marmorated stink bug
  - · not currently in the region

# **Backyard Fruit Trees – New registrations**

- Sivanto Prime Insecticide (PCP# 31452)
  - · flupyradifurone
  - leafhoppers, aphids (not WAA), scale, pear psylla (pome)
  - · aphids in nut trees
  - · mixing with oil could cause injury to certain pears
- XenTari WG Biological Insecticide (PCP# 31557)
  - · Bacillus thuringiensis
  - · against obliquebanded and fruittree leafrollers on pome fruits
  - · some leps in ornamentals





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