

Grower Survey on NEONICOTINOID Use in Tree Fruit

Introduction

Imidacloprid (e.g. trade names include Admire 240) is registered for insect control in a wide range of horticultural crops including pome and, stone fruit, berries and small fruit, and leafy, tuberous and legume vegetables.

Health Canada's Pest Management Regulatory Agency (PMRA) published the Proposed Re-evaluation Decision for imidacloprid, PRVD2016-20 on November 23, 2016.

The environmental assessment showed that, in aquatic environments in Canada, imidacloprid is being measured at levels that are harmful to aquatic insects (aquatic invertebrates).

The health assessment did not identify human health concerns from any exposure route when used according to current label standards.

FOR THE PROTECTION OF THE ENVIRONMENT, PMRA IS PROPOSING TO PHASE-OUT ALL AGRICULTURAL USES OF IMIDACLOPRID OVER THREE TO FIVE YEARS. PMRA will consider alternate risk management proposals, provided that they can achieve acceptable levels in the environment in the same timeframe with a deadline for response of February 21, 2017.

In addition, the PMRA has announced the initiation of Specials Reviews (REV2016-17) of two additional neonicotinoid insecticides clothianidin (e.g. trade names Titan, Poncho, Prosper, Emesto Quantum) and thiamethoxam (e.g. trade names Actara, Minecto Dual, Helix, Cruiser) also due to potential risk to aquatic invertebrates.

For the CHC to respond effectively to the PMRA consultation on imidacloprid and gather information on the other two neonicotinoids, grower input on how these products are actually used is essential, and your feedback in the attached grower survey is critical.

This survey will take at least 10-15 minutes to complete.



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General Operation Questions

*** 1. This survey is being completed by:**

Respondent Type (Grower/Association/PMUC/Other) (required):

Province (required):

*** 2. What tree fruit crops do you grow? Please indicate your answer in either acres or hectares. (enter "NA" if not applicable).**

Apple

Pear

Peach

Nectarine

Apricot

Cherry (sweet)

Cherry (sour)

Plum



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IMIDACLOPRID QUESTIONS

(Trade Name: ADMIRE 240)

*** 3. What percentage of your tree fruit crop is treated with imidacloprid insecticide at least once per season as a foliar spray? (enter "NA" if not applicable).**

Apple	<input type="text"/>
Pear	<input type="text"/>
Peach	<input type="text"/>
Nectarine	<input type="text"/>
Apricot	<input type="text"/>
Cherry (sweet)	<input type="text"/>
Cheery (sour)	<input type="text"/>
Plum	<input type="text"/>

4. IF YOU DO NOT USE IMIDACLOPRID ON YOUR FARM GO TO CLOTHIANIDIN SECTION OF SURVEY



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IMIDACLOPRID QUESTIONS

(Trade Name: ADMIRE 240)

5. What are the key tree fruit pests controlled by imidacloprid on your farm?

6. Do you use other insecticides for control of these key pests?

Yes or No?

If yes, please list the other insecticides.

7. How effective are the alternative products in controlling the key insects? Please explain.

*** 8. How important is imidacloprid to insect management in tree fruit on your farm?**

- 1 = Not important
- 2 = Slightly important
- 3 = Important
- 4 = Moderately important
- 5 = Extremely important

Comments:

9. What is the typical rate of application used for imidacloprid applied on tree fruit as a foliar spray? (enter "NA" if not applicable).

Apple (rate: mL/ha)

Pear (rate: mL/ha)

Peach (rate: mL/ha)

Nectarine (rate: mL/ha)

Apricot (rate: mL/ha)

Cherry (sweet) (rate: mL/ha)

Cheery (sour) (rate: mL/ha)

Plum (rate: mL/ha)

10. What is the typical frequency of foliar applications of imidacloprid that you would apply in tree fruit?

- Once per season
- Twice per season
- Depends upon scouting and monitoring
- Other (please specify)



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CLOTHIANIDIN QUESTIONS

(Trade Name: CLUTCH 50WDG)

*** 11. What percentage of your tree fruit crop is treated with clothianidin insecticide at least once per season as a foliar spray? (enter "NA" if not applicable).**

Apple	<input type="text"/>
Pear	<input type="text"/>
Peach	<input type="text"/>
Nectarine	<input type="text"/>
Apricot	<input type="text"/>
Cherry (sweet)	<input type="text"/>
Cheery (sour)	<input type="text"/>
Plum	<input type="text"/>

12. IF YOU DO NOT USE CLOTHIANIDIN ON YOUR FARM GO TO THIAMETHOXAM SECTION OF SURVEY



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CLOTHIANIDIN QUESTIONS

(Trade Names: CLUTCH 50WDG)

13. What are the key tree fruit pests controlled by clothianidin on your farm?

14. Do you use other insecticides for control of these key pests?

Yes or No?

If yes, please list the other insecticides.

15. How effective are the alternative products in controlling the key insects?

*** 16. How important is clothianidin to insect management in tree fruit on your farm?**

- 1 = Not important
- 2 = Slightly important
- 3 = Important
- 4 = Moderately important
- 5 = Extremely important

Comments:

17. What is the typical rate of application used for clothianidin applied on tree fruit as a foliar spray? (enter "NA" if not applicable).

Apple (rate: g/ha)

Pear (rate: g/ha)

Peach (rate: g/ha)

Nectarine (rate: g/ha)

Apricot (rate: g/ha)

Cherry (sweet) (rate: g/ha)

Cheery (sour) (rate: g/ha)

Plum (rate: g/ha)

18. What is the typical frequency of foliar applications of clothianidin that you would apply in tree fruit?

- One
- Two
- Depends based on monitoring and scouting
- Other (please specify)



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THIAMETHOXAM QUESTIONS

(Trade Name: ACTARA 25WG)

*** 19. What percentage of tree fruit on your farm is treated with thiamethoxam insecticide (ACTARA 25WG) at least once per season by foliar spray application? (enter "NA" if not applicable).**

Apple

Pear

Cherry (sweet)

Cherry (sour)

20. IF YOU DO NOT USE THIAMETHOXAM ON TREE FRUIT ON YOUR FARM END SURVEY



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THIAMETHOXAM QUESTIONS

(Trade Name: ACTARA 25WG)

21. What are the key tree fruit pests controlled by a thiamethoxam on your farm?

22. Do you use other insecticides for control of these key pests?

Yes or No?

If yes, please list the other insecticides.

23. How effective are the alternative products in controlling the key insects?

*** 24. How important is thiamethoxam to insect management in tree fruit on your farm?**

- 1 = Not important
- 2 = Slightly important
- 3 = Important
- 4 = Moderately important
- 5 = Extremely important

Comments:

25. What typical rate of application of thiamethoxam do you use for foliar spray application? (enter "NA" if not applicable).

Apple (rate: g/ha)

Pear (rate: g/ha)

Cherry (sweet) (rate: g/ha)

Cheery (sour) (rate: g/ha)

26. How many foliar applications of thiamethoxam would you typically apply on tree fruit?

- One
- Two
- Depends based on monitoring and scouting

Comments:



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Risk Mitigation

27. Do you use pest monitoring prior to applying one of the above insecticides by foliar application?

Yes

No

28. Do you have permanent vegetative buffer strips for fields adjacent to natural water bodies such as creeks, streams, rivers, ponds, lakes, marine sites?

Yes

No

29. Indicate ideas for mitigating the risk to aquatic invertebrates when neonicotinoids are applied in tree fruit.

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Thank you for your participation.

By providing your accurate responses, it will ensure that the PMRA has accurate information that reflects how NEONICOTINOIDS are actually used in modern horticultural practice. Grower input is essential for the CHC to respond effectively to the PMRA consultation on NEONICOTINOID use.

Thank you for taking time to provide your input.