

# MANAGE RESISTANCE*Now*

**Welcome to the  
Manage Resistance Now  
quarterly newsletter!**



This quarterly newsletter is designed to keep you updated on the latest information regarding resistance management. In this edition, we are highlighting the importance of preparing for resistance management before going into the field, showcasing a new infographic from Canadian Corn Pest Coalition on European Corn Borer, along with latest news, and promotional materials.

We appreciate your support in sharing information to raise awareness of pest resistance and promoting the valuable resources available on the [Manage Resistance Now website](#). We also welcome your suggestions for additional resources that would be helpful for you, your stakeholders, and, of course, Canadian growers.

## **What's your plan for 2025?**

It's the time of year when most plans for the upcoming season are waiting to take action – equipment has been tuned up, seed is ready for planting and thermoses are ready to be filled to help with those early mornings.

But what about making a plan for managing pests? Maybe you've already incorporated pest management into an integrated crop plan, and if you don't have one yet, there's never been a better time to start.

### **Review last year's results**

If you had a pest management plan last year, take the time to review it and the outcomes of the previous growing season. Was the plan effective? Did you notice any pests, including weeds, insects or diseases that were particularly hard to manage? Was the pest pressure consistent, or were there concentrated areas? How did the pests impact crop yield and quality?

Answers to these questions could help determine if you are facing resistance issues, and whether they are developing or well-established.

### **Ruling out pest resistance**

If a known pest did survive a pesticide application, there could be plenty of reasons (not just resistance), including application error, environmental conditions, equipment failure or incorrect identification. Review last year's management plan,

scouting results and any in-season notes to be prepared for this season.

## Make a plan

Be sure to build a robust plan that includes managing any potential pest resistance. Use last year's plan as a reference to help make informed decisions, consult a trusted advisor or do some research to determine your best approach.

Looking for more [information about pest management](#)? These online factsheets are full of valuable information:

- [How to Manage Herbicide Resistance in your Fields](#)
- [Managing Insecticide Resistance](#)

Credit: This information is from the Ontario Pesticide Education Program's Grower Pesticide Safety Course manual, Chapter 6 - Managing Pesticide Resistance. Copyright 2024, University of Guelph Ridgetown Campus. All rights reserved.



## Check labels for resistance information

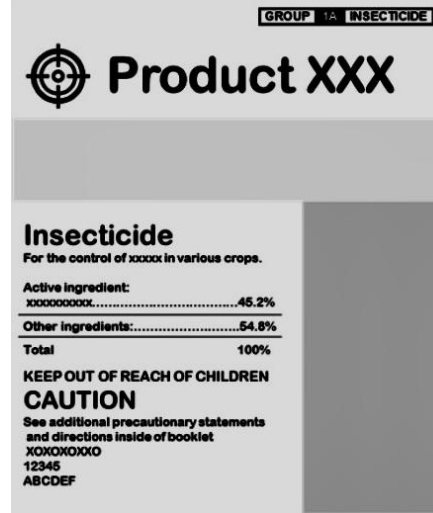
Don't forget that information about pest resistance is right at your fingertips, even when you're in the field. Product use labels include resistance-management statements. More information and examples below:

- Mode of action – the term that describes the way a pesticide works to control the pest
- Chemical Group – the categorization of pesticides based on their mode of action

GROUP 5	HERBICIDE
GROUP 1A	INSECTICIDE
GROUP 7	FUNGICIDE
GROUP N-3	NEMATICIDE

Resistance management recommendations are found under the "Use Directions" on Canadian pesticide labels. The purpose of these statements is to help growers focus on the prevention and mitigation of pest resistance. Growers and product applicators should follow label directions carefully to prevent and manage resistance.

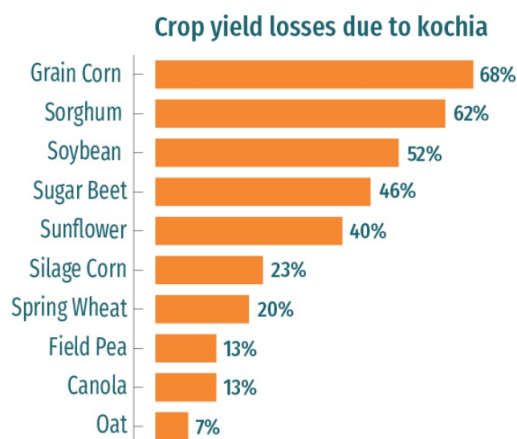
Questions or concerns about resistance management or product labels? Consult your agronomist or a trusted crop advisor.



Credit: These graphics are from CropLife International Mode of Action Labelling Guidance, page 2.  
<https://croplife.org/wp-content/uploads/2018/02/MoA-Labelling-Guidance-2020.pdf>

## Resource spotlight

Concerned about kochia? The [Managing Herbicide-Resistant Kochia](#) factsheet includes valuable information about spraying early and pre-emergent herbicide applications (including best management practices for tank mixes) to help mitigate resistance development.



## Coming soon!

Watch [Manage Resistance Now](#) (and your inbox) for a new factsheet about managing herbicide-resistant waterhemp.

## Bt resistant European corn borer – Act Now infographic

The Canadian Corn Pest Coalition developed an to increase awareness and take action against Bt resistant European corn borer (ECB). The infographic is meant to help crop advisors and growers act on scouting, reporting and mitigating any ECB populations found on Bt corn. [Click](#)

## Bt Resistant European Corn Borer – Act Now



Locations with Bt resistant ECB populations in Canada

- European corn borer (ECB) is a destructive pest of corn and other high value crops.
- For decades, Bt corn has provided protection from ECB, reducing insecticide use, yield loss and quality issues.
- ECB populations resistant to Bt are spreading in Canada.
- If this continues, Bt corn will no longer work, and we'll be back to relying on insecticides for ECB management.

### SCOUT REPORT MITIGATE

#### SCOUT



Look for signs of ECB damage in Bt corn fields in late summer.



Photo Credits: Dr. J. Smith, UGRC

#### REPORT



Contact your seed agronomist and provincial specialist, if you find any signs of unexpected ECB damage in Bt corn fields.

#### MITIGATE



- Shred corn stubble during or shortly after harvest to kill overwintering ECB populations and reduce risk of spread.
- In areas with low ECB pressure, consult an extension specialist or advisor about planting non-Bt corn to reduce ECB exposure to Bt toxins.



For more on ECB scouting, thresholds and insect resistance management and provincial specialist contacts, go to [cornpest.ca](http://cornpest.ca) or use this QR code.



[here](#) to view in English and French.

If you have any questions, please reach out to the Canadian Corn Pest Coalition on their [website](#).

## Recommended reading

- [Planting Soybean Green Proves Effective for Waterhemp and Palmer Amaranth Suppression](#)
- [The Agronomists, Ep 185: Outsmarting weeds through herbicide layering with Rachel Evans and Dr. Joe Ikley](#)
- [The evolving fight against volunteer canola](#)
- [Herbicide researchers pick new fights](#)
- [Tackling herbicide resistance with smarter spraying](#)
- [Overplanting Bt Corn Fuels Pest Resistance and Costs U.S. Farmers \\$1.6 Billion, Study Says](#)

## Media kit

Download engaging content and shareable resources [here](#)!

If you would like to request hard copies or French resources, please [contact us](#).



## Events

### [Manage Resistance Now](#)

sponsored two events this month to bring more awareness to the initiative and meet with partners and growers. Brittany Lacasse hosted a booth at the Southwest Agricultural Conference at University of Guelph Ridgetown campus to discuss resistance challenges with growers and provide resources.

Luis Luque attended the Western Canadian Crop Production Show in Saskatoon, where he hosted a booth and gave a presentation on Manage Resistance Now. He emphasized the importance of collaboration for resistance education and awareness.

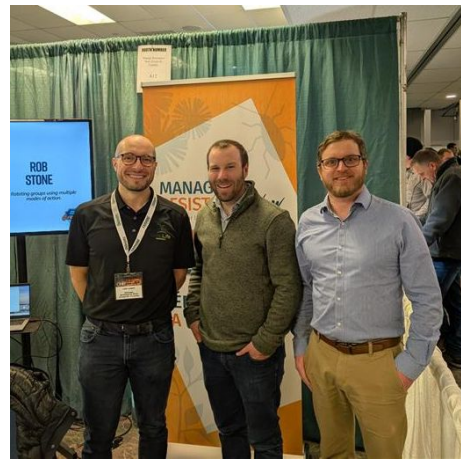
These trade shows provided valuable opportunities to connect with partners, engage with growers, and raise awareness of Manage Resistance Now. The events also gave us feedback on how to best amplify the message within the grower community, guiding future efforts in promoting resistance management.

## Follow us!

Join the conversation. Find MRN on [Twitter/X @protectyourland](#).



Do you have content ideas, upcoming events or other resources to share? Contact the [Manage Resistance Now Team](#) with feedback and questions.



L to R: Luis Luque, Manager, Plant Biotechnology at CropLife Canada; Greg Bartley, Director, Crop Protection & Crop Quality, and Denis Trémorin, Director, Sustainability at Pulse Canada



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