

# Battling Herbicide Resistance

29%  
of cropped  
land

24.5  
million  
acres

estimated cropped land on the prairies infested with herbicide-resistant weeds

## TOP HERBICIDE-RESISTANT WEEDS

Wild Oat

Green Foxtail

Broadleaf

Integrated pest management (IPM) is key to battling herbicide-resistant weeds

**BARRIER:**  
Cost & Time

**BENEFIT:**  
Decreased  
input cost

Ready to Get Started?

## Priority IPM Approaches for Managing Resistance

IPM is a decision-making process that utilizes all available pest management strategies

### Reduce Use of Herbicides and Pesticides

- Optimize seeding or harvesting dates
- Selecting competitive crops, varieties and seed treatments
- Conserve natural enemies

### Effective Crop Scouting

- Capture accurate pest and crop development data
- Monitor for pests and identify lifecycle accurately to determine what actions to take and when

### Herbicide Rotation

- Rotating herbicide & pesticide groups
- Crop rotations
- Keeping accurate records

## CROP SCOUTING BEST PRACTICES

Leverage expertise and knowledge to monitor and identify pests accurately

Capture complete and accurate scouting data that is GPS referenced

Make informed decisions on the most effective control methods

Keep detailed records of recommendations and resolutions to guide future IPM decisions

## CROPTIVITY SCOUTING SOLUTION

Croptivity enables precise field observations and product recommendations to be captured and shared with the farm's team

Capture GPS field observations in app, and add comments and photos

## How Croptivity Works



Access Scouting History



Track as applied data



Review tasks and build product recommendations

learn more at [croptivity.com](http://croptivity.com)



### REFERENCES

**Herbicide-Resistant Weeds in the Canadian Prairies: 2007 to 2011**  
Hugh J. Beckie, Chris Lozinski, Scott Shirriff, and Clark. A. Brenzil  
<http://www.bioone.org/doi/pdf/10.1614/WT-D-12-00095.1>

**Herbicide Resistance Update**  
Hugh J. Beckie  
[http://www.agric.gov.ab.ca/crops/agronomyupdate/d1\\_15\\_herbicide\\_resistance\\_beckie.pdf](http://www.agric.gov.ab.ca/crops/agronomyupdate/d1_15_herbicide_resistance_beckie.pdf)  
Crop Scouting Manual 2013  
University of Wisconsin  
<http://ipcm.wisc.edu/download/pubsPM/UW-IPM-ScoutingManual-web.pdf>

**Accelerating the adoption of integrated pest management and risk management strategies in wheat and other cereals**  
Agriculture and Agri-Food Canada  
<http://www.agr.gc.ca/eng/?id=1299179336522>

**Integrated Pest Management**  
New South Wales EPA  
<http://www.epa.nsw.gov.au/pesticides/integratedpestmgmt.htm#1>  
Ag Retailers Play a Critical Role in Best Management Practices For Herbicides  
Stratus Research <http://stratusresearch.com/blog/ag-retailers-play-a-critical-role-in-best-management-practices-for-herbicide/>