



Canadian Weed Science Society
Soci t  canadienne de malherbologie



October 2022 Newsletter: News You Can Use

2022 CWSS-SCM Annual General Meeting



Registration is now open for the 2022 CWSS-SCM Annual General Meeting to be held jointly with the Canadian Society of Agronomy/ Soci t  Canadienne d'Agronomie. Join us November 14th to 18th in Halifax, Nova Scotia !
The theme of this year's meeting is "Precision Weed Management – From Promise to (Almost) Reality"

The conference organizers have developed an exciting program including graduate student presentations, concurrent oral and poster presentation sessions on weed management and agronomy, a workshop on statistical analyses and two symposia, one on precision agriculture and another on biomass crops. Pre-conference tours are in the works that will showcase the rich natural biodiversity and history of the region as well as the diverse agricultural systems of Nova Scotia.

Reminders:

- Photo contest submissions due by **Oct 28th**.
- Commercial display submission due by **Oct 28th**, please send to Kristina Polziehn at cwss.scm.assistant@gmail.com
- Last day to reserve hotel rooms in the Room Block for conference rates is **Oct 31st**.

For more information and details for how to register visit: <https://event.fourwaves.com/2022-joint-meeting-cwss-csa/pages>

New Guidelines for Reporting Community-Engaged Research in

Canadian Science Publishing, publisher of the Canadian Journal of Plant Science, is excited to share guidelines to help researchers report community-engaged research in manuscripts. Researchers can use these guidelines to help demonstrate how the community was involved throughout the research process and how the study benefits the community. View the [new guidelines](#).

CWSS Announces Retirement of Maryse Leblanc

After 37 years dedicated to weed science, Dr. Maryse Leblanc, a weed scientist for the and Development Institute for the Agri-Environment (IRDA) in Saint Bruno de Montarville, QC is setting her sights on a well deserved retirement. Read the full announcement [here](#)



Discovery of First Glyphosate Resistant Grass Weed in Canada



Downy brome (*Bromus tectorum* L.), also known as cheatgrass, is a winter-annual, summer-annual, or biennial grass weed that was introduced to North America from Europe in the mid-1800s.

In 2021, an agronomist noted severe lack of control of a population of downy brome in a glyphosate-resistant canola field in Taber County, Alberta, following four applications of glyphosate alone. Seed was collected from the downy brome population and sent for resistance testing. The testing involved repeated glyphosate single-dose (900 g a.e. ha⁻¹) and dose-response (0, 56, 112, 225, 450, 900, 1800, 3600, 7200, and 14400 g a.e. ha⁻¹) whole-plant bioassays. The field rate of glyphosate (900 g a.e. ha⁻¹) did not cause plant mortality or visible control of the downy brome population 21 days after treatment (DAT). The downy brome population tested exhibited a 7 to 12 fold resistance to glyphosate based on plant survival, visible control, and biomass fresh weight 21 DAT, compared with two susceptible populations, confirming glyphosate resistance. Further testing revealed that the glyphosate-resistant downy brome population was not cross-resistant to other post-emergence herbicides.

Applications of quizalofop alone or in combination with imazamox, imazamox + bentazon, or imazamox/imazethapyr, and glufosinate mixed with either clethodim or tiafenacil resulted in ≥80% control of the glyphosate-resistant downy brome population.

This represents the first glyphosate-resistant grass weed documented in Canada. Further research will focus on determining the mechanism of glyphosate resistance in the downy brome population, and understanding the full scope of this problem in southern Alberta.

If you suspect glyphosate-resistant downy brome in your fields, contact Dr. Charles Geddes directly at charles.geddes@canada.ca.

Invasive Plant Facts: Japanese Stiltgrass (*Microstegium vimineum*)





Photo from: <https://go.botany/nativeplanttrust.org/>

Article by Erin LeClair, Invasive Alien Species & Domestic Programs Section with the CFIA

Click [here](#) to read the full article.

Please contact your local Canadian Food Inspection Agency (CFIA) office by telephone or contact us online if you suspect you have found this invasive plant.

CJPS Featured Article

New tools for mechanical weed control in low-input dry bean (*Phaseolus vulgaris*) production

by K.A. Stanley and M.H. Entz

Read the full article here: <https://cdnsiencepub.com/doi/full/10.1139/cjps-2021-0282>

Free Journal Access

You read that right, FREE ! CWSS members now get free access to the Canadian Journal of Plant Science (CJPS) ! One of the many perks of becoming and remaining member. Go to the [CJPS website](#) to search for and read the latest weed science, and other plant related research.

CWSS Graduate Student Defence Announcements

Congratulations to the graduate students who have recently defended !

Brianna Zoerb, University of Saskatchewan

Kathryn Aldridge, University of Saskatchewan

Olivia Noorenberghe, University of Guelph

Andrew Laplante, University of Guelph

Do you advise a graduate student who has recently defended or is about to defend? Let us know !

Share the success and accomplishment of a successful defense with the CWSS-SCM ! Email Tasha Valente, CWSS Communications Director, at attasha_061@outlook.com with a brief announcement including the name of the student, the school/faculty, and when their defense is/was.

Where Are They Now: Graduate Student Updates

Now that they have successfully defended and completed their graduate studies, what are CWSS graduate students up to now?

Grad students, if you would like to share a career update, email Tasha at tasha_061@outlook.com to be featured in future newsletters !

Join the CWSS-SCM !

If you have not paid your membership dues for 2022, please contact Kristina Polziehn, CWSS-SCM Executive Assistant, at cwss.scm.assistant@gmail.com. We can accept cheque or put through the membership dues via credit card over the phone. Please note that if you attended the February 2022 WSSA/CWSS virtual meeting, your membership fees for 2022 were included in the meeting fees.

Share Your News and Events

Know of an upcoming conference, meeting, or event ? Let us know !

Share information about upcoming events you think CWSS-SCM members would be interested in learning about !

Email Tasha Valente at tasha_061@outlook.com to have your news or event featured in our upcoming newsletters or monthly email blasts.

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