Spring/Summer 2023

OCGA Elects New Chairperson for 2023-24

Earlier this year the OCGA elected Will Runnals as President for 2023-24. Will farms in the New Liskard area in District 1. Jeff Curry was elected as Vice President from District 2 and Jennifer Doelman, from District 3 will take on the role of Treasurer. Jennifer will also take on the role of representing Ontario at the Canadian Canola Growers Association (CCGA). The CCGA represents over 43,000 canola farmers in Canada whom grow on nearly 21 million acres. CCGA is headquartered in Winnipeg with an office in Ottawa as well.

OCGA continues to work with Ryan Koeslag as Executive Director with their office located in Harriston, Ontario. OCGA has launched new social media platforms as well as two competitions for farmers to participate. A photo competition was launch in May with details located on the OCGA website and social media platforms in addition to the continuation of the Canola Challenge which has details on the back of this Newsletter. OCGA focused the majority of its funds on canola disease and pest management research on behalf of the over 300 canola farmers in Ontario

OCGA Launches New Social Media Pages

Earlier this spring OCGA launched two new social media platforms to help keep canola farmers more informed. Please be sure to add OCGA on Facebook and/or Twitter next time you login. These platforms will help you stay informed of important dates, notices, competitions, and research information.

Ontario Canola Growers
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Office Contact info:

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519-510-2257 or info@ontariocanolagrowers.ca

Canada Post Publications Agreement #40013291

Planting Date Trial—Winter Canola

Ontario Crops Research Centre – Winchester, University of Guelph Researchers:
Dr. Josh Nasielski, Meghan Moran Technicians: Ian DeSchiffart, Holly Byker

Dr. Josh Nasielski

Winter canola varieties Mercedes, Inspiration, and Plurax were planted in the falls of 2020, 2021, and 2022, at a rate of 6 lbs/ac. Targeted planting dates for winter canola were: August 25th, September 1st , and September 8 th . In 2020, winter canola was planted September 1st (due to rain in previous week), September 15th, and September 24th. There was poor establishment due to rain events followed by hot temperatures, resulting in difficulties with even depth placement of seed and delayed planting dates. Data was discarded, and the trial was planned to be replanted in 2021 and 2022. In 2021, winter canola was planted August 23, September 1, and September 13, 2021. 34 kg/ha of MAP (11-52-0) was placed with seed, and 380 kg/ha of 30-90-11 was broadcast across the full trial. In the spring of 2022, the 3rd planting date had not survived. On April 29th, 2022, the winter canola was sprayed with Select for grass control. 240 lbs/ac (270 kg/ha) of urea (46-0-0) was applied, in addition to 65 lbs/ac (73 kg/ha) of ammonium sulfate.

General observations from 2020 and 2021 plantings:

Planting in mid to late August provides the best change for survival. Getting past the first week of September drastically reduces the survival success of winter canola in the Winchester area.

2021/2022 Winter Canola Yield Data (mean ± standard deviation). Planted 2021, harvested in 2022. Yield (kg/ha).

	Planted August 23rd	Planted September 1st	Planted September 13th
Mercedes	3349 ± 410	2998 ± 226	Did not survive
Inspiration	3209 ±346	2874 ± 266	Did not survive
Plurax	2852 ± 133	2869 ± 155	Did not survive

In 2022, winter canola (Mercedes, Inspiration and Plurax) was planted August 29th, September 6th, and September 12th, 2022. Stand counts were recorded prior to winter and winter survival and yield will be assessed in the 2023 research season.

Winter Canola Planting Date Trial, November 4, 2022 at OCRC - Winchester.

GROWTH ROOM STUDY OF THE INTERACTION OF BORON AND LIME ON THE SEVERITY OF CLUBROOT IN CANOLA

Submitted by Mary Ruth McDonald, Ph.D., P. Ag., Professor and Research Program Director,
Dept. of Plant Agriculture, University of Guelph

Dr. Mary Ruth McDonald

A study was conducted to examine the interaction between lime and boron for management of clubroot in a growth room set at set to 24°/21°C day night cycle, a 17-hour photoperiod and 50% humidity. Two runs of the study were conducted. The trials were conducted as a three-way factorial study in a replicated complete block design with four replicates and 10 plants per experimental unit. The factors were boron x lime x inoculation. The treatments were as follows: boron (B) applied at a rate of 0 or 4 kg B/ha as SOLUBOR in run 1 and 0 and 12 kg B/ha as SOLUBOR in run 2; HYDATED LIME applied to achieve the targets of pH 7.0 and pH 7.5 plus a control at pH 6.4 and inoculated with resting spores of P. brassicae pathotype 2 vs. non-inoculated control.

RESULTS: As seen in Table 1 and 2 and Figure 1 and 2

Table 1: Effect of boron (applied as SOLUBOR) and lime (applied as HYDRATED LIME) on clubroot incidence and severity (disease severity index, DSI) on canola inoculated with *P. brassicae* pathotype 2 in Run 1

Treatment	Incidence (%)	Severity (DSI; %)
Lime (pH target)		
pH 6.4 (control)	100 a[1]	97 a
pH 7.0	79 b	43 b
pH 7.5	14 c	5 c
Boron (kg B/ha)		
0 (control)	68 ns[2]	51 ns
4	60	46

[1] Means followed by the letter do not differ at P=0.05 based on Tukey's Test
[2]ns = not significant

Table 2: Effect of boron (applied as SOLUBOR) and lime (applied as HYDRATED LIME) on clubroot incidence and severity (disease severity index, DSI) on canola inoculated with *P. brassicae* pathotype 2 in Run 2

Treatment	Incidence (%)	Severity (DSI; %)
Lime (pH target)		
pH 6.4 (control)	100 a[1]	85 a
pH 7.0	41 b	18 b
pH 7.5	13 c	5 c
Boron (kg B/ha)		
0 (control)	54 ns[2]	38 ns
12	48	34

[1] Means followed by the letter do not differ at P=0.05 based on Tukey's Test
[2] ns = not significant

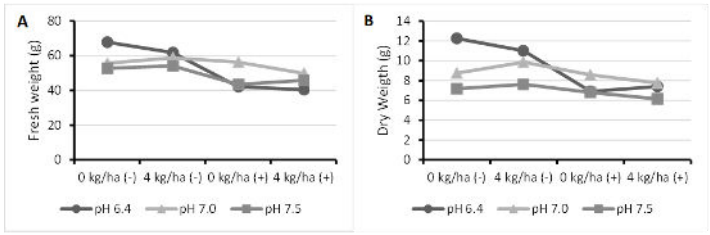

Figure 1. Effect of lime (applied as HYDRATED LIME), boron (applied as SOLUBOR at 0 and 4 kg B/ha) and inoculation with *Plasmodiophora brassicae* pathotype 2 (-/+) on fresh (A) and dry (B) weight of canola (10 plants per plot) in Run 1.

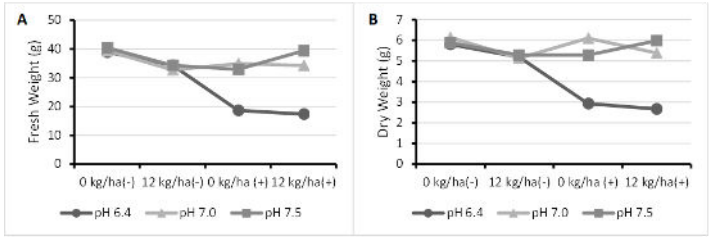

Figure 2. Effect of lime (applied as HYDRATED LIME), boron (applied as SOLUBOR at 0 and 12 kg B/ha) and inoculation with *Plasmodiophora brassicae* pathotype 2 (-/+) on fresh (A) and dry (B) weight of canola (10 plants per plot) in Run 2.

CONCLUSIONS: In both runs of the experiment there was no effect of boron and no interaction between lime and boron for clubroot incidence or severity. However, clubroot incidence and severity decreased as pH increased (Table 1 and 2). Inoculation reduced plant fresh and dry weight except in soil amended with lime (Figure 1 and 2). This growth room trial supports previous results that there is no interaction between boron and lime. Using lime to increase the soil pH is an effective management strategy to decrease clubroot severity. The use of boron for clubroot management requires further study.

For full details of this report visit OCGA's website at www.ontariocanolagrowers.ca/canola-research

The OCGA invites canola farmers to help grow our photo library through a fun contest!

Visit our website for full contest rules.

One winner will be selected for each of the following categories by random draw:

- Planting
- Scouting
- Field Work
- Harvest

Winners will receive a $50 restaurant gift card

Canola Challenge 2023 — Bring in the Winning Yield!

Visit OCGA's website at www.ontariocanolagrowers.ca for online forms and details

Spring & Winter Canola Challenge

1st place winner – $2,000 cash

2nd place winner – $1,000 cash

3rd place winner – $ 500 cash

How Do You Enter? What are the Rules?

1. Work with a supporting agronomist;
2. OCGA encourages all participants to submit an "Intent to Participate" by:
   - **Winter Canola– June 30, 2023**
   - **Spring Canola– August 31, 2023**
1. Minimum 10 acre canola plot.
2. Record yield from 1 acre of your field. Must be recorded by weigh wagon and verified by your supporting agronomist.
3. Submit your cropping and yield information on "Canola Challenge Results" by:
   - **Winter Canola– August 31, 2023**
   - **Spring Canola– October 14, 2023**

Thank You to our Canola Challenges Sponsors!

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