Effects of fungicide, seeding date and seedling age on clubroot severity, seedling emergence and yield of canola

DIRECTIONS:

- 1. Read the self-study exam carefully.
- 2. Answer the questions to this self-study exam by circling the best answer for each question.
- 3. Complete the self-study exam registration form.
- 4. Fold and place this self-study examination page in an envelope.
- 5. Enclose a payment for processing fees of \$14.95 for CAAR Members, and \$24.95 for non-members, plus GST or HST.
- 6. Mail your self-study exam and payment to: The CCA Self-Study Exam

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SELF-STUDY EXAM:

After reading the pre-approved self-study article, please answer this 10-question exam and return it to CAAR. An exam score of 70 per cent or higher will earn you one credit in Pest Management.

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1. Several clubroot management strategies are used in the production of cruciferous vegetables, including:

- A. Aerial application of fungicides
- B. Amendment with lime to increase soil pH
- C. Manual removal of clubroot galls
- D. Drench application of bleach

2. Why are the treatments for horticultural crops impractical for canola?

- A. Too costly
- B. Rates are too toxic for canola
- C. Rates would be ineffective on canola
- D. Products are only available in limited quantities

3. The field-to-field spread of clubroot is usually initiated from what source?

- A. Wind
- B. Insects
- C. The field entrance
- D. Rain

4. What clubroot susceptible canola cultivar was used in all of the fungicide seed treatment experiments?

- A. 34-65RR
- B. 65-34RR
- C. 45H29
- D. 45H28

5. What is the active ingredient(s) in Dynasty 100 FS?

- A. Flusulfamide
- B. Carbathiin+thiram
- C. difencazole+metalaxyl+fludioxonil
- D. Azoxystrobin

6. What does ID stand for in this experiment?

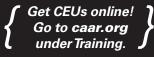
- A. Identity of disease
- B. Index of disease
- C. Incidence of dilution
- D. Index of dilution







CCA EXAMINER EXAM



- 7. In the seeding date trials, how did canola yield at both sites measure in the early-seeded plots compared to the other seeding dates?
 - A. Significantly higher
 - B. Significantly lower
 - C. Similar to mid season, lower than late season
 - D. No difference
- 8. How did the five fungicides tested in the seed treatment experiment impact clubroot disease severity (ID) relative to the untreated control?
 - A. Three of the five significantly decreased severity
 - B. Three of the five significantly increased severity
 - C. No significant impact
 - D. All five significantly decreased severity

- 9. What product was suggested as "the most logical tool for the control of seed-borne clubroot"?
 - A. Nebijin™ 5SC
 - B. Helix Xtra
 - C. Dynasty 100 FS
 - D. Sedaxane
- 10. The effect of 80-fold Nebijin dosages could be achieved by what other application dosage?
 - A. 1-fold
 - B. 20-fold
 - C. 40-fold
 - D. 80-fold

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