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DIRECTIONS

1. Read the self-study article on pages 4-6 carefully.
2. Answer the questions by clearly marking an "X" in the box next to the best answer for each question.
3. Complete the self-study exam registration form on the back of this page.
4. Clip out this self-study examination page, fold and place in envelope.

5. Enclose a check for \$10.00 made payable to the American Society of Agronomy, for processing fees. Payment in U.S. funds only.
6. **Mail your self-study exam and fee to:**
ASA c/o CCA Self-Study Exam, 677 S. Segoe Road, Madison, WI 53711. *Please allow 60 days for processing.*
7. An electronic version of this test is also available at www.cropdecisions.com. Go to the Certified Crop Advisers section (left hand column) and access the "CCA Advantage" link.

Corn Production as Affected by Tillage System and Starter Fertilizer April Self-Study Examination

1. Modified no-till systems are gaining interest in the northern Corn Belt because:

- a. there are numerous studies out on zone tillage for the region.
- b. there are numerous studies out on strip tillage for the region.
- c. there is an association with delayed planting and no-till.
- d. of the high corn yields using no-till.

2. Cone Index is a measurement of:

- a. soil density.
- b. soil reflectance.
- c. soil structure.
- d. soil moisture.

3. In continuous corn, residue coverage after planting was greatest for:

- a. CT>ST>ZT>NT.
- b. ST>ZT>NT>CT.
- c. ZT>ST>NT>CT.
- d. NT>ST>ZT>CT.

4. In corn following soybeans, fall and early spring coverage was greatest for:

- a. NT>CT>ST>ZT.
- b. NT>ZT>ST>CT.
- c. CT>NT>ZT>ST.
- d. CT>ZT>ST>NT.

5. Differences in soil moisture existed among tillage systems for continuous corn; generally:

- a. NT and CT had slightly greater soil moisture content than ZT and ST.
- b. NT and ZT had slightly greater soil moisture content than CT and ST.
- c. ZT and ST had slightly greater soil moisture content than NT and CT.
- d. CT and ST had slightly greater soil moisture content than NT and ZT.

6. Significant differences in soil moisture for corn following soybeans:

- a. were not as frequent as for continuous corn.
- b. were observed with NT and CT having greater soil moisture content than ZT and ST.
- c. were observed with ST and ZT having greater soil moisture content than CT and NT.
- d. were observed with NT and ZT having greater soil moisture content than CT and ST.

7. Compared to ZT and ST:

- a. CT in continuous corn production delayed corn emergence by 2.7 days.
- b. CT in continuous corn production did not hasten corn emergence from a practical standpoint.
- c. CT in continuous corn production hastened corn emergence by 2.7 days.
- d. CT in continuous corn production hastened corn emergence by 5 days.

8. Plant height increased as tillage intensity for continuous corn increased in order of:

- a. NT>ST>ZT>CT.
- b. ST>ZT>NT>CT.
- c. ZT>NT>CT>ST.
- d. CT>ZT>ST>NT.

9. Corn grain yields following soybeans varied among years and were significantly affected by:

- a. starter fertilizer but not by tillage system.
- b. tillage system but not by starter fertilizer.
- c. soil moisture but not by starter fertilizer.
- d. starter fertilizer but not by soil density.

10. For continuous corn, these modified NT systems:

- a. are not recommended for northern Corn Belt soils.
- b. would be recommended on well-drained, erosive soils as alternatives to NT and CT for erosion control and enhanced yield.
- c. would be recommended on well-drained, erosive soils as alternatives to NT and CT. However, yield is significantly reduced.
- d. do not need starter fertilizer to optimize corn production.



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Continuing Education Self-Study Test

Crop Management Self-Study Test (continued)



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I certify that I alone completed this self-study course and recognize that an ethics violation may revoke my CCA status.

This exam issued April 2003 expires April 2005.

SELF-STUDY EXAM EVALUATION FORM

Rating Scale: 1=Poor 5=Excellent

Information presented will be useful in my daily crop advising activities: 1 2 3 4 5

Information was organized and logical: 1 2 3 4 5

Graphics/tables were appropriate and enhanced my learning: 1 2 3 4 5

I was stimulated to think how to use and apply the information presented: 1 2 3 4 5

This article addressed the stated competency area and performance objective(s): 1 2 3 4 5

Briefly explain any "1" ratings: _____

Topics you would like to see addressed in future self-study materials: _____

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