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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.

Economics of Conservation Tillage in a Wheat-Fallow Rotation May/June Self-Study Examination

1. Land under summer fallow has:

- a. increased in the past 15 years.
- b. increased in the past 10 years.
- c. been on the decline the past 30 years.
- d. remained steady in the United States.

2. Winter wheat-fallow rotation remains the dominant cropping system in areas receiving:

- a. <150 mm annual precipitation.
- b. <200 mm annual precipitation.
- c. <275 mm annual precipitation.
- d. <350 mm annual precipitation.

3. Case studies of experienced no-till (NT) farmers in semi-arid regions revealed that production costs for spring sown crops were:

- a. lower than with conventional tillage.
- b. higher than with conventional tillage.
- c. high when considering compromised soil and air quality.
- d. the same as conventional tillage.

4. conventional tillage practices during fallow:

- a. leave plenty of soil roughness, thus reducing wind erosion.
- b. leave the soil susceptible to wind erosion by reducing residue and roughness.
- c. increase herbicide use.
- d. increase soil moisture.

5. A 1998 study predicted if conservation or no-tillage replaced conventional summer fallow, dust particulates near PM-10 or smaller in Spokane, WA, would be reduced by:

- a. 9 to 26%.
- b. 17 to 33%.
- c. 31 to 54%.
- d. 41 to 52%.

6. Reasons given by farmers for not practicing conservation tillage include:

- a. inadequate seed-zone water for winter wheat establishment.
- b. inadequate information.
- c. increased soil erosion.
- d. increased air quality problems.

7. Production costs were based on:

- a. actual operations conducted in the experiment.
- b. predicted operations for the experiment.
- c. average operation costs for farmers in the area.
- d. earlier experimental data.

8. In every year of the study, the yields for minimum tillage:

- a. were less than conventional tillage (CT).
- b. exceeded or equaled those for CT.
- c. were inconclusive.
- d. made a significant profit.

9. Based on market returns over total production costs:

- a. conventional tillage was the most profitable.
- b. minimum tillage was the most profitable.
- c. delayed-minimum tillage was the most profitable.
- d. the three systems were economically equivalent.

10. The reduced-tillage systems:

- a. increased the risk of government payment denial due to inadequate residue.
- b. promise potentially greater future productivity by controlling wind erosion.
- c. had statistically equivalent returns over variable costs.
- d. had higher risk.

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Crop Management Self-Study Test (continued)



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Signature of Registrant as it appears on Code of Ethics

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

This exam issued June 2003 expires June 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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