One Oft Forgotten Important Fall Chore – Sampling Fields for SCN

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Abstract
Crisp, clear fall days are perfect for splitting firewood, tilling the garden under and collecting soil samples to check fields for the soybean cyst nematode (SCN). Although soil sampling for SCN might not be on most people’s list of favorite autumn chores, fall is a great time to sample fields for this pest. Reasons to sample for SCN include to check for the presence of the nematode in fields and to monitor SCN numbers in fields known to be infested with the pest.

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One Off Forgotten Important Fall Chore – Sampling Fields for SCN

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Crisp, clear fall days are perfect for splitting firewood, tilling the garden under and collecting soil samples to check fields for the soybean cyst nematode (SCN).

Although soil sampling for SCN might not be on most people’s list of favorite autumn chores, fall is a great time to sample fields for this pest. Reasons to sample for SCN include to check for the presence of the nematode in fields and to monitor SCN numbers in fields known to be infested with the pest.

What fields to sample?
If sampling to determine if SCN is present, soil cores should be collected in fields of soybean stubble from directly underneath the harvested soybean rows.

Once SCN is known to be present in a field, it is a good idea to collect soil samples in the fall from harvested corn fields in which soybeans will be grown the following season in order to know the population densities of SCN in the field (Figure 1).

![Sampling field of harvested corn for SCN prior to soybean production next year.](image)

**Sampling guidelines**
- collect eight-inch-long, one-inch-diameter soil cores
- collect 15 to 20 soil cores per sampling area
- try to limit the area sampled to 20 acres or so, if possible
- collect separate multiple-core samples from different areas or management zones in large fields (Figure 2)
- if grid sampling, collect one or two soil cores from every grid cell and combine cores from the number of cells that represent approximately 20 acres
- do not collect samples if the soil is muddy or frozen
- send samples to a soil-testing laboratory that does SCN testing or to:
  Plant and Insect Diagnostic Clinic
  Iowa State University
  327 Bessey Hall
  Ames, IA 50011
Figure 2. Sampling pattern for collecting separate multiple-core soil samples from four different areas or management zones in a field.

If SCN is detected at low or moderate population densities in fields slated for soybean production in 2015, growing SCN-resistant soybean varieties is recommended. If SCN numbers are high, a second year of corn might be considered to decrease SCN population densities so that SCN-resistant soybean varieties can produce profitable yields when soybeans are again grown.

More information on SCN


Iowa State University’s management recommendations for SCN are available online in a downloadable format, Soybean Cyst Nematode (SCN) Management Recommendations, IPM 63.

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Crop: Soybean

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