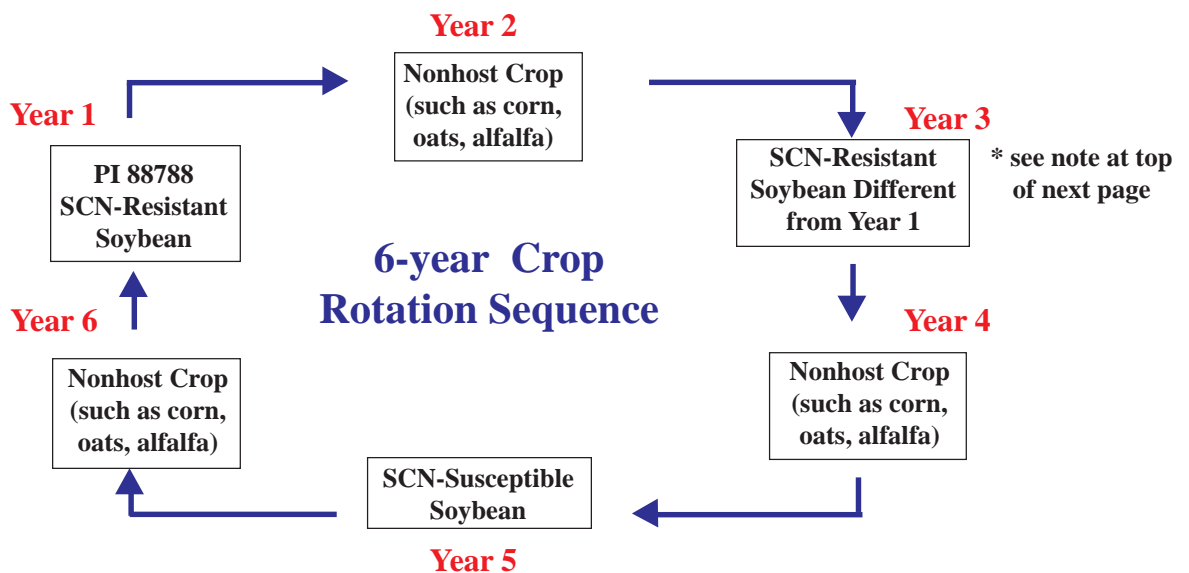


# Iowa State University Plant Disease Clinic

## Soybean Cyst Nematode (SCN) Management Recommendations

Infestation category	Sampling time		Management recommendation
	Following soybeans – fall or spring	Following corn – fall or spring	
No SCN eggs detected	0	0	No management strategies are necessary. However, <u>not finding SCN eggs in a soil sample does not prove that it is not present in the field.</u> Follow-up sampling is recommended to check for SCN infestations in future years.
Low*	1– 4,000	1–2,000	If this is first discovery of SCN, follow rotation described below starting with <b>Year 1</b> the next time soybeans are to be grown.  If Years 1– 4 of rotation described below already have been completed, continue with <b>Year 5</b> of the rotation.
Moderate*	4,001–16,000	2,001–12,000	Begin <b>Year 1</b> of rotation described below the next time soybeans are to be grown.
High*	>16,000	>12,000	Grow several years of a nonhost crop and sample field again every fall to monitor decrease in SCN population densities.

\* NOTE: Egg counts are reported as numbers of eggs per 100 cc (about 1/2 cup) of soil and are only estimations of actual SCN population densities.



**\*How much difference is enough?** Each SCN-resistant soybean variety can possess several genes that contribute to the resistance, but most of the varieties have resistance genes from one specific soybean breeding line, PI 88788. There are only a few soybean varieties available with SCN resistance from other soybean breeding lines such as Peking, PI 209332, Hartwig, or PI 437654. SCN resistance is not 100 percent effective and some SCN females may reproduce on the resistant varieties, so it is important to avoid promoting the build up of a SCN population that can readily reproduce on resistant varieties. If possible, grow SCN-resistant soybean varieties with different resistance sources in **Years 1 and 3** of the recommended rotation. If that is not possible, grow a variety with PI 88788 SCN resistance in **Year 3** that is different from the variety grown in **Year 1** of the recommended rotation.

Title	Description	Publication #
Soybean Cyst Nematode	Bulletin describing the biology and management of the SCN (with full-color photographs)	PM 879
Soybean Cyst Nematode-Resistant Soybean Varieties for Iowa	Annually updated list of public and private soybean varieties with resistance to SCN	PM 1649
Plant Nematode Sample Submission Form	Form for submitting SCN soil samples to the ISU Plant Disease Clinic (also contains sampling guidelines)	PD 32
Evaluation of Soybean Varieties Resistant to Soybean Cyst Nematode in Iowa	Annually updated report of the ISU SCN-resistant soybean variety trial results (actual performance data)	IPM 52
Interpreting SCN Soil Sample Results	Publication discussing the various important details to consider when interpreting results of soil tests for SCN	IPM 61
Scouting for SCN	Durable, 3.5" x7.5" card illustrating the proper ways to scout for SCN (from the SCN Coalition)	EDC 149
SCN Facts	Pamphlet illustrating important facts about the biology, symptoms, and management of SCN (from the SCN Coalition)	EDC 150
Grower's Workbook	Workbook illustrating the proper ways to scout for SCN and includes forms for keeping records of sample results (from the SCN Coalition)	EDC 151

- Single copies of the above publications are available free of charge by contacting the ISU Extension Distribution Center, 119 Printing and Publications Building, Iowa State University, Ames, IA 50011-3171, telephone: 515-294-5247, fax: 515-294-2945, e-mail: [pubdist@exnet.iastate.edu](mailto:pubdist@exnet.iastate.edu) or visiting your local ISU Extension county office.
- The publications listed above, except the last three, are available on the *ISU SCN Quick Facts* Web site at [www.soybeancyst.info](http://www.soybeancyst.info).
- For additional information and answers to questions about SCN, contact the ISU Department of Plant Pathology at (515) 294-1741.

**... and justice for all**

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Many materials can be made available in alternative formats for ADA clients. To file a complaint of discrimination, write USDA, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964.