

# Soybean Cyst Nematode Management: Take The Test. Beat The Pest



**DR. ALLEN WRATHER**

**PORTAGEVILLE, MO.**

**H**ere is the situation: Soybean cyst nematode (SCN) is the worst pest of soybeans in the U. S. A. including Missouri.

Fortunately, this pest can be managed, but farmers must take steps before planting to protect their 2011 soybean crop against these nematodes.

The first step is to test the soil for SCN, and this must be done in the next few days. This step must soon be finished so the soil test results will be available by early April and the information can be used to select varieties for planting this year. University of Missouri Extension Regional Agronomists have information about taking and submitting soil samples for SCN analysis, and more information is available at the University of Missouri web site <http://soilplantlab.missouri.edu/nematode>.

The second step is to make decisions about crops to plant in 2011. Farmers should rotate fields out of soybean and plant corn or another crop resistant to SCN in fields that have a high population of SCN in the soil. Crop rotation is a great SCN control method because SCN numbers decline during years when crops such as corn, grain sorghum, a forage crop, or cotton are planted. The number of years these crops should be planted before planting soybean again will depend on the number of SCN in the soil. Soybean may be planted in fields that have a low population of SCN in the soil, but farmers

should only plant varieties with some type of resistance to SCN. Soybean cyst nematode resistant varieties are available and most yield well. Very few varieties are resistant to all types of SCN so selecting the best variety to plant is difficult. Information about soybean variety resistance to SCN is available at University of Missouri Extension Offices, and the University of Missouri Variety Testing web site, <http://varietytesting.missouri.edu>. Visitors to this site should select "Soybean", then select "Characteristics". This page lists company provided information about varieties they sell and the source of SCN resistance used to develop each variety. Farmers should also ask the representatives for the soybean seed companies they buy from about the best SCN resistant varieties to plant in each field. These are the only useful SCN control methods available.

More information about SCN management is available in the University of Missouri Extension Guide titled, Soybean Cyst Nematode: Diagnosis and Management. This guide is available at <http://muextension.missouri.edu/xplor/ag-guides/crops/g04450.htm>.

The Missouri soybean farmer checkoff managed by the Missouri Soybean Merchandising Council funded much of the research by University of Missouri scientists to develop SCN resistant varieties and determine that crop rotation is a great SCN management tool.

Following these suggested procedures will give soybean farmers a better chance of producing a profitable soybean crop in 2011.  $\Delta$

*DR. ALLEN WRATHER: Plant Pathologist, University of Missouri Delta Center*



Link Directly To: **AGROTAIN**