



TOPIC OF LESSON: Soybean Cyst Nematodes

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MATERIALS NEEDED:

- Soybean Cyst Nematode (SCN) Kit (available in Nebraska from UNL Extension)
- Dissecting Scope (possibly borrow from science lab if don't have one)

LEARNING OBJECTIVES:

- Importance of soybeans to Nebraska and U.S. economy
- Uses of soybeans
- Soybean pests/conditions for pest development
- Recognize symptoms of SCN in the field
- What do you want youth to learn from this lesson?

LEARNING ACTIVITIES:

- Soybean Cyst Nematode Video (Developed by UNL and NE Soybean Board)
- Classroom Demonstration
- Field Trip to Collect Soil Samples
- Attend SCN Management Field Day if one is held in the area

ATTENTION FOCUSING ACTIVITY:

- Have students brainstorm what causes most yield loss for soybean farmers

STEPS AND KEYPOINTS:

- View Video (entirely or selected segments)
- Supplement segments of video with local resource people (Field Scout, Co-op Agronomist, Seed Company Rep, Extension Educator, Farmer with SCN, etc.)
- Collect and process samples from soybean fields

REFLECTION

- If SCN is found in local fields, estimate savings to farmer by properly managing it.
- If SCN is found in local fields, visit fields while soybeans are growing to illustrate significant yield losses can occur without on healthy appearing plants.

PERFORMANCE ASSESMENT:

- Students can identify SCN by visual observation in the field.
- Students can identify areas most likely to be infested with SCN in a field
- Students can collect and process soil sample to determine if SCN is present.