

# Soybean Cyst Nematode

By BILLY J. GRIFFIN, ASS'Y AGRICULTURAL EXTENSION AGENT

The soybean cyst nematode, which is capable of causing total destruction of a crop of soybeans and which prior to 1954 was known only in the Orient (Japan, Korea, and China), was first found in the United States in August 1954, at Castle Hayne, North Carolina, near Wilmington, in New Hanover County. Since that time, it has been found in 22 eastern counties of North Carolina and in portions of ten other states, which include Virginia, Florida, Mississippi, Louisiana, Arkansas, Missouri, Illinois, Tennessee, Kentucky and Indiana.

The soybean cyst nematode is one of numerous kinds of tiny, almost transparent eelworms which infest soil and plants. The soybean cyst nematode has a sharp spear in its mouth, similar to a hypodermic needle, which is very sharp and durable. This spear is used for piercing a hole into rootlets of soybeans. The nematode then wriggles into the rootlet and begins to feed by sucking juices from the rootlets. Penetration of and feeding on the roots causes damage, which results in the killing of root tissue and retardation of plant growth. Soybean plants damaged by nematodes are stunted and unthrifty in appearance. Considerable yellowing may be evident; however, the presence of this characteristic seems to vary considerably in different infested areas of the United States. Because of the yellowing and stunting which takes place, the damage is often referred to as "yellow dwarf."

During 1969, the pest caused severe damage to soybeans in most of the 22 known infested counties in North Carolina. This damage involved thousands of acres of soybeans in the Elizabeth City area of North Carolina, and involved growers in Pasquotank, Currituck, Camden, Gates, and Perquimans Counties. This damage was equally severe in parts of Washington, Hyde, and Beaufort Counties, near Pantego, North Carolina. The yields in some

fields, which normally would be 35-40 bushels per acre, were reduced to as low as 6-7 bushels per acre.

The pest does not move extensively through its own locomotion. Movement of soil, containing the nematode, is the principal means of spread. It may be spread from one part of a field to another, from field to field, or from one locality to another. Even small amounts of soil with nematodes may establish new infestations. Soybean cyst nematodes are spread about by infested soil adhering to almost all types of farm equipment, such as trucks, tractors, plows, combines, and peanut pickers. Soil on any commodity or container, such as crates and burlap bags, is a means of spread.

The most effective controls for the soybean cyst nematode are the use of resistant varieties of soybeans and the practice of crop rotation.

Three varieties resistant to soybean cyst nematode damage are now available for planting: Pickett, Dyer, and Custer. The Pickett variety is most commonly used in North Carolina. When planted in infested soil, these varieties have shown up to 50 per cent higher yields than susceptible varieties. Since soybeans are the primary host crop for the soybean cyst nematode, the planting of resistant varieties of soybeans or a non host crop, such as corn, vegetables, potatoes, and small grains, for two or more years will greatly reduce the soybean cyst nematode population in a field.

Farmers can help control and prevent the spread of the pest in numerous ways. They are urged to contact their County Extension Agent or Plant Protection Division Inspector if they see symptoms of yellow, stunted plants, reduced yields, or other unexplained crop losses. Recommended cropping practices should be followed. Do not grow susceptible soybeans on infested land more often than once every third or fourth year. Do not plant seed produced on infested land unless it is certified as free of the pest.

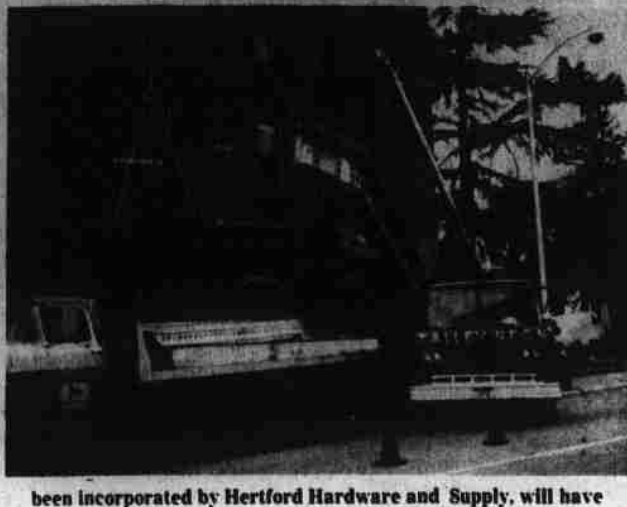
Used farm equipment should not be moved from known infested fields to non-infested fields before it is cleaned. Recommended procedures when harvesting and handling crops grown in infested fields should be followed so that they will not be contaminated by infested soil.

The United States Department of Agriculture and the affected states are cooperating to combat the soybean cyst nematode, by conducting surveys to locate infestations, enforcing quarantine regulations to prevent further spread of the nematode, and developing control measures to combat the pest. "Persons desiring detailed information about the pest or the soybean cyst

# WHAT GOES UP MUST COME DOWN



The marquee made its grand finale last week when it was taken down and put to rest. The State Theatre Building, which has



been incorporated by Hertford Hardware and Supply, will have a canopy installed at a later date to match the one on front of Hardware store.

## Cong. Jones Files For Re-Election

First District Congressman Walter B. Jones Tuesday paid his filing fee to the State Board of Elections, for re-election to Congress for a fourth term.

Jones mailed the fee, effective February 10, the date on which he was first sworn in office in 1966. It is also the birthday of his son Walter Jr. "It has always been a good day for me", Jones commented.

Because of pressing congressional activities Jones said it was impossible to file personally. He is pushing a bill he introduced last week making it possible for farmers to receive advance feed grain payments. The house bill was necessary because of announced plans by the administration to withhold payments. This Jones said "would create an undue hardship on thousands of farmers."

Jones represents the 19 county first district which runs from Jones and Craven in the South to the NC-VA line to the North. He is a member of the important House Agriculture Committee, serving on three key sub-committees, Tobacco, Conservation and Credit, and Family Farms. As member of the House Merchant Marine Committee, he is on sub-committees for the Coast Guard, Panama Canal and Oceanography.

"During my time in Congress, I have attempted to reflect through voting, the convictions of the majority of the people in our great First District, the heartland of Eastern Carolina. With the assistance of an able staff we have endeavored to handle promptly the multitude of requests directed to both our Washington, D. C. and Farmville District office," Jones said.

The United States has more record players than any other country. nematode program should contact their local Extension Agent or the local Plant Protection Division Inspector," states Griffin.

## Bob Strickland Named Director Of N.C. Campground Owners Assn.

An association of private family campground owners from Eastern North Carolina has been organized on the campus of East Carolina University.

The Eastern North Carolina Campground Owners Association (ENCCOA) was chartered here under the sponsorship of the ECU Regional Development Institute. R. C. Tim Malone, development specialist with the institute, said the ENCCOA is the first organization of its kind in the state, with a charter membership of 22 campgrounds from throughout the east.

"The organization," Malone said, "promises to be a tremendous boost to more and better camping facilities in the eastern section of the state, and to the publicizing of the availability of facilities." Campground representatives adopted a constitution and by-laws and elected officers and directors.

Named to serve as first president of the organization was William M. Booker Jr. of Manteo, owner of Sandpipers Trace, Ltd. Foxy Stephenson, Ponderosa Campground of Weldon, is vice president; and Malone, representing the Regional Development Institute and Green Acres Campground in Williamston, is secretary-treasurer.

Six directors were named to one, two and three year terms. They include: Roger Parker, Parkers' Campground, New Bern (one year); Barry Oliver, Lake View Campground, Selma (one year); Ronald Pittman, Campers Ledge of America, Wilson (two years); Bob Strickland, Hertford Campground, Hertford (two years); Ed Crews, Sand and Sea, Holden Beach (two years); and Fred McDermott, Town Creek Campground of Wilmington (three years).

Other representatives include campground owners from

Harkers Island, Kitty Hawk, Cedar Island, Kill Devil Hill, Bath, Long Beach, Arapahoe, Bridgeton, Four Oaks, Salter Path, Supply, Gaston, Washington, Manns Harbor and Southport.

## Corn Production School Set For Monday, Feb. 16

A two hour Corn Production School is scheduled to be held Monday, February 16, at 2:00 p.m. in the Auditorium of the R.E.A. Building, Hertford, North Carolina. According to W. C. Strowd, Agricultural Extension Agent, Extension Agronomy Specialists assisting with the school from North Carolina State University will be Dr. W. M. Lewis, Mr. A. D. Stuart and Dr. J. M. Falter. Subjects to be

discussed are Profitable Corn Production, Seed Varieties, Plant Population and Spacing, No-Tillage Corn Production, Chemical Weed Control Programs, and Insect Control in Corn.

All corn producing farmers, dealers and interested persons are invited to attend and bring along your questions and problems related to corn production.

## Civil Service Exam For Apprentice-Printing Crafts

The Interagency Board of U. S. Civil Service Examiners for Wash., D. C. announces an examination for Apprentice-Printing Crafts, \$2.80 an hour. This exam offers an excellent opportunity to learn a trade in printing and at the same time enjoy the benefits of employment with the Federal Government. Most positions to be filled from this exam are the Government Printing Office located in Wash., D. C. Only persons interested in employment in Wash., D. C. area should apply. There is no special education or experience background required.

In order to receive consideration for the first class, it is necessary that your application be received no later than March 6, 1970.

If interested, send application form 5000-AB to the following address:

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Be sure to show the title of this exam "Apprentice-Printing Crafts" and exam announcement number WAW-003.

For further information, you may contact Mrs. Carol V. Chesson, Civil Service Examiner in Charge, U. S. Post Office, Elizabeth City, N. C.

## Course On Hotel-Motel Management Offered By COA

A Hotel-Motel Management course designed to provide a thorough understanding of the many administrative techniques required to manage today's hotel or motel will begin Thursday, Feb. 12 at 7 p.m. at College of the Albemarle.

The 30 hour long course is offered at no cost and is second in a series of courses being provided to train hotel-motel personnel or people wishing to enter this field. Offered in cooperation with the N. C. Motel Association, college officials stated that the courses are open to anyone and are not restricted to people who enrolled in the first course.

A certificate will be awarded, however, to those who finish all 10 courses. Mrs. Mildred Hill will teach the class. Mrs. Hill operates a motel with her husband and has had considerable experience in teaching hotel-motel courses. Retired people might find these courses especially attractive.

For more information call the Adult Education Division at COA, phone 335-0821.

## Raise A Square Meal Around Home

Now is the time to plan to Raise A Square Meal Around the Home. This will help you have the right foods in the right amounts at the right time, states Mrs. M. B. Taylor, Home Economics Extension Agent today. Foods can be produced without a plan, but planning can make the difference between being well or poorly fed. This will help you feed your family but not to sell. Of course, you will want to sell or exchange surplus foods for those you do not produce. Be sure, though, that you first save enough to meet your family needs. Every family is practical to have a garden of adequate size - 1/10 acre for each member of the family. They are urged to produce and harvest at least 15 or more vegetables for family use. Mrs. Taylor stated that Family Food Conservation plans may be secured through her office.

These plans will help you to plan the amounts needed for each member of the family. Families who buy all their food will need to know the amounts needed for one person per week. Plans of this type are also available states Mrs. Taylor.

## Gates Scalps Indians

The Perquimans Indians extended their losing streak to four games as they were downed by the Gacos of Gates County here Friday, 59-79. The girls dropped the first game 28-43.

The boys' game started out as a romp for the Gates boys as they jumped out to an early 19-7 lead. They continually hit their big men, W. C. Jordan and Lee Askew under the basket as these two dominated play on the boards. At the end of the first half Gates held a commanding 35-17 lead.

But in the third quarter the Indians stormed back. Led by Gary Rouse and C. J. Stallings they out-scored the Gacos 25 to 20 to cut their lead to 55-42. The rally was quickly snuffed out as Rouse and Aaron Harrell fouled out for the Indians and Gates County controlled the ball most of the final period for a 79-59 victory.

Jordan and Askew led Gates with 24 and 22 points respectively. Pitt Goodwin pumped in 14 points and Gatlin chipped in 9 points and 10 rebounds.

Gary Rouse had a fine night as he paced the Indians with 18 points and made some fine defensive plays. C. J. Stallings added 17 and Aaron Harrell scored 14 points and pulled in 10 rebounds.

In the girls' game Gates used their height advantage as they dominated the Perquimans girls. Gates continually got two or three shots at the basket as they breezed to their ninth straight victory.

Mary Ryan led Gates with 22 points. Patricia Winslow followed with 8.

Betty Murray led the Indians with 14 and Peggy White hit for 6 more.

## DANGEROUS TV SETS

The National Commission on Product Safety reported 22 models of color television sets have been exploding or catching fire at an above-average rate. The commission's decision to identify the models brought an accusation from the Electronics Industries Association that the commission was creating an unfair competitive advantage for some manufacturers.

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