

## Agriculturally Speaking

By L. B. HARDAGE  
County Extension Chairman

Ed Note: L. B. Hardage, Warren County Extension Chairman gave the following report at the Extension Research on Wheels Review recently held in the McKimmon Center at State College, Raleigh.

### Results - System Control Tests - Tobacco

Several disease control methods are available to growers including R-6-P, chemical soil treatment, crop rotation, resistant variety and certain sanitation practices. These methods are well tested and are effective but generally do not do the job when used alone.

The System Research Program was initiated in 1966 and designed to provide information on individual and various combinations of control practices. Six tests were conducted in 1977. My job is to summarize results from these tests along with some of those conducted in prior years.

My test was located on the Emery Keeter farm. This field was selected a couple of years ago because of severe black shank damage. Black shank development this year was low, even in plots where continuous culture was practiced and no chemical soil treatment used.

Highlight results from my test in Warren County. You will note that the yield was high - \$2,821 per acre where tobacco followed tobacco - no chemical soil treatment. Chemical soil treatment with Telone C-17 at 10 1/2 gallons per acre increased performance \$241 per acre above the check plot. Rotation with small grain fescue gave an increase of \$675. The best treatment was rotation with small grain fescue and use of Telone C-17, which gave an increase of \$781 per acre. The variety - Speight G-28.

Here are the similar results obtained from the test in Greene County. You will note that value per acre was much lower - \$1752 - as compared with \$2821 for the test in Warren. You need to remember that water caused extensive damage in the Greene County test and then, too, black shank development was far greater than in my test. Multi-purpose chemical added \$344 per acre. Rotation with small grain fescue, \$159, and rotation + multi-purpose chemical gave best results with an increase of \$551.

Results from Greene and Warren - 1977; Halifax test in 1976; and Lenoir in 1975. You will note that summarizing all of these tests

together on both root-knot resistant and root-knot susceptible varieties that the continuous culture plus multi-purpose treatment gave a \$356 increase in the root-knot resistant and a \$560 in the root-knot susceptible. The best treatment again was rotation plus multi-purpose chemical or Telone C-17 on both varieties. This was particularly outstanding where the susceptible variety was used.

Summary results from Greene - '77; Halifax - '76; and Lenoir - '75... continuous culture. Multi-purpose chemical - Telone C-17, 10 1/2 gallons per acre was more effective in black shank control and value increase as compared with a non-fumigant-type nematocide.

Similar results were obtained where tobacco followed small grain fescue. Again the more effective treatment was Telone C-17 (multi-purpose) as compared with a nematocide.

Summary Results from 1977 tests confirm those from previous years and emphasize the value of the system plan or a combination of practices in both the disease control and production program. Combinations involving high resistant variety, multi-purpose chemical (Telone C-17) soil treatment and crop rotation provided best results in fields where the disease level was high.

Those involving continuous culture plus high resistant variety and Telone C-17 gave good control and in most tests were equal to those involving rotation, high resistant variety and no chemical soil treatment.

Mocap or Dasnit-Nemacur provided adequate protection and high performance in most systems involving rotation but were not as effective as Telone C-17 where continuous culture was practiced. Speight G-28, the high resistant variety performed some better than N. C. 13 (high to black shank, susceptible to root-knot) at most locations.



W. Dennis Harris, president of Warren County Farm Bureau, receives a special award from John Sledge, president of the North Carolina Farm Bureau Federation, at its annual meeting in Greensboro this week.

The award was presented in recognition of outstanding production by Farm Bureau Insurance agents in the county in a statewide contest in which agents had an opportunity to win this honor for their county presidents who serve on a voluntary basis. Shown above, from left, are Sledge, Harris, agency manager Gene Richardson and agent James Brinkley.



REAVIS



CHESTON

## Two 4-H Members To Be Interviewed

By GEORGE KOONCE  
Extension Agent, 4-H  
Oita Kayonna Cheston, member of Norlina Youth Improvement 4-H Club and Lisa Pandora Reavis, member of Embro Community 4-H Club are semi-finalist nominees for Special State 4-H Activities. Oita is the daughter of Mr. and Mrs. S. M. Cheston and Lisa is the daughter of Mr. and Mrs. John Reavis.

According to correspondence received at the County 4-H Office from Miss Pauline E. Moore, 4-H Specialist, N. C. State University in Raleigh, the two 4-H'ers will be inter-

viewed at N. C. State University in Raleigh, the University on Jan. 4 along with other possible 4-H delegation out of state.

They may have an opportunity to represent state 4-H'ers at National 4-H Conference held at the National 4-H Center, Washington, D. C.; Danforth Leadership Conference held at Camp Miniwanca near Muskegon, Mich. or out-of-state delegate to either Georgia, Tennessee, Pennsylvania, or Virginia.

Delegates to National Conference have an opportunity to contribute their ideas and recommendations for 4-H programs in the future. The Danforth Leadership Conference's purpose is to assist young people to discover and to develop their best selves, to help them make a constructive life adjustment and to better equip them to guide others.

Out-of-state delegates will attend the annual state meetings which corresponds with our N. C. 4-H Congress. The purpose of the exchange of delegates from other states is to provide opportunities for older youth to visit another state's annual meeting for the enhancement of cultural development.

The planned personal interviews with the 4-H'ers is scheduled for the morning of the 4th with lunch being provided by the State 4-H Office. Announcement of delegate selection, interviews by news media, and picture taking will follow the luncheon.

## Club Women Meet With Mrs. Loyd

The Macon Woman's Club met on Dec. 5 in the home of Mrs. Wilton E. Loyd. Mrs. William L. Reid, president, presided over a brief business session.

An informal program consisting of Christmas poems, stories and songs was presented by various members for the Christmas meeting.

Christmas carols were also sung by the group accompanied by Mrs. G. W. King at the piano.

Hostesses for the night were the executive board. They served Russian tea, cheese puffs, sandwiches, cherry yum-yum and chocolate balls. A Christmas favor was placed on each plate.

## Pesticide School To Be Held Here

The Pesticide School to certify Warren County farmer applicators will be held at the Warren County courtroom on Dec. 20 and 21, L. C. Cooper, Agricultural Extension Agent, announces this week. He said classes will begin at 7 p. m. and remain in session until 9 p. m. each night. Applicators must attend both classes for a total of four hours to be certified.

Cooper said the classroom training will stress "Applying Pesticides Correctly," using a series of slides with audio support, plus active participation in a question and answer session. For further information, applicators are asked to call their county extension office.

## Graham Announces Tobacco Varieties

Commissioner of Agriculture James A. Graham announced today the recording of 51 flue-cured tobacco varieties which will be authorized for sale in North Carolina in 1978 by nine tobacco seed growers. The recordings were made upon the recommendation of the North Carolina Tobacco Seed Committee, as required by North Carolina Seed Regulations.

Commissioner Graham emphasized that no recommendations are made or implied for any variety. The recording process is designed to assure growers of positively identified seeds of any variety they choose.

Samples taken by N. C. Department of Agriculture inspectors on the seed market will be grown for variety verification by the N. C. Agricultural Experiment Station.

Two new varieties will be offered to growers for planting in 1978. They are Coker 48 and N. C. 89.

The varieties recorded and eligible for sale are: Coker 48, Coker 80F, Coker 86, Coker 111, Coker 128, Coker 156, Coker 187, Coker 187-Hicks, Coker 213, Coker 254, Coker 258, Coker 298, Coker 319, Coker 347, Coker 354, Coker 411, Georgia 1469, Hicks Broadleaf, McNair 14, McNair 20, McNair 30, McNair 133, McNair 135, McNair 944, McNair 1040, N. C. 12, N. C. 13, N. C. 79, N. C. 88, N. C. 89, N. C. 95, N. C. 98, N. C. 2326, N. C. 2512, Reams 266, S. C. 66, S. C. 71, S. C. 72, Speight G-5, Speight G-13, Speight G-15, Speight G-23, Speight G-28, Speight G-33, Speight G-36, Speight G-41, Speight G-140, VA 080, VA 115, VA 770, White Gold.

The growers recorded are: Bell's Seed Farm, Rocky Mount; Coker Pedigree Seed Company, Hartsville, S. C.; Connie M. Gill, Roxboro; McNair Seed Company, Laurinburg; Reams Seed Company, A ex; Speight Seed Farms, Inc., Winterville; Wagwood Farms, Inc., Gibsonville; Watson Seed Farms, Inc., Rocky Mount; R. J. Works & Sons, Rocky Mount.

## 4-H Leaders Recognized At Program

By GLENN WOOLARD  
Asst. Extension Agent, 4-H  
Seventy-two Warren County 4-H leaders, with a grand total of 446 years of service were recognized at the Annual Warren County Achievement Program.

These volunteer leaders give extensive time, talents, and personal resources to support 4-H. Without them, it would be impossible to carry out the 3-H program for the youth of Warren County.

Mrs. Irene Alston of Busy Clover 4-H Club received the Sapphire Clover Certificate and Pin for 35 years of service as a 4-H Leader.

Henry Williams, also of the Busy Clover 4-H Club, who received the Pearl Clover Certificate and Pin for 15 years of service as a 4-H Leader.

Eight 4-H Leaders awarded the Silver Clover Certificate and Pin for 5 years of service were: Mr. and Mrs. Robert Arrington of the Arcola 4-H Club, Mrs. Nancy Boyd of the Macconers 4-H Club, Mrs. Fannie E. Hicks and Mrs. Irene C. Stark of the Elam 4-H Club, Mrs. Brenda Keeter of the Zion 4-H Club, J. Robert King of the Golden Star 4-H Club, and Mrs. Cornelia Williams of the Cool Springs 4-H Club.

Following recognition of club leaders - was a second awards presentation in which 84 friends of 4-H were recognized for their time, talent and resources given in support of the 4-H program.

Of the Friends named, 11 received Gold Certificates of Appreciation, one of the highest honors for a Friend of 4-H.

Friends of 4-H Recognized Miss Sue Salmon gave a forestry workshop, a recreation workshop, and numerous terrarium workshops during the summer. Miss Salmon is now a student at Pfeiffer College in Misenheimer.

Soul City parks and Recreation co-sponsored with Warren County 4-H the county's first Kid's Dog Show and provided facilities and instructors for 4-H water instruction classes. George Silver, Soul City part and recreation director, accepted the old certificate on behalf of his staff.

Three friends were honored for their work on the Warren County 4-H Flag. Miss Laura Bender, daughter of Mr. and Mrs. William H. Bender of Rt. 2, Norlina, designed the flag. Miss Bender is a student at Oakland Institute of Arts in California. Dr. James Clark placed the design on the material and colored it. Dr. Clark, originally from Vaughan, is now a professor at North Carolina State University.

Mrs. William H. Bender spent several days at the extension office helping Miss Emily Ballinger, home economics agent, sew the flag together.

WARR Radio and The Warren Record both have given their full support in helping put 4-H before the public. Bill Byer, manager of WARR, and Helen Holt, news editor of the Warren Record, accepted these gold certificates on behalf of their respective staffs.

South Warren, Vaughan Elementary, Mariam Boyd and North Warren Middle schools each cooperated with 4-H in carrying out traffic safety and dairy poster contests.

### Dry Milk

Instant nonfat dry milk is made by removing water and fat content from fresh whole milk, leaving minerals, proteins and lactose in a powder form. When it is reconstituted with cold water, it has only half the calories of whole milk and the same nutritional value of skim milk. It needs no refrigeration in the powder form, but once it is reconstituted, it must be given the same care as fluid milk.



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