

1947

1947 Union County Extension Service Report

Clemson University Cooperative Extension Service

W. J. Martin

H. L. Bailey

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ANNUAL REPORT

COUNTY AGENT WORK

Union
County

SOUTH CAROLINA

1947

W. J. MARTIN

County Agent

Assistant County Agent

Assistant County Agent

H. L. BAILEY

Farm Labor Assistant

CLEMSON AGRICULTURAL COLLEGE

Cooperating with

UNITED STATES DEPARTMENT OF AGRICULTURE

EXTENSION SERVICE

D. W. Watkins, Director

Clemson, South Carolina

ANNUAL REPORT OF COUNTY AGENT WORK

UNION COUNTY, SOUTH CAROLINA

1947

W. J. Martin, County Agent

Cooperative Extension Work in Agriculture and Home Economics

Clemson Agricultural College and the

United States Department of

Agriculture Cooperating

Extension Service

D. W. Watkins, Director
Clemson, South Carolina

DEC 14 1947

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SUMMARY OF ACTIVITIES AND ACCOMPLISHMENTS

GENERAL ACTIVITIES

1. Days agents spent in office	124
2. Days agents spent in field	502
3. Days devoted to work with adults	406
4. Days devoted to work with 4-H Clubs	220
5. Miles agents traveled	24,318
6. Farm visits made	1,935
7. Different farms visited	700
8. Office calls at agents' office	3,025
9. Telephone calls at agents' office	2,758
10. Individual letters written	1,363
11. Circular letters prepared	63
Copies mailed	8,107
12. Newspaper articles published	239
13. Bulletins distributed	3,526
14. Radio talks made	46
15. Meetings held or attended by agents	242
Attendance at these meetings	5,628
16. Number of adult result demonstration conducted	44
17. Number of 4-H demonstrations completed	126
18. Number of communities in which Extension Work was conducted	9
19. Number of voluntary community leaders assisting with the Extension Program	113

PROJECT ACTIVITIES AND RESULTS

Agricultural Economics

One county outlook meeting was held with 60 farm men and women attending. Outlook information was discussed at community meetings throughout the year. 7 farmers kept farm accounts which were completed in January. These same 7 men and 1 4-H club member have kept records during 1947. 7 farmers have conducted TVA unit test-demonstrations, 2 new farmers were added to this program during the fall of 1947. Through the TVA program 8 farmers received 46,900 pounds of triple superphosphate during October. Through the Emergency Farm Labor Program 189 seasonal workers and 5 year-round workers were placed on 11 farms and 75 workers were assisted in obtaining employment in other counties.

Agricultural Engineering

A total of 645 acres of land was terraced for 21 farmers by the county owned power terracing outfits during 1947, bringing the total acres terraced by power units to 10,626 for 317 farmers. In addition to the above 76 acres were terraced on 5 farms by 3 farmer contractors using farm equipment. District farm plans were prepared on 107 farms bringing the total of farms under district plans to 373 with an acreage of 57,651. Farmers were given assistance in constructing and repairing farm buildings during the year. 4 dairy barns, 4 hog houses, 2 poultry houses, 1 sweet potato curing house and 1 box type silo were built according to recommendations made by the county agent. 1 school on the care and operation of combines and 2 schools on care and operations of tractors were held with a total attendance of 168 farmers.

Agronomy

Thirteen farmers completed 5-acre cotton contest demonstrations producing an average of 616.7 pounds of lint cotton per acre. 3 demonstrations were completed comparing various varieties of hybrid corn with local varieties. The 3 hybrid varieties produced an average yield of 37.9 bushels per acre while the local open-pollinated varieties produced 28.1 bushels per acre. The following other agronomy demonstrations were completed: 2 winter legumes, 13 corn production, 4 grain sorghum, 1 oat production, 1 barley production, 2 wheat production, 2 legume for hay, 4 annual grazing and 1 permanent pasture. The following amounts of seed were placed with farmers throughout the year: 10 bushels corn seed, 2 bushels wheat, 4 bushels oat, 7 tons cottonseed and 419 pounds of miscellaneous seed including Kentucky #31 and Alta fescue, dallis grass, ladino clover, cantaloupe, alfalfa, crimson clover, grain sorghum, sweet sorghum. One county wide fertilizer meeting was held, attended by 60 farmers, and fertilizer problems were discussed at community meetings held throughout the year.

Animal Husbandry

Eight purebred boars were placed, 3 of these being purchased by 4-H club boys and 5 by adult farmers. 14 purebred gilts were placed with adult farmers and 5 with 4-H club members. 15 head of purebred cattle including 2 bulls and 13 females were placed with 3 farmers. 1 tour was conducted for the purpose of observing grazing practices being followed by beef cattle men of an adjoining county. Throughout the year farmers were given assistance in disease and insect control and in herd management. Farmers of Union County are planning an increased acreage to annual grazing crops.

Dairying

Farmers were assisted in purchasing 5 purebred bulls and one 4-H club member was assisted in purchasing 1 bull. 3 purebred females were placed with 3 farmers and 8 were placed with 7 4-H club members. 31 dairy calf club members completed demonstrations showing a profit of \$2,368.00. 13 club members exhibited 19 head of dairy cattle at the Union County Fair winning \$296.50 in prizes. 4 animals were exhibited at the Piedmont Interstate Fair. Farmers and 4-H club members were encouraged to provide a year round grazing system and to produce a sufficient amount of high quality roughage for their dairy animals.

Entomology and Plant Pathology

Information was furnished farmers on the control of diseases and insects. A special effort was made to encourage farmers to use poison for controlling boll weevils, and through the efforts of the farm labor assistant approximately 750 acres of cotton were dusted by airplane using BHC-DDT. 29,000 oriental fruit moth parasites were purchased for 8 peach growers and released. One demonstration was conducted in control of chinch bugs, sabadilla being used with very good results in this demonstration.

Forestry

A total of 47,000 loblolly pine seedlings were planted by 11 farmers during the fall of 1947. 129,000 seedlings were ordered for 19 farmers. These to be planted during the 1947-48 planting season. Woodland examinations were made for 7 farmers covering 1,595 acres and 600 acres were marked for selective cutting of 854,080 board feet. Forestry instructions were given in 4-H Club meetings and 4-H club camps. One Arbor Day program was held with 53 farm boys and girls attending. A cork oak seedling was planted on the school grounds during this program. Special efforts were made to encourage farmers to take definite steps to prevent forest fires. During Fire Prevention Week 2 circular letters, 4 news articles, 1 paid newspaper advertisement and one radio program were prepared dealing with this subject.

4-H Club Work

Twelve 4-H clubs were organized with a membership of 191. In addition there were 10 members who did not belong to regularly organized clubs. This brings the total membership to 201. 106 members completed 126 demonstrations, producing farm products valued at \$15,844.68 and realizing a profit of \$5,922.29. One county 4-H Club camp was held with 32 boys and 63 girls attending. 2 boys attended the State Conservation Camp and 2 attended the State 4-H Council meeting. A County 4-H Club Council was organized for the first time and one local leader-officer training meeting was held. One rally day program was attended by 200 boys and girls. 13 club members exhibited 19 dairy animals at the Union County Fair and 4 at the Piedmont Interstate Fair. 6 clubsters exhibited 22 head of swine at the Union County Fair, and 15 clubsters exhibited 143 chickens at the Union County Fair.

Horticulture

The county agent worked closely with peach growers assisting with disease and insect control and fertilizer problems. Commercial growers were assisted in marketing 90,000 bushels of peaches. Assistance was given in the control of insects and diseases in home orchards and in helping farmers to decide on varieties of fruits to be planted in home orchards. Assistance was given the commercial sweet potato growers with their cultural and fertilizing practices. Through educational publicity and personal contacts assistance was given home gardeners in seeding, fertilization and control of insects and diseases.

Marketing

Farmers were furnished marketing information throughout the year and were given assistance in marketing farm products valued at \$117,994.70 and in purchasing products valued at \$13,473.34.

Poultry

Two demonstration flock records were completed showing a labor income income of \$7.66 per hen. Flock owners were assisted in controlling parasites and diseases, and in establishing sanitary practices and more efficient management of poultry. Assistance was given in marketing 1,866 pounds of poultry for 14 farmers for \$556.20. 2,000 baby chicks were purchased for 25 farmers at a cost of \$300.00.

Visual Instructions

Educational motion pictures were shown to 1,348 people at 12 meetings. Slides were used at 2 meetings attended by 262 people, and charts were used at 2 meetings attended by 85 people.

Publicity

A total of 1,363 personal letters were written, 63 circular letters were prepared with 8,107 copies mailed. 239 newspaper articles were published, 3,526 bulletins were distributed, 46 radio talks were made and 6 tours were conducted. 82 advertisements covering 3,441 square inches of newspaper space were prepared for local business firms who volunteered to have their advertisement space used in the interest of the Extension Program.

COUNTY, COMMUNITY AND NEIGHBORHOOD ORGANIZATION
OF VOLUNTEER FARM AND HOME LEADERS

1. County Agricultural Committee

- a. The Agricultural Committee for Union County was selected by the County home and farm agents on the basis of their ability as farmers and homemakers, their knowledge of their particular communities and of the county as a whole and their ability and willingness to give time to the work.
- b. Union County Agricultural Committee Members and Subcommittees

Alman, W. W.	Union, S. C.
Belue, Mrs. Orin	R-4, Union, S. C.
Bogan, Dupre	R-1, Jonesville, S. C.
Bogan, F. P., Sr.	R-1, Jonesville, S. C.
Coleman, Williams	Union, S. C.
Crocker, Mrs. R. J., Sr.	R-1, Santuc, S. C.
Crocker, R. J., Sr.	R-1, Santuc, S. C.
Davis, Mrs. J. C.	R-3, Union, S. C.
Davis, J. C.	R-3, Union, S. C.
Edwards, Mrs. G. D.	R-3, Union, S. C.
Fincher, R. C.	R-2, Union, S. C.
Gallman, T. Abe	R-1, Jonesville, S. C.
Garner, Clearman	R-4, Union, S. C.
Garner, Gee	R-1, Kelton, S. C.
Garner, Miss Ida	R-1, Kelton, S. C.
Grainger, Mrs. C. A.	R-1, Jonesville, S. C.
Grainger, C. A.	R-1, Jonesville, S. C.
Glenn, George S.	R-1, Cross Anchor, S. C.
Hames, Fletcher B.	R-1, Paolet, S. C.
Hopkins, A. P.	R-1, Buffalo, S. C.
Hughes, Claude	R-5, Union, S. C.
Goings, S. R.	R-1, Jonesville, S. C.
Ivey, B. C.	R-5, Union, S. C.
Jeter, Mrs. C. A.	Carlisle, S. C.
Jeter, C. A.	Carlisle, S. C.
Jeter, Mrs. Elbert	R-2, Whitmire, S. C.
Jeter, J. Ryan	Santuc, S. C.
Jeter, L. B., Jr.	Santuc, S. C.
Jeter, Paul	R-4, Union, S. C.
Keith, J. F.	R-4, Union, S. C.
Kennedy, Mrs. A. G.	Union, S. C.
Kennedy, A. G.	Union, S. C.
Kitchen, T. M.	R-2, Whitmire, S. C.
Lancaster, C. R.	R-1, Pauline, S. C.
Lancaster, J. Boyd	R-1, Pauline, S. C.
Lancaster, W. H.	Union, S. C.
May, Gordan	R-1, Union, S. C.
Nance, R. L.	Adamsburg, S. C.
Palmer, Mrs. J. T.	R-5, Union, S. C.

Sanders, Gene	R-1, Kelton, S. C.
Smith, Mrs. Hayne P.	R-1, Jonesville, S. C.
Smith, Hayne P.	R-1, Jonesville, S. C.
Scott, Lewis (4-H Boy)	R-1, Jonesville, S. C.
Vanderford, B. B.	R-5, Union, S. C.
Whitwire, J. R.	R-1, Sedalia, S. C.
Wilburn, W. C.	R-2, Union, S. C.
Williams, Miss Eva (4-H Girl)	R-1, Union, S. C.

Advisory Group

Mr. J. P. Bailes, Soil Conservationist, Union, S. C.
 Mrs. Alsie S. Bradley, Home Supervisor, FHA, Union, S. C.
 Mr. Ralph Farr, Administrative Officer, P&MA, Union, S. C.
 Mr. C. K. Hughes, Broad River Soil Conservation District Supervisor,
 Union, S. C.
 Mr. Hugh Jeter, Supervisor, Farmers Home Administration, Union, S. C.
 Mr. James G. Long, County Ranger, Union, S. C.
 Mr. E. G. Dunford, Central Piedmont Exp. Forest, Forest Service,
 Union, S. C.

Executive Committee

Mrs. Orin Belue	R-4, Union, S. C.
Mrs. G. D. Edwards	R-3, Union, S. C.
Mrs. R. J. Crocker, Sr.	R-1, Santuc, S. C.
Mrs. Hayne P. Smith	R-1, Jonesville, S. C.
Mr. R. C. Fincher	R-2, Union, S. C.
Mr. A. G. Kennedy	Union, S. C.
Mr. L. B. Jeter, Jr.	Santuc, S. C.
Mr. W. H. Lancaster	Union, S. C.
Mr. B. C. Ivey	R-5, Union, S. C.

Advisory Committee for Returning Veterans

Mrs. J. C. Davis	R-3, Union, S. C.
Mr. J. Ryan Jeter	Santuc, S. C.
Mr. W. H. Lancaster	Union, S. C.
Mr. S. R. Going	R-1, Jonesville, S. C.

Nutrition Committee

Mrs. A. G. Kennedy	Union, S. C.
Mrs. C. A. Jeter, Jr.	Carlisle, S. C.
Mr. Paul Jeter	R-4, Union, S. C.

Marketing Committee

Mrs. Orin Belue	R-4, Union, S. C.
Mr. R. C. Fincher	R-2, Union, S. C.
Mr. B. C. Ivey	R-5, Union, S. C.
Mr. L. B. Jeter, Jr.	Santuc, S. C.

Representatives of County Committee to State Agricultural Committee

Mrs. G. D. Edwards
Mr. L. B. Jeter, Jr.

R-3, Union, S. C.
Santuc, S. C.

- c. The County Agricultural Committee meets at various intervals to study the situation in the county and to make recommendations to the Extension Organization relative to planning and executing the program in the county. The principle meeting of the year is held in the fall. At this time the committee hears a progress report of work done on the program set up for the current year. They go into a study of any new information which is available, concerning the agriculture of the county and work out a program for the following year, making any revisions in the long-time program that seem necessary under prevailing conditions. They sponsor special food and feed production programs and are most active in their respective communities.
2. Organized communities, organized neighborhoods in that community, for the conduct of the agricultural program in each.
 - a. Bogansville
 - (1) Buffalo
 - (2) Coleraine
 - (3) Parham
 - (4) Putnam
 - (5) Sulphur Springs
 - (6) West Springs
 - b. Cross Keys
 - (1) Cedar Bluff
 - (2) Cross Anchor
 - (3) Cross Keys
 - (4) Macedonia
 - (5) Sedalia
 - c. Fish Dam
 - (1) Carlisle
 - (2) Herbert
 - (3) Tucker Town
 - d. Goshen Hill
 - (1) Coleman
 - (2) Delta
 - (3) Maybington Road
 - e. Jonesville
 - (1) Cedar Grove
 - (2) Elford Grove
 - (3) Free
 - (4) Gillead
 - (5) Jonesville
 - (6) Lockhart Junction
 - (7) Mills Creek
 - (8) New Hope

- f. Pinckney
 - (1) Adamsburg
 - (2) Flat Rock
 - (3) Cohen
 - (4) Hughes Johnson
 - (5) Howell
 - (6) Kelly
 - (7) Kelton
 - (8) Pickney
- g. Santuc
 - (1) Ada
 - (2) Carem
 - (3) James Hope
 - (4) Meador
 - (5) Santuc
 - (6) Tinker Creek
- h. Union
 - (1) Bonham
 - (2) Brown's Creek
 - (3) Hebron
 - (4) Sardis
 - (5) Oakland
 - (6) Union

3. Programs or campaigns Handled through Voluntary Leaders in 1947

a. Soil Conservation

Through community and neighborhood leaders the carrying out of soil conservation practices has been urged. Eleven community groups of farmers, organized for the purpose of doing a better job of conserving the soil in their communities, are headed by community leaders, and the county agent's office has worked closely with these leaders in order to furnish information and recommendations.

Committee and neighborhood leaders throughout the county have been furnished information regarding the earning of soil building allowance by each farm as set up under the Production and Marketing Administration. These leaders have encouraged other farmers to take advantage of this program by obtaining such materials as ground limestone, superphosphate, Austrian Winter peas and vetch seed through the Purchase Order Plan. More materials have been ordered than can be furnished this year.

b. Permanent Pastures and Annual Grazing Crops

Throughout the year the importance of improving established permanent pastures and in establishing new pastures has been encouraged by volunteer leaders. Information has been furnished these leaders through circular letters and bulletins to aid them in getting a better job done within their own communities.

As a result of the campaigns conducted through local leaders a larger acreage of annual grazing crops was planted in Union County in 1947 than ever before. A number of these leaders have conducted annual grazing demonstrations, thus setting an example for their neighbors by putting into effect recommendations for producing feed for livestock at a lower cost.

c. Fire Prevention

In addition to the appeal made to the general public through the newspaper and over the radio, the help of local leaders was solicited in an effort to eliminate fire hazards on the farm and in the home, thus reducing the great loss suffered each year by the farm people of Union County as a result of fires started through carelessness.

d. 5-Acre Cotton Improvement Demonstrations

Through the efforts of volunteer leaders we were able to locate 5-acre cotton improvement demonstrations in all sections of the county. A number of these leaders enrolled in the 5-A Cotton Contest themselves thus setting an example for their neighbors.

e. Boll Weevil Control

Through the efforts of county, community and neighborhood leaders campaign was conducted to control the boll weevil through applying poison. As a result a number of farmers have stated that more poisoning was done in 1947 than in any previous year. Through the cooperation of these leaders with the county agent's office, approximately 700 acres of cotton were dusted with BHC - DDT.

f. Use of Better Planting Seed

Community and neighborhood leaders assisted in an effort to encourage farmers to use better planting seed and to have their seed cleaned and treated before planting.

g. Farm Labor Program

Farm leaders have been very cooperative with the farm labor assistant in recruiting and placing labor in the county during rush seasons. They have also assisted in locating and contacting owners of farm machinery who were willing to do custom work for farmers who did not own machinery themselves. This has helped a large number of farmers to get their land prepared for planting and to harvest their crops at the proper time. The more efficient utilization of available farm machinery has resulted.

COUNTY EXTENSION ORGANIZATION

Changes in Union County Extension Staff

The following listed changes have occurred in the Union County Extension personnel during 1947:

(1) Miss Mahala J. Smith retired from the position of home demonstration agent on June 30, 1947. Mrs. Merle S. Crocker was appointed to this position and began her duties on August 1, 1947.

(2) Miss Veda Kiser served as assistant home demonstration agent from February 1 through June 30, 1947, at which time she was transferred to Berkeley County.

(3) J. M. Robinson succeeded R. A. Marshall as Negro Farm Agent and began his duties June 1, 1947.

Present Extension Staff

White Agents

W. J. Martin, County Agricultural Agent
Mrs. Merle S. Crocker, Home Demonstration Agent
H. L. Bailey, County Farm Labor Assistant

Negro Agents

J. M. Robinson, Negro Agricultural Agent
Laura Whitney, Negro Home Demonstration Agent

The county agents cooperate with the negro agents in their program of work with the negro farm people of the county, aiding them in developing subject matter, in conducting demonstrations and assisting them in obtaining specialist help.

Other Agencies

The county agents cooperate closely with the soil conservation program and the agricultural adjustment program in Union County. The following listed personnel is in charge of the administration of these programs:

James P. Bailles, Soil Conservationist, SCS
Ralph Farr, Administrative Officer, F&MA

Agricultural Committees: The Agricultural Committee for Union County and the community Agricultural Committees and the neighborhood leaders for 1947 are listed under "County, Community and Neighborhood Organization of Volunteer Farm and Home Leaders."

These committees act in an advisory capacity to the county agents in planning and carrying out the program of Extension Work in Union County.

In addition to the County Agricultural Committees, the organizations listed below have cooperated closely with the county agents in planning and carrying out the 1947 Program of Extension Work.

Union County Farm Bureau
Union County Soil Conservation Association
Union County Council of Farm Women
Union County 4-H Council
Union County Agricultural Conservation Association
Home Demonstration Clubs
Broad River Soil Conservation District
Broad River Electric Cooperative
Union County Health Department
4-H Club Leaders
Farmers Home Administration
Union County Beekeepers Association
Union County USDA Council
Federal Land Bank
Spartanburg Production Credit
Union County Agricultural Fair Association
S. C. Peach Growers Association
Community Soil Conservation Groups
Chamber of Commerce
Junior Chamber of Commerce
Union Rotary Club
Union Lions Club

PROJECT ACTIVITIES AND RESULTS

AGRICULTURAL ECONOMICS

Work in agricultural economics and farm management in 1947 included outlook meetings, complete farm records, cooperation with farm credit agencies, assistance in farm planning and assistance in the efficient utilization of farm labor and equipment.

Outlook: One county outlook meeting was held at the County Court House on January 30, 1947 at which time the district agent presented the outlook information to 60 farm men and women. At community meetings throughout the year timely outlook information was discussed.

Complete Farm Records: Seven Union County farmers kept complete farm records on their operations in 1947. After summaries and analysis have been made, these farmers will be encouraged to use the results in planning their future operations. The results will also be used by the county agent in assisting other farmers in the county. A list of the seven farmers keeping complete farm records follows:

List Complete Farm Record Demonstrations - 1947

<u>Name</u>	<u>Address</u>	<u>Size of Farm Acres</u>	<u>Predominant Type of Farming</u>
William Coleman	R-2, Whitmire	2,423	Grain - Beef
George S. Glenn	R-1, Cross Anchor	450	Cotton - Poultry
R. C. Fincher	R-2, Union	187	Cotton - Beef
J. F. Keith	R-4, Union	104	Truck - Beef
C. A. Grainger	R-1, Jonesville	119	Cotton
B. C. Ivey	R-5, Union	306	Cotton-Truck-Beef
Wallace Wilson	R-1, Union	162	Cotton-Grain- Truck-Swine

In addition to the complete farm records kept by the adult farmers of the county, one 4-H Club member, Autrey Ivey, Jr., has kept a complete farm record on his home farm.

Cooperation with Farm Credit Agencies : The county agent cooperated with the Spartanburg Production Credit Association, the Farmers Home Administration and the Federal Land Bank in their work of extending credit to the farmers of Union County.

Farm Planning: The county agent has given assistance to several farmers in developing plans for part or all of their farms in order to meet changing conditions.

T. V. A. Farm Unit Test Demonstrations

In cooperation with the Extension Service and the Tennessee Valley Authority, the county agent worked with seven unit test demonstration farms in Union County in 1947. These farms were established to demonstrate the value of a program of land-use adjustment in the interest of soil and water conservation. Crop and livestock plans have been developed for each farm for a five-year period. Each farmer kept a complete farm account record of his business transactions.

In addition to the seven farmers that have been in the TVA Program for the past few years two new farms were added during 1947. Complete farm plans have been written on these farms and the farmers will start keeping complete farm records at the first of 1948.

A summary of the acreages of permanent pastures, perennial and annual legumes together with the amounts of lime and phosphate used on these farms in 1947 is given on the following page.

Acres of Perennial Legumes, Permanent Pasture, and Annual Legumes together with the Amounts
of TVA Phosphate and Lime Used on Test Demonstration Farms in
Union County in 1947

Name of Cooperator	Perennial Legume			Permanent Pasture *			Annual Lespedeza		
	Acres	Pounds of phosphate applied	Pounds of Lime applied	Acres	Pounds of phosphate applied	Pounds of lime applied	Acres	Pounds of phosphate applied	Pounds of lime applied
R. C. Fincher				2.7	800		17.2	3900	
George S. Glenn	1.8	540		7.2	2850		11.7	1710	
C. A. Grainger	8.1	2440		4.3	1720		7.2	1440	
B. C. Ivey				9.9	3900	26,000	13.5	2700	
J. F. Keith				10.8	4320		6.3	1180	
Wallace Wilson							16.2	3200	30,000
W. W. Alman				31.7	9500	70,000			
R. O. Lawson	9.4	2860	21,000	3.8	1360	5,000	8.3	2480	18,000
Total	19.3	5840	21,000	70.4	24,450	101,000	80.4	16,610	48,000

* Includes Annual Grazing

Progress Report on the Unit Test-Demonstration Farm
of C. A. Grainger, Union County

Crop Rotation

Field Numbers	Total Acres	Rotation Underway
1,2,3,5 & 13	4.75	Permanent Pasture
6, 10A, & 10B	9.0	Kudzu
7	.5	Orchard
7 and 8	2.9	Garden and truck
7	1.5	Soybeans
8	32.0	Grain and lespedeza 2 years, cotton 2 years.
8	.5	Lespedeza sericea
10	9.0	Corn and austrian winter peas
12	5.0	Grain and lespedeza 2 years row crops 2 years.
4,9,11, & 14	46.5	Woodlands
7	6.35	Homestead

Changes that Have Taken Place in Crop Rotation and
Livestock Management

Prior to entry into the program of test-demonstration in 1942, Mr. Grainger had just completed terracing his entire farm, had set out several acres of kudzu on eroded areas and had set up a very good strip rotation. For this reason very few, if any changes have been made since that time in the cropping system which he is following, and no areas have been taken out of cultivation due to their eroded condition. Mr. Grainger has noted a considerable improvement in his farm since 1942 and he attributes this to the rotation system which he has been following and to the various soil improving and fertilization practices which he has put into effect.

Accomplishments: The use of limestone and phosphate has increased the yields of all crops grown on the farm, the yield of lespedeza hay being increased approximately 30 percent.

Permanent pastures show great improvement both in the condition of the sod and in the amount of growth obtained as a result of treatment with limestone and superphosphate.

4,000 board feet of timber has been cut, trees being selected so as to improve the stand of timber. This same plan is followed each year in cutting fuelwood.

The acreage seeded annually to winter legumes has been increase about 500 percent.

Mr. Grainger estimates that the fertility of his soil has been increased about 25 percent due to the use of limestone and superphosphate and due to the rotation system which he is now following.

Improvements: The farm home has been painted. Two storage sheds have been repaired.

Future Developments: Paint has been purchased for painting the tenant house and garage.

The operator plans to continue to take advantage of the Production and Marketing Administration Program by obtaining such materials as limestone, superphosphate and winter legumes through the purchase order plan.

Acreages and Production of Specified Crops Grown on the
Unit Test-Demonstration Farm of C. A. Grainger, 1947

Crops Grown	Grown by family and hired Laborers		Grown by Sharecroppers	
	Acres	Production	Acres	Production
Cotton	--	---	16.0	7291 lbs. lint
Corn	--	---	13.0	350 bushels
Wheat	--	---	8.0	136 bushels
Oats & vetch	3.0	4.5 tons	--	---
Oats	3.0	150 bushels	--	---
Barley	5.0	170 bushels	--	---
Sorghum	1.0	2 tons	--	---
Lespedeza	4.0	3 tons hay	--	---
Lespedeza	14.0	Not harvested	--	---
Kudzu	5.0	Grazed	--	---
Kudzu	1.0	Not harvested	--	---
Orchard	1.0	Home use	--	---
Truck	5.0		--	---

Summary of Farm Business of C. A. Grainger, 1947

	Beginning Inventory Value	Closing Inventory Value
Land	\$ 3,000.00	\$ 3,000.00
Improvements	988.75	957.75
Horses and Mules	500.00	500.00
Cattle	170.00	150.00
Hogs	---	---
Poultry	56.00	40.50
Sheep, Goats, etc.	25.00	25.00
Crop, Feeds, etc.	708.80	1,470.00
Machinery and Tools	435.00	392.75
TOTALS	\$ 5,883.55	\$ 6,536.00

Farm Receipts		Farm Expenses	
Cotton and Cotton seed	\$ 2,148.05	Hired Labor	\$ 154.50
Other Crops	130.50	Crop Expense	711.61
Cattle and Hogs	72.00	Livestock and Poultry	200.86
Dairy Products	227.95	Automobile 2/3 of \$70.00	46.67
Poultry and Eggs	140.05	Truck, Tractor, Equipment	91.15
Miscellaneous Receipts	--	Miscellaneous	37.72
Share Croppers Expense	280.45	Share Croppers Receipts	1,074.02
Total Cash Receipts	<u>\$ 2,999.00</u>	Total Cash Expenses	<u>\$2,316.53</u>
Increase in Inventory (if any)	652.45	Decrease in Inventory (if any)	---
TOTAL RECEIPTS	\$ 3,651.45	TOTAL EXPENSES	\$ 2,316.53

Receipts minus expenses	\$ 1,334.92
Value of unpaid family labor other than that of operator, deduct	\$ 120.00
Farm income	\$ 1,214.92
Interest (4% on average of two inventories) Deduct.	\$ 248.39
Labor income*	\$ 966.53

*Labor income is what a farmer receives for his year's work above interest on his investment and all farm expenses, in addition to having a house to live in and farm products to use in the house.

A Comparison of Unit Test-Demonstration Farms of Union County, 1946

Item	(1)	(2)	(3)	(4)	(5)
Labor income, dollars	-181	2588	2486	854	2144
Receipts, dollars	18887	5254	4361	3885	6120
Expenses, dollars	17287	2211	1118	2798	3570
Farm income, dollars	1599	3043	2943	1087	2550
Farm income per \$100 invested, dollars	4	27	26	19	25
Receipts per \$100 invested, dollars	42	46	38	67	60
SIZE:					
Crop acres	550	50	70	58	66
Crop acres and open pasture	625	58	85	62	86
Total acres in farm	1600	144	377	118	210
Acres of crops	866	75	85	75	86
Investment	44508	11396	11142	5827	10149
Work animals	8.5	2.0	2.0	2.0	3.0
Man-work units, total	1893	353	435	392	400
Animal units, productive	144.8	17.4	2.5	2.9	11.3
PRODUCTIVITY:					
Crop yield index	93	114	138	85	106
Cash crop yield index	95	123	148	124	101
Lint cotton per acre, pounds	261	420	452	510	348
Yield corn per acre, bushels	13	25	20	19	25
Yield oats per acre, bushels	33	43	50	--	33
Yield wheat per acre, bushels	20	18	25	13	18
Yield hay per acre, tons	0.8	1.0	1.2	0.9	0.9
Yield sweet potatoes per acre, bu.	--	--	--	--	--
Dairy sales per cow, dollars	--	--	--	163	30
Income per sow, dollars	--	--	73	--	--
Egg income per hen, dollars	--	--	--	4.74	2.33
LABOR EFFICIENCY:					
Man-work units per man	124	254	93	163	106
Percent work done by sharecroppers	--	--	85	78	--
Horse-work units per horse	71	46	112	106	40
LAND EFFICIENCY:					
Percent of farm in cropland and open pasture	39	40	23	53	41
Acres of crops per cultivated acre	1.57	1.50	1.21	1.29	1.30
DIVERSITY:					
Percent of receipts from cotton	19	22	46	76	14
Percent of receipts from livestock	32	25	28	8	21
Acres of cropland per animal unit	3.8	2.9	28.0	20.0	5.8
Acres of open pasture per A. U. (cattle)	0.5	0.5	15.0	1.6	2.1
DISTRIBUTION OF PRODUCTIVE LIVESTOCK:					
Milk cows	5.0	6.0	1.0	2.0	5.0
Other dairy cattle	0	13.0	--	1.5	6.5
Beef cows	136.5	--	--	--	--
Other beef cattle	2.5	3.0	--	--	2.5
Brood sows	--	--	1.5	--	0.5
Other hogs	3.0	5.0	9.5	--	3.5
Hens	21	53	23	36	74
Other poultry	--	3	--	2	9

A Comparison of Unit Test-Demonstration Farms of Union County, 1946

Item	(6)	()	()	()	()
Labor income, dollars	2415				
Receipts, dollars	5835				
Expenses, dollars	3117				
Farm income, dollars	2718				
Farm income per \$100 invested, dollars	36				
Receipts per \$100 invested, dollars	77				
SIZE:					
Crop acres	71				
Crop acres and open pasture	83				
Total acres in farm	162				
Acres of crops	78				
Investment	7557				
Work animals	2.5				
Man-work units, total	684				
Animal units, productive	9.2				
PRODUCTIVITY:					
Crop yield index	139				
Cash crop yield index	135				
Lint cotton per acre, pounds	486				
Yield corn per acre, bushels	40				
Yield oats per acre, bushels	--				
Yield wheat per acre, bushels	16				
Yield hay per acre, tons	1.0				
Yield sweet potatoes per acre, bu.	--				
Dairy sales per cow, dollars	--				
Income per sow, dollars	--				
Egg income per hen, dollars	--				
LABOR EFFICIENCY:					
Man-work units per man	175				
Percent work done by sharecroppers	27				
Horse-work units per horse	144				
LAND EFFICIENCY:					
Percent of farm in cropland and open pasture	51				
Acres of crops per cultivated acre	1.10				
DIVERSITY:					
Percent of receipts from cotton	55				
Percent of receipts from livestock	14				
Acres of cropland per animal unit	7.7				
Acres of open pasture per A. U. (cattle)	1.9				
DISTRIBUTION OF PRODUCTIVE LIVESTOCK:					
Milk cows	3.5				
Other dairy cattle	4.5				
Beef cows	--				
Other beef cattle	--				
Brood sows	2.0				
Other hogs	10.5				
Hens	59				
Other poultry	6				

Farm Labor Program

The farm labor assistant worked with the farmers of Union County in an effort to assist them in making more efficient use of available labor and machinery, assisted in recruiting labor during peak seasons such as the peach harvesting season and assisted farmers in getting custom work done by other farmers owning farm machinery.

The fact that those farmers owning farm machinery have been willing to do custom work for their neighbors whenever possible has gone a long way toward helping to solve the labor shortage on a number of farms in Union County. Through educational publicity and personal visits the farm labor assistant has helped to coordinate this work by arranging for custom operators to move into those communities where they were most needed, and encouraging farmers in those communities to cooperate fully with the operators of this machinery.

Although during the peach harvesting season there was a surplus of farm labor in the county as a whole, the peach growers needed some help in locating workers to assist in their orchards and packing sheds. This was done through the help of the farm labor assistant who also assisted some of the laborers in finding work in orchards in adjoining counties.

189 seasonal workers and 5 year-round workers were placed on 11 farms of Union County. 75 workers were assisted in obtaining employment in other counties. It is estimated that at least 60 workers not regularly engaged in agriculture did some farm work during peak seasons as a result of educational publicity and efforts of the volunteer leaders.

Farmers have been encouraged throughout the year to make more efficient use of the equipment and labor which they have available on their own farms. By doing this they have been able to reduce the number of man days required to produce crops and livestock products. By improving their feeding programs through the use of improved pastures and annual grazing crops, livestock producers in the county have learned that less labor is required to care for their cattle.

The farm labor assistant and the county agent assisted farmers in obtaining the services of a crop dusting companies for dusting cotton and peaches. All of the farmers who made use of this service seemed to be well satisfied and are convinced that this service has made it possible for them to obtain increased yields. A commercial fertilizer company and crop dusting company conducted one demonstration in top dressing small grain by use of airplane. This demonstration was attended by approximately 300 farm people.



Airplane applying fertilizer as a top dressing to small grain at a demonstration conducted by a commercial fertilizer company and a crop dusting company. This demonstration was attended by approximately 300 farm people.

AGRICULTURAL ENGINEERING

Soil Conservation

Soil conservation work for the year was in cooperation with the Broad River Soil Conservation District and the Soil Conservation Service.

District Farm Plans: During the year 107 district farm plans have been prepared by the Soil Conservation Service technician working in the county. This brings to a total 373 farm plans in the county, with a total of 57,651 acres under agreement.

Terracing: There are two power terracing units operating in the county, by the County Soil Conservation Association. This year 645 acres were terraced by the outfits for 21 farmers. This brings to a total of 10,626 acres which have been terraced with power units for 317 farmers since the beginning of the power terracing program in 1936.

In addition to the above terracing program, 76 acres have been terraced on five farms by three farmer contractors using farm equipment.

Farm Drainage: Farmers are becoming more and more interested in improving bottomland by establishing drainage ditches. Information regarding blowing ditches with dynamite has been given throughout the year, this work being conducted in cooperation with the Soil Conservation technicians. During the year four farmers used dynamite in establishing ditches to drain 85 acres of land.

Soil Conservation Contest: 10 organized community groups including 187 farms are competing in the soil conservation contest sponsored by the Spartanburg Herald-Journal.

Essay Contest: The county agent cooperated in publishing the essay contest sponsored by the Soil Conservation District supervisors and the South Carolina Bankers Association, distributing a large number of bulletins dealing with soil conservation and showing motion pictures in several schools. 935 essays were written by students of Union County.

Educational Activities: During 1947 4 circular letters were issued, 45 informational news articles were published and 1,475 bulletins regarding soil conservation were distributed. 15 radio programs included information and recommendations regarding soil conservation programs. Soil conservation was discussed at 10 4-H club meetings and all club members were urged to take an active part in conserving and building up the soil on their farms. Some phase of soil conservation work was discussed in practically all meetings held by the agent during the year, and the program was also discussed with farmers when they called at the county agent's office for advice.

Summary of Soil Conservation Practices Established: 15 acres of kudzu were planted in 1947 making a total of 2,066 acres in the county. 83 acres were planted to sericea lespedeza making a total of 1,713 acres in the county. 47,000 loblolly seedlings were planted, 721 acres were terraced, 1,500 tons of lime and 780 tons of superphosphate were applied to farm land.

- Over 2,000 acres of kudzu are now doing a good job of controlling erosion on the farms of Union County. The two pictures below illustrate the use being made of kudzu.



Kudzu has stabilized erosion and is furnishing grazing on the farm of R. L. Young, R-2, Union, S. C.



Erosion of road banks has been stabilized by kudzu on this road near Kelly, Union County

SUMMARY OF EXTENSION EDUCATIONAL ACTIVITIES IN
CONNECTION WITH SOIL CONSERVATION DISTRICTS

1.	No. group conferences Extension and SCS technicians in county	<u>12</u>
	a. Attendance at these conferences	<u>30</u>
2.	No. community meetings with Soil Conservation District work	<u>12</u>
	a. Attendance at these meetings	<u>1035</u>
3.	No. field meetings	
	a. No. method demonstrations establishing practices	<u>0</u>
	1. Attendance	<u>0</u>
	b. No. meetings at demonstrations (observation)	<u>0</u>
	1. Attendance	<u>0</u>
4.	No. farms on which county agent assisted with soil conservation farm planning	<u>3</u>
5.	Informational material on soil conservation	
	a. No. informational circular letters	<u>4</u>
	b. No. informational news articles	<u>45</u>
	c. No. bulletins (soil conservation) distributed	<u>1475</u>
	d. No. radio programs (soil conservation)	<u>15</u>
6.	Soil conservation program with 4-H clubs	<u>10</u>
7.	No. contestants 4-H soil conservation contest	<u>0</u>
8.	No. demonstrations to establish farm drainage	<u>4</u>
	a. No. acres drained	<u>85</u>
9.	No. demonstrations maintenance drainage ditches	<u>0</u>
10.	No. demonstrations establish cover of summer or winter annuals or perennials for soil conservation	<u>2</u>
11.	No. method demonstrations farmer-built terraces	<u>0</u>
	a. Attendance	<u>0</u>
12.	No. method demonstrations terrace maintenance	<u>0</u>
	a. Attendance	<u>0</u>
13.	No. organized communities in county for soil conservation	<u>10</u>
	a. No. farms in these communities	<u>187</u>

Farm Buildings

Throughout the year the county agent gave assistance and advice to farmers regarding their building problems. Plans for constructing new buildings and making repairs were furnished upon request. 4 dairy barns, 4 hog houses, 2 poultry houses, 1 sweet potato curing house and 1 box type silo were built according to recommendations furnished by the county agent.

Rural Electrification

The Broad River Electric Cooperative is now expanding their lines in Union County in order to furnish electricity to a large number of families to whom electricity has not been available in the past.

Assistance was given one farmer in obtaining material and electricity for establishing an electrically heated hot bed. Farmers have been urged to use electricity in order to increase the efficiency of their farms.

Farm Machinery

More efficient use of farm machinery in the county has been advocated and custom work by farmers owning farm equipment has been encouraged. The supply of available farm machinery is very much below demand and as fast as it becomes available more and more farmers are mechanizing their farms. During the year one combine school and two tractor schools were held for the farmers of Union County

AGRONOMY

Agronomy work in 1947 consisted of demonstrations and educational work with the major agronomy projects.

Fertilizers

One county-wide meeting on fertilizer was held in the early part of the year. At this meeting the District Agent discussed fertilizers and their relations to the soil and crop production. The county agent discussed fertilizers and their relation to crop production at community meetings throughout the year.

The county agent assisted farmers with their fertilizer problems by recommending the kind and amount of fertilizer to be used on various crops and under various soil conditions. Twenty-four soil samples were taken from farms in Union County and sent to Clemson for analysis.

Farmers were encouraged through circular letters, news articles, meetings, radio programs and personal contacts to obtain superphosphate and limestone as grants-of-aid through the Production and Marketing Administration program and were given advice as to which crops those materials should be applied and the rate of application. During the year 780 tons of superphosphate and 1,500 tons of limestone were received by farmers of Union County under the Purchase Order Plan.

Cover Crops

Union County farmers were encouraged to use vetch, Dixie Wonder peas and Austrian winter peas as winter cover crops. Farmers were given instructions as to recommended practices in properly inoculating and seeding these crops. During 1947 farmers of Union County received through the Production and Marketing Administration, 14,823 pounds of vetch, 13,930 pounds of Dixie Wonder Peas and 37,275 pounds of Austrian winter peas to be planted as cover crops.

Cover Crops Demonstrations: Two demonstrations were conducted to show the yield of green matter obtained from Dixie Wonder Peas as compared with that obtained from the regular Austrian Winter Field Peas. The following results were obtained:

Name	Dixie Wonder Peas			Reg. Austrian Winter Peas		
	Acres	Cost	T. Gr. Matter	Acres	Cost	T. Gr. Matter
J. Ryan Jeter	4	\$45.60	22.4	1	\$12.20	3.28
F. P. Bogan	1.5	13.75	2.95	1.5	12.75	1.36
TOTALS	5.5	\$59.35	25.35	2.5	\$24.95	4.64
Average Per Acre		\$10.79	4.61		\$ 9.98	1.86

In both of these demonstrations both varieties of peas winter killed to some extent, but the Dixie Wonder peas apparently killed more than the regular Austrian Winter field peas. This was more than offset, however, by the extra amount of growth obtained by the Dixie Wonder peas.

The planting of kudzu and sericea lespedeza was encouraged. Union County farmers established 15 acres of kudzu and 83 acres of sericea lespedeza in 1947.

Cotton Production

Farmers have been encouraged to use better planting seed and to treat all cotton seed before planting. Farmers of the county obtained approximately ten tons of seed direct from the breeder for planting their 1947 crop. They have also been encouraged to increase their yields per acre of cotton through use of more fertilizers and better cultural practices. Information regarding the "Seven Steps to Profitable Cotton Production in South Carolina" has been made available through newspapers, circular letters and radio.

Five-Acre Cotton Improvement Demonstrations: Thirteen Union County farmers completed 5-Acre Cotton Improvement Demonstrations. A summary of these demonstrations follows:

Summary Results Five-Acre Cotton Improvement Demonstrations								
Name	Lbs.	Lbs.	Value	Cost	Net	Cost	Variety	
	Seed							Lint
R. S. Adams	8420	3370	\$1280.40	\$ 513.63	\$ 766.77	15.2¢	C 100 W	
W. G. Bishop	6580	2630	999.60	458.45	541.15	17.4¢	C 100 W	
C. B. Bankhead	7200	2880	1094.40	441.98	652.42	15.3¢	C 100 W	
H. E. Crocker	6850	2780	1052.40	445.37	607.03	16.1¢	Stonewilt	
J. F. Faucett	9085	3635	1381.20	504.51	876.69	13.9¢	D & PL	
John W. Faucett	9320	3730	1427.20	531.80	895.40	14.3¢	C 100 W	
N. W. Faucett	7375	2950	1121.00	466.79	654.21	16.2¢	C 100 W	
Harold Fowler	7885	3155	1198.80	496.96	701.84	15.8¢	C 100 W	
C. G. Garner	6550	2620	995.60	454.22	541.38	17.3¢	C 100 W	
Mobley L. Jeter	7610	3045	1157.00	495.37	661.63	16.3¢	Cleveland #5	
J. C. Mobley	7460	2975	1134.20	521.35	612.85	17.5¢	C 100 W	
E. W. Palmer	7035	2815	1069.60	498.79	570.81	17.7¢	Stonewilt #6	
L. H. Sanders	8735	3495	1328.00	481.36	846.64	13.8¢	C 100 W	
TOTALS	100105	40080	\$15239.40	\$6310.58	\$8928.82			
AVERAGE YIELD LINT PER ACRE POUNDS							616.7	
AVERAGE VALUE PER ACRE							\$.234.45	
AVERAGE COST PER POUND OF LINT							15.7¢	

Summary Cotton Demonstration Records, 1938 - 1947: Following is a yearly summary of the results of the five-acre cotton contest demonstrations in Union County for the period 1938-1947:

Summary Results of Cotton Contest Demonstrations, 1938-1947					
Year	Number Demons.	Lbs. Lint Per Acre	Value Per Acre	Cost Per Acre	Profit Per Acre
1938	12	506	\$ 61.74	\$ 27.24	\$ 34.50
1939	16	415	46.60	22.82	23.96
1940	12	583	66.39	25.94	40.45
1941	4	300	65.78	31.41	34.37
1942					
1943	4	452	105.85	41.64	64.21
1944					
1945	10	863	229.78	76.99	152.79
1946	17	673.7	279.58	83.71	195.87
1947	13	616.6	234.45	97.08	137.37

Corn Production

During 1947 efforts to increase the yield of corn in Union County were continued. Farmers were encouraged to plant improved seed, use green manure crops, make liberal applications of commercial fertilizers and space their corn closer.

Hybrid Corn: Farmers of Union County have not yet found a variety of hybrid corn which seems to meet the needs of all sections of the county. They have been planting small acreages to various varieties in order to test them. Of all hybrid varieties planted in the county most farmers seem to like Tennessee #10 best.

Three farmers cooperated with the County Agent in conducting hybrid corn demonstrations in which local varieties were used as checks. Summaries of these demonstrations follows:

1. Summary of Hybrid Corn Demonstration -- Farm of J. B. Stone

Variety	Yield Bu. Per Acre	Cost Per Acre	Cost Per Bu.	Value Per A.	Profit Per Acre
Funk's G-714	39.5	\$39.77	\$1.01	\$ 79.00	\$ 39.23
Local	20.2	37.71	1.82	40.20	2.49
<hr/>					
Difference In Favor of Hybrid	19.3		.81	\$ 38.80	\$ 36.74

The ears of Funk's G-714 were fairly well covered by the shucks and showed little or no weevil damage in the field. The stalks showed a tendency toward being weak and some of them were down.

2. Summary of Hybrid Corn Demonstration -- Farm of B. B. Vanderford

Variety	Yield Bu. Per Acre	Cost Per Acre	Cost Per Bu.	Value Per Acre	Profit Per Acre
Woods S-315	46	\$ 41.35	\$.90	\$ 92.00	\$ 50.65
Local	31	40.40	1.30	62.00	21.60
<hr/>					
Difference in Favor of Hybrid	15		\$.40	\$ 30.00	\$ 29.05

3. Summary of Hybrid Corn Demonstration -- Farm of J. R. Jeter

Variety	Yield Bu. Per Acre	Cost Per Acre	Cost Per Bu.	Value Per Acre	Profit Per Acre
Woods V-45	38.2	\$ 39.40	\$ 1.03	\$ 76.40	\$ 37.00
Local	33.2	38.45	1.16	66.40	27.95
<hr/>					
Difference in Favor of Hybrid	5		\$.13	\$ 10.00	\$ 9.05

In the three demonstrations summarized above the hybrid varieties showed a definite advantage over the local open-pollinated varieties in yield per acre, value per acre, and profit per acre. The three hybrid varieties produced an average yield of 37.9 bushels per acre while the local varieties produced an average yield of 28.1 bushels -- an increase of 9.8 bushels per acre.

One farmer conducted a demonstration in order to compare two varieties of hybrid corn. In this demonstration no open-pollinated variety was used as a check. A summary of this demonstration follows:

Summary Hybrid Corn Demonstration

Variety	Acres	Yield	Cost	Cost Per Bu.	Value	Profit
Funk's G-717	1	27	\$51.26	\$1.90	\$54.00	\$ 2.74
Funk's G-714	1	26	51.26	1.97	52.00	.74

This demonstration was heavily fertilized, but the dry weather cut the production per acre to a point where the cost was practically the same as the value.

Corn Production Demonstrations: Thirteen 3-acre corn production demonstrations were conducted by adult farmers and 4-H club members. These demonstrations were divided into two groups -- bottomland corn and upland corn. A summary of these demonstrations follows:

1. Corn Production Demonstrations -- Bottomland

Name	Variety	Acres	Yield Bus.	Yield Per A.	Yield Bu Cost	Cost Per Bu.	Value	Profit
Wallace Wilson	Tenn.#10	3	283.5	94.5	\$173.37	\$0.60	\$567.00	\$393.63
C. B. Bankhead	Tenn.#10	3	183.0	61.0	101.05	0.55	366.00	264.95
B. B. Vanderford	Local	3	109.2	36.4	95.50	0.87	218.50	122.90
Y. E. Holcomb	Tenn. Red Cob	3	84.0	28.0	93.14	1.11	168.00	74.86
TOTALS		12	659.7		\$463.06		\$1319.40	\$856.34
Average per Acre				55.0	38.59	.70	109.95	71.36

2. Corn Production Demonstrations -- Upland

Name	Variety	Acres	Yield Bus.	Yield Per A.	Yield Bu Cost	Cost Per Bu.	Value	Profit
Wallace Wilson, Jr.	Tenn.#10	3	181.8	60.6	\$146.08	\$0.80	\$363.60	\$217.52
N. W. Faucett	Douthits P.	3	165.0	55.0	109.63	.66	333.00	223.37
J. R. Jeter	Local	3	123.6	41.2	115.35	.93	247.20	131.85
Y. E. Holcomb	Tenn. RC	3	117.9	39.3	107.80	.91	235.80	128.00
Joe Wilson	Tenn.#10	3	117.0	39.0	126.60	1.08	234.00	107.40
R. S. Adams	Local	3	109.5	36.5	106.12	.97	219.00	112.88
Billy J. Bailes	Woods GD	3	103.2	34.4	90.95	.88	206.40	115.45
C. A. Grainger	Local	3	96.0	32.0	162.15	1.69	192.00	29.85
Marion Williams	Dallis RC	3	60.3	20.1	99.55	1.65	120.60	21.05
TOTALS		27	1074.3		\$1064.23		\$2151.60	\$1087.37
Average per Acre				39.8	39.42	.99	79.69	40.27
						per bu.		

Grain Sorghum

In an effort to familiarize Union County farmers with the low-growing or dwarf type of grain sorghum, demonstrations were conducted, using three different varieties. A summary of these demonstrations follows:

Summary Grain Sorghum Demonstrations, 1947

Name	Acres	Yield Pounds	Yield Per Acre Lbs.	Value	Cost	Profit	Variety
J. B. Stone	1.0	1,900	1,900	\$61.75	\$36.85	\$24.90	Martin's Com. Milo Dwarf
J. B. Stone John and Billy Joe Bailes	1.0	1,600	1,600	52.00	36.85	15.15	Hegari
Billy Joe Bailes	2.5	5,625	2,250	182.81	104.40	78.41	Plainsman
Totals	4.5	9,125		\$296.56	\$178.10	\$118.46	
Average Per Acre			2,028	65.90	39.58	26.32	



Field of grain sorghum grown by John and Billy Joe Bailes, 4-H club members of Union County.

Small Grains

An increase in the acreage and the per acre yields of small grains in Union County has been encouraged in order to produce an ample supply of feed for the increased number of livestock in the county. By seeding small grains farmers can take advantage of the fact that the moisture content of the soil is greater during the growing season than it is during the growing season of corn.

Oats Production: One demonstration in the production of oats was completed. A summary of this demonstration follows:

Summary of Oats Demonstration -- Variety - Fullgrain							
Farmer	Acres	Total Yield	Bus. Per Acre	Cost	Cost Per Bu.	Value	Profit
B. B. Vanderford	4	160	40	\$115.36	72¢	\$160.00	\$ 44.64
COST PER ACRE				\$ 28.84			
VALUE PER ACRE				40.00			
PROFIT PER ACRE				11.16			

Barley Production: One demonstration in the production of barley was completed during 1947. A summary of this demonstration follows:

Summary of Barley Demonstration Conducted by Sam Hawkins							
Variety	Acres	Total Yield	Bus. Per Acre	Cost	Cost Per Bu.	Value	Profit
Marett's	8	320	40	\$193.15	60¢	\$ 480.00	\$286.85
COST PER ACRE				\$ 24.16			
VALUE PER ACRE				60.00			
PROFIT PER ACRE				35.84			

Wheat Production: Two demonstrations in wheat production were completed during 1947. A summary of these demonstrations follows:

Summary of Wheat Production Demonstrations								
Farmer	Variety	Acres	Total Yield	Bus. Per Acre	Cost	Cost Per Bushel	Value	Profit
B. B. Vanderford	Red Hart	5	145	29	\$153.18	\$1.06	\$362.50	\$209.32
R. O. Lawson	Unknown	3	60	20	74.36	1.24	150.00	75.64
TOTALS		8	205		\$327.54		\$512.50	\$284.96
Average per Acre				26.4	40.94		64.06	35.62

Legumes for Hay

Cowpeas for Hay: One demonstration in the production of cowpea hay was completed. A summary of this demonstration follows:

Summary of Cowpea Hay Demonstration Conducted by R. O. Lawson

Acres	Yields	Tons	Cost		Value	Profit	Profit
	Tons	Per Acre	Cost	Per Ton			Per Ton
1	2	2	\$36.27	\$18.13½	\$60.00	\$23.73	\$11.86

Soybeans for Hay: One demonstration in the production of soybean hay was completed. A summary of this demonstration follows:

Summary of Soybean Hay Demonstration Conducted by R. O. Lawson

Acres	Yields	Tons	Cost		Value	Profit	Profit
	Tons	Per Acre	Cost	Per Ton			Per Acre
2.5	3.75	1.5	\$92.15	\$24.57	\$112.50	\$20.35	\$8.14

Annual Grazing Crops

Annual Grazing Crops: All farmers have been urged to make maximum use of annual grazing crops, both winter and summer, in order to supplement their permanent pastures and reduce the feed cost. A larger acreage is now being used for annual grazing than ever before in Union County.

Winter Grazing: Two beef cattle farmers conducted 3 winter grazing demonstrations. A summary of these follows:

Summary Winter Grazing Demonstration

Name	Acres	Crop or	Cost		Remarks
		Crop Mixture	Cost	Per A.	
J. B. Stone	3	Barley, oats Rye grass, crimson clover	\$58.40	\$19.47	Started grazing Nov. 7, 1946 Cattle were rotated between this plot and another grazing plot. Grazing ended April 28, 1947. Animal units of grazing - 1200. Acreage to be increased in fall of 1947.
J. B. Stone	4	Barley, oats	\$72.80	\$18.20	Approximately 1100 animal units days of grazing until April 3, 1947. 35 bu. per acre of mixture of oats and barley combined.

Summary of Winter Grazing Demonstrations - continued

Name	Acres	Crop or Mixture	Cost	Cost Per A.	Remarks
A. G. Kennedy	4	Oats, barley Crimson Clover	\$222.40	\$55.60	This plot furnished an abundance of grazing for up to 30 head of yearling steers and heifers. Cattle were rotated from this plot to other grazing. Grazing started Nov. 5, 1946 and continued intermittently until late spring of 1947. Estimated 1200 animal units of grazing.



Beef cattle grazing on Mixture of Barley, Oats Rye grass and Crimson Clover on the farm of J. B. Stone, located in the Kelly Community. This was one of the grazing demonstrations summarized above.

Summer Grazing: Dairymen have been urged to plant such crops as Pearl millet and sweet sudan grass as a supplement to permanent pastures during the summer when we frequently have extended periods of dry weather which deplete the soil moisture and greatly reduce the amount of grazing available in permanent pastures. Most of the dairymen are now seeding some acreage to these summer grazing crops. One demonstration in the use of pearl millet was conducted. A summary of this demonstration follows:

Summary of Millet Grazing Demonstration

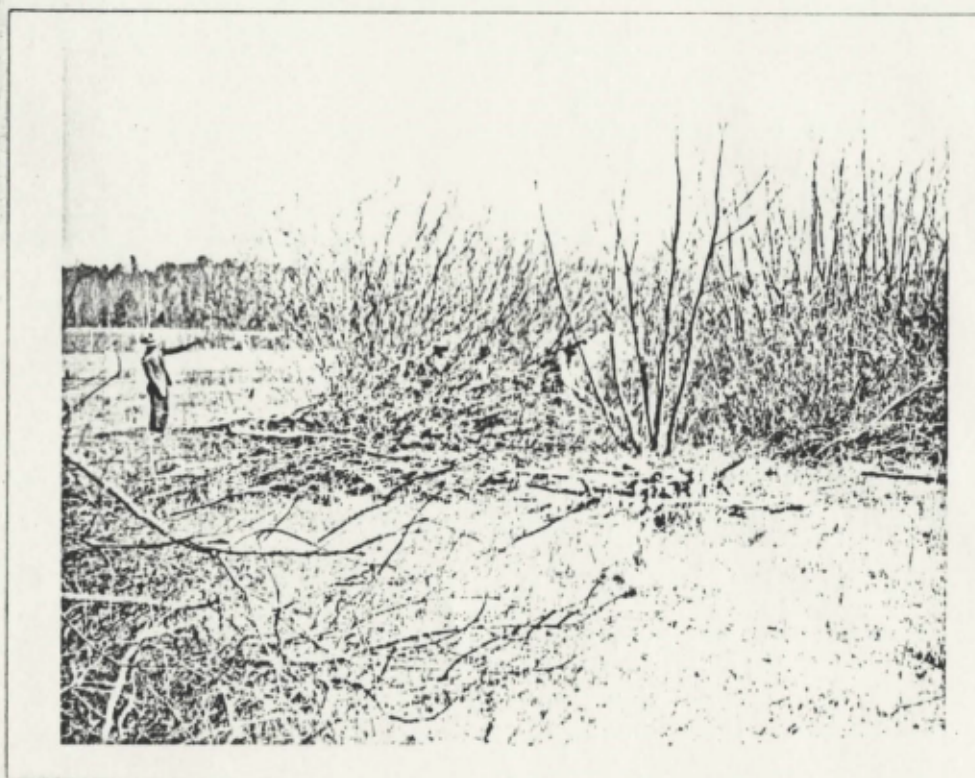
<u>Name</u>	<u>Agres</u>	<u>Cost</u>	<u>Remarks</u>
R. O. Lawson	2	\$39.10	10 cows were grazed 1 hour per day after milking, five days per week from first week in June until August 10th. Farmer states this grazing contributed greatly to high milk production during this period.

Tall Meadow Fescue: Until the fall of 1947 tall meadow fescue had not been planted in Union County. Several farmers have become interested in this crop for grazing both dairy and beef cattle and during the late summer of 1947 the county agent assisted seven farmers in obtaining seed of the Kentucky #31 and Alta varieties. Most of these farmers are planting only a small acreage in order that they may determine whether or not this crop will be suitable for their farms in a larger acreage.

Permanent Pastures

There is a great need in Union County for improving permanent pastures and in establishing new pastures. Throughout 1947 farmers were encouraged to clear bottomland and seed it to pasture grasses and legumes, and to improve the pastures already established by the use of ground limestone and fertilizer and the addition of seed where the pasture mixture was not complete. Farmers were urged to take advantage of the agricultural conservation program by securing limestone and superphosphate to be applied to their pastures.

Pasture Demonstration: In the spring of 1947 one permanent pasture demonstration was started on the farm of Pinckney Berry of Union. This demonstration was divided into four plots, varying amounts of limestone and fertilizers being applied to three of the plots and the other plot being left untreated as a check. The following observation sheet shows the results obtained on this demonstration.



Clearing bottomland in preparation of seeding permanent pasture mixture on the farm of Pinckney Berry of Union. In Union County there are large acreages of fertile bottomlands such as shown above which have grown up in willows, alders, etc., and are bring in no income for the farmers.

OBSERVATIONS: PASTURE DEMONSTRATION

County Union Farm Pinckney Berry Location 3 mi. South Union
 Soil Type Congaree Silt Loam Upland or Bottomland Bottomland Date Established February, 1947
 Date Checked 9 / 4 / 47 Observer W. J. Martin Other Observers S. A. Redfern
 E: 90-100 VG: 80-90 G: 70-80 S: 60-70 P: 40-60 F: Failure - None

Plot No.	Treatment	Grasses				Legumes						Condition			Average rating
		Bermuda	Dallis	Blue		Av.	Lespe- deza	S. Clover	Ladino	Hop	Av.	Vigor	Free weeds	Av.	
1	1 T. Lime 600 # superphos 200 # M. Pot. 32 # Nitrate	VG	G	S		G	VG	G	P	G	G	VG	E	VG	G
///															
2	1 T. Lime 600 # superphos 200 # M. Pot. 500 # Slag 32 # N.	VG	G	S		G	E	VG	P	G	VG	E	E	E	VG
///															
3	1 T. Lime 600 # Superphos 200 # M. Pot.	VG	G	S		G	G	G	P	G	G	G	E	VG	G
4	Check	VG	S	P		S	S	S		S	S	G	E	VG	S
7															
8															
9															
10															

Remarks: This demonstration shows outstanding response to treatments for the first season and is an excellent pasture. Sod is much more dense on plots 1 and 2. Stand of lespedeza and white clover is thicker and more vigorous on plot 2 than on other plots. Has been noted throughout the season that grazing was much heavier on treated plots. Grass on check plot now tall but well grazed on treated areas.

ANIMAL HUSBANDRY

Animal husbandry work in Union County in 1947 included educational work with farmers raising swine and beef cattle.

Swine: The production of pork for use on the farm was encouraged and information distributed regarding feeding practices and conservation of pork products. Information and advice was given regarding the control of diseases and insects and regarding recommended sanitary practices. The use of purebred boars and purebred or high-grade gilts was encouraged. The interest in better quality swine has increase considerably among both adult farmers and 4-H Club members.

Purebred Sires: The following table shows the purebred sires placed with adult farmers and 4-H Club members in 1947.

Record of Purebred Boars Placed in 1947

Name	No. Boars	Breed	Age	Price
<u>Farmers</u>				
Mobley Jeter	1	Poland China	8 wks	\$ 25.00
Jack Thompson	1	Poland China	8 wks	25.00
W. D. Palmer	1	Poland China	8 wks	25.00
James Knox	1	Poland China	8 wks	25.00
J. F. Orr	1	Poland China	11 wks	50.00
<u>4-H Club Boys</u>				
Billy Joe Bailes	1	Poland China	8 wks	25.00
Carson DeBruhl	1	Poland China	8 wks	25.00
Wallace Wilson, Jr.	1	Poland China	6 mos.	75.00
TOTAL PLACED	8			\$ 275.00

Purebred Gilts: A record of the purebred gilts placed with farmers and 4-H Club members follows:

Summary Purebred Gilts Placed in 1947

Name	No. Gilts	Breed	Age	Price
<u>Farmers</u>				
Gene Dent	3	Poland China	11 mos.	\$ 260.00
Mobley Jeter	2	Poland China	8 wks.	50.00
Sam Parks	1	Poland China	8 wks.	25.00
Charlie Thompson	1	Poland China	8 wks.	25.00
Jim Jeter	1	Poland China	8 wks.	25.00
Clyde O'Dell	1	Poland China	8 wks.	25.00
C. S. Ivey	1	Poland China	8 wks.	25.00
R. B. Adams	1	Poland China	8 wks.	25.00
B. F. Nance	1	Poland China	8 wks.	25.00
B. C. Ivey	1	Poland China	11 wks.	50.00
David Jeter	1	Poland China	11 wks.	50.00

Summary Purebred Gilts Placed (continued)

Name	No. Gilts	Breed	Age	Price
<u>4-H Club Boys</u>				
Allen Little	1	Poland China	8 wks	\$ 20.00
Billy Joe Bailes	2	Poland China	8 wks	70.00
Jimmy Bailes	1	Poland China	8 wks	35.00
Marvin White	1	Poland China	8 wks	35.00
TOTAL PLACED	19			\$745.00

Beef Cattle

The farmers of Union County are continuing to make progress in improving the quality of their cattle. The county agent has worked with these farmers throughout the year advising with them on various problems, including feeding and marketing. The use of improved permanent pastures and annual grazing crops has been advocated, and even tho the weather conditions have been unfavorable during the fall a large number of excellent grazing plots were seeded. Annual grazing demonstrations are reported under Agronomy.

Twelve Union County farmers participated in a tour of several beef cattle farms in adjoining counties for the purpose of observing annual grazing crops being used. Several of these farmers expressed their interest in using grazing crops and it is believed that this tour has increase the number of acres planted for winter grazing in Union County this fall.

Farmers are being encouraged to make maximum use of lime and fertilizer in improving their pastures and are also being encouraged to add desirable grasses and legumes to their pastures where necessary.

Purebred Cattle: A record of the purebred cattle placed with Union County farmers during 1947 follows:

Summary Beef Cattle Placed with Farmers, 1947

Name	No. Placed	Sex	Breed	Price
Bruce White	1	Male	Aberdeen-Angus	\$ 375.00
Bruce White	9	Female	Aberdeen-Angus	1800.00
J. B. Stone	4	Female	Hereford	500.00
Hugh Jeter	1	Male	Hereford	300.00
TOTAL PLACED	15			\$ 2975.00

DAIRYING

Extension work in dairying in 1947 included educational activities in the placing of purebred sires, use of annual grazing crops, permanent pastures, construction of dairy buildings and use of dairy equipment, marketing, milk production for family use and parasite control.

Purebred Sires: Three purebred Guernsey bulls were purchased for use in the County Bull Program. Assistance was given in placing one purebred Guernsey and two purebred Jersey bulls with farmers of the county. Approximately 30 purebred dairy bulls are now in use in the county and are so located that one is available to every farm. A summary of the purebred bulls placed in Union County in 1947 follows: -

Summary Purebred Bulls Placed in 1947

Name	No. Place	Breed	Price
<u>Farmers</u>			
Bob Bogan	1	Jersey	\$ 25.00
M. C. Page	1	Guernsey	35.00
Union County	3	Guernsey	375.00
<u>4-H Club Member</u>			
Montague Hopkins	1	Jersey	35.00
TOTAL PLACED	6		\$ 470.00

Purebred Cows and Heifers: Farmers and 4-H Club members were assisted in obtaining purebred cows and heifers and were also assisted in completing and keeping their registration papers up to date. A summary of the placing of purebred cows and heifers follows:

Summary Purebred Cows and Heifers Placed, 1947

Name	No. Placed	Breed	Price
<u>Farmers</u>			
R. O. Lawson	1	Guernsey	\$ 75.00
Jordan Brothers	1	Guernsey	230.00
M. C. Page	1	Guernsey	150.00
<u>4-H Club Members</u>			
Montague Hopkins	2	Jersey	100.00
Floyd Lunsford	1	Jersey	75.00
Billy Joe Bailes	1	Guernsey	150.00
Nancy Aycock	1	Guernsey	150.00
John Bailes	1	Guernsey	85.00
Marion Williams	1	Guernsey	155.00
Reid Palmer	1	Guernsey	190.00
TOTAL PLACED	11		\$1360.00

Feeding Program: Commercial dairymen, 4-H Club members and owners of family milk cows were encouraged to make maximum use of annual grazing crops and to improve their permanent pastures through the use of lime and commercial fertilizers, planting additional seed where necessary and eradication of weeds. The importance of the production of quality roughages was stressed. A summary of the annual grazing demonstrations is listed under Agronomy.

Dairy Buildings: Advice and assistance were given dairymen who were in need of additional buildings. During the year four grade A type dairy barns, 1 heifer barn, 1 milk room, and 1 box type silo were constructed by dairy farmers.

Marketing

Dairy Cattle: Farmers were given advice during the year in marketing family milk cows. Five farmers were assisted in marketing 14 dairy cattle at a value of \$1,527.00.

Milk: At present there is no problem of obtaining a local market for all the Grade A milk produced in Union County. A few farmers have increased their herds and improved their equipment during 1947 and are now selling Grade A milk for the first time.

4-H Dairy Calf Club Work

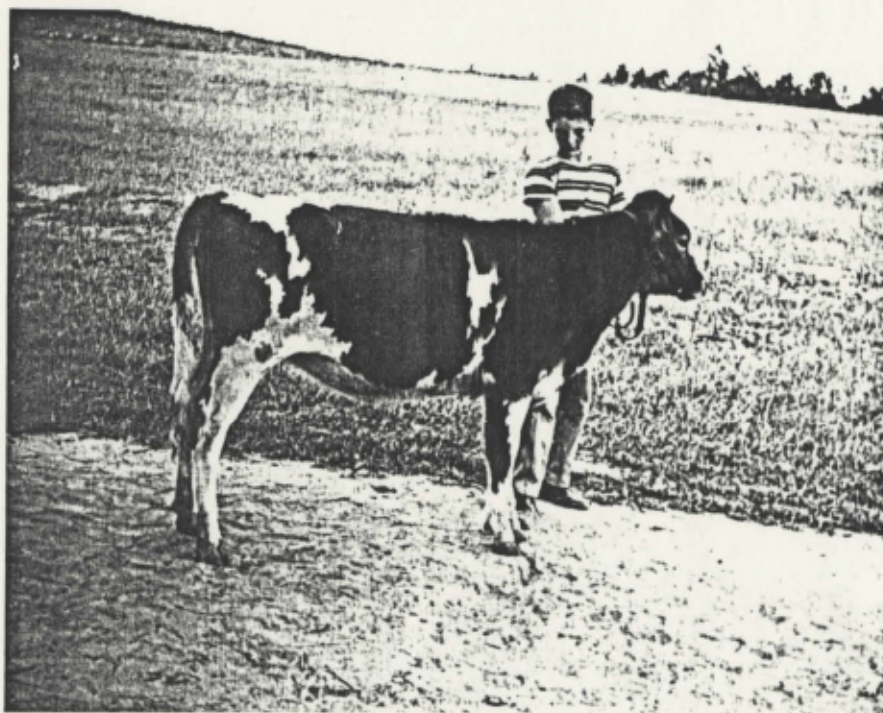
Dairy Calf Club work was stressed during 1947. Seven members were assisted in obtaining eight registered dairy heifers. Eighteen club members now own one or more registered animals. A summary of the dairy calf club demonstrations completed are given below: -

Summary Dairy Calf Club Demonstrations, 1947

Name	Number Animals	Value	Cost	Profit
Nancy Aycock	1	\$ 211.00	\$ 162.05	\$ 48.95
Billy Joe Bailes	1	263.75	203.88	59.87
John Bailes	1	170.00	117.30	52.70
Mack Cunningham	1	75.00	45.20	29.80
Richard Dawkins	1	330.30	164.60	165.70
Weldon Eaves	2	455.50	312.50	143.00
Kedrick Garner	1	35.00	30.00	5.00
Kenneth Garrett	1	30.00	43.00	13.00 (loss)
George S. Glenn, Jr.	2	340.00	234.65	105.35
Montague Hopkins	2	218.00	166.00	52.00
Donald Lancaster	2	210.00	185.00	25.00
Emslie Lawson	1	50.00	43.00	7.00
Ernest Little	1	75.00	33.00	42.00
Floyd Lunsford	1	148.00	111.50	36.50
Connie Miller	1	75.00	58.00	17.00
John C. Morris	2	640.50	369.30	271.20
Broadus Nance, Jr.	1	100.00	71.50	28.50

Summary Dairy Calf Club Demonstrations (continued)

Name	Number Animals	Value	Cost	Profit
Reid Palmer	1	\$ 210.00	\$ 194.25	\$ 45.75
Douglas Parkins	1	60.00	45.00	15.00
George Ponder	1	213.50	137.10	76.40
Lewis Scott	1	200.00	184.50	15.50
William Sealy	1	30.00	17.50	12.50
Gerald Stevens	1	35.00	16.65	18.35
Joe Tucker	1	14.00	10.65	3.35
J. D. Turner, Jr.	1	280.00	243.50	36.50
Marions Williams	2	325.00	257.75	67.25
Arthur Willard	1	65.00	44.00	21.00
John Wilson	1	40.00	45.00	5.00 (loss)
Lamar Horne	4	1654.75	881.72	773.03
Ralph Childers	1	426.80	224.00	202.80
Billy Gee Farr	1	40.00	31.00	9.00
<hr/>				
TOTAL	40	\$7,051.10	\$ 4,683.10	\$2,368.00
Average Per Animal		176.28	117.08	59.20



Billy Joe Bailes, member of the Union Co. 4-H Dairy Calf Club trains his Guernsey Senior calf in preparation for exhibiting at the Union County Fair and Piedmont Interstate Fair. Billy Joe won first in fitting and showing at the Union Co. Fair, in competition with 12 other club members.

Exhibits: Eighteen dairy calf club animals were shown at the Union County Fair by 13 club members where they competed in the 4-H Calf Club Show sponsored by the Arthur State Bank and the junior and open classes sponsored by the fair association. Prizes amounted to \$296.50. Four animals were exhibited at the Piedmont Interstate Fair at Spartanburg winning \$8.00 in prizes.

ENTOMOLOGY AND PLANT PATHOLOGY

Extension work in entomology and plant pathology in 1947 consisted primarily of giving timely information and advice regarding the control of various insects and diseases.

Boll Weevil: Boll weevil damage in Union County during 1947 was quite severe even tho farmers probably used more poison than in any previous year. The county agent made weekly checks of cotton fields in different sections of the county in order to determine the infestation and kept farm people advised as to the damage being done. Farmers were encouraged to use poison and to pick up squares in an effort to control the weevil. Through the efforts of the farm labor assistant, approximately 750 acres of cotton were dusted by airplane using BHC - DDT.

A large number of farmers have stated that poisoning during 1947 meant the difference between suffering a loss on their cotton crop and in making a fair profit. In order to get a rather close estimate as to the benefits gained from poisoning, two farmers were asked to fill out questionnaires, a summary of which follows:

Summary of questionnaires on Boll Weevil Poisoning					
Name Of Farmer	No. Of Applications	Kind of Poison	Amount	Cost Per Acre P (Material)	Est. Increase Per. A. Lint
Foster Mobley	2	BHC-DDT	10 lbs.	\$5.00	250
	3	1-1-1	3½ gals.	2.40	
Mobley Jeter	1	BHC-DDT	10 lbs.	2.50	409
	2	1-1-1	4 gals.	2.60	

Garden Insects: During 1947 farmers were encouraged to make every possible attempt to control garden insects in order to increase the production of vegetables for home use and for market. Timely information regarding the use of various insecticides was distributed. A number of farmers called at the county agent's office throughout the year to discuss their problems and to obtain information.

Weevil Control in Grain: Farmers were advised to fumigate stored grain on the farm in order to reduce weevil damage. This practice is being followed by more and more farmers each year.

Seed Treatment: Most of the farmers of Union County are now following Extension Service recommendations in treating cotton seed before planting, and a rapidly increasing number are treating all grain seed before planting. This practice has been encouraged through the year and information distributed at the proper season.

Fruit Insects and Diseases: Commercial peach growers of the county have come to realize that if they are to raise quality peaches which they can sell for a high price they must control insects and diseases. As a result of this realization they are now following more closely than ever before the extension recommendations regarding spraying schedules and other practices of control of insects and diseases. During the spring of 1947 29,000 oriental fruit moth parasites were obtained by eight peach growers and released in their orchards.

As a result of control measures taken by peach growers of the county a high quality crop of peaches which was relatively free of insects and disease damage was produced in 1947.

Chinch Bug: Farmers have been advised to plan their crop rotations in order to better control chinch bugs. One demonstration in controlling chinch bugs through the use of sabadilla dust was conducted with excellent results. In a corn field which was planted adjoining a field of wheat, chinch bugs were spreading from the wheat field to the corn and was on the first four rows of corn when sabadilla was applied. Three applications applied within a 6-day period completely eliminated the chinch bugs.

Aphids on Shade Trees: During the summer a large number of shade trees became very badly infested with aphids and through the efforts of the county agent the services of the Carolina Tree Service were obtained for spraying these trees with nicotine sulphate. This work was done on 11 lawns in the city of Union with excellent results.

Livestock Parasites: Farmers have been urged to take all possible steps to control both internal and external parasites of livestock. An increased number of farmers are now following the practice of dusting and spraying cattle in an effort to control cattle lice and warbles.

FORESTRY

Forestry extension work in 1947 included woodland examinations and marking, tree planting, 4-H club work, and advice in fire prevention, forest insects and marketing.

Woodland Examinations: Farmers were encouraged to follow cutting practices which would enable them to improve their stand of timber rather than cutting all the trees or a large number of them and damaging the others which practice has been followed to some extent in the past. They are encouraged to take advantage of the services offered by the Extension Service and State Commission of Forestry and have their timber examined by a competent forester and to follow his recommendations. 1,595 acres were examined for seven farmers and 600 acres were marked for selective cutting. A summary of the woodland examinations in Union County follows:

Summary Woodland Examination and Marking			
Landowner	No. Acres Examined	No. Acres Marked	No. Bd. Ft. Marked
Mobley L. Jeter		200	261,610
A. P. Bogan		30	43,220
John M. Little, Jr.	300	225	290,860
Mrs. J. M. Harrison	65	30	43,720
B. F. Adams	145		
W. M. Scaife	300		
M. T. & J. R. Jeter	110	40	122,170
William Coleman	500		
Lewis P. Hopkins	175	75	92,500
TOTALS	9 farmers 1,595	600	854,080

Tree Planting: During the 1946-47 planting season 47,000 loblolly pine seedlings were planted by farmers of Union County. A summary of these plantings follows:

Summary Planting of Loblolly Pine Seedlings		
Name	Address	Number Seedlings
W. N. Beaty	Union	3,000
Mary L. K. Berry	Union	5,000
Alice V. Brewington	Union	2,000
G. Berry Dawkins	Santuck	2,000
C. C. Fowler	Jonesville	5,000
W. J. Jones	Union	5,000
Mrs. T. A. Littlejohn	Jonesville	5,000
G. A. O'Shields	Union	5,000
Sam Parks	Union	5,000
Fred Smith	Union	5,000
Earl C. Teague	Union	5,000
TOTALS	11 farmers	47,000

During the summer and fall 19 farmers placed orders through the county agent's office for 129,000 loblolly seedlings to be planted during the 1947-48 planting season. All farmers have been encouraged to use more care in setting out seedlings in order to obtain a better survival.

4-H Club Work: Forestry instructions were given to 95 Union County 4-H Club members who attended the annual 4-H Club Camp. Instructions were also given to four members attending the State 4-H Conservation Camp. Improved forestry practices were discussed at one or more meeting at each of the 4-H Clubs in the county. Club members were encouraged to take more interest in the woodlands on their home farms and take definite steps to protect them from damage by fire.

On Arbor Day the Santuc Community 4-H Club conducted an Arbor Day program which was attended by 53 pupils. At the close of this program a cork oak seedling was set out on the school grounds.

Fire Pprevention: The public was encouraged to take steps in preventing forest fires and to extinguish any fires that might occur accidentally. During Fire Prevention Week 2 circular letters, 4 news articles, 1 paid news paper advertisement and 1 radio program were prepared, all dealing with the elimination of fire hazards and prevention of fires in general. Book markers urging the prevention of forest fires were distributed to 4-H club members.

General: Throughout the year the county agent has conferred with farmer's regarding their forestry problems and giving whatever suggestions and assistance he could in solving them. Up-to-date lists of saw mills operating in the county and pulpwood buyers are kept available at the county agent's office and furnished to farmers upon request.

FOUR - H CLUB WORK

Boys' 4-H club work during 1947 was conducted with twelve organized boys' 4-H clubs with an enrollment of 201. Regular meetings were held with each club.

Summary of Enrollment and Completions: Following is given a summary of enrollment and completions by clubs:

Summary 4-H Club Enrollment and Completions				
Name of Club	Number	Members Completing		Percent of Members Completing Demons.
	Enrolled	Number	Completions	
Coleraine	6	3	4	50
Cross Keys	11	10	12	91
Kelly-Pinckney	13	9	9	69
Jonesville Grammar	21	18	20	86
Jonesville High	13	10	10	77
Lockhart Junior	33	9	9	27
Lockhart Senior	22	4	4	18
Santuck	11	10	11	91
Union High Junior	25	8	15	32
Union High Senior	18	10	10	56
West Springs Junior	8	5	5	63
West Springs Senior	10	6	6	60
Miscellaneous	10	5	8	50
TOTALS	201	106	126	Average 53

Following is given a summary of 4-H club enrollment of boys and yearly completions from 1938 through 1947:

Summary 4-H Club Enrollment and Completions, 1938-1947			
Year	Demonstrations Enrollment	Number Demonstrations Completions	Percentage Completions
1938	110	55	50
1939	104	59	57
1940	160	93	58
1941	142	93	65
1942	92	53	58
1943	115	75	65
1944	120	72	60
1945	92	53	58
1946	121	90	74
1947	236	126	53
TOTALS	1,292	769	Average 60

Summary 4-H demonstrations: A summary of the 4-H club demonstrations completed in 1947 is given as follows:

Summary Completed Demonstrations -- 1947

Demonstration	Number Completed	Value Products	Cost	Profit
Beef Calf	4	\$ 276.00	\$ 110.45	\$ 165.55
Dairy Calf	31	7051.10	4683.10	2368.00
Swine, (sow and litter)	4	890.00	422.65	467.35
Swine, (breeding class)	7	848.00	440.67	407.33
Swine, fattening	13	1106.75	852.39	254.36
Poultry, (broiler & Pullet)	40	2351.17	1615.42	735.75
Poultry, layers	5	1171.53	769.53	402.00
Wheat	1	346.50	155.05	191.45
Grain Sorghum	2	182.80	89.40	93.40
Peanuts	1	10.00	7.00	3.00
Sweet Potatoes	1	110.00	67.50	42.50
Garden	11	452.23	134.05	318.18
Corn	6	1048.60	575.18	473.42
TOTALS	126	\$15844.68	\$ 9922.39	\$ 5922.29

4-H Club Records

Following is given a summary of 4-H Club records completed in 1947:

Beef Calf Demonstrations

Name	Number Animals	Cost	Value Product	Profit
George Boughman	1	\$ 33.95	\$ 90.00	\$ 56.05
Hoyt Jenkins	1	33.50	125.00	91.50
Ernest Kerr	1	28.00	40.00	12.00
Donald Moore	1	15.00	21.00	6.00
TOTALS	4	\$ 110.45	\$ 276.00	\$ 165.55
Averages per member	1	27.61	69.00	41.39

Dairy Calf Club Demonstrations
(Reported under Dairying Section)

Swine Demonstrations - (Sow and Litter Class)

Name	No. Pigs Farrowed	No. Pigs Raised	Value	Cost	Profit
Wallace Wilson, Jr.	5	4	\$258.00	\$ 75.00	\$ 183.00
Joe Wilson	5	4	236.00	136.50	98.50
Carson DeBruhl	6	6	261.00	118.15	142.85
Chester Lawson	8	6	135.00	92.00	43.00
TOTALS	24	20	\$890.00	\$422.65	\$ 467.35
Average Per Member	6	5	222.50	105.66	116.84

Swine Demonstrations - (Breeding Class)

Name	Number Animals	Value	Cost	Profit
States Aycock	1	\$ 58.00	\$ 20.85	\$ 37.15
Billy Joe Bailes	3	393.00	183.80	209.20
Allen Little	1	50.00	39.80	10.20
Earl Rector	1	25.00	22.10	2.90
Wallace Wilson, Jr.	1	154.00	90.00	64.00
Marvin White	1	93.00	30.72	62.28
Bobby Whitener	1	75.00	53.40	21.60
TOTALS	9	\$ 848.00	\$ 440.67	\$ 407.33
Average per Clubster		121.14	62.95	58.19

Swine Demonstrations - (Fattening Class)

Name	Number Animals	Value	Cost	Profit
Billy Bobo	1	\$ 32.50	\$ 30.00	\$ 2.50
Walter Bobo	1	32.50	30.00	2.50
Ralph Cabaniss	3	240.00	217.00	23.00
Dean Gallman	3	174.00	78.97	95.03
Bobby Green	1	36.00	30.60	5.40
Ralph Jenkins	2	65.00	49.00	16.00
Alvis Lancaster	1	90.00	60.00	30.00
Mortimer Lancaster	1	90.00	81.02	8.98
McLaurin Lawson	1	65.00	55.00	10.00
Hugh Mason	1	80.00	62.00	18.00
James Parkins	1	80.00	66.00	14.00
Eugene Sanders	1	43.75	35.00	8.75
Marl Solesbee	1	78.00	57.80	20.20
TOTALS	18	\$ 1106.75	\$ 852.39	\$ 254.36
Average per member		85.13	65.57	19.56

Poultry (Broiler and Pullet) Demonstrations

Name	Chickens Bought or Hatched	Cost	Value	Profit
Charles Altman	30	\$ 13.50	\$ 15.00	\$ 1.50
Albert Aycock	100	50.25	62.90	12.65
Billy Joe Bailes	100	92.25	132.30	40.05
Jimmie Bailes	100	72.35	95.00	22.65
Bill Bailey	25	12.00	18.75	6.75
Marion Bentley	50	37.12	56.50	19.38
A. D. Blackwell	50	18.12	29.00	10.88
Jerry Byers	40	19.55	26.00	6.45
Donald Cohen	50	25.75	37.00	11.25
Rufus Cox, Jr.	30	21.36	28.00	6.64
James Crawford	32	17.95	20.00	2.05
Oliver Crawford	31	17.95	26.00	8.05
Dean Dabbs	25	16.00	20.00	4.00
Ray DeBruhl	100	38.70	87.00	48.30
Joe Fore	50	26.60	21.53	5.07 (loss)
Garry Garner, Jr.	50	45.50	45.00	.50 (loss)
Hamblin Garner	100	103.00	128.00	25.00
Manning Gault, Jr.	30	22.05	26.00	3.95
Frank Harvey	100	61.25	97.00	35.75
Broadus Heatherly	50	27.50	44.00	16.50
Buddy Howard	70	39.50	69.00	29.50
Garris Ivey	102	42.01	95.00	52.99
Haskell Ivey	100	42.01	87.00	44.99
Sam Knox	200	129.15	150.00	20.85
Randolph Lancaster	100	109.50	145.00	35.50
Dean Lemons	25	10.25	12.00	1.75
Orin Lemons	30	12.50	18.00	5.50
Floyd Lunsford	100	103.25	141.50	38.25
Billy Hugh Mason	51	35.35	50.00	14.65
Gaylord May	25	11.04	20.47	9.43
Graham May	25	11.04	20.47	9.43
Connie Miller	100	15.25	--	15.25 (loss)
Reid Palmer	100	64.00	109.25	45.25
Charles Plemmons	25	16.50	31.00	14.50
Eugene Sanders	50	31.95	38.00	6.05
Guy Sanders	100	52.55	98.00	45.45
J. B. Vanderford	30	21.38	29.00	7.62
Allen White	100	63.80	101.50	37.70
Lewis White	50	21.04	28.00	6.96
Marion Williams	101	44.60	93.00	48.40
TOTALS	2627	\$1615.42	\$2351.17	\$ 735.75
Average per member	65.7	40.38	58.79	18.41

4-H Poultry Contest

A 4-H Poultry Contest sponsored by the Sears, Roebuck Foundation was conducted during 1947, with 5 boys and 5 girls receiving 100 baby chicks each in the spring. This was a joint project with the home agent. Twelve pullets from each flock were exhibited during the week of Union County Fair and were sold at auction to the highest bidder on Friday. A total of \$280.50 was realized from this sale and will be held in a fund to continue the program for another year.



Pullets from the Sears, Roebuck Contest Poultry Flocks being sold at the Union County Fair. The average per pullet realized from the sale was \$2.34.

The contestants and their parents were guests of the Sears, Roebuck Order Office at a banquet on the night of October 3, at which time the manager awarded prizes to the ten club members amounting to \$100.00 in cash.



General Scene of the Banquet given to the 4-H Poultry Contestants and parents on October 3, 1947

A summary of the records submitted by the 4-H Club boys who participated in the Sears, Roebuck Poultry Contest is included in the summary on 4-H Poultry Demonstrations, 1947.

A more detailed summary of the contestants' records is given below:

Name	Summary 4-H Poultry Contest Records		Returns				
	No. Chicks 12 wks	No. Pullets 5 mon.	Chicks	Prize	Total	Cost	Profit
Billy Joe Bailes	48	45	\$108.30	\$24.00	\$132.30	\$ 92.25	\$ 40.05
Hamblin Garner	93	65	122.00	6.00	128.00	103.00	25.00
Randolph Lancaster	90	55	135.00	10.00	145.00	109.50	35.50
Floyd Lunsford	52	42	117.50	24.00	141.50	103.25	38.25
Allen White	48	12	91.50	10.00	101.50	63.80	37.70
TOTALS	331	219	\$574.30	\$74.00	\$648.30	\$471.80	\$176.50
Average per Contestant	66.2	43.8	114.86	14.80	129.66	94.36	35.30

Poultry Demonstrations (Layers)

Name	Ave. No. Hens	Value	Cost	Profit
Autrey Ivey, Jr.	37	\$ 312.10	\$ 240.74	\$ 71.36
Marion Williams	52	252.48	165.24	87.24
George Glenn, Jr.	32	321.70	206.94	114.76
Reid Palmer	26	149.00	59.00	90.00
David Clyburn	12	136.25	97.61	38.64
TOTALS	159	\$1171.53	\$ 769.53	\$ 402.00
Average Per Member	32	234.31	153.91	80.40

One club member completed a wheat production demonstration, a summary of which follows:

Summary 4-H Wheat Production Demonstration

Name	Acres	Yield Bus.	Bus. Per Ac.	Value	Cost	Cost Per Bu.	Profit
Jackie Burnett	5	126	25.2	\$346.50	\$155.05	\$ 1.23	\$191.45
Average Per Acre			25.2	\$ 69.30	\$ 31.01		\$ 38.29

Two brother, John and Billy Joe Bailes, conducted a grain sorghum production demonstration on a partnership basis. Each member was given credit for one-half the demonstration. A summary follows:

Summary 4-H Grain Sorghum Production Demonstration

Name	Acres	Yield lbs.	Lbs. Per Ac.	Value	Cost	Profit
Billy Joe Bailes	1.25	2811	2250	\$ 91.40	\$ 44.70	\$ 46.70
John Bailes	1.25	2811	2250	91.40	44.70	46.70
TOTALS	2.5	5622		\$182.80	\$ 89.40	\$ 93.40
Average per acre			2250	73.12	35.76	37.36

Summary 4-H Peanut Demonstration

Name	Acre	Cost	Value	Profit
Christopher Bogan	$\frac{1}{4}$	\$ 7.00	\$ 10.00	\$ 3.00

Summary 4-H Club Sweet Potato Demonstration

Name	Acres	Yield Bu.	Cost	Value	Profit
Garris Ivey	$\frac{1}{2}$	75	\$67.50	\$110.00	\$ 42.50

Summary 4-H Club Garden Demonstrations

Name	Cost	Value	Profit
James Crocker	\$ 15.25	\$ 23.65	\$ 8.40
William Bailey	3.50	7.60	4.10
Herbert Hanes	8.45	28.20	19.75
Timothy Boughman	56.20	267.00	210.80
Buddy Howard	20.90	65.28	44.38
Bobby Reynolds	2.80	---	2.80 (loss)
Billy Joe Bailes	13.75	36.00	22.25
Buddy Mitchell	2.10	4.50	22.40
Raymond McCloud	11.10	20.00	8.90
TOTALS	\$ 134.05	\$ 452.23	\$ 318.18

The above summary does not include the records of the two clubsters who participated in the South Carolina Market Garden Contest and whose records were sent to Clemson College.

Summary 4-H Club Corn Demonstrations

Name	Acres	Yield		Value	Cost	Profit
		Bus.	Per A.			
Billy Joe Bailes	3	103.2	34.4	\$ 206.40	\$ 90.95	\$ 115.45
Mansel Gowan	3	45.0	15.0	90.00	84.00	6.00
James Parkins	1	17.0	17.0	34.00	28.00	6.00
Marion Williams	3	60.3	20.1	120.60	99.55	21.05
Joe Wilson	3	117.0	39.0	234.00	126.60	107.40
Wallace Wilson, Jr.	3	181.8	60.6	363.60	146.08	217.52
TOTALS	16	524.3		\$1048.60	\$575.18	\$473.42
Average Per Acre			32.8	65.54	35.95	29.59

4-H Club Camps

There were 32 4-H Club boys and 63 club girls who attended the annual County 4-H Club Camp which was held at Camp Bob Cooper during the period, June 3-6, and participated in a program which included both educational and recreational features, and which allowed them to make new friends with club members of this county and Horry County. Two club boys and two club girls attended the State 4-H Conservation Camp held at Camp Bob Cooper. The State 4-H Council meeting held at Camp Long the week of August 4, was attended by 2 boys and 2 girls from the Union County 4-H Council.



Union County delegates to the State 4-H Conservation Camp, Camp Bob Cooper, held during week of July 21. Reading from left to right: James Hughes, Jonesville, Carson DeBruhl, Union, Vegie Ivey, Jonesville and Ruth Harris, Kelly-Pinckney.

4-H Training

One training meeting for club officers and local leaders was held with a total of 68 present. At that time the County 4-H Club Council was organized and officers elected.



1947 Officers of the Union County 4-H Club Council. Reading from left to right:-
Lewis Scott, president, Jonesville Club
Pansy May, 1st. V. president, Union Club
Hamblin Garner, 2nd. V. president, Union Club
Jacquelyn Lancaster, secretary, Jonesville Club

4-H Club Rally

A total of 200 club members attended the County 4-H Club Rally held at the Veterans Memorial Park of Union, under the sponsorship of the Union County 4-H Club Council. The program for this meeting included both educational and recreational features.

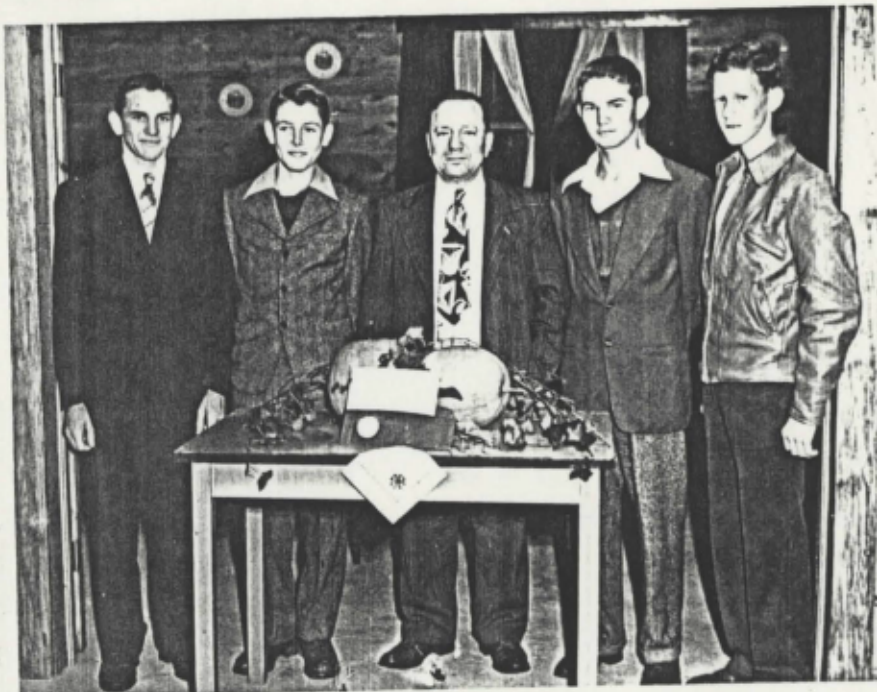
Fair Exhibits

4-H Dairy Calf Club: Thirteen members of the County 4-H Dairy Calf Club exhibited 19 dairy animals at the Union County Fair, participating in the Calf Club Show sponsored by the Arthur State Bank of Union and in the shows sponsored by the fair association. Four clubsters exhibited their animals at the Piedmont Interstate Fair. The following tables show the names of the 4-H members exhibiting dairy cattle and the premiums won: -

Dairy Animals Exhibited in 4-H Calf Club Show

Name	Number Animals	Number Classes	Placings	Premium Won
Lamar Horne	3	4	2nd, Blue, Red White	\$ 35.50
John C. Morris	2	3	Red, Red	22.00
Billy Joe Bailes	1	2	1st., Blue	18.00
George Glenn, Jr.	2	2	Red, Yellow	10.00
Floyd Lunsford	1	2	4th, Red	9.00
Jimmy Kelly	1	2	3rd, White	9.00
Montague Hopkins	2	2	White, Yellow	8.00
John Bailes	1	2	Blue	8.00
George Ponder	1	2	Red	6.00
Nancy Aycock	1	2	Red	6.00
Reid Palmer	1	2	Red	6.00
J. D. Turner	1	2	Red	6.00
Marion Williams	1	1	Yellow	4.00
TOTALS:	18			\$147.50

The Arthur State Bank of Union sponsored the County 4-H Dairy Calf Club Show and entertained the club members and their parents at a banquet. Both the show and the banquet were very successful and have helped to increase the interest in Calf Club work in the county.



Championship
Winners and
Sponsor of
Union County
4-H Calf
Club Show

(over)

In the picture of the Champion Winners and Sponsor of the Dairy Calf Club Show on the preceding page, reading from left to right are: - John Carol Morris, whose cow won senior and grand Champions in the Jersey Show, Billy Joe Bailes, whose cow won junior champion in the Guernsey Show, Harry Arthur, president of Arthur State Bank and sponsor of the Show, Lamar Horne, whose cow won senior and grand champions of the Guernsey Show, and Floyd Lunsford, whose heifer won junior champion in the Jersey Show.

Dairy Animals Exhibited in the Junior Fair and Open Classes at the Union County Fair

Name	Number Animals	Breed	Number Classes	Placings	Premiums Won
Lamar Horne	3	Guernsey	6	Sr. & Gr. Champ. 1,1,1,2,2,2	\$ 21.00
Billy J. Bailes	1	Guernsey	2	Jr. Champion, Best Fitted, Best Showman 1, 1	19.00
John C. Morris	2	Jersey	4	Sr. & Gr. Champ. 1,1,1,1	18.00
George Glenn, Jr.	2	Jersey	4	Best Fitted 1,2,2,2	17.00
Floyd Lunsford	1	Jersey	2	Jr. Champion, Best Showman, 1, 1	14.00
Montague Hopkins	3	Jersey	3	1,2,2,3,3	12.00
George Ponder	1	Jersey	2	1,1	9.00
Reid Palmer	1	Guernsey	2	1,1	9.00
J. D. Turner, Jr.	1	Guernsey	2	1,1	9.00
John Bailes	1	Guernsey	2	1,1	9.00
Nancy Aycock	1	Guernsey	2	2,2	5.00
Jimmy Kelly	1	Guernsey	2	1,3	5.00
Marion Williams	1	Guernsey	2	3,3	2.00
TOTALS	19				\$ 149.00



Dairy Calf Club

Members

Who Exhibited
Their Animals
At the Union
County Fair

Dairy Animals Exhibited at the Piedmont Interstate Fair

Name	Number Animals	Breed	Number Classes	Placings	Premiums
Floyd Lunsford	1	Jersey	1	4th	\$ 5.00
John Bailes	1	Guernsey	1	5th	3.00
Nancy Aycock	1	Guernsey	1	8th	--
Billy Joe Bailes	1	Guernsey	1	10th	--
TOTALS	4				\$ 8.00

4-H Pig Club: Six 4-H Pig Club members exhibited 22 registered pigs at the Union County Fair, participating in the Pig Club Show, sponsored by the Union County Bank and also in the junior fair and open classes. The following tables show the names of the club members exhibiting and the premiums won.

Swine Exhibited in Show Sponsored by Union County Bank

Name	Number Animals	Breed	Number Classes	Placings	Premiums Won
Wallace Wilson, Jr.	8	Poland China	5	9 Blue awards	\$ 18.00
Joe Wilson	5	Poland China	4	6 Blue awards	12.00
Billy Joe Bailes	4	Poland China	2	4 Blue awards	8.00
Bobby Whitener	2	Spotted	2	2 Blue awards	4.00
		Poland China			
Carson DeBruhl	2	Poland China	2	Blue, Red	3.00
Marvin White	1	Poland China	1	Blue	2.00
TOTALS	22				\$ 47.00

Swine Exhibited in Junior Fair and Open Classes, Union
County Fair, 1947

Name	Number Animals	Breed	Number Classes	Placings	Premiums Won
Wallace Wilson, Jr.	8	Poland China	8	Jr. & Gr. Champ. Sow & Boar, 2,2,1,1,1,1,1,1, 1,1,1	\$ 36.00
Bobby Whitener	2	Spotted	4	Jr. & Gr. Champ.	16.00
		Poland China		Sow & Boar, 1,1,1,1	
Joe Wilson	5	Poland China	5	1,1,2,2,2	14.00
Billy Joe Bailes	4	Poland China	4	Jr. & Gr. Champ. Sow, 1,1,1,3,3	14.00
Carson DeBruhl	2	Poland China	4	1,2,3,3	8.00
Marvin White	1	Poland China	2	2,2	4.00
TOTALS	22				\$ 92.00

4-H Poultry Club: Ten 4-H Poultry Club members (5 boys and 5 girls) participatants in the Sears, Roebuck Poultry Contest, exhibited 120 pullets at the Union County Fair. Seven Poultry Club members exhibited poultry in the junior show and open classes at the Union County Fair. The following tables show the names of club members exhibiting and premiums won:

Poultry Exhibited in Show Sponsored by Sears,
Roebuck Foundation

Name	Number Pullets	Placings	Premiums Won
Billy Joe Bailes	12	Blue	\$ 20.00
Floyd Lunsford	12	Blue	20.00
Jerry Kelly	12	Red	10.00
Randolph Lancaster	12	Red	10.00
Allen White	12	Red	10.00
Sara Harris	12	White	6.00
Nellie Lawson	12	White	6.00
Geraldine Garner	12	White	6.00
Eva Williams	12	White	6.00
Hamblin Garner	12	White	6.00
TOTAL	120		\$ 100.00

Poultry Exhibited in Junior Show and Open Classes
at Union County Fair, 1947

Name	Number Exhibited	Classes Entered	Placings	Premiums Won
Kathryn Wilson	8	8	1,1,1,1 2,2,2,3	\$ 15.50
Autrey Ivey, Jr.	3	2	1,1	6.00
Gibert Kennedy	3	2	1,1	6.00
Garris Ivey	4	4	2,2,3	4.00
Floyd Lunsford	3	2	2,2	4.00
Billy Joe Bailes	1	2	1,1	4.00
Haskell Ivey	1	2	3,3	1.00
TOTAL	23			\$ 40.50

HORTICULTURE

Horticultural extension work in Union County during 1947 included work with commercial orchards, home orchards, sweet potatoes and family gardens.

Commercial Orchards: The county agent worked very closely with the commercial peach growers giving advice on pruning, disease and insect control, fertilization, cultivation and marketing. The damage suffered from curculio and oriental fruit moth was much less in 1947 than in 1946. In most cases the size and quality of peaches marketed by growers were very good. 20 commercial growers marketed approximately 90,000 bushels of peaches including U. S. No. 1, orchard run and culls. This compares with approximately 75,000 bushels for the 1946 season.

Home Orchards: Farmers having home orchards were encouraged to follow improved practices which would aid them in controlling insects and diseases, and were urged to follow recommended practices in fertilization, pruning, and spraying their trees. Advice was given to a large number of farmers who called at the county agent's office in selecting varieties of fruit trees for home orchards.

Sweet Potatoes: Union County commercial sweet potato growers have been assisted with such problems as seed selection, fertilization, plant bed management, etc. They have been encouraged to carefully select their seed and to follow a rotation system which will allow them to set their plants in soil best suited for potato production.

Home Gardens: Farmers were urged to produce a sufficient amount of vegetables to meet their own needs and to can vegetables for home use during the winter. Information was given throughout the year regarding recommended practices in seeding, fertilizing, control of insects and diseases, etc. Towns people were also encouraged to have gardens whenever space was available.

MARKETING

Extension work in marketing for 1947 included cooperative buying and selling of farm produce, and advice in grading and packing.

Grading and Packing: The agent worked very closely with the commercial peach growers and sweet potato growers of the county, keeping them in close touch with the markets and assisting in grading and packing their products. Assistance was given in setting up the packing sheds and with the aid of the farm labor assistant, labor was secured for successfully handling the large crop.

Cooperative Buying: The county agent cooperated with farmers of the county throughout the year in purchasing feed, seed, insecticides, fruit and nut trees, baby chicks, farm machinery and containers.

Marketing Surplus Farm Products: The county agent assisted farmers of the county throughout the year in the marketing of surplus farm products for which there were no regularly established local markets.

Summary of Marketing Work: A summary of the marketing of commodities with which the county agent assisted farmers follows:

Summary Marketing Work - 1947

Products	Quantity	Sold	Bought	No. farmers Served
Hogs, breeding	27 head	\$	\$ 1,020.00	21
Beef Cattle, meat	2 head	300.00		1
Beef Cattle, breeding	15 head		2,975.00	3
Poultry	1,866 pounds	556.20		14
Dairy Cattle,	22 head	725.00	1,830.00	14
Milk	25,800 pounds	1,500.00		2
Baby Chicks	2,000		300.00	25
Oriental Fruit				
Moth Parasites	29,200		464.57	8
Fruit crop, peaches	90,000 bushels	100900.00		17
Corn, feed	55 bushels	97.50		2
Corn, seed	10 bushels		107.50	18
Cottonseed	7 tons		1,750.00	75
Wheat, seed	2 bushels		12.50	1
Oats, seed	4 bushels		20.00	1
Sweet potato plants	40,000	60.00	40.00	8
Miscellaneous Seeds	419 pounds		324.41	12
Nursery Stock	16		26.48	3
Timber or Lumber	1,054,000 bd. ft.	14756.00		4
Forest Seedlings	129,000		154.50	4
Farm Machinery	1 unit		90.00	1
Benzine Hexachloride	15,000 pounds		3,750.00	95
Nitrate of Soda	10 tons		550.00	16
4-H Supplies			58.38	
TOTALS		\$117,994.70	\$ 13,473.34	345
TOTAL VALUE PRODUCTS BOUGHT AND SOLD			\$131,468.04	

Items listed under this heading represent commodities in which the county agent assisted in organizing growers, finding markets and supervising the marketing.

POULTRY

Extension work with poultry in Union County in 1947 consisted of demonstration flocks, culling demonstrations, marketing, advice in sanitation and health, advice as to management and feeding practices, assistance in constructing new buildings and remodeling old ones, recommendations as to types of equipment best suitable to individual needs and work with 4-H Club members.

Although the number of chickens on the farms of Union County have increased considerably during the past seven or eight years, and the number of eggs produced and broilers grown out have also increased, Union County farmers are still not producing enough poultry and poultry products to supply local needs. Farm families have been encouraged to increase their production to a point where all home needs will be met and a small surplus will be produced for market. The importance of producing feed has also been stressed. Timely information has been supplied through meetings, news articles, radio, personal contact, etc., in an effort to assist in controlling diseases and parasites and in attaining more efficient management of poultry in the county.

Demonstration Flock Records: Two demonstration flock records were kept during 1947. A summary of these records follows:

Summary Poultry Flock Demonstration Records

Name	Breed	Av. No. Hens	Investment	Eggs Per Hen	Total Income	Feed Cost	Income Above F.C.	Stock Increase	Other Expense	Labor Income	Income Per Hen
Gilmer Blankenship	W. R.	49	\$404.50	186.1	\$767.01	\$205.80	\$ 561.21	\$18.00	\$61.15	\$517.06	\$10.55
Dupre Bogan	W. L.	63	374.50	186	715.65	350.66	364.99	48.00	72.29	340.70	5.41
AVERAGE labor income per hen											\$ 7.66

Following is a summary of demonstration poultry flock records in Union County for the period, 1943 - 1947

Year	No. Demonstrations	Average No. Hens	Labor Income	Labor Income Per Hen
1943	1	58.6	\$ 526.96	\$ 8.99
1944	1	51.3	700.57	13.66
1945	1	49.7	578.44	11.64
1946	2	159	764.17	4.80
1947	2	112	857.76	7.66
TOTALS	7	430.6	3,427.90	Ave. 7.96

Culling: Throughout the year farmers and 4-H Club members have been advised to cull their flocks closely and dispose of hens that were not paying a profit, 13 method demonstrations in culling of poultry were conducted with 4-H Clubs in the county.

Marketing: As a general rule the local markets have been more than able to absorb all of the surplus eggs and poultry produced in the county. Farmers have been encouraged to place a high quality product on the market, and in some cases have been given advice in marketing methods. Arrangements were made to sell 1,086 pounds of poultry for one farmer at \$217.20.

Sanitation and Health: Sanitation practices in both home and commercial flocks were stressed throughout the year. A large number of farmers were given information and advice on controlling parasites and diseases, and in establishing sanitary practices on their farms.

4-H Poultry Club Work: Reported under Boys' 4-H Club Work.

VISUAL INSTRUCTION

Visual instruction work for the year consisted of the use of educational motion pictures, slides, photographs, maps and charts.

Educational Motion Pictures were used at 12 meetings with 308 adults and 1040 farm boys and girls attending. These pictures were shown with the projector assigned to the county agent's office.

Slides were used at 2 4-H Club meetings with an attendance of 262.

Photographs: 45 photographs of farm activities were made in Union County by the county agent. 18 of these photographs were used in educational publicity in the local papers. Several photographs are included in this report.

Charts and other visual materials were used at 2 meetings of farm people, with an attendance of 85.

Summary Use of Visual Instruction Aids

Visual Aid Used	No. Meetings	Attendance
Motion Pictures	12	1348
Slides	2	262
Charts	2	85

MISCELLANEOUS COUNTY AND COMMUNITY ACTIVITIES

A summary of miscellaneous county and community activities, semi-official in character, but not strictly extension work are listed as follows:

Rotary Club Committee: The county agent served as chairman of the rural-urban committee and had charge of quarterly programs dealing with some subject of mutual interest of farmers and townspeople.

Piedmont Interstate Fair: The county agent served as a member of the Board of Directors of the Piedmont Interstate Fair Association, with fair grounds at Spartanburg, South Carolina

Union County Fair: The county agent served as a member of the Board of directors of the Union County Fair Association, and assisted in making plans for the annual county fair.

Veterans Memorial Park: The county agent met with the authorities in charge of developing the Veterans Memorial Park and has given whatever assistance and advice he could regarding improvements of the Park grounds.

Chamber of Commerce: The county agent has met with the officers of the local Chamber of Commerce and assisted in selecting members of their agricultural committee.

Veterans Training Program: The county agent has met with officials of the Veterans Administration and assisted in working out plans for developing training program for veterans in Union County.

PUBLICITY

Publicity work and the distribution of educational information in connection with the 1947 Extension Program in Union County was done through circular letters, press articles, radio programs, distribution of bulletins and tours. A summary of this work is given as follows: -

Summary Publicity Work

Individual letters written	1,363
Circular Letters	63
Copies mailed	8,107
News articles published	239
Bulletins distributed	3,526
Radio talks made	46
Tours	6
Attendance	62

Circular Letters: A total of 63 circular letters were prepared and 8,107 copies were mailed to farmers and 4-H club boys in Union County. These letters contained information on timely agricultural matters, notices of meetings and information on results of demonstrations and experimental work. Specimen copies of circular letters are attached to this report.

Press articles: A total of 239 press articles of timely agricultural interest were prepared and published in the Union County and Spartanburg County newspapers during 1947. Specimen copies of news articles prepared are attached to this report. This total does not include press articles prepared at Clemson and mailed directly to the local paper.

Commercial Advertisements: Business houses of the county were contacted regarding the 1947 Agricultural Program for South Carolina, and through their cooperation two three-quarter page ads were run in the Union Daily Times. Several business firms and the two banks ran individual ads. 82 advertisements of 3,441 square inches of newspaper space were on the 1947 Agricultural Program for South Carolina, sponsored by private business.

The two banks of the city, Arthur State Bank and Union County Bank, donated half of their advertisement space in the local paper to the county agent for use in keeping items of timely interest before the public. Ads were prepared and published every Monday during the year, and sponsored by Arthur State Bank; and for every other Friday for the Union County Bank.

Radio Programs: During the year the agent appeared weekly on the Piedmont Farm Hour over Station WSPA, Spartanburg. Information of current interest to the farmers of the county was discussed at these broadcasts. Several farmers and 4-H club boys appeared with the agent from time to time on the programs.

Bulletins Distributed: A total of 3,526 bulletins were distributed to farmers and 4-H club boys during the year. Many farmers have formed the habit of calling at the county agent's office to obtain bulletins and circulars giving desired information regarding various crops and livestock enterprises and agricultural engineering problems.

Tours: Six farm tours were organized and conducted -- 2 annual grazing, 1 orchard, 1 soil conservation and 2 observation, 62 farmers participated in these tours.

On the following pages will be found specimen copies
of circular letters issued during the year.

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
STATE OF SOUTH CAROLINA

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

EXTENSION SERVICE

Union, South Carolina
January 6, 1947

TO; PARENTS OF 4-H CLUB MEMBERS

Dear Friends,

During 1946 72% of the Union County boys enrolled in 4-H Club Work completed their demonstrations. According to all records which I am able to locate this is the highest per cent of completions we have ever had in Union County. Ninety projects valued at \$16,566.05 were completed by 81 members who realized a profit of \$7,060.23.

We are very glad to see that your son has enrolled in club work for 1947 -- thus expressing his interest in conducting a worthwhile project. I am sure you will want to do all you can to help him in carrying out the South Carolina 4-H Club Slogan "LEARN TO DO BY DOING", and the National Club Motto, "MAKE THE BEST BETTER."

Why not work out a partnership agreement with him, and give him the necessary advice and assistance throughout the year, but let him have the opportunity of really doing something worthwhile and realizing a profit from his efforts. The experience which he will get will be worth a great deal to him later. Perhaps you may recall the disappointment which a boy has when he realizes the hog or calf which was his to raise becomes his dad's when it is sold.

We hope to expand and improve 4-H Club Work in Union County this year. To do this we shall require the full cooperation and assistance of every 4-H club parent.

Any suggestions which you can offer toward the improvement of Club Work will be sincerely appreciated.

Very truly yours,

W. J. Martin
W. J. Martin, County Agent

WJM:L

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS

STATE OF SOUTH CAROLINA

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

EXTENSION SERVICE

Union, South Carolina
January 23, 1947

HAVE YOU SEEN THE RELATIVELY NEW BOW SAW IN OPERATION?

IF YOU HAVE ONE OR ARE PLANNING TO BUY ONE, DO YOU KNOW HOW TO
PROPERLY CARE FOR AND ADJUST IT SO THAT IT WILL SAW MOST EFFICIENTLY?

A factory representative will be in Union County Tuesday,
January 28th to demonstrate the use of this saw and to show you
how to care for it so that it will do the best work.

S. A. Marbut, Assistant Extension Forester, will discuss
woodland management problems -- time and method of thinning
timber; which trees should be left, etc.

Two meetings have been scheduled.
Plan to be with us. Invite your
neighbors to come with you.



THE MEETINGS WILL BE HELD AS FOLLOWS:

10:00 a.m. - **Tuesday**, January 28 -- FARM OF SAM HAWKINS,
just off road to Santuc.

2:30 p.m. - **Tuesday**, January 28 -- FARM OF B. C. IVEY
Brown's Creek Community

Very truly yours,

H. L. Bailey
H. L. Bailey, County
Farm Labor Assistant

W. J. Martin
W. J. Martin, County Agent

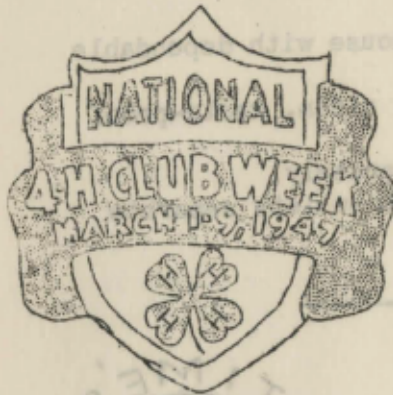


**COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
STATE OF SOUTH CAROLINA**

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

Union, South Carolina
February 26, 1947

EXTENSION SERVICE



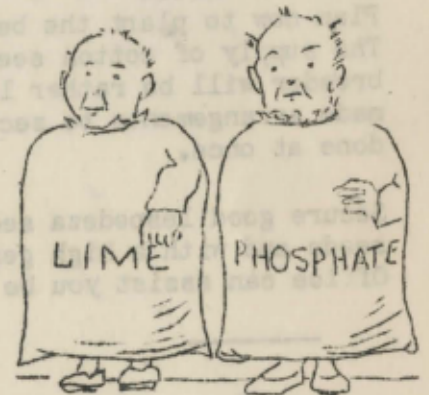
IS YOUR SON A 4-H CLUB MEMBER?

In Union County there are 11 organized 4-H Community Clubs, with a total membership of 176. We shall be glad to have any boy to join a community club and start his project for 1947.

"LEARN BY DOING"

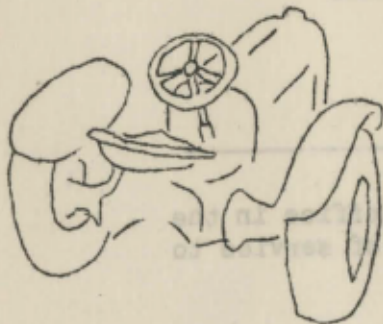
"MAKE THE BEST BETTER"

Your permanent pastures and legume crops need LIMESTONE and PHOSPHATE. The county AAA Office is now accepting orders for these materials under the Purchase Order Plan. Take advantage of your SOIL BUILDING ALLOWANCE to build up your soil and reduce feed costs.



MORE INCOME - -

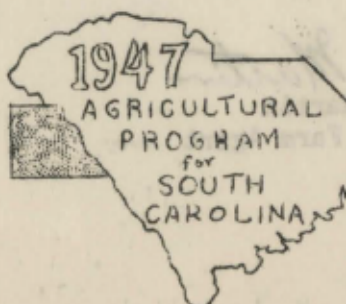
BETTER FARM LIVING



We have arranged for a TRACTOR SCHOOL for Union County on TUESDAY, MARCH 4, 1947. The schedule is as follows:

10:00 a.m. - - - Kelly Pinckney School
2:30 p.m. - - - Santuc School

Arrange to attend one of these schools. Further information will be given over the Farm Hour on WSPA, Spartanburg, Thursday at 1:30 p.m.



MORE INCOME - BETTER FARM LIVING

Clemson College Extension Service

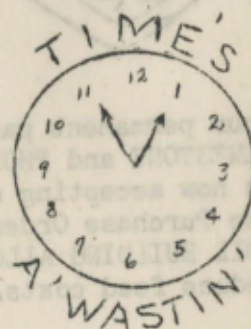


ARE YOU PLANNING TO BROOD BABY CHICKS THIS SPRING?
 No profit is realized from baby chicks which get sick and die. If you are planning to brood some chicks this spring the following suggestions should be helpful:

1. Start with vigorous chicks from pullorum-tested stock.
2. Secure early hatched chicks.
3. Use a clean portable brooder house with dependable brooder or a battery brooder.
4. Feed a well balanced ration in clean, waste-proof hoppers.
5. Brood each group of chicks separately.
6. Use clean range for growing out pullets separate from mature flock.

TIME'S A'WASTIN' - - ARRANGE FOR YOUR PLANTING SEED NOW!
 Plan now to plant the best seed you can secure this spring. The supply of cotton seed not more than one year from the breeder will be rather limited this year. If you have not made arrangements to secure good seed this job should be done at once.

Secure good lespedeza seed -- seed free from noxious weed seeds and with a high germination. If the County Agent's Office can assist you be sure to call on us.



Dont be late

BETTER FARM LIVING
 Have you talked to your FERTILIZER dealer about your 1947 FERTILIZER NEEDS? Indications are that the supply of fertilizers will not meet the demand. Better get your order in now and accept delivery as soon as the fertilizer is available.

We shall be glad to have you come by the office in the Krass Building, or drop us a line in the mail, if we can be of service to you.

Very truly yours,

H. L. Bailey
 H. L. Bailey, County
 Farm Labor Assistant

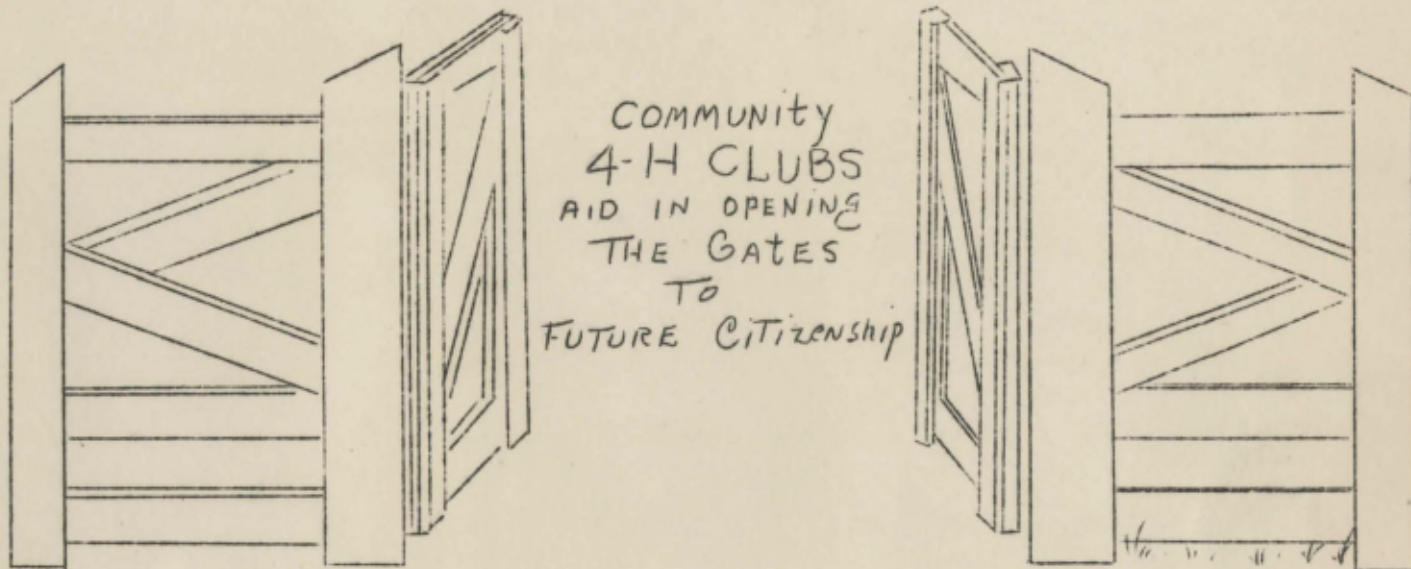
W. J. Martin
 W. J. Martin
 County Farm Agent

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
STATE OF SOUTH CAROLINA

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

Union, South Carolina
February 21, 1947

EXTENSION SERVICE



TO 4-H CLUB LEADERS AND OFFICERS: -

4-H Club leaders and officers have a great responsibility in developing a worthwhile program in their community clubs, and in assisting members to "learn by doing" in an effort to "make the best better."

A 4-H Leadership Training meeting will be held at the Central School, located on Academy Street in Union (across the street from the Oil Mill), at 3:30 p.m., Friday February 28.

Leon Clayton, District 4-H Boys' Club Agent, and Miss Eloise Johnson, State 4-H Girls' Club Agent will attend this meeting and discuss duties of 4-H leaders and officers.

We expect to organize a county 4-H Club Council at this meeting and in order to do so we will need a large number of leaders and officers present.

This is a very important meeting which we hope all of you will be able to attend.

Very truly yours,

Mahala J. Smith
Mahala J. Smith, County
Home Demonstration Agent

W. D. Martin
W. D. Martin, County Farm Agent

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
STATE OF SOUTH CAROLINA

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

EXTENSION SERVICE

Union, South Carolina
March 4, 1947

TO: UNION COUNTY 4-H CLUB BOYS -

Dear Friends,

My congratulations to you old members who are continuing in Club Work for another year.

To you new members I wish to say, "WELCOME". I am sure all the old members join me in wishing you much success in your 4-H Club Work.

In Union County we have almost twice as many boys enrolled as we had in 1946. That's fine, but it is not good enough. There are still a large number of boys in the county who need 4-H Club Work. This week - MARCH 1-9, is NATIONAL 4-H CLUB WEEK. Won't you use it to see at least one boy in your school who is not a clubster, explain 4-H Club work to him, and bring him to your next club meeting as a new member?

"MAKE THE BEST BETTER"

At the March meeting of your club I shall give you your project record book. Until that time, if your project has already been started, keep your record on a calendar or in some other handy place. You can very easily transfer it to your record book when you get it.

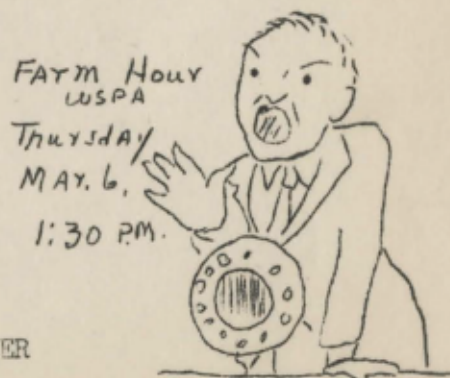
"LEARN BY DOING"

On THURSDAY, MARCH 6th, I expect to have two or three 4-H Club boys on the PIEDMONT FARM HOUR with me. This program will be on WSPA, Spartanburg, at 1:30 p.m. If you cannot listen to the radio at that time, ask your mother or father to listen so they can tell you what the boys say.

DON'T FORGET TO BRING THAT NEW MEMBER TO THE MARCH MEETING.

Very truly yours,

W. J. Martin
W. J. Martin, County Agent



COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
STATE OF SOUTH CAROLINA

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

Union, South Carolina
April 28, 1947

EXTENSION SERVICE

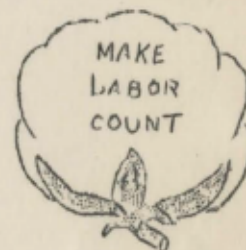
TO NEIGHBORHOOD LEADERS AND AAA COMMUNITY COMMITTEEMEN

Dear Friends,

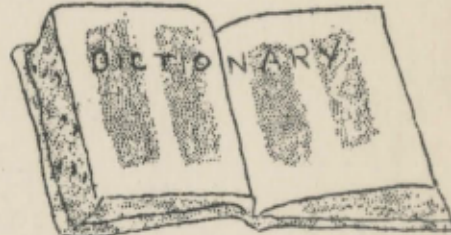
Profitable Cotton Production: In order to continue to produce cotton at a profit we must increase our per acre yields, improve the quality of the staple and, at the same time, lower the production costs per pound.



For your information I am enclosing the Extension Service's latest circular on Cotton Production which I hope will be of value to you and your neighbors.

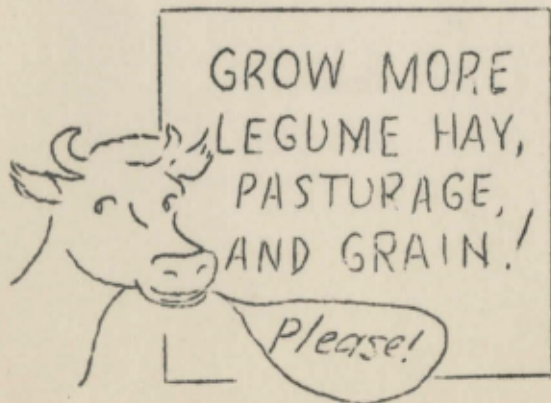


"Triple-A" Tools for Better Farming: Too large a number of our farmers have failed to take full advantage of the assistance offered by the AAA Program in putting into effect a constructive soil conserving and soil building program. As a farm leader in your community I am sure you would like to see each one of your neighbors take full advantage of this program. You can do them a real service by encouraging them to earn their soil building payments by putting in those practices which their individual farms need most. The enclosed Circular No. 296 should be of help to you in doing this.



Con'ser-va'tion
Wise use of resources

Permanent Pastures; Where could livestock get cheaper feed than from a good improved permanent pasture? What could save you more time and labor than allowing your livestock to harvest their own feed?



Union County's pastures could be greatly improved through the application of lime and fertilizers. There are also large areas along our streams which could be cleared and seeded to desirable pasture grasses and legumes. These areas could be developed into fine pastures.

Very truly yours,

W. J. Martin

W. J. Martin, County Agent

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS

STATE OF SOUTH CAROLINA

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

Union, South Carolina
June 13, 1947

EXTENSION SERVICE

TO COMMUNITY AND NEIGHBORHOOD LEADERS: -

Dear Friends,

I don't have to call to your attention the fact that boll weevils are more numerous this year than in several years.



During the week ending June 15, 1946, counts made in five fields of the county indicated a weevil population of from 59 to 176 weevils per acre. Counts made on three widely separated fields on Wednesday, June 11, 1947, indicated a population of from 300 to 1200 weevils per acre.

I was in one field where squares were forming and could hardly find a square which had not been punctured at least once. Twenty-five weevils were found in about fifteen minutes.

As a leader in your community you can do a great deal to influence your neighbors to use all available means to control the weevil.

Farmers have too much already invested in their cotton crop to let the boll weevil destroy it.

I'll go over to your neighbor's --- maybe he didn't put poison on his cotton.



Very truly yours,

W. J. Martin

W. J. Martin, County Agent

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
STATE OF SOUTH CAROLINA

CLEMSON AGRICULTURAL COLLEGE
OF SOUTH CAROLINA AND
UNITED STATES DEPARTMENT OF
AGRICULTURE COOPERATING

Union, South Carolina
October 7, 1947

EXTENSION SERVICE

TO: COUNTY, COMMUNITY AND NEIGHBORHOOD LEADERS OF UNION COUNTY

The National Fire Protection Association estimates that fire will destroy about \$700 million in property this year. The Association estimates that \$200,000,000 of this loss will occur on farms and that approximately 3,500 farm people will lose their lives as a result of fires.

Since about 90% of these destructive fires are preventable, this is a problem which we can do something about.

President Truman has designated the week of October 5 - 11 (THIS WEEK) as FIRE PREVENTION WEEK and has called upon all citizens to cooperate in eliminating all possible causes of destructive fires. He urges that we continue vigilance against fires throughout the year.

As a leader in your community you can do much to help in this program. Set an example for your neighbors, and at every opportunity urge them to eliminate fire hazards, and to correct habits which may cause fires.

Some of the bad habits which might be corrected are:
(1) improper storage of gasoline and kerosene, (2) smoking in barns or other outbuildings containing hay or other inflammable material, (3) smoking in bed, (4) allowing papers, magazines, old clothes, discarded furniture etc. to accumulate in closets, attics, or in the outbuildings.

These are just a few. I am sure you can think of a large number of others.

Let's work together and reduce the loss by fire in Union County. Remember that 90% of the destructive fires can be prevented.

Very truly yours,

Bill Martin

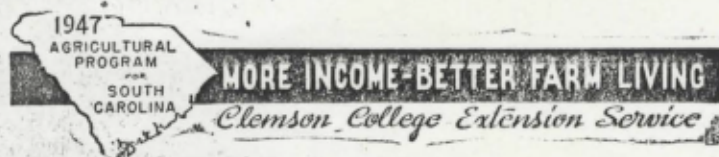
Bill Martin, County Agent

On the following pages will be found specimen copies
of press articles published during the year.



RECOMMENDING

The 1947 Agricultural Program For S. C.



Improve Soils Through Proper Fertilization, Liming, And Adequate Soil Conservation And Soil Building Practices

Further DEVELOP 4-H CLUB WORK to train South Carolina farm boys and girls in improved farming homemaking, health and citizenship.

Use higher yields of COTTON
at lower cost per pound.
Increase staple length and quality.
Improve ginning. Expand grade and
service in marketing.

Use to improve home FOOD
production and conservation
for better nutrition

Use production of high quality
to aid in efficient CROP
PRODUCTION



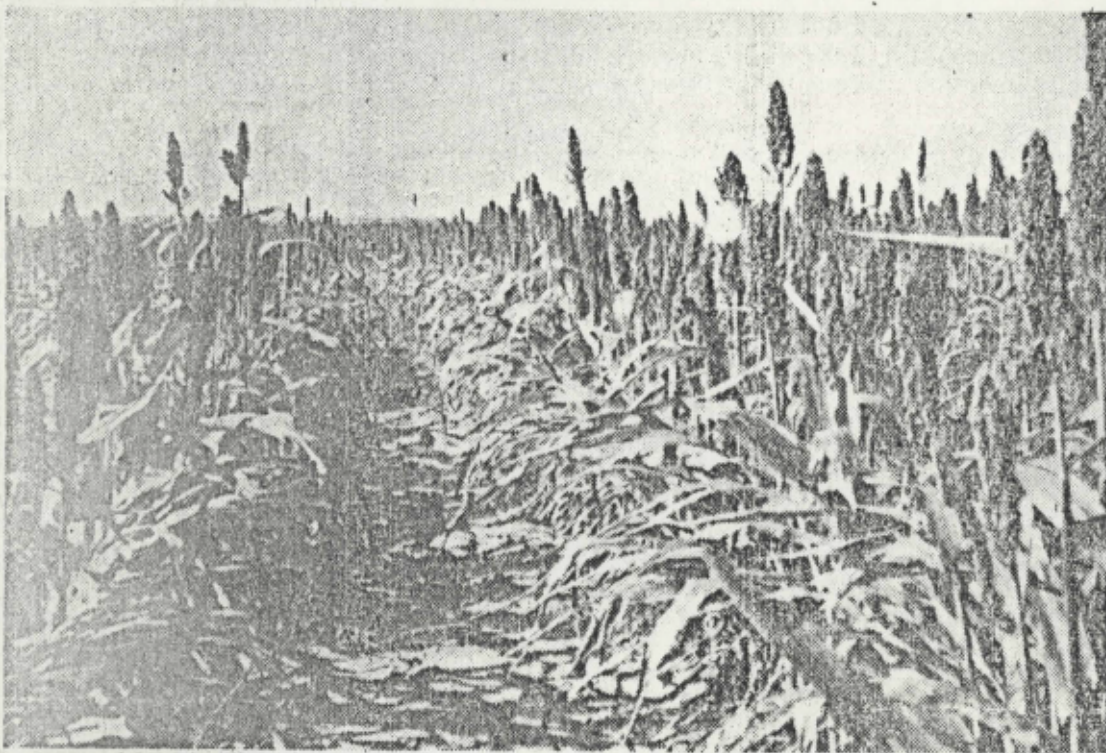
Develop more adequate rural homes
and RECREATIONAL facilities.

Use up-to-date methods in FIGHTING
and livestock INSECTS, DISEASES,
parasites; household insects, rats
and other pests.

PLAN THE FARM to make the
use of land, labor and equipment
and to meet changing conditions

Plan and improve FARM HOMES
and other buildings for health
and efficiency.

THE HERALD'S PAGE OF FARM NEWS



'LONG SWEETNIN' for sorghum and feed are 2 profitable crops in Union County. Top photo, field of Plainsman grain sorghum grown by 4-H Members Billy and John Bailes, which, County Agent W. J. Martin says, should yield 10 bushels per acre more than Billy Joe's corn. Bottom photo, field of grain sorghum on J. B. Stone's farm. Mr. Stone planted 2 varieties, Martin's Combine Milo and Dwarf Hegari. His sorghum also should exceed his corn crop in per acre production, Agent Martin says.

Whose Horse? Agent Martin Wants to Know

By W. J. MARTIN
Union County Farm Agent

According to Mrs. T. M. Faucett, somebody left a large black horse with a white spot on his head at their house about 7 weeks ago and has not come back for him. She does not know the name of the owner.

If this horse is not called for before Thursday, Nov. 6, he will be sold by the magistrate, we are informed.

Mr. and Mrs. Faucett would like for the owner of this animal to contact them at once. They live between Elford Grove and the Jonesville-Lockhart Highway in Union County.

JOE WILSON 4-H Club member of Santuck Community, has 3 registered Poland China boar pigs for sale. Prospective buyers should contact Joe as soon as possible.

Farmers who are harvesting sweet potatoes for home use should take steps necessary to assure them of having high quality potatoes for the family table. The same care should be taken in handling potatoes for home use as in handling those for market. All cut, bruised, broken or diseased potatoes should be discarded and the good ones handled in such a manner as to prevent bruising before they are placed in the bank.

THE POTATO BANK should be placed in a well-drained place and should have ventilation under the potatoes and in the center. Plans for such a bank are contained in Extension Circular No. 175 entitled "Sweet Potatoes for Home Use." These circulars may be obtained free from the county agents' office.

Grain sorghum demonstrations on the farms of Jim Bailes and J. B. Stone are looking good, and I would like to suggest that other farmers stop by to see these plots. Billy Joe and John Bailes, 4-H Club members, have about 2½ acres of the Plainsman Variety. Mr. Stone has one acre of Martin's Combine Milo and one acre of Dwarf Hegari. By visiting these plots farmers could compare the different varieties and decide for themselves which variety they think best suited for their own farm.

ed to her home after spending several months visiting relatives in Union.

Mrs. C. A. Dufford has returned to her home in Newberry after attending the district meeting of the American Legion here.

Miss Grace Summer of Newberry has returned to her home after visiting in Union.

Mrs. Reese M. Roark and Mrs. C. C. Moorehead have returned to their home in Blacksburg after a visit to friends in Union.

Mrs. Robert King and Mrs. J. K. Ewart have returned to their home in Columbia after visiting here.

Inman

By MRS. E. A. CAPERS
INMAN, Oct. 4 (Herald-Journal Special)—Miss Ramona Harris has returned to Winthrop College where she is a member of the junior class. She has been visiting her parents, Mr. and Mrs. N. S. Harris on McMillan Circle.

Mrs. Carrie Loevenich and Billy



...burg General Hospital.

Pauline

By MRS. ANNIE STOK
PAULINE, Oct. 4 (Herald-Journal Special)—Mr. and Mrs. Hatchett and little daughter Miss Helen Bates Bryan have returned after a 2-weeks visit relatives at Lebanon, Tenn. Many entries from so many judges, who had to deter-

...honor of a county...
...candy and candied apples...
...red from...
...Many emerged from the...
...and sideshow...
...made gay by music of...
...through...
...In the afternoon...
...of county school children...
...Wednesday—School Day for...
...largest crowd in any one day...
...Exhibit Hall, but perhaps...
...barns constructed adjacent...
...and viewed livestock in the...
...the dis-

...and assistant treasurer...
...Mrs. Robert...
...W. J. Martin, W. C. Al-...
...J. R. Whitmore and W. W.

...and teachers were ad-...
...ed free.



CT. 6-11, 1947 MORROW



8 Pages—Section B

Section B—8 Pages

The Spartanburg Piedmont

4-H CALF CLUB SHOW



As announced earlier in the year THE ARTHUR STATE BANK is sponsoring a 4-H CALF CLUB SHOW, which will be held during the week of September 29, at the Union County Fair.

The Union County Dairy Calf Club members own some fine animals and plan to put on an excellent exhibit. These animals will compete for valuable prizes.

Calf Club members, taking part in the show, and their parents will be invited to be our guests at a banquet at which time prizes will be distributed.

See the 4-H CALF CLUB SHOW, when you attend the fair.



Union's Oldest, Largest and
Strongest Bank



MAKE OUR BANK YOUR BANK



ARTHUR STATE BANK

Member of Federal Deposit Insurance Corporation
Which Insures Funds of Each Depositor Up
To \$5,000.00

Phone 48



IT'S COTTON PICKING TIME

"PICK AND GIN FOR HIGH GRADE"

Too much of our cotton is low grade. There is not enough high-grade clean white cotton to meet market demands. A little care at picking time can mean a lot more cash at selling time.

Pick cotton as dry as possible.

Keep trash out.

Pick before weather damage

Keep good and bad cotton separated.

Damp or green seed cotton should be dried before storing.

Don't mix low-grade and high-grade seed cotton.

See that your ginner uses ginning methods and equipment to protect the quality.

Published in cooperation with the County Farm Agent.

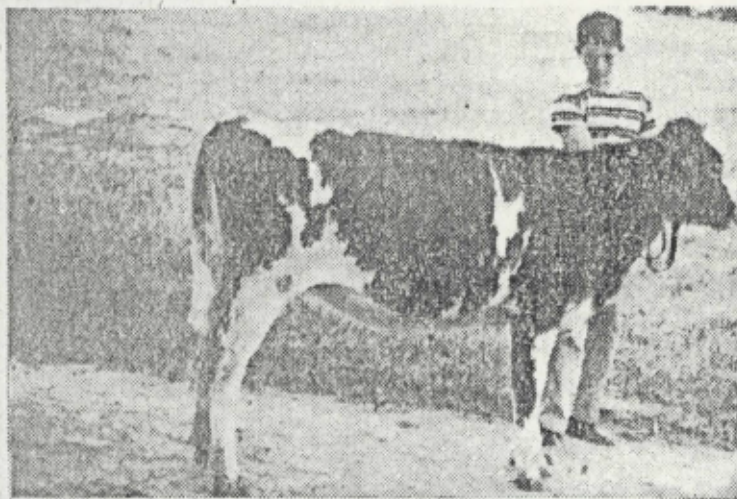
ASK THOSE WE SERVE

UNION County Bank

Member of Federal Deposit Insurance
Corporation. Funds of each depositor
Insured up to \$5000.00



BEEF CATTLE HARVEST THEIR OWN FEED on J. B. Stone's farm in Union County. Here cattle are grazing on a mixture of oats, barley, rye grass and crimson clover during the winter of 1946-1947. Below, Billy Joe Bailes is shown training his Guernsey senior calf in preparation for the Union County Fair which opens Monday, Sept. 29.



Union's Young Farmers Get Set for Fairs

UNION, Sept. 14.—Each fall the fairs offer 4-H Club members an opportunity to exhibit their livestock and crops in competition with one another and in competition with adult farmers. This allows them to study their calves, pigs, chickens and other exhibits and compare them with those shown by others so that they may more intelligently go about the job of "making the best better."

This year Arthur State Bank is sponsoring a 4-H Dairy Calf Club show which will be held during the Union County Fair. The bank will present some excellent prizes to all clubsters exhibiting their animals and will give a banquet for them and their parents following the fair. This generous offer to help in promoting calf club work in Union County is deeply appreciated, and we are hoping that every calf club member will give his wholehearted cooperation by doing the best possible job of fitting his animals. In addition to the prizes offered by the bank, the fair association will also give some good prizes.

Each club member competing in the Sears, Roebuck 4-H poultry contest will exhibit 12 pullets at the County Fair during the week of Sept. 29. These pullets will be judged Tuesday, Sept. 30, and sold at auction Friday, Oct. 3. The local Sears, Roebuck order office will be host at the banquet for these clubsters on the night of Oct. 3, at

Pasturage Is Required For All Livestock

By W. J. MARTIN
Union County Farm Agent
Here we go again—talking about

Bill Coleman will continue his practice of providing approximately 200 acres of winter grazing for his beef cattle. The Jordan Brothers

UNION COUNTY FARM NEWS

By W. J. Martin, County Agent

We haven't had any forest fires lately, but this has probably been due to the weather rather than to the fact that people are being more careful. At a meeting of Forest Service personnel and farmers interested in protecting our timber from fire held at the Union County Court House last Monday night, the importance of exercising extreme care to prevent fires was emphasized. A very instructive motion picture dealing with fire prevention and the methods of putting out fires was shown. This job of fire prevention and fire control is everybody's problem. About 90% of the damage now caused by fire can be prevented if everybody will do his part.

4-H Club boys of Union County are completing their year's work this month and will reorganize their clubs during December for 1948. They are being urged to discuss club work with their parents and to decide just what type of demonstration they will conduct next year. This is an important part of their year's club program, for it is an established fact that a boy will do a better job with a demonstration in which he is interested than with one in which he is not interested.

Many of these clubsters will want to obtain good calves, pigs, or baby chicks for their demonstrations, and we shall be glad to help them in locating these at a reasonable price. In fact the other club

members will be able to help in supplying animals for club projects. Wallace Wilson, Jr., Joe Wilson, Billy Joe Bailes, Carson DeBruhl and some of the others will have a sufficient number of registered pigs for sale to supply all the club members that want pigs. The boys will have pigs for sale to supply all the club members that want pigs. The boys will have pigs for sale to other farmers, also, and anybody wishing to obtain a good pig is urged to contact one of them direct or through the County Agent's Office.

* * *

Rat-control campaigns will be conducted in practically all counties of South Carolina this winter. These campaigns should do a great deal toward helping to conserve grain as well as eliminating a health hazard. Plans for conducting this campaign in all the Piedmont counties at one time are now being worked out, the campaign to be carried out about the first part of February. For this program to be effective as many farmers as possible should participate since rats will travel from one farm to another.

Complete details regarding these campaigns will be announced as plans are completed.

* * *

With the cost of feed so high and the poor prospect for a grain crop in this section, wise use of available feed is more important than ever. Chickens, dairy cattle, and beef cattle which are not paying a profit should be culled out and disposed of and the feed given to those animals which are capable of returning a profit to their owners. It is never a sound program to continue to keep "boarders" which never pay the cost of their feed. A sound culling program now will make more feed available for the better livestock and will enable them to return an even larger profit to their owners.

UNION COUNTY FARM NEWS

By W. J. Martin, County Agent

The grain required to feed turkeys and hens should be considerably less now than it was a week or two ago since a large number were sold or eaten for Thanksgiving. There is still a large number of hens on farms of Union County, however, which are consuming feed and giving nothing in return. These hens should be removed from the flock and eaten at home or sold. It is always unprofitable to feed chickens or cattle when there is no prospect of their producing a profit. P. H. Gooding, leader Clemson Poultry Extension Work, urges farmers to participate in the campaign to reduce the number of nonlaying, nonpaying hens on the farms of the state. If each family will eat one such hen a week for the next six weeks the average flock should be placed on a much more profitable basis and a great deal will be accomplished toward saving grain.

During the past ten days we have had a number of people requesting information on curing pork. We are glad to see this, for most families have a good deal of money tied up in their hogs, and, therefore, they should be especially careful to cure the meat so as to get the most benefit from it. We have Extension Bulletin No. 77, "Pork for Carolina Farmers" which contains some very valuable information. We shall be glad to furnish this bulletin free to anyone requesting it.

Another County owned dairy bull was placed in Union County last week, bringing the total number of these bulls to five. This bull is

at the farm of Mobley L. Jeter in Fish Dam Township. Farmers of that section are urged to breed their family milk cows to this well bred bull purchased and placed there for their convenience by the county. Breeding fee is only \$2.00. ^{or why} breed your cows to a scrub bull and expect to get a scrub calf?

At the peach pruning demonstrations held in Union County on November 21, Roy J. Feree, Extension Horticulturist, pointed out that the bud crop is very short in most orchards this year, and, therefore, peach growers should follow a different method of pruning. He explained that more thinning of the wood should be done this year and not so much cutting back done. More of our peach growers probably could have profited a great deal by attending the two demonstrations which he gave and following his recommendations in their own orchards.

In the past a large number of farmers have gotten very poor survival of their pine seedlings, and it is believed that a great deal of this has been due to the methods in which they were set out. On December 5 three demonstrations will be conducted in Union County, in cooperation with the State Commission of Forestry in order to show the proper methods of setting out seedlings. All farmers planning to set out pine seedlings this winter are urged to attend one of these meetings.

As we have done in past years we shall be glad to assist farmers in selecting trees for home orchards and in placing their orders. These orders should be placed right away to insure delivery at the right time. Couldn't we have more grapes on the farms of Union County? It seems to me that practically everybody likes grapes and they are not hard to raise. Yet one finds very few grape vines in the county.

Most families have less milk during the winter months than at any other time during the year. Cows and heifers bred in December will freshen next September and October and should supply the family with an ample supply of milk and butter during the late fall and winter.

Mrs. L. O. Belue and Mr. R. J. Crocker will represent Union County at the meeting of the State Agricultural committee in Columbia Tuesday, December 2. According to information which I have received a very instructive program has been planned.



BOTTOMLANDS BEING CLEARED on the farm of Pinckney Berry in Union County. "Along creeks such as these," Union Farm Agent W. J. Martin points out, "are areas which will furnish excellent grazing for livestock if cleared and seeded to desirable pasture grasses and legumes."

Piedmont Area's Livestock Industry Requires Grazing Crops, Permanent Pastures

W. J. MARTIN

Union County Farm Agent

During the past several months we have talked a great deal about the importance of grazing crops—both permanent pastures and annual grazing.

In my opinion, this is something that must be given a great deal of attention if our livestock program continues to improve. There is a large number of cattle in Union County and in the surrounding counties, for that matter, which could be furnishing more profit to their owners if they were supplied with an abundance of grazing crops which they can harvest themselves, thus cutting the cost of feed production to a minimum.

I FEEL THAT some progress is being made in this field, for it seems to me that more and more people are using annual grazing crops and are attempting to establish new permanent pastures or are improving their old ones.

J. B. Stone and Judge A. C. Kennedy have used mixtures of grain and crimson clover very successfully this winter in grazing their beef cattle.

Hilton Smith, H. O. Lawson, the Jordan Brothers and A. P. Hopkins have had some very good winter grazing for dairy cattle.

BUDDY FOWLER has used small grains for grazing his beef cattle and has also been doing some work in improving his permanent pastures and in establishing new pastures.

It was on Pinckney Berry's farm

recently while the ground was too wet for work in the field and found a number of the farm hands busy clearing some creek bottoms for permanent pastures. We have large areas along the creeks which, if cleared of willows, alders, etc., and seeded to desirable pasture grasses and legumes would furnish excellent grazing.

A. P. HOPKINS is establishing a new pasture this year on some bottomland, seeding a mixture of dallis grass, ladino clover and lespedeza and applying lime fertilizer.

I mention these few names merely to point out the fact that more of our farm people are realizing the value of grazing and are attempting to do something something about it.

All of this reminds me of the importance of planning for summer grazing for our dairy cattle. Permanent pastures should be the basis of summertime grazing, but we must also remember that we may expect hot, dry spells when growth of permanent pastures will be severely injured. Pearl millet planted at the rate of $\frac{1}{2}$ acre per cow will help to carry the cattle over these periods. Millet should be seeded during May or the first part of June in 2 to 2 $\frac{1}{2}$ ft. rows or broadcast. The seed bed should be well prepared and 300 to 400 pounds of a complete fertilizer applied per acre. This practice is valuable not only for the commercial dairyman, but the average farmer will find that it will pay with his family milk cow.

Union County Club Boys In Spotlight

BY W. J. MARTIN

Union County Farm Agent

I recently attended the Selldale dispersal sale at Greenwood with some of the Union County Guernsey breeders, 4-H Club boys and their fathers.

We saw some nice dairy animals sold and were able to purchase 3 calves for Union County 4-H Club members.

These members are John Bailes, Marion Williams and Reid Palmer.

All are deeply interested in club work and should help us have a much better Union County Dairy Calf Club. John is one of the new club members, having just become 10 years of age. Marion and Reid have been club members for a year

or 2 and have done some fine work with other demonstrations.

We have other boys and girls who want calves which we shall purchase as soon as we locate something suitable.

PAUL BROWN of Edgar-Brown-Bailey Funeral Home, has one of the best home-made brooders I have ever seen. I would like for some of our farmers who have a limited space for raising chicks to see it. Mr. Brown has told me he would be glad to show it to anybody who would come by. The brooder is built very much like the one for which county agents and home demonstration agents will gladly furnish plans, but what impressed me was the very sanitary conditions under which the chicks are raised. This is one



MARTIN

of the most important factors to be considered in raising poultry.

DURING THE past week 2 more farmers, W. G. Bishop and H. E. Crocker, both of Santuc, have entered the South Carolina 5-Acre Cotton Contest.

H. E. Crocker, Y. E. Holcomb, Dupree Bogan and Marion Williams, a 4-H Club member, have entered the County 3-Acre Corn Contest. We are glad to have these contestants and hope to have several others before the closing date arrives.

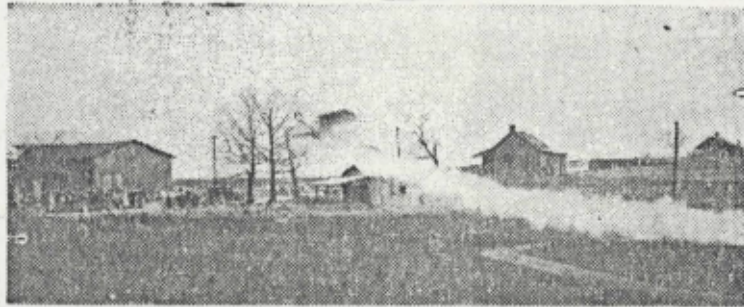
Call by the County Agent's office at your first opportunity and sign an enrollment blank.

ALL UNION County Dairy Calf Club members are asked to meet at the county agent's office Saturday, April 26, 10 a.m. We hope to formally organize the club and elect officers to serve for 1947.

Monthly meetings will be held and the clubsters will discuss their problems and study lessons which will be of help to them in taking better care of their animals. The lesson for the first meeting will include such subjects as feeding dairy calves and raising feed for dairy animals.

At present, 11 members own registered guernseys and 8 own registered jerseys.

We are glad to welcome Jack Fagan back to Union County as manager of the Pleasant View Farm located at Jonesville. Jack served as County Agent for about a year and a half while I was in the Army and made many friends in every section of the county. I know they all join me in saying we are glad to have him back in the county and wishing him luck in his new job.



PLANE TOP DRESSING GRAIN at Kelly in Union County. (Read Farm Agent W. J. Martin's account of this interesting and successful demonstration.)

Cotton, Corn, Peas, 4-H In Union Report

BY W. J. MARTIN

Farmers of that community to stop and see them before Mr. Vanderford turns them under. After these peas are turned, Mr. Vanderford is going to plant this plot of about 2½ acres to corn. He has agreed to plant one acre to hybrid corn and the rest to the corn which he usually plants so that he and his neighbors can observe the 2 growing side by side. Observe this demonstration throughout the year and form your own opinion.

IT WOULD PROBABLY benefit us to watch some of Mr. Vanderford's other practices, too, for he does not depend entirely on one crop for his income. In addition to producing corn, cotton and grain, he grows a few sweet potatoes for sale to local markets, sells eggs, butter, butter milk and other things. That is putting into practice "More Income—Better Farm Living."

The 3 brothers—Haskell, Garris and Autrey Ivey Jr.—of the Jonesville 4-H Club, all have poultry for their demonstrations this year. Haskell and Garris are in poultry club work for the first year, each one having purchased 100 baby

chicks, but Autrey, Jr. is in his second year of poultry club work, having participated in the Sears-Roebuck contest last year. The hens which he raised in the contest are laying well. He told me his production averaged 70 per cent during the month of March. Autrey Jr. is taking part in the 4-H safety contest this year and is also keeping a complete farm account record.

I THINK THAT everybody who was at Kelly last Tuesday afternoon to witness the demonstration of top dressing grain by using an airplane to distribute the fertilizer was made to realize more than ever the progress which has been made in adapting new machinery and new ideas to agriculture in order to reduce the amount of labor required to produce a crop.

The Victor Fertilizer Co. of Chester and Max Mullis of the Airplane Crop Dusting Service located at Rock Hill, cooperated in this demonstration during which one ton of fertilizer was applied to 5 acres of grain in 35 minutes.

A particularly hard field to approach with a plane was selected for the demonstration in order to show that the plane can be used for applying fertilizer or for dusting in almost any field.

Several people were heard to remark that if it would do the job on that field it ought to do it anywhere.

Respectfully submitted,

W. J. Martin
W. J. Martin, County
Agricultural Agent