

# ANNUAL REPORT

## COUNTY AGENT WORK

*Williamsburg*  
County

SOUTH CAROLINA

1947

*R. A. JACKSON*

County Agent

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Assistant County Agent

Assistant County Agent

Farm Labor Assistant

CLEMSON AGRICULTURAL COLLEGE

Cooperating with

UNITED STATES DEPARTMENT OF AGRICULTURE

EXTENSION SERVICE

D. W. Watkins, Director

Clemson, South Carolina

DEC 14 1947

ANNUAL REPORT OF COUNTY AGENTS' WORK

WILLIAMSBURG COUNTY, SOUTH CAROLINA

1947

R. A. Jackson, County Agent

L. B. Harrington, Assistant County Agent

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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



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## SUMMARY OF ACTIVITIES AND ACCOMPLISHMENTS

### GENERAL ACTIVITIES

1. Days agents spent in office.....	158
2. Days agents spent in field.....	446 $\frac{1}{2}$
3. Days agents worked.....	604 $\frac{1}{2}$
4. Miles agents traveled.....	23,212
5. Farm visits.....	1,197
6. Different farms visited.....	762
7. Office calls at agents' office.....	3,676
8. Telephone calls at agents' office.....	786
9. Meetings held or attended.....	109
10. Attendance at these meetings.....	3,693
11. Number communities in which extension work was conducted...	14
12. Number farmers conducting demonstrations.....	112
13. Number voluntary community leaders assisting with extension program.....	176

### FIFTEEN-POINT FOOD AND FEED PROGRAM

With the assistance of county agricultural committee and community and neighborhood leaders, plans were formulated for the conduct of the 15-Point Food and Feed program. During a two weeks period in February, committeemen and neighborhood leaders assisted in conducting contact program within their communities. To further the program the local newspaper, merchants, lumber supply dealers, seedmen and fertilizer dealers were solicited and they cooperated in a publicity and advertising program, using materials furnished by the extension service to bring to the attention of all farm people the importance of the objectives of the program.

### PROJECT ACTIVITIES AND RESULTS

#### Agricultural Economics

One county wide outlook meeting was held with 70 farmers and farm women attending. Nine community outlook meetings were held to inform neighborhood leaders and other interested farmers. Two farmers requested and received complete farm account records. Agents cooperated with credit agencies in loaning \$869,875.00 to 1967 farmers to finance farming production operations. The agents assisted 43 farmers with labor placements or swapping labor. One hundred seven seasonal workers were placed, working 1070 days. Twenty one farmers were assisted in farm planning with 24 making definite progress in increasing income



by rearrangement of cropping and livestock systems. Fourteen veterans were assisted in the locating of suitable farms for purchase.

### Agricultural Engineering

Farm building plans were furnished 122 interested farmers which included 9 dwelling plans, 7 poultry houses, 7 brooder house plans, 27 homemade brooder units, 2 general barns, 2 dairy barns, 12 hog houses, 7 hog self-feeders and 22 hay curing racks. Farmers were assisted in obtaining electric service in 9 communities. Assisted with suggestions to 44 farmers in repair of farm dwellings. Assistance was given in installation of 14 farm water systems. Four soy bean seed harvesting demonstrations were conducted. Farmers were assisted in care and repair of farm machinery by personal visits and by news articles. Gin visitations were made to all cotton gins in the county to assist them in proper ginning of cotton. Cooperated with directors and personnel of Soil Conservation district in land use plans.

### Agronomy

Ten farmers conducted five acre cotton improvement contest demonstrations producing an average of 509 pounds of lint cotton per acre. The agents assisted 28 farmers purchase 306 bushels of cotton seed direct from breeder. Fertilizer problems were discussed at farmers meetings. News articles were published to aid in preparation of seed cotton before ginning. Four corn production and 4 hybrid corn production demonstrations were completed, yielding more than twice the county average production per acre. One Serécia lespedeza and 3 soy bean for seed demonstrations were completed. Four lespedeza for hay demonstrations were conducted showing an average of 2.1 tons per acre at a cost of \$7.11 per ton. Two oat production demonstrations, yielding 45 bushels per acre, and 4 wheat production demonstrations, yielding 29 bushels per acre, were conducted. Placed 30,370 pounds of legume seed with 240 farmers. One soil improvement demonstration using crotalaria was completed. Seventeen farmers completed plant and tobacco production demonstrations. Three demonstrations were completed in sugar cane production for syrup for home use. Three demonstrations showing the value temporary grazing crops were completed. Fourteen farmers kept records of grazing on permanent pasture demonstrations. Three farmers started pastures using alta Fescue.

### Animal Husbandry

Placed 8 purebred boars, 13 purebred gilts, 5 purebred beef bulls with 26 farmers. Assisted farmers in marketing of 3,561 hogs for a total of \$163,491.86. Assisted farmers in production and curing of home meat supply. Twenty two hundred nine farmers used local facilities for curing 430,798 pounds of meat. Eight 4-H club members fed, showed and sold beef club steers at livestock show. Ten 4-H club members were assisted in selection of steers to be fed this winter. Two hog feeding demonstrations were completed.



### Dairying

Placed 2 purebred dairy bulls and 3 purebred heifers and 24 high grade cows and heifers for family milk cows. Assisted 42 farmers in growing of summer grazing crops. Eighty seven farmers were assisted in growing winter grazing crops. Seventy three farmers were assisted in starting or improving pastures for family cow. Plans for combination dairy and milk barns were furnished three prospective dairymen. Conducted "Milk Production for Family Use" campaign.

### Entomology and Plant Pathology

Campaigns to control cotton diseases and insects were conducted. Two fence post treatment demonstrations were continued. Three hundred seven farmers were furnished control measures for garden and truck insects. Thirty six farmers were assisted in control of cattle lice. All beekeepers were visited to offer suggestions regarding beekeeping. Three transferring demonstrations were conducted. Farmers were advised regarding the use of D.D.T. insect control.

### Forestry

Thirteen woodland examinations and selective cutting demonstrations were completed. Three farmers entered 5-acre pulpwood thinning contest and completed demonstrations, winning the \$50 county awards. Conducted rural fire prevention program among farmers and 4-H club members. Twenty one thousand forest trees were planted and 30 4-H club members planted 240 cork acorns. Conducted arbor day program; conducted rural fire prevention campaign; cooperated with State Forestry Service in fire prevention program.

### Four-H Club Work

Eight community clubs were organized with 222 members, 185 of which completed demonstrations producing farm products with a value of \$13,137.99 and realizing a profit of \$6,144.46. One 4-H camp and one 4-H council meeting were held. Seven members completed demonstrations in growing purebred gilts sponsored by Sears Roebuck. Forty one members attended 4-H club camp. Eight members fed and exhibited 10 beef animals at livestock show. Four members exhibited agricultural products at state and county fair.

### Horticulture

Four home garden demonstrations were completed in cooperation with home agent, and home gardening campaign was conducted in connection with 15-Point Food and Feed program. In sweet potato work one fire heated hotbed demonstration and two sweet potato production demonstrations were completed with production of 108 bushels of No. 1's per acre. One harvesting and grading demonstration was conducted. Seven farmers were assisted in tobacco barn conversion for curing sweet potatoes. Nine farmers were assisted in purchase of 132 fruit and nut trees.



### Marketing

Assisted farmers in marketing farm products at value of \$186,052.73 and in the cooperative purchase of farm supplies at value of \$18,278.29.

### Poultry

One turkey grower cooperated with National Poultry Improvement Plan and received \$11.00 profit. Two vaccination demonstrations were completed.

### Visual Instruction

Showed educational motion pictures at 16 meetings with 1079 people present. Charts and maps were used at 109 meetings attended by 3693 farm people and 4-H club members.

### Publicity

Eleven hundred forty personal letters were written. Fifteen circular letters were prepared with 8,217 copies mailed. A weekly news column was published in local paper 47 weeks; 3703 bulletins and leaflets were distributed.



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

## County Agricultural Committees

The county is made up of fourteen established communities, each having a community center, such as a town, school, church, or other center where farm people customarily come together. In turn the communities of the county are made up of 43 neighborhoods, each of which includes from 35 to 120 families who know each other, and in instances have as a center a church, school or a country store.

In 41 of the 43 neighborhoods of the county, the agents have assisted them in organizing themselves into groups who have selected farm and home leaders to represent themselves in matters pertaining to their agricultural interest. The leaders of the several neighborhoods have been assisted in the organization of community committees, around their community centers. The community committee, composed of neighborhood leaders, selected a farmer or farm woman to represent the community on the county agricultural committee. Thus, the county agricultural committee includes in its membership representation from each community and neighborhood in the county. The agricultural committee has, in addition, one ex-officio representative from each of the state and federal agencies working with the farm people of the county.

The county, community and neighborhood committees meet at the call of the county and assistant agents and home agent, or at the call of one of the members of the committee to decide matters pertaining to their interest, and to assist the extension agents in the development, conduct and coordination of county agricultural programs of work. Listed below are names and addresses of the farmer members of the committee.

## County Agricultural Committee

Mrs. D. A. McIntosh, New Zion, S.C., Chairman  
R. A. Jackson, County Agent, Kingstree, S.C.  
L. B. Harrington, Asst. County Agent, Kingstree, S.C.  
Myrtle R. Hatchell, Home Agent, Kingstree, S.C.  
Gwendolyn Klintworth, Asst. Home Agent, Kingstree, S.C.  
Mrs. F.C. Baker, Rt. 1, Cades, S.C.  
Mrs. E. E. Buckles, Rt. 1, Salters, S.C.  
G. H. Camlin, Rt. 3, Andrews, S. C.  
J. B. Clarkson, Lanes, S.C.  
S. E. Cooper, Rt. 3, Andrews, S.C.  
R. F. Epps, Cades, S.C.  
T. O. Epps, Rt. 1, Kingstree, S.C.  
Mrs. J. O. Hardee, Rt. 2, Greelyville, S.C.  
E. J. Matthews, RFD, Hemingway, S.C.  
H. O. Morris, Rt. 1, Andrews, S.C.  
Mrs. Janie H. Moore, Rt. 2, Lake City, S.C.  
R. L. Mims, Rt. 2, Greelyville, S.C.  
M. J. Parrott, Rt. 3, Salters, S.C.  
W. T. Phillips, Rt. 1, Kingstree, S.C.  
E. R. Rowell, Trio, S.C.  
P. A. Thompson, Rt. 4, Hemingway, S.C.  
John F. Williamson, RFD, Cades, S.C.



### Executive Committee

Mrs. D. A. McIntosh, New Zion, S.C., Chairman  
T. O. Epps, Kingstree, S.C., Rt. 1  
R. L. Mims, Rt. 2, Greelyville, S.C.

### County Sub Farm Labor Committee

G. H. Camlin, Rt. 1, Andrews, S.C., Chairman  
R. F. Epps, Cades, S.C.  
Mrs. D. A. McIntosh, New Zion, S.C.  
Mrs. Janie H. Moore, Lake City, S.C.  
P. A. Thompson, Rt. 4, Hemingway, S.C.

### Veterans Assistance Committee

W. T. Phillips, Kingstree, S.C., Chairman  
E. J. Matthews, Hemingway, S.C.  
S. E. Cooper, Rt. 4, Andrews, S.C.  
Mrs. J. O. Hardee, Rt. 2, Greelyville, S.C.

### Post-War Planning Committee

T. O. Epps, Rt. 1, Kingstree, S.C., Chairman  
E. J. Matthews, RFD, Hemingway, S.C.  
Mrs. E. E. Buckles, Rt. 1, Salters, S.C.

### Marketing Committee

W. T. Phillips, Rt. 1, Kingstree, S.C., Chairman  
M. J. Parrott, Rt. 3, Salters, S.C.  
Mrs. F. C. Baker, RFD, Cades, S.C.  
R. F. Epps, Cades, S.C.

### Nutrition Committee

Miss Myrtle Hatchell, Kingstree, S.C., Chairman  
Mrs. Janie H. Moore, Lake City, S.C.  
Mrs. E. E. Buckles, Rt. 1, Salters, S.C.

### Members Elected to State Agricultural Committee

R. L. Mims, Rt. 2, Greelyville, S.C., Chairman  
Mrs. D. A. McIntosh, New Zion, S.C.  
W. T. Phillips, Rt. 1, Kingstree, S.C., Alternate  
Mrs. E. E. Buckles, Rt. 1, Salters, S.C., Alternate

### Duties and Responsibilities of County Agricultural Committee

It is the duty and responsibility of the county committee to guide and formulate the agricultural program to be carried out in the county. To determine the kind of program most needed and required for the betterment of farming conditions in all sections of the county, county committee members work close with neighborhood leaders of each community. This procedure gives county committee best possible information in the formulation of the county agricultural program and allows the use of community and neighborhood leadership in conduct of agricultural programs.

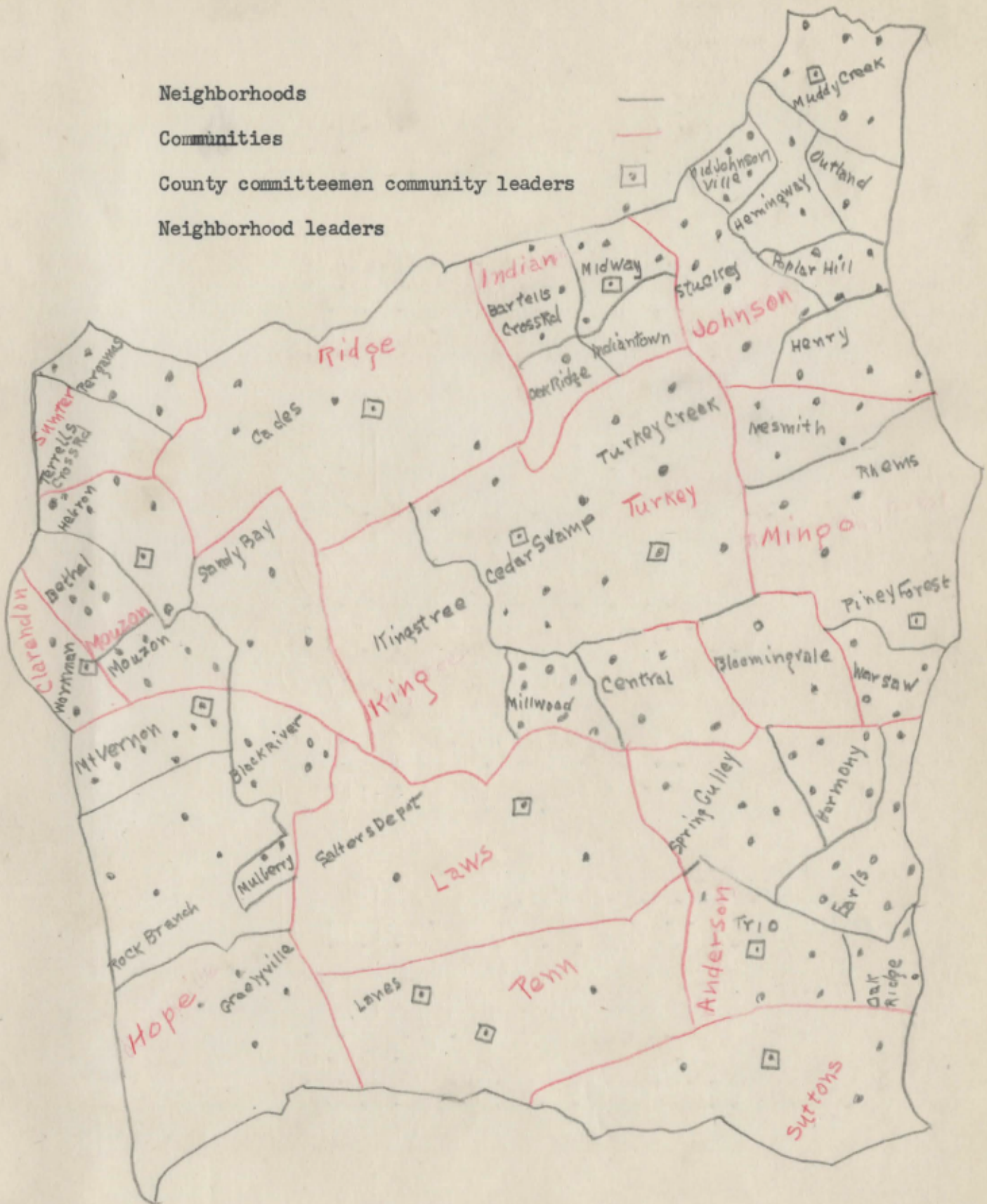


Neighborhoods

Communities

County committeemen community leaders

Neighborhood leaders



Community Agricultural Committees and Neighborhood Leaders

In building and conducting the county agricultural programs, the neighborhood leaders assist the agents in the holding of neighborhood and community meetings of farm people. The purpose of program is discussed and effort coordinated in the carrying out of recommendations for advancement of agriculture in the county. These voluntary leaders are also responsible for making the many contacts in carrying on the regular and emergency agricultural programs.

The names of the organized communities and neighborhoods and the number of leaders serving as committeemen are as follows:

<u>Community</u>	<u>Neighborhood</u>	<u>No. Leaders</u>
Hope	Greelyville	4
	Rock Branch	5
	Mt. Vernon	7
	Black River	5
	Mulberry	2
King	Cedar Swamp	8
	Millwood	7
	Central	4
Clarendon	Workman	3
Laws	Salters	5
Perm	Lanes	5
Anderson	Harmony	5
	Earls	9
	Spring Gully	4
	Trio	6
	Oak Ridge	3
Johnson	Muddy Creek	11
	Henry	4
	Poplar Hill	4
	Hemingway-Outland Highway	3
	Old Johnsonville	4
	stuckeys	6
Mouzon	Hebron	7
	Bethel	4
	Mouzon	5
	Sandy Bay	3
Sumter	Pergamos	5
Suttons	Suttons	4
Turkey	Bloomingvale	2
	Turkey Creek	5

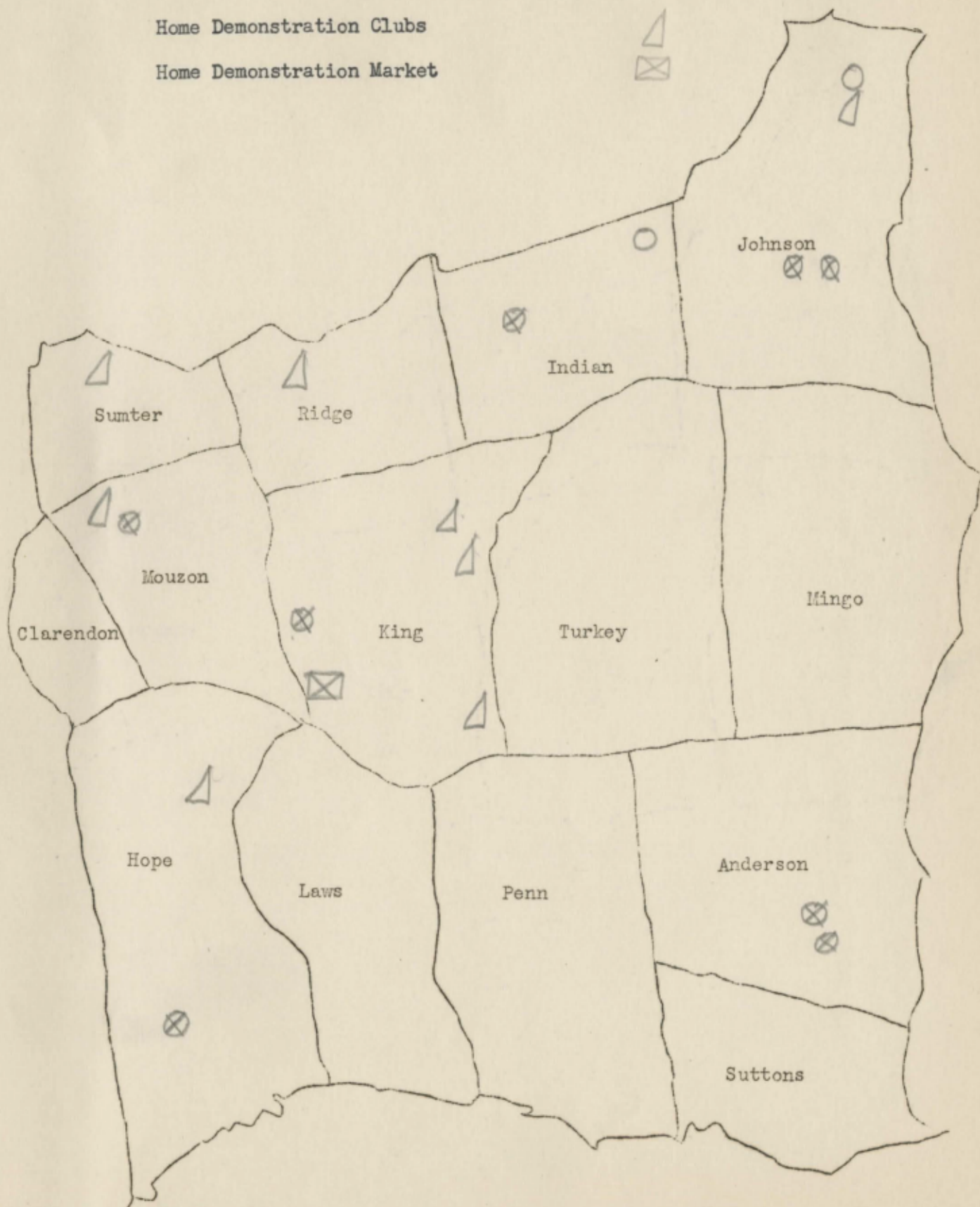
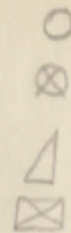


Girls' 4-H Clubs

Joint Boys and Girls 4-H Clubs

Home Demonstration Clubs

Home Demonstration Market





<u>Community</u>	<u>Neighborhood</u>	<u>No. Leaders</u>
Mingo	Warsaw	4
	Nesmith	5
	Rhem - Piney Forest	3
Indian	Midway & Old Field	6
	Bartell's Cross Road - up	4
Ridge	Cades	5

#### AGRICULTURAL PROGRAMS OR CAMPAIGNS HANDLED THROUGH VOLUNTARY LEADERS IN 1947

Voluntary county, community and neighborhood leaders conducted or assisted in conduct of the following programs among farm people in 1947:

1. 15-point food and feed program
2. County liming program
3. Home Gardening program
4. Seeding and harvesting small grains
5. Farm labor program
6. County nutrition program
7. Food and feed production and conservation

#### 15-Point Food and Feed Program

To assist our farmers make the necessary transition from an all out production program to a program of good safe farming, the 15-point food and feed program was conducted during 1947 by the agents with assistance of county agricultural committee, community and neighborhood leaders.

During the two weeks' period, February 13th through 20th, the committeemen and leaders conducted a contact program among their neighbors at the churches, stores and in the fields to urge them in the use of every facility at their command. The leaders in making these contacts urged their neighbors to make plans and secure needed production goods in order to make most efficient use of available labor and equipment, and to overcome transportation shortages in so far as possible. They were also urged to get planting seed in order that they would have them at planting time, to order repair parts and make needed equipment repairs, order fertilizer early and use them liberally to all food and feed crops. They were also urged to make plans for swapping labor and equipment with neighbors, make



repairs on buildings, make plans to fertilize spring grain crop heavily, and to provide storage and markets for crops of our greatest post war effort in food and feed production.

In furthering this program, the local newspaper and all merchants, seedmen, dealers, etc., of the county were solicited to cooperate in a publicity and advertising effort to bring to the attention of all farm people the importance of the 15-point program.

#### County Liming Program

The soil improvement program has been continued in 1947 with full cooperation of all government agencies operating in the county, with assistance of agents, vocational teachers, committeemen and neighborhood leaders.

Community and neighborhood leaders assisted in the educational phases of the program among their neighbors. As a result of educational work done, 640 farmers applied for and received 6,435 tons of limestone; 142 farmers applied for and received 256.8 tons of phosphate; and 13 farmers received 5,300 pounds of legume seed as a grant of aid through the agricultural conservation association.

#### Home Gardening Program

As a phase of the 15-point food and feed program, the garden program was conducted in 1947. As in the past, county and neighborhood leaders were instructed and they assisted in the conduct of the program. Special emphasis was placed on the simple type of garden that could be grown in an enclosure or in the field, which included only a limited number of easily grown adaptable vegetables of the green, leafy and yellow kinds, tomatoes and potatoes.

Printed matter in the form of bulletins, circulars and informational cards were distributed to 4-H club members, leaders, and farmers and farm women attending meetings held in the spring. The goal in the county was to have one of these simple gardens on every farm in the county, including renters and sharecroppers.

#### Seeding and Harvesting Small Grains

Community and neighborhood leaders gave their time liberally in assisting the agents in the conduct of the annual small grain campaign to produce more food and feed grains in connection with the 15-point food and feed program. Since 1940, committeemen have conducted a contact program to get the wheat and oat acreage increased in the county to an amount sufficient to take care of food and feed needs. As a result of yearly campaigns, the oat and wheat



acreage has been increased from 4190 acres of oats in 1940 to approximately 12,360 acres in 1947, and the wheat acreage has been increased from 175 acres in 1940 to approximately 1,250 acres in 1947.

To assist in the harvest of the grain crops, leaders advised with their neighbors regarding preparation and seeding of the crop, and assisted the agents in mapping routes for efficient use of available combines in the harvest of these crops.

#### County Nutrition Program

The agents continued their cooperation with the county nutrition committee in assisting in the formulation and conduct of the county nutrition program. The nutrition groups worked with and assisted school authorities in sponsoring school lunch programs. The nutrition committee assisted the extension agents in the conduct of the home gardening program carried out in the county this year in an effort to improve the nutritional standards among all people of the county.

A talk on nutrition was given at the Cedar Swamp P.T.A. Bulletins on enriched corn meal, a good breakfast, whole wheat and peanuts at meal time was given to those present. By request of the teachers several bulletins were left at the school for distribution among other women. Specialist in charge of the enrichment program gave an all day demonstration in corn enrichment at the farm labor saving show.

#### Farm Labor Program

Volunteer leaders cooperated in the conduct of the farm labor program by furnishing valuable information needed in finding surplus labor, and furnishing names of neighbors who needed labor to grow and harvest their crops. In communities where it was feasible to exchange labor and implements, they cooperated fully in the program. The leaders also cooperated with the agents in conducting the Farm Labor Saving Show held at the county seat on November 19. Twenty one hundred interested farmers, farm women, 4-H club members and others attended the show.

#### Food and Feed Production and Conservation

To conduct this important phase of the 15-point food and feed program, the agents trained neighborhood leaders to enable them to carry out the production and conservation program among their neighbors.



After the leaders were trained they contacted all farm families to enlist their interest in the program and to offer suggestions and advise regarding the program.

This year the program resulted in the conserving of 441,521 fars of fruit, vegetables and meat, 430,798 pounds of meat cured, and 142,621 pounds of meat, fruits and vegetables frozen.



## PROJECT ACTIVITIES AND RESULTS

### AGRICULTURAL ECONOMICS

Work in agricultural economics and farm management in 1947 included outlook meetings, complete farm accounts and cooperation with Farm Credit Agencies.

Outlook Meetings: The annual county outlook meeting was held at the county courthouse on January 30, 1947, at which time the district extension agent and specialist presented farm and home outlook information, and discussed county goals for 1947 to 70 farmers and farm women of the county.

Following the county meeting, a series of nine community and neighborhood meetings were held with 135 leaders and farmers attending. Outlook information presented was used as a basis for formulating the community programs for the year.

The information presented at these yearly outlook meetings by the Extension Service enabled farmers to make adjustments in plans for production of food and feed crops and the planting of supplementary cash crops to supplement income from cotton and tobacco. The information furnished this spring was used as a basis for asking farmers to adopt a program of good safe farming and cooperate with production goals in connection with National and State Farm Victory program. Many of the adjustments made to meet goals set for food and feed crops are results of outlook information furnished by the Extension Service to farmers through meetings, publicity, and by personal contacts by community and neighborhood leaders.

Complete Farm Accounts: Two farmers kept complete farm records on their operations in 1947. These records, if available, will be submitted to the extension farm management division for summary and analysis, the results of which, when available, will be used in connection with corresponding records from other and similar records from the tobacco area as a source of material for extension work in farm planning and management in Williamsburg County. A list of farmers keeping complete farm records follows below:

#### List of Farm Record Demonstrations--1947

Name	Address	Size of Farm		Type of Farming
		Acres		
L. E. Parnell	Hemingway	114		Tobacco-General
J. C. Baker	Cades	77		Tobacco-Dairying



Cooperation with Farm Credit Agencies: The county agents cooperated with the Kingstree Production Credit Association and the Farm Home Administration in their work of extending farm credit to the farmers of Williamsburg County.

The county agents advised farmers throughout the year with reference to available sources of credit and aid. They also have assisted in an advisory capacity to the directors and advisory councils of credit agencies in the development and carrying out of their plans, and have assisted administrative officers in selecting committee-men and advisors. Listed below is a summary of loans made by these agencies in 1947.

Summary Loans made by Production Credit Agencies

Agency	No. Farmers Served	Amount
Kingstree Production Credit Assn.	552	\$ 386,260.00
Farm Home Administration	1415	483,615.00
Total	1967	\$ 869,875.00

Farm Planning demonstrations: In cooperation with the extension farm management division, the county agents worked out farm management and pasture plans on the farms of 21 Williamsburg County farmers. The 1947 crop and livestock plan for each farm was developed with the farmer himself, and definite progress has been made in 21 of these cases, to the point that they have been able to substantially improve their farm set-up and farm income.

A list of these planning demonstrators is given below.

List Farm Planning Demonstrations

Name	Address	Acres in Farm
W. D. Epps	Cades	281
L.L. Rogers	Hemingway	248
C. W. Stuckey	Nesmith	326
W. I. Epps	Kingstree	300
J. C. Epps	Kingstree	450
J. C. Baker	Cades	60
J. B. Crooks	Kingstree	175
W. E. Burgeeee	Greelyville	187
C. M. Brown	Andrews	289
T. D. Gamble	Henry	300
F. A. Hanna	Kingstree	251
Gamble Smith	Kingstree	530
E. J. Matthews	Hemingway	282



T. T. Parrott	Cades	72
John A. Spivey	Salters	315
R. L. Mims	Greelyville	350
L. A. Wallace	Cades	200
W. E. Timmons	Greelyville	182
J. P. Coward	Kingstree	160
Tom Kellehan	Kingstree	158
R. M. Stuckey	Nesmith	792

This work will be continued, and, as time permits, will be enlarged to demonstrate that careful farm planning can aid farmers to put their farms on a sounder basis.

Efficient Use of Farm Labor: Farm families were assisted by the agents in job analysis of farm work as a means of using available labor most efficiently. In many instances, by doing jobs by steps, all unnecessary parts were eliminated or was divided in such a way that fewer workers could do the same work.

Farmers have been urged to make all possible use of implements and machinery and were assisted in making swaps of hand labor for use of machinery and other equipment.

The recruitment and placement of farm labor continued in 1947 with the registering of 107 seasonal workers for seasonal work in planting, cultivating and harvesting tobacco, cotton and food and feed crops. These workers were assisted in obtaining work on 43 different farms, working 1,070 days.

Owners and operators of labor saving machinery, tractors, combines, grain drills, peanut pickers and tillers were contacted throughout the year and were assisted in working out schedules of operation when doing custom work in order to fully utilize the equipment. Tractor owners assisted 46 farmers in preparation of land for planting. Exchange of labor between neighbors was a general practice in the planting and harvesting of tobacco.

Assistance to Veterans: Assistance has been given 14 veterans by the agents in the locating of suitable farms for purchase, and advice given in production credit financing. Assistance has been given also in repair of buildings, and plans furnished for the erection of new buildings where needed. Throughout the year, veterans have been supplied with poultry, livestock and crop bulletins and other pertinent information needed by them.

#### AGRICULTURAL ENGINEERING

Agricultural engineering work done during 1947 included soil conservation, farm buildings and equipment, rural electrification,



electrical equipment repair and cotton harvesting and ginning.

### Soil Conservation

Soil conservation work for the year was in cooperation with the Williamsburg-Georgetown Soil Conservation District, which includes Williamsburg county. The Soil Conservation Service is cooperating with the district, and technicians and engineers are assigned to this county. Soil conservation meetings and demonstrations are planned and held in cooperation with the Soil Conservation Service technicians working in the county.

District Farm Plans: During the year, 25 district farm plans have been prepared by the Soil Conservation Service technicians working in the county. This brings to a total 147 farm plans in the county. Soil Conservation Service technicians estimate that 15 percent of the soil conservation practices planned on these farms have been established.

Farm Drainage: Drainage surveys have been made for 91 farmers co-operating with the district by the Soil Conservation Service technicians stationed here. The drainage of approximately 10,320 acres of cultivated land was included in the surveys, and consisted of new ditches to be dug and old ditches to be relocated and cleaned. Eight miles of new construction was completed that drained 1737 acres.

The tables given below and on the following pages give a summary of (1) Extension Educational Activities, (2) Extension Demonstrations in Establishing Soil Conservation Practices, and (3) A summary of All Soil Conservation Practices Established in the county during the year.

### Soil Conservation Report Form No. 1

#### Educational Activities, Soil Conservation

#### Williamsburg County

December 1, 1946--November 30, 1947

	Number	Attended
1. Monthly group conferences agricultural workers	3	24
2. Community educational meetings held within districts	3	60
3. Method demonstrations (establishing practices)	5	84
4. Meetings at result demonstrations	2	14



5. County agents assist farm planning	21	
6. Informational circular letters	0	
7. Informational news articles	5	
8. Soil conservation exhibits	1	2100
9. County agents meeting with district supervisors	1	5
10. District soil conservation program with 4-H clubs	0	0
11. Annual meetings of county associations	0	0
12. County or community meetings held on soil conservation district organization	0	0

Soil Conservation Report Form No. 2

Extension Demonstrations Establishing Soil Conservation Practices

Williamsburg County

December 1, 1946—November 30, 1947

1. Perennial lespedeza (field plantings)	3
2. Kudzu (meadow strips and field plantings)	0
3. Strip cropping	0
4. Permanent pastures	73
5. Summer and winter annual cover crops	365
6. Terrace construction	0
7. Terrace maintenance	0
8. Woodlot management demonstrations	3
9. Forestry practices demonstrations	3
10. Forestry plantings	3



Soil Conservation Report Form No. 3

Summary of Soil Conservation Practices Established in  
Williamsburg County During 1947

(Includes farms under district agreement, widespread application of soil conservation practices by the district, Extension demonstrations and others)

	1947
1. District farm plans	25
2. Approved rotations (acres)	4337
3. Strip rotations	0
4. Kudzu plantings (acres)	0
5. Lespedeza serecia (acres)	11
6. Pasture improved (acres)	332
7. Trees planted (acres)	0
8. Woodland improvement (acres)	10,406
9. Terracing (acres)	0
10. Tons of lime (AAA conservation material and other)	6,435
11. Tons of phosphate (AAA conservation material and other)	256.8

Farm Buildings and Equipment

Farm Building and Equipment Plans: Farm building plans prepared by the extension agricultural engineering division were furnished to farmers for the construction of the following farm buildings and equipment:



## Summary Farm Building and Equipment Plans Furnished Farmers

Building	No.
Dwellings	9
Poultry Houses	7
Brooder Houses	17
Homemade Brooder Units	27
General Barns	2
Dairy Barns	3
Hog Houses	12
Conversion Tobacco Barns	7
Hog Self-Feeders	9
Hay Curing Racks	29
TOTAL	122

Care and repair of farm buildings: The annual clean-up and paint-up campaign conducted by the home and county agents was continued in 1947 with cooperation of the county agricultural committee and county council of farm women. During the year 46 homes were repaired and 31 were repainted. Eighty-eight families were assisted in enlarging, repairing, rearranging and repainting outbuildings used for storage. Sixteen families were assisted in rebuilding and painting fences. Eighty-seven homes improved lighting facilities.

Rural Electrification

Work in connection with rural electrification program has consisted of aiding farm families secure electrical service as a labor saving aid, care and repair of electrical equipment, and installation of electric water systems. A summary of rural electrification in the county at present is summarized below:

## Summary of Rural Electrification Status--1947

Miles Lines	No. Customers Being Serviced	Prospective Customers
<u>Santee R. E. A. Cooperative</u>		
462	1474 Residences 57 Schools, Churches 108 Stores & Others	1450 Residences 30 Stores 20 Schools, Churches 2 Gins
<u>Carolina Power &amp; Light Co.</u>		
6.1	23 Residences	11 Residences
TOTALS 468.1	1,662	1,513



The preceding summary of number of prospective customers is based on surveys made by the local R. E. A. cooperative and estimates made by power company officials. All of these prospects live on or near existing lines and can be reached by short spur lines.

Electric Equipment Repair: In cooperation with home agents, twenty-seven leaders were trained to repair electric equipment and other household appliances.

Electric Water Systems: Fourteen families were advised regarding plans to make installation of electric water systems. These labor saving devices will be used to furnish water supply for residences and water for livestock.

### Farm Machinery

Seed Harvesting Demonstrations: Four demonstrations in the harvesting of farm seeds with combine was conducted in fall of 1947. A summary follows:

#### Summary of Seed Harvesting Demonstrations

Name	Crop	Type of Equipment	Acres Harvested	Pounds or bu. Harvested	Observation
T.O. Epps	S. Lespedeza	Combine	2.5	1,225 lbs.	Satisfactory
R.L. Johnson	S. Beans	Combine	7.0	108 bu.	Satisfactory
J.P. Coward	S. Beans	Combine	7.0	126 bu.	Satisfactory
D.M. Cox	S. Beans	Combine	8.0	128 bu.	Satisfactory

These demonstrations show the practicability of using the combine to save farm seeds.

Harvesting and ginning of cotton: Extension educational work this year consisted of gin visitations by the agents, and news articles giving details as to the proper harvesting, handling, and ginning of cotton. During this year three drying systems with latest improvements were installed, leaving only three gins in the county without dryers.

This work in the proper preparation of cotton for ginning, and gin visitations by the agents and specialists has resulted in a marked improvement in the condition and value of the cotton crop in the county.

### AGRONOMY

Agronomy work in 1947 consisted of demonstrations and educational work with each of the major agronomy projects. Summaries and results of demonstrations are listed according to the outline in program planning.



### Miscellaneous Activities

**Crop and Fertilizer Meetings:** Crop and fertilizer problems were discussed thoroughly at the annual outlook meeting by the extension district agent and agronomy specialist. At this meeting recommendations were made as to the proper fertilization of crops needed to feed the war suffering people of devastated countries by producing larger yields with less labor. This meeting was attended by 70 farmers and leaders who carried this information back into their neighborhoods for dissemination and action. In connection with the 15-Point Food and Feed program, neighborhood leaders were trained and in their contact program during the campaign urged their neighbors to arrange for needed fertilizers and for heavy applications for needed crops.

### Cotton

**Five-Acre Improvement Demonstrations:** Ten Williamsburg County farmers enrolled in the five-acre cotton improvement contest demonstrations in 1947, and ten completed the demonstrations submitting records. A summary of these demonstrations is given as follows:

#### Summary Results Five-Acre Cotton Improvement Demonstrations

Name	Lbs. Seed	Lbs. Lint	Value Crop	Cost Prod.	Net Profit	Lint Cost Per Lb.	Per Cent Lint	Variety
	Cotton	Lint	Crop	Prod.	Profit	Per Lb.	Lint	
M.B. Mitchum	7,100	3905	\$1459.87	\$514.35	\$945.52	13.2¢	35	C-100-W
J.W. Harrington	7,345	4125	1548.08	448.22	1099.86	10.8¢	36	C-100-W
W.L. Harrington	3,834	1966	743.59	349.56	394.03	17.8¢	34	C-100-W
J.H. Nexsen	4,200	2460	811.40	378.80	432.60	15.4¢	37	W-W-W
R.H. Moore	2,510	1480	447.78	261.84	185.94	17.7¢	37	C-100-W
J.L. Brown	3,215	1750	645.74	316.61	229.13	18.0¢	35	C-100-W
L.A. Wallace	3,250	1700	641.12	319.11	322.01	18.8¢	34	C-100-W
C.E. McGill	4,520	2430	1011.30	343.02	668.33	14.1¢	35	WG
T.S. Rogan	6,810	3207	1231.50	345.76	885.44	10.8¢	32	MW
R.L. Mims	4,290	2410	901.82	365.53	536.29	15.2¢	36	C-100-W
AVERAGE YIELD LINT PER ACRE -			509 LBS					
AVERAGE VALUE PER ACRE-----			\$188.84	COUNTY AVERAGE LINT PER ACRE 342 lbs.				
COUNTY AVERAGE VALUE PER ACRE				AVERAGE COST PER POUND 14.3¢				
1947 PRICES			\$100.87					
AVERAGE PER CENT LINT -----			35.1					

Summary cotton contest demonstration records, 1935-1947: Listed below is a yearly summary of the results of the five-acre cotton contest demonstrations in Williamsburg County for the period 1935-1947:



## Summary Cotton Contest Demonstration Records, 1935-1947

Year	No. Dem.	Lbs. Lint Per Acre	Value Per Acre	Cost Per Acre	Profit Per Acre
1935	9	529	\$ 79.14	\$36.23	\$ 42.96
1936	6	643	107.16	36.48	70.69
1937	11	573	62.29	35.52	26.18
1938	7	729	81.93	35.85	46.08
1939	12	697	80.67	35.50	45.17
1940	10	660	77.96	36.36	41.60
1941	11	357	80.66	35.24	45.42
1942	8	691	155.81	52.18	103.62
1943	7	714	176.94	63.81	113.13
1944	5	755	202.38	69.60	132.78
1945	6	486	125.52	50.14	75.38
1946	10	625	232.32	75.24	180.24
1947	10	509	188.84	72.86	113.98

The improvement in quality and length of staple of cotton grown in the county is attributed to the 5-acre improvement contest. The latest strains of best improved varieties obtainable were used by the contestants, and seed production from these will be used as a good planting seed for other farmers in the county.

Improved Seed: The campaign for cotton improvement by use of improved seed was continued this year. Because of the excessive rains during harvest season, the seed was extensively damaged and cannot be used for planting purposes. Therefore, the campaign this year is to bring in the best seed available to replace the usual seed crop produced in the county. Throughout the winter and spring, the importance of purchasing needed seed early was stressed. With the assistance of county and neighborhood leaders the matter was brought to the attention of all cotton growers. Seven news articles were published. Local seedmen cooperated in securing best seed obtainable from plant breeders and from growers that were second year from the breeder. By this concerted campaign growers obtained best available seed of recommended varieties. Three hundred six bushels were secured for 28 growers direct from the breeder at a cost of \$3.35 per bushel.

Proper harvesting and ginning of cotton: Reported under agricultural engineering.

### Corn Production

During 1947, the campaign to increase the yield of corn per acre in Williamsburg County was continued. Educational work in this phase of food and feed production during the past five years has resulted in an increased yield of 5.5 bushels per acre, which can be attributed to improved cultural practices, heavier fertilization, and use of good seed. The importance of a further increase in yields was stressed in seven news articles, and at all county and community meetings.



High nitrogen corn production demonstrations: Four corn production demonstrations using farmer's practice compared to 60 pounds of available nitrogen and 100 pounds of available nitrogen were completed this year. A summary of yields and cost follows:

#### Summary Corn Production Demonstrations

Name	Acres	Yield Bu.	Bu. Per Acre	Cost Prod.	Cost Per Bu.	Value Crop	Profit
(R.L. Mims	3	136.0	45.3	\$ 98.33	72.3	\$272.00	\$173.67
( 60# N	1	47.3	47.3	30.31	64.1	94.60	64.29
( 100# N	1	73.7	73.7	42.30	57.3	147.40	105.10
(H.E. Hughes	4	154.0	38.5	92.16	59.8	308.00	215.84
( 60# N	1	55.8	55.8	38.69	69.3	111.60	72.91
( 100# N	1	62.9	62.9	45.98	73.1	125.80	79.82
(D.M. Cox	4	177.0	44.2	92.75	52.4	354.00	261.25
( 60# N	1	54.8	54.8	28.10	51.2	109.60	81.50
( 100# N	1	59.8	59.8	38.92	65.1	119.60	80.68
(F.W. Thomas	8	430.0	53.7	215.70	50.1	860.00	644.30
( 60# N	1	70.7	70.7	34.68	49.0	141.40	106.72
( 74# N	1	67.0	67.0	38.59	57.6	134.00	95.41
TOTAL	27	1389.0	AV 51.4		57.3		

AV. PRODUCTION PER ACRE--OWN PRACTICE	47.2	COUNTY AVERAGE BUSHEL PER ACRE	22.5
AV. PRODUCTION PER ACRE-- 60# n	57.1	COUNTY AVERAGE VALUE PER ACRE	
AV. PRODUCTION PER ACRE--100# N	65.8	@ 2.00 PER BUSHEL--	\$ 45.00
		AVERAGE VALUE PER A 60# N	\$114.30
		AVERAGE VALUE PER A 100# N	131.70

#### Summary of Yield High Nitrogen Corn Production Plots

Name	Bu. Produced Own Practice	60# Nitrogen	100# Nitrogen	74# Nitrogen
R.L. Mims	45.3	47.3	73.7	
H.E. Hughes	38.5	55.8	62.9	
D.M. Cox	44.2	54.8 *	59.8 *	
F.W. Thomas	53.7	70.7		67.0 **

\* On these plots nitrogen was derived from Cyanamid. \*\* Nitrogen applied to this plot was reduced to 74# nitrogen per acre due to poor stand.

These demonstrations followed recommendations as outlined by the



extension agronomist and were planted in one acre plots on uniform lands, using 300 pounds of complete fertilizer at planting time, and extra nitrogen, bringing total nitrogen applied to 60 pounds, and 400 pounds of complete fertilizer at planting time, and extra nitrogen bring total to 100 pounds of nitrogen. The corn was cultivated with weeder and shallow sweep cultivations and was laid by when corn was 12 to 15 inches high. Demonstrations conducted by F.W. Thomas and D.M. Cox were planted with tractor equipment and was cultivated one time.



Hybrid Corn Growing Demonstrations: Three farmers completed demonstrations in the growing of hybrid varieties for comparison of yields under similar growing conditions, fertilization and cultural practices. The results from these one acre plots may be noted in following tabulation:

HYBRID CORN DEMONSTRATIONS

WILLIAMSBURG COUNTY - 1947

Name	Variety	Acreage	Yield Per Acre	Planting Date	Remarks
R. B. Lawrimore	Funks 717	1	50.4	March 27	Very little or no weevil damage
	Truckers Favorite	1	35.0	March 27	Very little or no weevil damage
	Woods S-210	1	48.0	March 27	Very little or no weevil damage
	Funks 714	1	40.6	March 27	Very little or no weevil damage
J. H. Rowell	Own	1	30.3	April 11	Weevil - none
	Woods S-210	1	41.1	April 11	Weevil - none, flinty and hard
	Funks 5-714	1	42.7	April 11	Weevils - none, flinty
	Funks 5-717	1	50.3	April 11	Weevils - very slight
J. W. Gamble	Hybrid McCurdys-1003	1	52.9	March 27	Weevils - slight
	Own	5	45.2	March 27	Weevils - none



Summary of corn production demonstrations 1936-1947: Following is a summary of results of corn demonstrations for years 1936-1947:

Summary of Corn Demonstrations:

Year	No. Dem.	No. Acres In Dem.	Yield per Acre Bu.	Cost Per Bu.	Profit Per Acre
1936	2	15.0	42.6	30.0¢	\$ 19.22
1937	25	248.0	28.4	43.5¢	8.96
1938	6	51.0	34.6	28.4¢	16.37
1939	19	129.0	28.0	39.8¢	5.65
1940	12	85.4	42.8	35.3¢	17.07
1941	12	116.2	38.2	38.3¢	14.32
1942	7	77.5	48.8	33.8¢	33.59
1943	4	35.7	57.3	39.0¢	60.17
1944	7	38.3	41.8	48.7¢	42.22
1945	5	26.3	44.3	45.2¢	44.34
1946	4	38.0	46.1	65.1¢	40.03
1947	4	27.0	51.4	57.3¢	73.38

Small Grains

Oat Production: In the production of oats two demonstrations were completed, a summary of which follows:

Summary of Oat Demonstrations

Name	Variety	Acres	Yield Bu.	Yield Per Acre	Cost	Cost Per Bu.	Value	Profit
G.F. Williamson	Fulgrain	4.0	200	50	\$109.51	54.8¢	\$250.00	\$140.49
R.C. Lane	V Grain	3.0	120	40	132.53	1.10	240.00	107.47
TOTALS		7.0	320		\$242.04	75.6¢	\$490.00	\$247.96
AVERAGE PER ACRE				45.7	\$34.58			\$ 35.42

These demonstrations show an average yield of 45.7 bushels per acre, as a result of improved methods, as compared to the average of 23 bushels per acre for the county. The cost per bushel, including rent of land, fertilizers, man and mule labor, threshing, etc. was 75.6¢ per bushel. The demonstrations returned an average profit of \$35.42 per acre to the grower.

Wheat Production: In 1947 four demonstrations in wheat production were completed, a summary of which is given as follows:



## Summary of Wheat Demonstrations

Name	Variety	Acres	Yield Bu.	Bu. Per A.	Cost	Cost per Bu.	Value	Profit
M.B. Mitchum	Red H	11	216	19.6	\$241.08	1.12	\$475.20	\$234.12
L.H. Johnson	Red H	7	280	40.0	197.52	70.5¢	630.00	432.48
C.L. Tisdale	Red H	35	1085	31.0	635.95	58.6¢	2441.00	1805.05
D.M. Cox	Red H	10	250	22.7	336.84	1.35	550.00	213.16
TOTALS		63	1831		\$1411.39		4096.20	2684.81
AVERAGES PER ACRE			29.0		\$ 22.40		65.02	\$ 42.62

This tabulation shows that these four farmers conducting wheat demonstrations produced an average yield of 29.0 bushels per acre. Due to spring drought, yields on this year's demonstrations were considerably less than the 46.6 bushels per acre produced in 1944.

As a result of efforts made by the agents and leaders through the food and feed program conducted in the county, the wheat acreage has been increased from 164 acres in 1940 to approximately 3,000 acres harvested in 1943. Since the peak acreage in 1943, the acreage has gradually declined to 1,280 acres planted this year. This was due to the impracticability of harvesting small acreages planted in inconvenient places.

The wheat produced in these demonstrations cost 77.1¢ per bushel and at prevailing prices returned a profit of \$42.62 per acre.

Legumes for Hay

Lespedeza for hay production: Four demonstrations of lespedeza for hay production were completed in 1947. A summary of these demonstrations follows:

## Summary of Demonstrations of Lespedeza for Hay Production

Name	Variety	Acres	Yield Tons	Cost Production	Cost per Ton	Value Crop	Profit
E.R. Evans	Kobe	7.0	19.5	\$188.50	\$9.45	\$682.50	\$494.00
R. Holland	Kobe	13.0	22.5	168.60	7.49	787.50	618.90
J.B. Crooks	Kobe	2.5	5.3	56.60	10.67	185.50	128.90
T.O. Epps, Jr.	Kobe	7.0	12.2	132.30	10.84	428.85	296.55
TOTALS		27.5	59.5	546.00		2084.35	1538.35
AVERAGES			2.1 tons per acre				\$ 55.94

Cost records on these demonstrations include cost of seed, lime phosphate, land rent and harvesting and handling crop and storage in barn.

Interest in lespedeza as a hay crop is not as widespread in the county as it was four years ago due to difficulties in curing as weather conditions do not generally permit a good cure.



Cowpeas for Hay Production: Two demonstrations of cowpeas for hay production demonstrations were completed in 1947. A summary of these two demonstrations follows:

Summary of Demonstrations of Cowpeas for Hay Production

Name	Variety	Acres	Yield Tons	Cost Production	Cost Per Ton	Value Crop	Profit
R.B. Guess	Mixed CP	40	41	\$523.30	12.76	\$1,435.00	\$911.70
C.L. Tisdale	Mixed CP	20	20	271.00	13.55	700.00	429.00
TOTALS		60	61	\$794.30		\$2,135.00	\$1,340.70
AVERAGE			1 T PER ACRE			22.34 PER A	

Legumes for Seed

Serecia Lespedeza for Seed Production: One demonstration of Serecia lespedeza for seed production was conducted in 1947. The harvesting of this demonstration was done with a combine. A summary follows:

Summary Serecia Lespedeza Seed Demonstration

Name	Acres	Variety	Pounds Seed	Pounds Per Acre
T.O. Epps	2.5	Serecia	1250	500

Soy beans for seed production: Three demonstrations were completed in production of soy bean seed. A summary is given as follows:

Summary Soy Beans for Seed Demonstrations

Name	Acres	Variety	Bu. Seed	Bu. Per A
D.M. Cox	8	Yelnando	128	16.0
J.P. Coward	7	Yelnando	126	18.0
R.L. Johnson	7	Palmetto	108	15.5

Harvesting of these seed is discussed under agricultural engineering.

Legumes For Soil Building

Crotalaria: One demonstration of seeding crotalaria as a soil building crop on light sandy soils was conducted in 1947. A summary of this demonstration follows:



### Summary of Crotalaria Demonstration

Name	Acres	Variety	Cost	Cost Per Acre
G.F. Williamson	7.0	G. Striata	\$50.80	\$7.25

A campaign to demonstrate to farmers the value of crotalaria and other soil building crops is conducted yearly. As a result of this work 43 acres of crotalaria was grown on sandy types of land this year. All growers used seed of high vitality which comes up to a good stand and has attracted considerable attention by making good heavy growth on poorer sandy soils of the county.

### Lime Demonstration

One lime demonstration was conducted in 1947 on the farm of W.T. Phillips of the Cedar Swamp community. The demonstration was conducted as outlined by the extension agronomy department, using two tons of limestone per acre on land that was to be planted to cotton and one ton per acre on land that was to be planted to corn. Each limed plot had an adjoining check plot. The entire demonstration received same fertilizer and cultural practices. A summary follows:

#### Summary of Lime Demonstration on Farm of W.T. Phillips

	Yield Seed Cotton per Acre	Corn Yield Bu. per Acre
Limed plot	990	56.6
Check plot	963	48.1
Difference due to lime	27	8.5

### Annual Grazing Crops

Annual Grazing Crops: The value of annual grazing crops as supplement to permanent pastures was demonstrated on three farms this year where supplementary grazing was needed to help carry cattle and milking herd. A summary follows:

#### Summary of Grazing Crop Demonstrations

Name	Acres	Crop	No. Animal Units Grazed	Total Days Grazed	Cost
J.E. Grimboll	5	P.Millet	32	50	\$95.45
M.B. Mitchum	20	Kobe Les.	19	107	40.00
J.R. Rowell	4	Kudzu	12	30	26.84
TOTALS	29		63	187	\$162.29



These demonstrations show the value of the several kinds of grazing crops that can be grown in the county and their value to the livestock industry. The crops on these demonstrations were grazed alternately with permanent pasture until eaten down.

Soil building crops: Work with soil building crops consisted of a campaign for summer and winter legumes. Importance of planting these crops for soil improvement was stressed at all meetings. Nine news articles were published in county newspaper to further this program.

As a result of this work, the county agents aided 41 farmers in purchasing cooperatively the following listed legume seed:

Hairy Vetch	560 pounds
Common Vetch	1,000 pounds
Dixie Wonder Peas	5,300 pounds
Austrian Peas	900 pounds
Crotalaria	150 pounds
Kobe Lespedeza	5,639 pounds
Crimson Clover	105 pounds
<u>TOTAL</u>	<u>13,654 pounds</u>

#### Tobacco Demonstrations

The extension program with tobacco has again been directed toward the production of higher yields of quality tobacco, and has included demonstrations of plant production, disease and insect control, enterprise demonstrations and tobacco fertilizer demonstrations.

Tobacco Plantbed Weed Control Demonstrations: Six tobacco plantbed weed control demonstrations were conducted in 1947 by use of concentrated amounts of cyanamid. A summary of the results obtained from use of this material is shown below:



### Summary Plantbed Weed Control Demonstrations

Name	No. Yards Treated	Material Used	Method Applying Material	Time & Amt. Applied Fertilizers	Results
L.E. Parnell *	200	Cyanamid	1/2 mixed 1/2 top	100# at seeding	Fair
J.B. Crooks	300	Cyanamid	2/3 mixed 1/3 top	100# at seeding	Excellent
C.E. McGill	1000	Cyanamid	2/3 mixed 1/3 top	125# at seeding	Excellent
H.M. Brown	1000	Cyanamid	9/10 mixed 1/10 top	100# at seeding	Excellent
L.G. Mishoe	600	Cyanamid	3/4 mixed 1/4 top	200# With treatment	Excellent
H.S. Williamson	1000	Cyanamid	2/3 mixed 1/3 top	100# With treatment	Excellent

\* Results fair due to plowing under materials too deep.

Blue Mold Control Using Fermate: Four demonstrations using fermate at recommended intervals were conducted this year. Results obtained may be noted below:

### Blue Mold Control Demonstrations

Name	No. Yards Treated	Kind Material Used	Times Treated	Total Pounds Used	Method	Observation
L.S. Epps	1000	Fermate	12	300	Dust	Complete Control
J.B. Crooks	700	Fermate	11	200	Dust	95% Effective
L.G. Mishoe	600	Fermate	18	300	Dust	Complete
J.M. Johnson	600	Fermate	15	300	Dust	Complete

### Tobacco Fertilizer Demonstrations

Tobacco Fertilizer Demonstrations: To determine the effects of additional potash on yields and quality of tobacco, a demonstration of this kind was conducted on the farm of C.M. Brown of the Bloomingvale community. A summary follows:



# Summary of Tobacco Fertilizer Demonstrations

Name	Fertilizer Treatment	Acres	Total Yield	Total Value	Total Cost Production	Av. Price	Yield Per A	Value Per A	Cost Prod. Per A.	Cost Per Lb.	Profit Per A.
C.M. Brown	Check	4	4478	\$1,918.38	\$826.87	42.8	1119	\$479.59	\$206.72	18.5	\$ 272.87
C.M. Brown	150# S. Pot. Mag.	4	4886	2,097.15	837.07	42.9	1221	524.28	209.27	17.1	315.01

This demonstration of 4 acres on which extra potash was applied was adjoining a four-acre plot in the same field which was used as a check. Both plots received a primary application of 1,000 pounds of 3-9-6 tobacco fertilizer per acre. The four-acre plot received 150 pounds of S. Pot. and Magnesia applied at first cultivation.



Tobacco Enterprise Demonstrations: Four tobacco enterprise demonstrations were completed by growers. These demonstrations were conducted to show value of recommended fertilization, cultural and spacing practices. A summary of the records follows:

Summary Tobacco Enterprise Demonstrations

Name	Acres	Total Yield	Total Value	Total Cost Production	Av. Price	Yield Per A	Value Per A	Cost Prod. Per A	Cost Per Lb	Profit
W.B. Epps, Jr.	1.5	1808	\$ 813.11	\$ 266.67	45.0¢	1205	\$ 548.74	\$ 177.78	14.7	\$370.96
W.B. Epps	5.0	5964	2,861.65	887.94	48.0¢	1192	572.32	177.59	14.9	394.72
C. Lewis	1.2	1882	728.54	282.76	38.6¢	1568	605.45	235.63	15.0	369.82
J.H. Lewis	3.5	5000	2,040.53	710.36	40.8¢	1429	583.00	202.96	14.2	380.04
TOTALS	11.2	14,654	\$6,443.83							
AVERAGE YIELD PER ACRE ----- 1307										
AVERAGE VALUE PER ACRE ----- \$575.34										
AVERAGE VALUE PER POUND ----- 44.0¢										
AVERAGE PROFIT PER ACRE ----- \$383.58										
							COUNTY AVERAGE YIELD 1040 LBS			
							AVERAGE COST PER POUND 14.6¢			

This summary shows that the average yield per acre was 1307 pounds and sold for an average of 44¢ per pound.



The tobacco demonstration work conducted in the county for past ten years has resulted in a large increase in yields of quality tobacco. It is estimated that thirty five hundred and forty five growers of the county have adopted one or more of the several cultural or fertilization practices that have been recommended.

Double row cultural demonstrations: Two demonstrations using wide and narrow row cultural practices were conducted this year. Results of these demonstrations follows:



# Summary Double Row Cultural Tobacco Demonstrations

Name	Acres	Total Yield	Total Value	Total Cost Prod.	Av. Price	Yield Per A	Value Per A	Cost Prod. Per A	Cost Per Pound	Profit Per A
Jack Phillips	6	9112	\$3,864.40	\$1,027.12	42.4	1519	\$644.06	\$ 171.19	11.3	\$472.87
W.T. Phillips	4	5388	2,193.00	712.78	40.7	1347	548.25	178.20	13.2	370.05



These demonstrations were planted in rows two feet apart with five foot middles. Plant were spaced in rows 15 inches apart.

#### Permanent Pasture Demonstrations

Permanent Pastures: The campaign for establishment and improvement of permanent pastures in Williamsburg County has been continued in 1947. As a result of this work during the past seven years, farmers, particularly those with cattle, are becoming more interested in pasture improvement and renovation.

During 1947, seventy-six farmers were assisted in purchasing seeds and fertilizers for pasture purposes. Growers ininterested in pasture development take advantage of the limestone and other practices offered by the local conservation association as a grant of aid.

Seven demonstrations on pastures started this winter and eight pastures planted in former years were completed this year. Summaries and results of grazing from these pastures follow:

#### Summary Permanent Pasture Demonstrations Started 1947

Name	Acres	Soil Type	Fert. Used	No. Units Days of Grazing	Grasses Seeded	Date Grazing Started & Closed
L.A. Parsons	5.0	Dunbar	2 T Lime 600# A.P. 100# M.P.	1377	5# W.D. Clover 10# Dallis 15# K. Les.	June 1 Nov. 1
R.L. Mims	5.0	Dunbar	1 T. Lime 400# 3-9-9 500# A.P. 100 # M.P.	1300	5# W.D. Clover 10# Dallis 15# K. Les.	July 1 Oct. 15
H. Grayson	3.0	Coxville	1 1/2 T. Lime	321	10# W.D. Clover 10# Dallis 15# K. Les.	July 1 Oct. 15
W.T. Phillips, Jr.	2.0	Coxville	3 T. Lime	274	8# W.D. Clover 10# Dallis 20# K. Les.	June 1 Oct. 15



C.E. McGill	2.5	Dunbar	1 T. Lime 500# 4-10-6	1216	10# W.D. Clover 10# Dallis 15# Kobe Les.	June 1 Nov. 1
H. M. Brown	3.0	Dunbar	1 T. Lime 500# A.P.	1410	50# W.D. Clover 50# Dallis 45# Kobe Les.	June 1 Nov. 1
J. D. Haddock	2.4	Dunbar	2 T. Lime 600# A.P.	342	5# W.D. Clover 10# Dallis 15# Kobe Les.	June 1 Oct. 15

## Summary Permanent Pasture Demonstrations

Name	Year Started	Acres	Soil Type	Fert. Used 1947	No. Units Days Grazing	Grasses in Sod	Date Grazing Started & Closed
J.R. Covington	1945	12.5	Dunbar	500# 3-9-9 100# M.P	2622	W.D.C. C. Les. Dallis	Apr. 15 Oct. 15
R.M. Kellehan	1946	3.0	Norfolk Dunbar	400# 3-9-9	776	W.D.C. C. Les. Dallis	Apr. 20 Nov. 1
W.D. Morris	1945	2.0	Dunbar Coxville	300# 4-10-6 200# Acid	672	W.D.C. C. Les. Dallis	Apr. 15 Oct. 1
J. Evans	1945	2.5	Norfolk Dunbar	400# 4-10-6 400# acid	688	W.D.C. Dallis C. Les.	Apr. 15 Sept. 15
C.M. Brown	1945 1946	5.0 5.0	Dunbar Coxville	100# M.P. 500# 4-10-6	3100	W.D.C. C. Les. Dallis	Apr. 15 Oct. 15
R.I. Snowden	1945	1.5	Norfolk	3 T compost 400# 3-9-6	356	W.D.C. C. Les. Dallis	Apr. 20 Oct. 15



S.A. Tisdale	1946	1.5	Dunbar	400# 3-9-6 1/2 T Lime	376	W.D.C. C. Les. Dallis	Apr. 20 Oct. 15
J.W. Brown	1945	1.5	Coxville	1600 3-9-6	698	W.D.C. C. Les. Dallis	Apr. 1

Alta Fescue Pasture Demonstrations: To introduce and to determine value of Fescue type grasses for pasture purposes, three demonstrations were started this fall. Since these demonstrations were planted this fall definite results are not available. A summary of plantings made follows:

#### Summary Alta Fescue Pasture Demonstrations

Name	No. Acres Planted	Date Planted	Observation
J.O. Hardee	1.5	Oct. 10	Stand Good
J.P. Coward	1.5	Oct. 14	Stand Good
J.M. Rogers	1.0	Oct. 24	Stand Good

Farmers planting these pastures followed recommendations furnished them regarding preparation of the soils, seeding, fertilization and lime treatment.

#### Sugar Cane

Sugar Cane Production: In connection with 15-point food and feed program, the production of sugar cane for syrup for home use has been emphasized. CO 290 cane seed stock was placed in the county several years ago and since that time it has been distributed to interested farmers all over the county to replace non-wilt resistant varieties. Records of returns were kept by three farmers this year on small plots being grown for home use. A summary follows:

#### Sugar Cane Demonstrations

Name	Acres	Variety	Total Gals. Produced	Total Cost	Value	Cost Per Gal.
J.S. Frierson	.3	CO 290	75	\$ 58.00	\$150.00	77.3¢
J.O. Hardee	.4	POJ	95	82.44	202.00	86.7¢
T.C. Jacobs	1.0	CO 290	528	361.25	1,056.00	69.0¢
TOTALS	1.7		Average			71.9¢



## ANIMAL HUSBANDRY

Animal husbandry extension work in Williamsburg County in 1947 consisted of educational work to meet the food and feed requirements of the 15 point good safe farming program, and included demonstration work with swine and beef cattle.

Swine

The program for demonstration work in 1947 included the placing of purebred sires and marketing of surplus hogs and feeding demonstrations.

Purebred Sires: Eight purebred boars were placed with farmers during 1947. The livestock specialist assisted in selecting individually placed animals as to type and quality. A record of these placings is given as follows:

## Record of Purebred Boars Placed 1947

Name	No. Boars	Breed	Cost
W.B. Epps, Jr.	1	S. Poland China	\$ 25.00
Gamble Smith	1	S. Poland China	25.00
A.M. Gordon	1	S. Poland China	25.00
R.M. Brown	1	S. Poland China	25.00
L.S. Epps	1	S. Poland China	25.00
E.E. Ellis	1	S. Poland China	25.00
J.W. Lybrand	1	Duroc	50.00
L.M. Grayson	1	Hereford	40.00
<u>TOTAL PLACED</u>	<u>8</u>		<u>\$ 240.00</u>

Following is given a record of placings of purebred boars by years in county since 1936:

## Summary Placings of Purebred Boars 1936-1947

Year	Number Placed
1936	1
1937	24
1938	13
1939	24
1940	23
1941	19
1942	22
1943	15
1944	5
1945	6
1946	7
1947	8
<u>TOTAL PLACED IN 12 YEARS</u>	<u>167</u>



As a result of the placing of these purebred boars, the quality of the hogs marketed from the county has been considerably improved.

Purebred Gilts Placed: Thirteen purebred gilts were placed with farmers and 4-H members during the year for breeding purposes. A record of these placings is as follows:

Summary of Purebred Gilts Placed - 1947

Name	No. Gilts	Breed	Price
<u>Farmers</u>			
A.M. Gordon	1	S. Poland China	\$ 25.00
M.L. Few	2	Duroc	150.00
J.W. Lybrand	2	Duroc	76.00
L.M. Grayson	1	Hereford	40.00
<u>Four-H Club Boys</u>			
Albert Michau	1	Hampshire	30.00
Marion Lamb	1	Hampshire	30.00
Donald Miller	1	S. Poland China	25.00
Carlyle Timmons	1	S. Poland China	25.00
Phillip Benford	1	S. Poland China	25.00
J.B. McCants, Jr.	1	S. Poland China	25.00
Raymond Tobias	1	S. Poland China	25.00
<u>TOTAL PLACED</u>	<u>13</u>		<u>\$ 476.00</u>

Hog Feeding Demonstrations: Much of the progress in hog production in Williamsburg County can be traced back to the feeding demonstrations started in 1925. In 1947, two demonstrations were conducted by farmers growing out hogs for market. A summary of these demonstrations follows:



# Summary Hog Feeding Demonstrations-1947

Name	No. Hogs	No. Days	Total Gain	Av. Dairy Gain	Total Corn Bu.	Total Supple- ment Pounds	Bu. Corn Per 100# Gain	Lbs. Supplement per 100# Gain	Cost per 100# Gain	Returns Per Bushel Corn
J.B. Crooks	5	41	340	2.78	27	60	8.0	17.7	\$ 13.42	\$ 3.76
W.B. Epps, Jr.	30	64	2980	1.55	225	800 F.M. 300 bu. 1000 C.S.M. cull pot.	7.5	12.5	11.31	3.72
TOTALS	35		3320			1860				
AVERAGE							7.75		\$ 12.36	\$ 3.74



This summary shows that the 35 hogs in these demonstrations made daily gains of 2.78 pounds and 1.55 pounds at an average cost of \$12.36 per 100 pounds. An average of 7.75 bushels of corn and 15 pounds of protein supplement was required per 100 pounds gain, and the hogs returned an average of \$3.74 per bushel of corn fed.

#### Summary of Hog Feeding Demonstrations 1935-1947

Year	No. Dems.	No. Hogs	Daily Gain	Cost Per 100 lbs. Gain	Returns Per Bu. of Corn
1935	1	44	1.71	\$ 4.86	\$ 1.28
1936	6	94	1.63	4.71	1.73
1937	2	54	1.65	6.14	1.29
1939	2	36	1.70	4.65	1.29
1940	1	24	1.77	5.04	.94
1941	3	52	1.92	5.03	1.27
1942	1	7	2.00	7.96	2.06
1943	1	19	1.68	10.24	2.24
1944	1	20	1.67	13.46	1.52
1947	2	35	2.15	12.36	3.74
TOTALS	20	385			
AVERAGES			1.79	\$ 7.45	\$ 1.74

Hog Marketing: The Williamsburg Livestock Marketing Association, organized by agent and specialist in 1937, continues to serve the farmers of the county in obtaining best possible prices for market hogs. The association is farmer owned and operated, and serves growers as a cash weekly market for approximately 40 weeks of the year. The association operates facilities for receiving and handling hogs at one point in the county. The association has 2249 members, all livestock producers. The association operates on a small fee of one per cent for handling and marketing services, and accumulations above expenses are prorated back to shippers. A summary of the hogs marketed through the association in 1946 is given as follows:

#### Summary Hogs Marketed by Months - 1947

Month	No. Shippers	No. Hogs	Net Lbs. Sold	Net Returns
January	32	197	46,105	\$ 10,017.99
February	83	492	101,280	22,551.17
March	88	503	105,165	25,254.71
April	125	641	119,620	25,515.11
May	74	456	81,340	16,891.62
June	52	288	56,970	12,285.33
July	11	67	14,270	3,433.97
August	24	258	50,915	12,802.88
September	35	204	43,495	11,004.45
October	27	254	54,590	13,842.67
November	29	201	43,350	9,891.96
TOTALS	580	3561	717,100	\$ 163,491.86
Average weight per hog				201 lbs.
Average net returns per lb.				22.80¢



This summary shows that during 1947 a total of 580 farmers shipped 3,561 hogs weighing 717,100 pounds for a net average of 22.80 cents per pound, and netted a total of \$163,491.86 from the shipments.

Following is given a summary of cooperative shipments of hogs by the association and extension service of Williamsburg County since 1928:

Summary of Hog Shipments 1928-1947

Year	No. Shippers	No. Hogs	Total Net Weight	Total Net Returns
1928	124	1,149	229,800	\$ 17,299.30
1929	227	1,721	228,423	28,380.73
1930	500	3,177	523,643	48,889.97
1931	503	3,813	676,027	43,639.84
1932	275	2,659	418,444	15,887.41
1933	128	1,302	175,215	6,426.96
1934	24	416	72,195	3,232.78
1935	175	1,827	318,339	28,504.94
1936	494	5,707	1,047,479	97,504.96
1937	1,387	8,470	1,469,567	136,466.85
1938	1,686	9,160	1,554,070	123,747.57
1939	1,898	10,578	1,878,955	124,955.04
1940	1,051	6,433	1,138,214	60,077.39
1941	1,470	7,864	1,468,180	114,075.26
1942	1,351	7,518	1,377,385	165,247.35
1943	1,107	6,472	1,271,735	177,690.98
1944	996	6,560	1,351,030	164,329.92
1945	532	3,351	693,952	96,954.14
1946	210	1,141	238,700	33,845.70
1947	580	3,561	717,100	163,491.86
TOTALS	14,718	92,879	16,848,453	\$ 1,650,648.95

Meat Cutting and Curing: Every effort has been made to induce farmers of the county to butcher sufficient meat for home use in the 15 point program. Proper curing and cutting has been discussed with adult and 4-H groups throughout the county. Farmers were encouraged to use the facilities of the local Southern Cities Ice Company and two locker plants in the county to cure their meat when suitable weather did not prevail for home curing. As usual a large number of farmers took advantage of this method of saving and curing their home supply of meat as shown by the records of pounds of meat cured by farmers. A summary of yearly record of meat cured this year and for past several years follows:



## Summary Annual Amount Meat Cured in Southern Cities Curing Plant

Season	No. Patrons	Lbs. Meat in Storage
1934-1935	944	167,031
1935-1936	636	177,330
1936-1937	1,035	179,577
1937-1938	827	134,978
1938-1939	905	145,178
1939-1940	696	117,294
1940-1941	725	125,326
1941-1942	644	100,247
1942-1943	1,100	179,026
1943-1944	1,271	223,197
1944-1945	1,114	209,756
1945-1946	1,014	254,746
1946-1947	2,209	430,798
TOTALS	13,120	2,444,484

Furing the last curing season 2,209 farmers cured 430,798 pounds of meat by use of these facilities.

Miscellaneous: During the year the agents assisted 26 farmers and Livestock Sanitary Department in getting hogs and other livestock treated against disease.

Beef Cattle

Beef cattle work for 1947 consisted of placing purebred sires and 4-H steer feeding demonstrations:

Purebred Sires Placed: Five purebred bulls were placed with farmers in 1947, all being purchased individually on advice of extension specialist. A summary of these placings follows:

## Summary Beef Bulls Placed in 1947

Name	No. Bulls Placed	Breed	Age	Price
A.M. Gordon	1	Hereford	2 yrs.	\$ 180.00
M.B. Mitchum	1	Hereford	7 mo.	75.00
W.E. Ackerman	1	Shorthorn	10 mo.	125.00
M.B. McCants	1	Shorthorn	8 mo.	100.00
J.R. Covington	1	Hereford	7 mo.	85.00
TOTALS	5			\$ 565.00



## Summary Beef Bulls Placed 1935-1947

Year	Hereford	Polled Hereford	Angus	Shorthorn	Total
1935	3	0	2	0	5
1936	3	0	0	0	3
1937	2	1	0	0	3
1938	0	0	1	0	1
1939	5	0	1	0	6
1940	8	1	1	1	11
1941	4	1	0	1	6
1942	8	0	1	0	9
1943	10	0	0	1	11
1944	2	1	1	1	5
1945	3	1	1	0	5
1946	0	1	2	0	3
1947	3	0	0	2	5
TOTALS	51	6	10	6	73

As a result of extension work in the placing of purebred beef bulls with farmers, a total of 32 bulls, purebred Herefords, Angus, Polled Hereford and Shorthorn bulls were in service in the county in 1947.

Four-H Beef Calf Club Work: Eight 4-H club boys were enrolled in 4-H beef club work in 1947. The calves in this demonstration were selected by the livestock specialist to be fed, shown at livestock show and sold.

At the livestock show three of these calves graded choise, one graded good, four medium and two common. A summary follows:

## Summary of 4-H Beef Feeder Steers

Name	No. Animals	Gain in Weight	Gain Per Day	Total Value	Total Cost	Profit
Francis Powell	1	255	1.15	\$197.02	\$171.00	\$ 26.02
Dan Wheeler	1	255	1.15	154.47	150.00	4.47
Clyde Lambert	1	320	1.44	207.39	183.50	23.89
Dickie Buckles	1	270	1.22	228.16	203.00	25.16
J.T. Rollins	1	270	1.09	175.56	168.00	7.56
Lavern Love	1	385	1.20	152.21	132.75	19.46
J.R. Love, Jr.	1	405	1.26	212.95	164.50	48.45
Alvin Rollins	1	320	1.29	149.77	129.80	19.97
Alvin Rollins	1	325	1.31	145.78	128.50	17.28
Alvin Rollins	1	345	1.56	251.44	201.00	50.44
TOTAL	10	3150		\$1,874.75	1,632.05	\$242.70
AVERAGE			1.27 lbs. per day			



## DAIRYING

Extension work in dairying for 1947 included educational work in milk production for home use to improve diets of low income groups, permanent pastures and placing of purebred sires.

Purebred Bulls Placed: Two purebred dairy bulls were placed by the agents during 1947. A list of the placings is as follows:

## Summary Dairy Bulls placed 1947

Name	Breed	Cost
A.D. Mims	Guernsey	\$ 25.00
J.L. Brown	Guernsey	25.00

Purchases of Dairy Cattle: In addition to two baby bull calves placed, as already reported, the agents assisted 17 farmers in locating and purchasing 24 heifers and cows at a cost of \$4,975.00 to be used for family milk cows.

Four-H Dairy Calf Club Work

A new Jersey 4-H calf club was organized in the county in the spring with three members.

Each member was furnished with a calf club manual prepared by the Extension Dairy Division in cooperation with the 4-H club division. This manual is used as reference material for study, regular assignments being made for each monthly meeting. At 4-H club meetings, the members discuss assigned sections of the manual, and the assistant agent discusses timely information.

A summary of the records submitted by members is given as follows:

## Summary Dairy Calf Club Demonstrations

Name	No. Animals	Initial Cost	Increase in Value	Expenses	Profit
John Hardee	1	\$ 150.00	\$ 70.00	\$ 18.00	\$ 52.00
Roger Bradham	1	150.00	75.00	15.50	59.50
Robert Rowell, Jr.	1	150.00	75.00	16.00	59.00

These animals were shown at the Sumter Fair, where they competed in the open classes, and were placed in white ribbon classes.



### Growing and Curing Quality Roughages

Growing Hay: Plans for folding hay racks were furnished 17 farmers this haying season. These requests came as a result of publicity by interested specialist and agents in state and county newspapers regarding the cutting and curing of hay. Several hundred farmers now use these racks in curing peavine hay.

### Annual Grazing Crops

Since temporary grazing crops are important in the economical production of all classes of livestock, a special campaign among farmers of the county was conducted to encourage the production of winter and summer grazing crops to supplement pastures and other feeds. These annual campaigns have resulted in considerable increase in the planting of grazing crops in the county.

Summer Grazing Crops: Forty-two farmers were assisted in various ways in the growing of these crops.

Winter Grazing Crops: Eighty seven farmers were advised regarding the planting of winter grazing crops for family milk cows, hogs and other livestock.

### Permanent Pastures

Permanent pasture work is discussed in the agronomy section of this report.

### Dairy Buildings and Equipment

The agents and dairy specialist have cooperated with interested dairymen in the furnishing of plans for dairy barns and milk houses. Plans were furnished two prospective dairymen for combination milk barns and milk room.

### Milk Production for Family Use

This project was conducted in cooperation with the home demonstration agents, and work in this connection consisted of feed production for the family cow and care and handling of home milk supply.

The Family Cow: The county campaign to increase the number of family milk cows, as well as to get those already on the farms properly fed, has been continued in 1947. With assistance of county and neighborhood leader organization, numbers of farm families were contacted in an effort to get them to avail themselves the use of a milk cow. During the year, five news articles on the feeding of cows were published and 195 bulletins were distributed among farmers which gave instructions in feed production, care, handling and use of milk and milk products.



## ENTOMOLOGY AND PLANT PATHOLOGY

Extension work in entomology and plant pathology in 1947 consisted of work with crop and garden insects and diseases, and livestock and household insects.

Cotton Insects: Information was furnished to farmers weekly in keeping them informed of boll weevil infestation during the early growing season. Ten news articles were published giving instructions as to mixing and application of 1-1-1 poison to cotton. The practice of furnishing infestation counts in different sections of the county was also continued.

In the campaign to assist in control of overwintered weevils, the practice of destroying stalks as soon as cotton was picked was continued this fall. The harvesting of the crop was too slow to obtain best results.

Cotton Diseases: The campaign to dust treat cotton seed for disease control was continued in winter and spring of 1947. This work was commenced in the county in 1937 and has continued each year since, and at present the seed used in planting, approximately 25,000 acres are treated seed. There is located in practically every community a seed treatment outfit, and one large commercial treater is in use and located at the county seat. Four newspaper articles were published and several hundred cotton growers were advised personally with reference to treating their own seed or to purchase treated seed.

Small Grain Disease Control: The agents and extension entomologist assisted farmers of the county growing small grain in the eradication of oat smut and the treatment of wheat seed for seed borne disease. At least 80 per cent of the farmers planting oats and wheat either used smut resistant oats or treated their oat and wheat seed for the 1947 crop.

### Insects and Rodents

Garden and Truck Insects: During the year, farmers and truck gardeners were advised as to methods of controlling garden and truck crop insects. Three hundred and seven farmers were advised in regard to control of one or more of the following: bean beetle, plant lice, peach tree borer, pine tree beetle, screw worms and cabbage bugs.

Livestock Pest: Thirty six farmers were assisted in the control of cattle lice, using formula recommended by extension service. Two hundred and sixty four cattle are in the herds of these farmers which were freed from lice.



Fence Post Preservation: Two fence post treatment demonstrations started in November 1940 have been kept under observation and dates of time set and stapled and conditions noted. The twenty long leaf pine posts included in these demonstrations are being followed from year to year to determine the lasting quality caused by the treatment. A summary follows:

Summary Demonstrations Fence Post Treatment

Name	No. Treated	Year Treated	Kind	Condition at present
A.M. Gordon	7	1940	Short Leaf Pine	2 show decay
M.B. Mitchum	13	1940	Long Leaf Pine	Good

Bee Keeping

Transferring Demonstrations: Three demonstrations of transferring bees from box hives to loose frame hives were given during the year. A summary of these demonstrations follows:

Summary Transferring Demonstrations

Name	No. Box Hives Transferred	No. Loose Frame Hives Installed
W.T. Phillips	35	30
Mrs. E.E. Buckles	1	1
W.L. Harrington	1	1
TOTALS	37	32

Where swarms appeared weak, two or more were consolidated in the loose-frame hives. Results of transferring were satisfactory.

Individual Aid to Beekeepers: With the assistance of the bee specialist, practically all beekeepers were visited at some time during the summer and their hives inspected. Suggestions as to the things that should be done were made, and the beekeepers seem to greatly appreciate this service.

FORESTRY

Forestry work in 1947 included woodland examinations and selective cutting, rural fire prevention program, pulpwood and timber procurement program, fire prevention campaign, tree planting, free seedlings, and cork oak program.



### Rodents

As a result of the rat control demonstrations conducted in 1942, with assistance of the extension entomologist, numbers of farmers have adopted the poison gas method of rat control.

With use of dust pump furnished by this office, 9 farmers eradicated rats doing considerable damage to stored products and poultry on their farms.

### Flies and Household Insects

House Fly and Household Insects: The agents cooperated with Public Health Service in the control of house flies and other household insects in a campaign to eradicate these pest. With the advent of D.D.T., numbers of farmers requested advice of its use and precautions.



Woodland Examinations and Selective Cutting: As a result of publicity and personal visits by the agents and extension forester, thirteen farmers were assisted in woodland examinations and selective cutting demonstrations, a service offered all farmers merely for the asking by the agents, extension foresters and state forestry service. A summary of these demonstrations follows:

Summary Woodland Examination and Marking

Name	No. Acres Examined	No. Acres Marked	Bd. Ft. Marked	Cords Marked
I.E. Goldstein	36	36	88,220	
W.G. Cantley Est.	140			
Burt Hanna	5			
C.H. Lesesne	100	50	103,505	
Mrs. E.C. Epps	70	50	132,405	
Council of Farm Women	2			
Mrs. Marion Byrd	160			
Elizabeth Gowdy	200			
Mrs. A.A. Wilkins	75			
P.G. Gourdin	70	55	71,645	
G.W. Stuckey	30			
F.W. Fairey	200			
H.A. Snowden	50			
TOTALS	1,138	191	395,775	

On above woodland examined, but not marked, specific recommendations were made for removal of trees to improve the stand. On tracts where trees were marked, owners were advised as to sales contracts and what these contracts should cover to protect landowner unnecessary damage to young timber, unmarked trees, etc.

Five Acre Pulpwood Thinning Contest: To promote better cutting practices and to prove conclusively that income from woodlands can be substantially increased by using farm labor to move the product closer to market, the five acre pulpwood thinning contest was continued in 1947. The contest was commenced on October 1 and ended February 28. County winners were judged by district foresters. Three woodland owners entered the contest. Names and addresses of those entering and completing the contest, with prizes won, are given below:



## Five Acre Pulpwood Thinning Contest

Name	Address	Prize Won
J. R. Covington	Rt. 1, Salters, S. C.	\$ 25.00
T. E. Salters	Salters, S. C.	10.00
R. L. Mims	Rt.2, Greelyville, S. C.	5.00

Tree Planting: The agents have cooperated with the state Forestry Service and extension foresters in the planting of forest trees on lands not suitable for cultivation. Since 1939, 285.9 acres have been reforested. All seedlings for this purpose have been obtained from the state forestry nursery.

In 1947, three farmers obtained 21,000 free pine seedlings made available by the State Forestry Commission. Farmers receiving these seedlings are shown below:

Landowner	Address	Kind	Number
L. S. Epps	Lanes, S.C.	Slash	15,000
L. E. Shepard	Lanes, S. C.	Slash	5,000
W. E. Vause	Kingstree, S.C.	Loblolly	1,000
<u>TOTAL</u>			<u>21,000</u>

Arbor Day Program: Arbor day was observed in Williamsburg County by a tree planting program sponsored by the Williamsburg County 4-H clubs. These clubs designated the Black River 4-H club to conduct and plant a cork oak seedling on the Court House grounds in behalf of 4-H club members of the county. Eighteen 4-H club members were present and assisted in the conduct of the program.

Cork Oak Plantings: The cork oak planting program being conducted in cooperation with Crown Cork and Seal Company was continued in the county with 4-H club members. In January 1946 two hundred forty acorns were distributed to 30 four-H club members for planting.



## Summary of 4-H Members Receiving Cork Oak Acorns

Name	Address	No. Acorns Received
May Bartell	Hemingway, S.C. Rt. 4	8
Louie Bolyn	Nesmith, S.C. Rt. 1	8
L.P. Cockfield	Hemingway, S.C. Rt. 1	8
Charles Cox, Jr.	Cades, S.C. Star Rt.	8
Willie Davis	Cades, S.C., Star Rt.	8
A.J. Floyd	Lake City, S.C. Rt. 2	8
Carlton Floyd	Hemingway, S.C. Rt. 1	8
Delano Godbee	Lake City, S.C., Rt. 3	8
Herman Hanna	Lake City, S.C. Rt. 3	8
Rudolph Hanna	Lake City, S.C. Rt. 3	8
Carroll Johnson	Nesmith, S.C. Rt. 1	8
Troy Lamb	Lake City, S.C. Rt. 3	8
J.R. Love, Jr.	Kingstree, S.C. Rt. 3	8
Laverne Love	Kingstree, S.C. Rt. 3	8
Roy McCutchen	Lake City, S.C. Rt. 2	8
Bill Nesmith	Nesmith, S.C. Rt. 1	8
J.D. Owens	Cades, S.C., Star Rt.	8
Dexter Patrick	Cades, S.C., Star Rt.	8
Carlton Prosser	Cades, S.C., Star Rt.	8
A.L. Rollins	Nesmith, S.C., Rt. 1	8
J.T. Rollins	Nesmith, S.C., Rt. 1	8
David Rose	Cades, S.C., Star Rt.	8
Charles Snowden	Hemingway, S.C. Rt. 1	8
James H. Stuckey	Hemingway, S.C. Rt. 1	"
Levon Tanner	Hemingway, S.C. Rt. 1	8
V.J. Tanner	Cooper, S.C.	8
Jimmie Turbeville	Lake City, S.C., Rt. 3	8
Marvin Ward	Kingstree, S.C., Rt. 3	8
Garland Wilson	Cades, S.C., Star Rt.	8
Jimmy Wilson	Cades, S.C., Star Rt.	8
<b>TOTAL</b>		<b>240</b>

Four-H Forestry Club Work

Forestry instruction was given by extension foresters to 87 4-H club members at summer 4-H camp. Four club members from this county received special instructions in all phases of forestry at 4-H conservation camp.

Eight 4-H forestry demonstrations, which included tree planting were conducted at regular monthly 4-H club meetings during last winter. One hundred eighty six club members attended these demonstrations.



Rural Fire Prevention Program: The annual rural fire prevention campaign was conducted in September of this year. In conducting the campaign six news articles were released and fire prevention was discussed with all 4-H club members. A survey of results obtained shows that 47 fire hazards were removed.

Marketing: To assist farmers and timber owners in marketing woodland products, a list of sawmill operators in the county is kept at the agents' office. This list brought up-to-date from time to time throughout the year is available to all timber owners and is used by them in marketing timber.

A directory of pulpwood buyers, giving specifications and other information, is also kept for the convenience of farmers. The list is available to all land owners who request it. Eighty six farmers were assisted in marketing pulpwood and poles.

Prices for pulpwood, poles and other forest products furnished by the extension forester are kept on file at the office as a convenience and help in marketing these products.

Publications: During the year 50 leaflets on "Longer Life for Fence Post" and 10 copies of bulletin "Minimum Cutting Practices" were distributed to farmers of the county. Three hundred copies of bulletin "Planted Pines Pay" were distributed to 4-H club members.

Forest Fire Prevention Campaign: The county agents cooperate and assist personnel of the State Forest Service in conducting an annual Forest Fire Prevention Campaign in the county. Fire wardens were assisted in making schedule to show motion pictures on fire prevention in all high schools in the county. Approximately 1200 attended these shows. During the winter 3500 envelop stuffers were used in circular letters. Book markers were furnished all 4-H club members.

#### FOUR-H CLUB WORK

Boys' 4-H club work was conducted in eight organized 4-H clubs in the county with two hundred and twenty two boys enrolled. Monthly meetings were held with all clubs at which time a short program was presented by club members at the beginning of each meeting after which time a demonstration or discussion was given on timely topic of interest. Each club elected its own officers



and leaders who attended an officer-leader training meeting held. The regular annual encampment was held at which time 41 boys and 47 girls attended. Delegates attended 4-H State Council and Conservation Camp. A County Council was reorganized in the county to coordinate our efforts in 4-H club work.

#### Summary 4-H Club Enrollment and Completions

Name of Club	No. Members Enrolled	No. Completed Demonstrations	Per Cent Members Completing Demons.
Greeleyville	19	16	84
Hebron	23	18	78
Black River	16	15	94
Hemingway, Jr.	44	35	79
Hemingway, Sr.	20	18	90
Indiantown	31	27	87
Williamsburg, Sr.	19	15	79
Williamsburg, Jr.	50	41	82
TOTALS	222	185	Av. 84

Following is given a summary of 4-H club enrollment of boys, and yearly completions from 1930 to 1947.

#### Summary 4-H Club Enrollment and Completions 1930-1947

Year	Enrollment	Completions	Per Cent Completions
1930	83	34	41
1931	96	44	46
1932	147	30	20
1933	171	38	22
1934	151	57	44
1935	200	195	96
1936	231	122	53
1937	153	75	49
1938	97	55	54
1939	125	50	40
1940	200	158	79
1941	186	133	71
1942	116	54	47
1943	155	92	59
1944	138	141	76
1945	165	146	79
1946	205	169	82
1947	222	185	84
TOTALS	2,841	1,778	AV 58



Summary of Cotton and Corn Yields by 4-H Club Boys, 1930-1947:

Following is a summary of the average annual yield per acre of cotton and corn produced by 4-H club boys in Williamsburg County for the period 1930-1947, as compared to the county average:

Summary Cotton & Corn Yields 1930-1947 Club Boys

<u>Year</u>	<u>Average Bu. Corn Per Acre</u>	<u>Average Lbs. Lint Cotton Per Acre</u>
1930	35.9	---
1931	28.9	---
1932	36.4	---
1933	35.4	451.2
1934	35.6	434.0
1935	40.7	345.7
1936	37.2	416.6
1937	36.8	484.3
1938	41.9	382.4
1939	42.4	500.0
1940	38.8	675.4
1941	31.9	227.0
1942	45.5	580.0
1943	42.6	507.0
1944	36.4	515.0
1945	33.8	284.4
1946	48.1	450.0
1947	50.8	393.5
4-H Club Average	38.9	443.1
County Average	23.0	315.0

The above summary shows that for the past eighteen years 4-H club members with their better method of farming through higher fertilization, improved practice of cultivation, and higher quality seed have made a sizeable increase over the county average on both corn and cotton. This increase in 1947 being 38.9 bushels of corn per acre for 4-H club members as compared to the county average of 23 bushels for the same period. Four-H cotton yields were 443.1 lbs. per acre as compared to 315.0 lbs., the county average per acre.

Four-H Club Records

Following is given a summary of 4-H club records completed in 1947.



## Summary 4-H Corn Records

Name	No. Acres	Yield Bushel	Total Value	Total Cost	Profit
Carlisle Timmons	1.8	59.4	\$ 89.10	\$ 28.00	\$ 61.10
Jimmy Matthews	1.0	65.0	97.50	21.50	76.00
Gerald Haselden	2.0	175.0	262.50	75.50	187.00
Lawrence Britton	1.0	75.0	112.50	40.50	72.00
Lorie Cox	1.0	45.0	67.50	21.75	45.75
Dan Player	1.0	30.0	45.00	25.70	19.30
Laurie Thomas	1.0	60.0	9.00	31.00	59.00
Darwin Freeman	1.0	30.0	45.00	18.50	26.50
Reneldo Cox	1.0	70.0	105.00	30.00	75.00
Sease Boyd	1.5	60.0	90.00	22.00	68.00
John Hardee	1.5	65.0	97.50	27.75	69.75
Henry Burrows	1.5	80/0	120.00	21.00	99.00
Jack Buckles	1.0	35.0	52.50	15.50	37.00
Jack Bodiford	2.0	80.0	120.00	33.00	87.00
TOTAL	18.3	929.4	\$ 1,394.10	\$ 411.70	\$ 982.40
AVERAGE		50.8 Bu. Per Acre			

## Cotton Club Records

Name	No. Acres	#Seed Cotton	# Lint Cotton	Total Value	Cost	Profit
Everett McCants	1	1052	400	\$ 158.19	\$ 61.00	\$ 97.19
Albert Michau	1	950	325	131.62	53.00	78.62
Jack Strong	2	2650	885	360.47	102.50	257.97
Ray McCutcheon	1	1070	357	145.44	55.50	89.94
TOTAL	5	5722	1967	795.72	272.00	523.72
AVERAGE		393.5 lbs. lint per acre				



## Summary of 4-H Beef Steers Eold at Spring Fatstock Show - 1947

Name	No. Animals	Gain In Weight	Gain Per Day	Total Value (not inc. Manure)	Total Cost	Profit
Francis Powell	1	255	1.15	\$ 197.02	\$ 171.00	\$ 26.02
Dan Wheeler	1	255	1.15	154.47	150.00	4.47
Clyde Lambert	1	320	1.44	207.39	183.50	23.89
Dickie Buckles	1	270	1.22	228.16	203.00	25.16
J.T. Rollins	1	270	1.09	175.56	168.00	7.56
Lavern Love	1	385	1.20	152.21	132.75	19.46
J.R. Love, Jr.	1	405	1.26	212.95	164.50	48.45
Alvin Rollins	1	320	1.29	149.77	129.80	19.97
Alvin Rollins	1	325	1.31	145.78	128.50	17.28
Alvin Rollins	1	345	1.56	251.44	201.00	50.44
TOTAL	10	3150		\$ 1,874.75	\$ 1,632.05	\$ 242.70
AVERAGE			1.27 lbs. per day			

## Summary 4-H Sears Pig Club, Breeding Class

Name	Breed	No. Animals	Days Fed	Gain in Wt.	Total Value	Total Cost	Profit
Donald Miller	S.P.C.	1	201	215	\$ 120.00	\$ 68.00	\$ 52.00
Carlisle Timmons	S.P.C.	1	201	190	100.00	57.00	43.00
Phillip Benford	S.P.C.	1	201	105	75.00	51.00	24.00
J.B. McCants, Jr.	S.P.C.	1	201	140	100.00	63.00	37.00
Raymond Tobias	S.P.C.	1	201	165	80.00	55.50	24.50
Albert Michau	Hampshire	1	186	135	70.00	51.50	18.50
Marion Lamb	Hampshire	1	186	140	70.00	53.00	17.00
TOTAL		7	1377	1090	\$ 615.00	\$399.00	\$ 216.00
AVERAGE GAIN PER DAY				0.7 lb.			



## Summary 4-H Pig Records, Fattening Class

Name	No. Animals	Days Fed	Daily Gain Per Pig	Premiums Won at Fat Hog Show	Total Value	Total Cost	Profit
John Hardee	15	94	1.6	37.44	822.69	473.90	348.79
Alvin Rollins	5	98	1.2	6.84	240.67	139.50	101.17
Louie B. Lawrimore	10	89	1.3	15.78	623.08	360.75	262.33
Alton Wallace	5	123	0.9	7.68	296.38	171.00	125.38
Troy Lamb	3	67	1.7	4.18	107.50	66.75	40.75
S.E. Cooper, Jr.	10	72	1.4	28.08	573.76	321.00	252.76
Carlisle Timmons	9	49	2.1	—	557.39	306.75	250.64
Jimmie Turbeville	10	85	1.3	—	516.00	322.50	193.50
Lexton Cox	1	42	.8	—	33.00	22.50	10.50
Charles Cox	1	60	1.5	—	54.00	33.75	20.25
Winston McCants	1	365	.7	—	58.65	33.25	25.40
TOTALS	70	1,144		100.00	3,883.12	2,251.65	1,601.47
AVERAGE DAILY GAIN — 1.3 lbs. per day							

## Summary 4-H Tobacco Records

Name	No. of Acres	Yield (lbs)	Total Value	Total Cost	Profit
Bennie Matthews	$\frac{1}{2}$	502	242.50	46.80	195.75
Carlisle Thigpen	$\frac{1}{2}$	683	275.00	75.00	200.00
Thomas Skipper	1	1055	422.00	120.00	302.00
Roger Burrows	$\frac{1}{2}$	480	216.00	55.00	161.00
Jimmie Evans	1	895	358.00	108.50	249.50
TOTALS	$3\frac{1}{2}$	3615	1,513.55	405.30	1,108.25

## Summary 4-H Sweet Potato Record

Name	No. Acres	Yield (Bu)	Total Value	Total Cost	Profit
J.R. Love, Jr.	1	165	\$ 206.25	\$ 132.90	\$ 73.35
Smith Hinnott	1 1/3	285	354.80	231.50	123.30
Buddy Tisdale	1	175	218.75	148.91	69.84
Holland Lane	1	233	291.25	142.38	148.87
W.L. Joye	1	372	465.00	178.84	286.16
Tom Powell	1 1/3	202	252.50	148.45	104.05
Jack Bodiford	1	200	312.50	131.60	180.90
Carlton Floyd	1	160	200.00	129.68	70.32
Alvin Rollins	1 1/3	160	197.50	104.72	92.78
TOTALS	10	1,952	\$ 2,498.55	\$ 1,348.98	\$ 1,149.57



## Summary 4-H Poultry Club Records

Name	Strong Chicks Produced	Total Value	Total Cost	Profit
Darwin Freeman	70	\$ 70.00	\$ 46.20	\$ 23.80
Gerald Haseldon	55	54.00	33.00	21.00
Sam Dennis	146	150.00	22.00	92.50
James Jackson	47	48.20	31.15	17.05
TOTALS	318	\$ 322.20	\$ 132.35	\$ 154.35

## Summary 4-H Dairy Calf Club Records

Name	No. Calves	Initial Cost	Increase In Value
John Hardee	1	\$ 150.00	\$ 220.00
Roger Bradham	1	150.00	225.00
Robert Rowell, Jr.	1	150.00	225.00
TOTALS	3	\$ 450.00	\$ 670.00

## Summary 4-H Corn Exhibit, County Fair

Name	Place	Premium Won
Henry Burrows	1	3.00
J. W. Duke, Jr.	2	2.80
Dickie Buckles	3	2.60
Thomas Skipper	4	2.40
Henry Burrows	5	2.20
J. W. Dukes, Jr.	6	2.00
TOTAL		\$ 15.00

Four-H County Camp

The Williamsburg County 4-H club boys and girls encampment was held at Camp Long during the week of June 16th - 20th. There were 41 boys and 47 girls to attend, accompanied by the assistant farm agent, home agent and five local leaders.

Only those members who had done acceptable work on their 4-H projects were rewarded with this camp. While at camp members were given instructions in farm machinery, canning, courtesy, etiquette, nutrition, farm safety, music appreciation, nature study, etc. Swimming instructions, campfire programs, moving pictures, stunt night and other recreation and cultural features took place during the week.



### Four-H Officer-Leader Training Meeting

Two officer-leader training meetings were held in the county. One being held on March 6 at Kingstree, with 26 officers and local leaders from Black River, Greeleyville, Hebron, Williamsburg, Jr., and Sr. 4-H clubs at the club market building. The other meeting was held at Hemingway school auditorium on March 7, with 23 officers and leaders from Hemingway, Jr., Hemingway, Sr., Indiantown, Midway, and Muddy Creek 4-H clubs present. Dickie Buckles, president of the 4-H council presided at both meetings. Mr. J.T. Rogers, district 4-H club agent and Miss Jo Berly, assistant state girls club leader, were in charge of the training of the officers and leaders.

### County 4-H Rally

One hundred and twenty-five 4-H club members from the ten clubs in Williamsburg county were present for the annual rally and achievement day exercises held at the youth center, Kingstree on May 17. Dickie Buckles, president of the county council, gave the call to order, and this was followed by the pledge to the flag, led by Garland Wilson, and the 4-H pledge led by Elsie Faye Baker. The Rev. Ralph E. McCaskill, pastor of the Williamsburg Presbyterian church, conducted the devotional period. A report on the recent district council meeting was given by Smith Hinnant of the senior Williamsburg 4-H club. Doris Johnson had charge of the entertainment by clubs. Awards were made to winning contestants in contest held last year, the home agent awarding prizes to girl members and the assistant farm agent to the boys. Moving pictures were shown shortly before the noon hour while lunch was being prepared.

### Sears Pig Project Winner

Robert Rowell, Jr., a member of the Williamsburg, Sr. 4-H club, was awarded \$100 from the Sears Roebuck & Company as winner in the purebred pig project for outstanding work in caring for his pig. Robert has now purchased a purebred Jersey heifer calf and is continuing his good livestock program.

### 1947 Sweet Potato Contest

The county 4-H sweet potato contestants won second place in the state 4-H sweet potato contest. This prize being \$100 which was divided among the contestants. There are nine contestants competing in the 1947 contest. Through this contest better seed potatoes are now being widely scattered.

### Delegates to State 4-H Council

Dickie Buckles, Miriam Harrelson, and Margaret Wilson attended the State 4-H Council meeting at Camp Long during the week of August 4th - 8th. Williamsburg County received a red ribbon for county council work conducted in the county during the past year.



#### Four-H Conservation Camp

A delegation made up of two boys, Ottly Owens, Jr., and Dariel Ruthven of the Hebron community, and two girls, Dorethea Dukes of Greeleyville and Hilda Cox of the Earls community, attended 4-H Conservation Camp at Camp Bob Cooper, July 21st - 25th. The delegation thoroughly enjoyed this, it being their first privilege of attending such a camp.

#### Four-H Fat Barrow Show and Sale

The first 4-H Fat Barrow Show and Sale in the history of Williamsburg County, was held October 27, with 48 fat hogs being exhibited and sold. The champion single was shown by John Hardee, and champion pen of three by S.E. Cooper, Jr. The single fat hog was sold for 35¢ per pound and sold to Balentine Packing Company, the buyer of the entire lot. Premium money of \$100 was donated by the two tobacco warehouses and the local hog shipping association, and was distributed on a 5-4-3 basis. Much interest was shown and it is hoped that such an event would be conducted each fall.

S.E. Cooper and father  
with champion pen of three hogs



John Hardee and father with  
champion and reserve champion  
single

#### HORTICULTURE

Horticulture extension work in Williamsburg county in 1947 included demonstration work with home gardens, sweet potatoes, and home orchards.

##### Gardens

Home Gardens: A special campaign on the home garden was extensively conducted in the county this year. In this program the agents and leaders emphasized the growing of a limited number of easily grown adaptable vegetables of the leafy green and yellow kinds, Irish and sweet potatoes and tomatoes. During the year five monthly garden letters prepared by the extension horticulturist were mailed to farmers and leaders, and 20 timely news articles were



published. In cooperation with the home demonstration agents four garden demonstrations were conducted. Summaries of these demonstrations are not available.

### Sweet Potatoes

Sweet potato demonstrations included fire-heated hotbeds and sweet potato production.

Fire-heated Hotbeds: One record demonstration was conducted on the operation of fire-heated hotbed for the production of sweet potato plants. A summary of this demonstration follows:

#### Summary of Fire-Heated Hotbed Demonstration

Name	Size of Bed	Bushels Bedded	Date Bedded	Date 1st Plants Drawn	No. Plants Produced
E.R. Evans	6 x 28	12	Feb. 20	Apr. 10	26,000

Sweet Potato Demonstrations: Two sweet potato demonstrations in the production of Porto Rico sweet potatoes were conducted and completed this year. This grower carried out recommendations and met standards set by extension marketing specialist. A summary of this demonstration follows:

#### Summary Sweet Potatoes Production Demonstrations

Name	Acres	Yield Per Acre			Returns	Cost	Profit
		No. 1's	No. 2's	Culls			
R.J. Weaver	2.0	250	200	50	\$ 725.00	\$ 235.00	\$ 490.00
R.L. Mims	3.5	345	220	100	665.25	232.98	432.27
TOTALS	5.5	595	420	150	1,390.25	\$ 467.98	\$ 922.27
AVERAGE PER ACRE		108	76	27			\$ 167.68

Progress in the growing of quality sweet potatoes for market has been retarded due to labor competition with other crops.

Harvesting and Grading: One harvesting and grading demonstration was held this fall to instruct and train workers to field grade sweet potatoes. Eleven interested farmers and 4-H members attended this meeting.

Miscellaneous: The agents furnished seven farmers plans for reconverting tobacco barns and assisted 16 growers with marketing problems.



Cooperative Orders for Fruit Trees: The agents made cooperative orders for nine farmers and obtained 132 fruit and pecan trees at a saving of \$21.61 from the retail price of these orders.

### MARKETING

Extension work in marketing for 1947 consisted of demonstrations in packing and grading and aiding farmers in cooperative buying and selling of farm products.

Grading and Packing: With assistance of marketing specialist, the agents worked closely with producers of vegetables, hogs cattle, poultry and eggs and other surplus farm products in improving grades of these products sold from the county. Three mechanical grading outfits have been installed and are in use at central packing sheds.

#### Standardization and Storage of Sweet Potatoes

Harvesting and grading demonstrations: To assist growers in harvesting and storing of sweet potatoes, a harvesting, grading and storage demonstration was held on the farm of H.L. Floyd, in the Indiantown community. The eleven growers attending this meeting were instructed as to proper time of harvest, field handling and grading.

Storage houses and proper curing methods: During the year 26 farmers were assisted in storage house management, and proper curing methods. Included in the assistance given were plans for reconversion of tobacco barns in to sweet potato curing houses.

Cooperative sale of poultry and eggs: In cooperation with Extension Marketing Division schedules for marketing surplus poultry was made and an egg marketing center was set up. A summary of amount sold follows:

Product	Farmers Served	Amount Sold	Returns
Live poultry	82	3,481 lbs.	\$ 805.90
Eggs	104	1,004 doz.	352.31

Cooperative Marketing Association: The agents continued cooperation with the Williamsburg Livestock Association in grading and marketing hogs and surplus products for its members.

A summary of the number of hogs and poultry marketed and amount of products purchased for its members by the Association is as follows:



## Summary of commodities marketed by Association

Commodity	Amount	Value
Hogs (head)	3,561	\$ 163,491.86
Poultry (live lbs)	3,481	805.90
Eggs (doz)	1,004	352.31
Pecans (lbs)	14,298	3,318.16

Marketing and purchasing of surplus and needed products: The agents assisted farmers in marketing of surplus farm products for which there are no established markets, and in purchase of materials and supplies cooperatively. A summary of work done in 1947 is as follows:

## Summary of Marketing Work 1947

Products	Quantity	Bought	Sold
Hogs (Meat)	3,561 head		\$163,419.86
Hogs (Breeding)	21 head	716.00	
Beef Cattle (Meat)	10 head		1,874.75
Beef Cattle (Breeding)	5 head	565.00	
Poultry (Live)	5,981 lbs.		1,805.90
Eggs	1,004 doz.		352.31
Dairy Cattle	29 head	5,475.00	
Bees	30 hives	450.00	
S. Potatoes	1,815 bu.		2,268.75
Corn (Feed)	1,650 bu.		2,475.00
Corn (Seed)	21 bu.	106.30	
Cotton Seed	1 T	240.00	
Wheat (Feed)	1,240 bu.		2,728.00
Oats	380 bu.		570.00
Peanuts	20 T		3,600.00
Crotalaria	150 lbs.	30.80	
S. Potato Plants (1,000)	47 T	164.50	
Vetch, Hairy	560 lbs.	123.20	
Vetch, Common	1,560 lbs.	132.60	
Austrian Peas	900 lbs.	58.50	
Lespedeza	45,600 lbs.	2,790.00	3,640.00
Clover	1,558 lbs.	1,233.66	
Dixie Wonder Peas	5,300 lbs.	430.50	
Pecans	14,298 lbs.		3,318.16
Pearl Millet	100 lbs.	24.75	
Fescue, Alta	60 lbs.	36.00	
Dallis Grass	1,676 lbs.	1,173.20	
Nursery Stock (Trees)	132	66.00	



## Summary of Marketing Work 1947, Continued

Products	Quantity	Bought	Sold
Forest Seedlings	14 T	7.00	
Seed S. Potatoes	88 bu.	242.00	
Lespedeza (Common)	742 lbs.	224.86	
Insecticides	1,600 lbs.	80.00	
Inoculation	160 units	48.00	
Protein (Supplement)	36 T	3,850.00	
TOTALS		\$ 18,278.29	\$ 186,052.73
TOTAL VALUE PRODUCTS BOUGHT & SOLD			\$ 204,331.02

## POULTRY

Extension work with poultry in Williamsburg county consisted of poultry vaccination and plans for poultry equipment.

Vaccination Demonstrations of Poultry: Two poultry vaccination demonstrations for chicken pox was given in 1947. The results of vaccination work done since 1936 is tabulated below:

## Summary Poultry Vaccination Demonstrations

Name	No. Birds Vaccinated	No. Died	No. Cases Chicken Pox
Mrs. W.M. McFadden	78	0	0
P.A. Thompson	50	0	0
TOTALS	128	0	0

## Summary Poultry Vaccination Demonstrations 1936-1947

Year	No. Demonstrations	No. Birds Vaccinated	No. Died	No. Cases Chicken Pox
1936	3	632	0	0
1937	3	390	0	0
1938	2	225	0	0
1939	2	70	1	0
1940	3	550	3	0
1941	3	581	0	0
1942	2	110	0	0
1943	1	84	0	0
1944	1	108	1	0
1945	3	293	2	1
1946	3	368	0	1
1947	2	128	0	0
TOTALS	28	3,539	7	2



Poultry vaccination for chicken pox is a standard practice in the county among poultry keepers who have had trouble with this disease. Many farmers vaccinate their own flocks and much vaccination is done by vocational teachers, feed salesmen and hatcherymen.

National Poultry Improvement Plan: One turkey hatchery tested 1613 turkeys to meet requirements for a U.S. Approved Pullorum Controlled Turkey Hatchery so as to offer hatching eggs and poult as such. Result of the hatchery report is as follows:

#### Report of Turkey Pullorum Controlled Test

Name	No. Birds	No. Birds Reacted	No. Birds Culled	No. Hatching Eggs Sold	Value with Premium
Scottswood Plantation	1613	8	921	458	\$ 1,100.00

#### VISUAL INSTRUCTION

Visual instruction work in 1947 consisted of the use of charts and maps.

Motion pictures were used at 11 4-H club meetings with an attendance of 704 club members and five farmers meeting with an attendance of 375 farmers.

Charts, posters and leaflets were used at 109 county, community and 4-H meetings with attendance of 3,693 farm people and 4-H club members.

#### Summary Use of Visual Instruction Aids

Visual Aid Used	No. Meetings	Attendance
Charts and Leaflets	109	3,693
Motion Pictures	16	1,079
TOTALS	125	4,772

#### MISCELLANEOUS ACTIVITIES

Lime Program: The importance of the use of lime and phosphate to correct the acidity of soils has been stressed throughout the year in an effort to improve yields and nutritional values of food and feed crops.



In 1947, 640 farmers applied for and received 6,435 tons of limestone, and 142 farmers received 256.8 tons of phosphate, to be applied as a soil building practice through the local agricultural conservation association.

#### PUBLICITY

Publicity work done in the distribution of educational information in connection with the 1947 extension program in Williamsburg county was done by news articles, circular letters, distribution of bulletins, etc. A summary of work done is given as follows:

##### Summary Publicity Work

Individual letters	1,140
Circular letters	15
Copies mailed	8,217
Press articles	48
Bulletins distributed	3,703

Circular letters: A total of 15 circular letters was prepared and mailed to farmers and 4-H club members in 1947. Timely agricultural information was contained in these letters, also notices of meetings and other matters of interest and value to farmers and farm women of the county. Specimen copies of circular letters are attached to this report.

Press articles: A total of 48 press articles of timely interest was published in the "County Record", the county weekly paper, during the year. Specimen copies are attached.

Bulletins distributed: A total of 3,703 bulletins was distributed to farm people and 4-H club members during the year.



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



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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

HOW CAN I BEST REDUCE COSTS OF PRODUCTION?

WILL PRICES GO UP?

WILL PRICES GO DOWN?

WHAT ARE THE PROSPECTS FOR TOBACCO?

WHAT ARE THE NEW AAA BENEFITS?

WILL LIVESTOCK PRICES HOLD?



In planning your 1947 Farm and Home Program you will need the latest facts on the agricultural situation. You will also want to know the latest recommendations in making adjustment in your farm operations. These matters will be discussed at a county-wide meeting to be held at the county Courthouse on January 30, beginning at 2 p.m.

Mr. J. T. Lazar and Miss Eleanor Carson, District Agents, and other specialists of Clemson College Extension Service will discuss important points to consider in outlining your 1947 operations. In addition to these discussions, demonstrations will be given in blue mold control using fermate dust, cattle lice and grub control, and fence post treatment using creosote and fuel oil, also demonstrations and exhibits of home equipment.

Every farmer and farm woman in the county and those interested in farming are invited to attend. We want all of you to come prepared to enter into the discussions on farming prospects for 1947. The picture is vastly different from what it was a year ago. Last year we were aiming for total production. The aim now is to increase quality of products and lower the costs of production where possible.

DON'T FORGET

KINGSTREE

2:00 P.M.

JANUARY 30

*Susan Hall*

Susan Hall  
Home Dem. Agent

Yours very truly

*R. A. Jackson*

R. A. Jackson  
County Agent

*L. B. Harrington*

L. B. Harrington  
Asst County Agent



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

70

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

EXTENSION SERVICE

*Don't miss it!*

FARM AND HOME LABOR SAVING SHOW

NEW WAREHOUSE, KINGSTREE - NOVEMBER 19,

10 a.m. to 4 p.m.

Be Wise - See the latest devices and learn the latest methods of farm and home labor saving.

This unique show will bring ways and means by which Williamsburg county farm families might increase their present efficiency by improving methods, and will help in developing new ways of utilizing labor and equipment.

The Extension Service has prepared exhibits, panels, photographs and demonstrations to inform you on latest developments in time and labor saving devices for the farm and home.

Local commercial dealers will display and demonstrate some of their latest equipment and will give to you valuable information concerning the operation of this equipment.

We would also like to include in the exhibit any labor saving device or gadget worked out in the county. If you have any homemade equipment, please contact us at once.

You and all members of your family are urged to take advantage of this opportunity to see and receive benefit for farm and home improvement from this Labor Saving Show.

Prizes donated by local merchants will be given at the close of the show. Bring your wheel and place it in box for drawing of prizes.

Yours very truly

*Myrtle Hatchell*

Myrtle Hatchell  
Home Dem. Agent

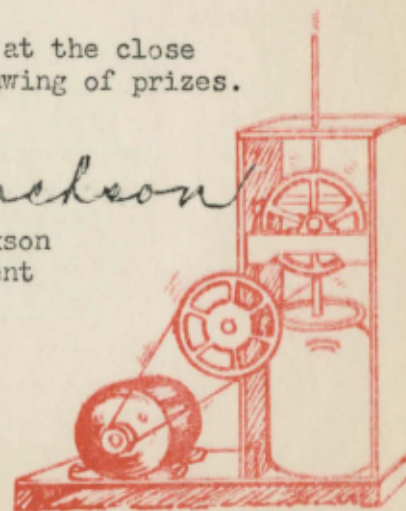
*R. A. Jackson*

R. A. Jackson  
County Agent

**FARM and HOME  
LABOR SAVING  
SHOW**



"Use of TRACTOR POWER shifts the heavy jobs from the worker to the machine."



Take the labor out of churning -



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



# FARM BRIEFS

\* R. A. Jackson, County Agent \*  
 \* L. B. Harrington, Asst. Co. Agt. \*  
 \* Myrtle R. Hatchell, H. D. Ag't \*  
 \* Gwendolyn D. Klintworth, Asst. Ag't \*

## Plant Grazing Crops Early

Grazing crops must be planted early if maximum winter grazing is to be expected. Small grains, or mixtures of grains, will furnish excellent grazing but better still would be a mixture of grain and crimson clover if planted on heavy soils. Grain will give earlier fall grazing than any other crop and can be grazed until February or March without lowering the yield if cut for grain or hay.

Small grain grazing crops liberally fertilized will do much to reduce the hay and grain requirement for carrying your livestock over the winter. As soon as you have lands available, plant.

## New Fescue Grasses

This perennial grass will probably mean more to cattle raising than any grass that we now have because of its long grazing period of about 10 months; its ability to survive in most any weather condition and because it grows on most any soil type and its vigorous growth and high seed yielding ability. Farmers shouldn't expect much grazing the first year. The seed may be planted in rows or broadcast. Special emphasis must be given to seed bed preparation and fertilization. The varieties of fescue adapted to this section are alta and Kentucky 31.

## Support Prices For Sweet Potatoes

The United States Department of Agriculture has just announced prices to be paid under its commodity support price program. These prices are for U. S. No. 1's packed in bushel baskets loaded on cars or trucks FOB shipping point.

September 1—November 15: \$1.50 per bushel.

November 16—December 31: \$1.90 per bushel.

January 1—April 30: \$2.15 per bushel.

These prices will be paid for the Porto Rico, Jersey, Nancy Hall, Golden Triumph and other varieties of similar characteristics. Other varieties will be 30c per bushel less.

Prices for U. S. No. 2 grade will not be announced until the agricultural department deems it necessary in order to carry out the department's obligation to support the price of sweet potatoes at not less than 90 percent of parity.

## Grazing Crops For Poultry

One of the biggest mistakes made by South Carolina farmers in poultry management is in not providing sufficient space to produce grazing crops. Too often the laying house or the brooder house is crowded in between the other buildings without consideration given to space for planting grazing crops.

Chickens, turkeys and all other kind of poultry are natural consumers of large amounts of roughages. These roughages can reduce feed cost tremendously if put before the poultry. With higher price meats, naturally consumption of eggs will increase, therefore, every step should be taken to produce as economically as possible eggs and poultry.

A good recommended grazing crop is Italian rye grass planted at the rate of 40 pounds per acre in September or early October. Another grazing crop not quite as good as Italian rye grass but cheaper to seed is a mixture of oats, barley and crimson clover.

## Farm and Home Labor-Saving Show

Plans are shaping up nicely for the Farm and Home Labor-Saving show scheduled to be held at New Warehouse in Kingstree on November 19 between the hours of 10 a. m. and 5 p. m.

This unique show, which consists of three parts, is sponsored by the Clemson Extension service and is being arranged locally by the county and home demonstration agents, local farm people and commercial dealers.

The first part consists of 82 large explanatory panels with 140 models of labor-saving gadgets assembled by Clemson college specialists and brought by them to this show. A number of these specialists will be present to explain and demonstrate the labor-saving ideas and equipment brought from the college.

The second part of the show will present the farm and home labor-saving ideas and gadgets worked out by people here in the county. Those who have homemade labor-saving equipment are urged to promptly get in contact with us and arrange to show them on November 19th. This should prove to be one of the most interesting and helpful features of the show. There is plenty of native ingenuity being shown by Williamsburg county folks, and we are anxious to have these local inventions on display for the benefit of others, since one of the purposes of the show is to swap ideas and demonstrate devices and short cuts to get a more efficient return for labor expended.

The third part of the show will be in the hands of local commercial dealers and they are urged to exhibit new labor-saving machinery or equipment.

## Five-Acre Pulpwood Thinning Contest

The state-wide five-acre pulpwood thinning contest will be continued again this winter in cooperation with the four pulp companies operating in the area. These companies have made available \$2,465 for prizes to be awarded shortly after February 28 when the contest ends.

Applications from farmers can now be accepted and there are \$40 available only for prizes within each county. State and district prizes remain the same.

Farmers who expect to make forestry thinnings this winter should contact this office at once to have on hand rules regarding this contest.



## FARM BRIEFS

R. A. Jackson, County Agent  
L. B. Harrington, Asst. Co. Agt.  
Miss Susan Hall, H. D. Ag't.

### Time To Plant Pastures

The question arises every day, in our visits over the county, as to the time to plant pastures. Pasture planting should be made now. On upland the best practice is to use lespedeza heavy with light seeding of Dallas and clover. On bottoms where soils are heavy and moist use recommended amounts of white Dutch, Ladino and hop clovers, lespedeza and Dallas grass. Seedings should be made at once and not later than February 15, if at all possible to do so.

### Pasture Fertilizations

It is now time to fertilize pastures with a liberal application of phosphate and potash. In some cases where sods are old, nitrogen is essential. If you expect to fertilize make application now when most grasses are dormant.

### Pulpwood Thinning Contest

February 28th is the closing date in the pulpwood or woodland thinning contest. T. E. Salters and "Doc" Covington are the only entrants thus far competing for the good prizes and at the same time cleaning up the woodland leaving only desirable trees at proper spacing. If you wish, you too can get into the contest before it closes.

### Five-Acre Cotton Contest Winners

The 5-A cotton contest for 1946 closed last week, being won by Mr. Neely of Chester, who produced 1655 pounds of lint cotton per acre.

Our winners in the county were Marvin B. Mitchum, Rt. 1, and W. L. Harrington, Greelyville. J. H. Nexsen, of Kingsree, actually made the highest yield but was not eligible for county prize as he won a state prize in 1937. Mr. Nexsen has been entered in the contest every year since 1926.

Now is the time to sign up for 1947. This seems to be the only way to get seed direct from the Coker Seed company. Come in and sign up for the 1947 contest.

## Good Pastures Pay Well

"Good fat livestock is in evidence on every farm where lespedeza is being used as grazing crop, good growth has been made in spite of the unfavorable weather conditions in many sections of the county," says County Agent R. A. Jackson. "Due to proper preparation, fertilization, and seeding, we found that all first-year permanent pastures were producing enough feed for a normal carrying capacity. One of the most outstanding small pastures visited was that of Marvin Mitchum of the Central community, planted to white dutch clover, dallis, and lespedeza eight years ago. This one and one-half acre pasture has furnished the major part of feed for two or three milk cows and a yearling of two from April to November for the past six years. Mr. Mitchum follows the practice of liberal fertilization of his pasture every spring and says that this pasture is the most profitable land on his farm."

### Five-Acre Pulpwood Thinning Contest

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### County-Wide 4-H Hog Show and Sale

There will be a Fat Hog show and sale, October 28, of hogs fed by 4-H club members in Williamsburg county. The show and sale will be held at the hog loading pen on ACL railroad between 8 a. m. and 11 a. m. These pigs were put on full feed when weighing around 75 pounds each. Pigs to be shown are not purebred but in most cases, the average run of breeding stock finished to top market weight. Object of show is to encourage swine production and better feeding practices in the corn producing counties.

Premiums will be paid on a grade basis for choice, good and medium fat hogs. Prizes will also be awarded to the boy who has the best individual hog and to the one having the best

## SWEET POTATO RETURNS COMPARE WITH TOBACCO

Results from the 4-H sweet potato contest in Williamsburg county in 1946 show that the Louisiana strain Porto Rico sweet potatoes gave a net profit comparable to 1946 high-priced tobacco, says L. B. Harrington, assistant county agent of the Clemson extension service.

Carlton Floyd, 13-year-old son of Mr. and Mrs. H. L. Floyd of the Indian-town community, has sold from one acre \$524.29 worth of potatoes and has on hand 123 bushels of slips and jumbos which at a dollar per bushel makes a net worth of \$647.29. His total expenses of \$118.51 leaves him a profit of \$458.78.

The 1945 agricultural census shows that 2738 acres of sweet potatoes were grown during 1944 in Williamsburg county. However, most of the acreage has been for home use. Williamsburg county has some of the best type of soil for growing sweet potatoes. Mr. Harrington thinks it would be good farming for Williamsburg farmers to consider the possibilities of the sweet potato.