

1947

1947 Negro Lancaster County Extension Service Report

Clemson University Cooperative Extension Service

R. N. Smith

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ANNUAL REPORT

COUNTY AGENT WORK

LANCASTER
County

SOUTH CAROLINA

1947

R. N. Smith

Negro Agricultural Agent

CLEMSON AGRICULTURAL COLLEGE

Cooperating with

UNITED STATES DEPARTMENT OF AGRICULTURE

EXTENSION SERVICE

D. W. Watkins, Director

Clemson, South Carolina

L A N C A S T E R C O U N T Y

ANNUAL REPORT

by

ROBERT N. SMITH

NEGRO AGRICULTURAL AGENT

- 1947 -

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, S. C.

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1.	Days spent in office	86
2.	Days spent in field	212
3.	Days worked	298
4.	Miles traveled	13541
5.	Number of farm visits made	507
6.	Number of different farm visits	345
7.	Number of office calls relating to extension work	205
8.	Meetings held or attended	51
9.	Attendance at these meetings	2081
10.	Number of communities in which extension service was conducted	11
11.	Number of farmers conducting demonstrations	82
12.	Number of voluntary community leaders assisting with extension program	16

PROJECT ACTIVITIES AND RESULTS

Agricultural Economics

Five outlooks were held with an attendance of 320 farmers. The meetings were held on the Food and Feed Production Program. Information was given on each point and its importance in the 1947 farm program. Conducted three farm planning meetings with pasturing, home improvements and developing a milk route as the important factors. Agent cooperated with Farm Security Administration in encouraging the returning veterans to borrow money to buy farms.

All farmers were encouraged to meet all obligations possible because of the increase in farm products and the high price conditions. The agent cooperated with the Veterans Administration in recruiting veterans as farm laborers in the county.

Agricultural Engineering

Nine farmers were assisted in getting work agreements signed with the soil conservation program of the county. One hundred acres were terraced, three plans furnished for poultry houses, three new brooders were built, five self feeders for turkeys, eight for chickens, four stables, and three general purpose barns were built.

Agronomy

Five farmers conducted the five-acre cotton production contest, producing on an average of one bale to one acre. Six farmers planted three to five acres of Hybrid 7-14 funk yellow corn in three to five acre plots with an average 65 bushels to an acre. Two meetings were held on planting an additional acre of yellow corn. One circular letter was sent out to 100 farmers on the production of yellow corn for food and feed. Three cow peas demonstrations were completed with a yield of one and a half-- $1\frac{1}{2}$ tons to the acre. Held two demonstrations on building compact heaps. Three farmers completed sugar cane demonstrations with a yield of one hundred gallons to the acre. Three lespedeza demonstrations were conducted with a yield of two tons to the acre. Two out demonstrations were conducted with a yield of a ton and three quarters of an acre for feed instead of corn. Three demonstrations were conducted on Kudzu hay production with a yield of 1.7 tons per acre.

Animal Husbandry

Placed five bull calves for canning purposes assisted eighteen farmers in castrating hogs for home and market purposes. Assisted five farmers in castrating bulls for canning purposes. Conducted five pig feeding demonstrations showing a profit after buying one-third of the feed. Placed twenty pigs with the farmers of Dixie, Primus and Jones Cross Road communities for feeding and fattening for family use. Held two meetings cutting and curing demonstrations. Placed one pure-bred bull and two pure-bred gilts with the farmers of the county.

Dairying

Placed two pure bred guernsey bulls and five pure bred guernsey heifers with the farmers of the county. Conducted one demonstration on butter and cheese making for home use. Encouraged twenty-six farmers to sell milk above home use. Assisted ten farmers in planting dairy cattle grazing crops. Twenty dairy calves club members grew out gwenty heifers and two bulls and showed seven at the district show in Chester, S. C. Three were placed in first place and two placed in second placed.

The twenty club members showed their calves at the County Fair 4-H Club Calf Show. The amount of prizes given was \$50 to be divided among the group in the first three classes.

Entomology and Pathology

Conducted four demonstrations combating garden insects with the home-made duster. Seven demonstrations were given on the use of Sabadilla dust in combating the collard bug. Held one meeting on the best control of garden insects. Seven demonstrations were given on controlling the peach tree borers. Observation made and publicity given on boll weevil infestation control in the county.

Forestry

Assisted three farmers in selecting timber to sell which brought them a profit of \$810.00. Assisted four farmers in securing five hundred and twenty young pines to set out on their farms.

Four-H Club Work

Thirteen communities clubs were organized with an enrollment of 247 members, 179 of which completed demonstration producing farm products with a value of \$10,469.30 and realizing a profit of \$6,480.00. Twelve clubsters attended the 4-H Club Wild Life Council meeting at Orangeburg, S. C. One 4-H Club council was held. One achievement program. Twelve boys and five girls attended the Kings Mountain Camp. Six boys exhibited products on the 4-H club booth at the Lancaster County Colored Fair. The 4-H Club booth was first place among other booths. Ten 4-H Club boys entered the State One Acre corn contest in which ten completed the demonstrations. These boys were picked from different sections of the county on the records they had made in the past year.

Horticulture

Thirty-five orders were placed for a total of three hundred and fifty-two fruit trees for home orchards and improvements. Six pruning and five thinning demonstrations

were completed. In sweet potato work three hot bed demonstrations were completed with fourteen bushels of sweet potatoes each yielding on an average of thirty-four thousand plants per bed. These sweet potatoes were treated with the borax solution before bedding. Three demonstrations were given on the treating of sweet potatoes with borax solution before bedding. Those sweet potatoes showed a greater yield than sweet potatoes in the same community that were not treated.

Marketing

Assisted five farmers in marketing three hundred and seventy-five dollars and eight cents worth of hogs. Seven farmers \$325.90 worth of poultry. Three farmers in marketing \$275 worth of sweet potatoes. Nineteen farmers in selling \$390 worth of milk on the routes.

Poultry

Four grown healthy chick demonstrations were completed with 680 baby chicks raised. Three hundred and twenty-five fryers were marketed at a good profit. Two vaccination demonstrations were given. One turkey tour was held and three turkey demonstrations were completed raising 602 out of 820 poults. One poultry school and two poultry field meetings were held.

Visual Instruction

Made photographs of 10 different 4-H Club demonstrations. At four meeting showed educational motion pictures from Clemson to the farmers of the county.

Publicity

Seven hundred and twenty-five personal letters were written; three circular letters were written and 890 bulletins were distributed. The farmers toured Chester County Pasturing, milke route and Borden Milk Plant program with an attendance of nine farmers interested in the work carried on in Chester County.

I. County, community and neighborhood organization of Volunteer Farm and Home Leaders.

1. County Agricultural Committee

a. Sixteen farmers composed the agricultural planning committee. They were elected by the farmers of their communities and by the supervision of the agricultural agent.

b. List of names and addresses of the members.

V. C. Cauthen	Rte. 2, Lancaster, S. C.
J. W. Frazier	Rte. 2, Lancaster, S. C.
I. C. Tims	Rte. 1, Lancaster, S. C.
John Ellis	Rte. 3, Lancaster, S. C.
Frank McCullough	Rte. 2, Heath Springs, S. C.
Lee Massey	Rte. 1, Van Wyck, S. C.
Robert Peay	Rte. 1, Lancaster, S. C.
Leroy McWhirter	Rte. 3, Lancaster, S. C.
John Coleman	Rte. 3, Lancaster, S. C.
Mitchell Young	Rte. 3, Lancaster, S. C.
Mrs. Mary J. Blackmon	Rte. 3, Lancaster, S. C.
U. M. C. Brevard	Rte. 2, Bancaster, S. C.
Robert Waiters	Rte. 3, Lancaster, S. C.
James Blackmon,	Rte. 2, Heath Springs, S. C.
Mrs. J. W. Frazier	Rte. 2, Heath Springs, S. C.
Mrs. J. W. Stewart	Rte. 2, Lancaster, S. C.

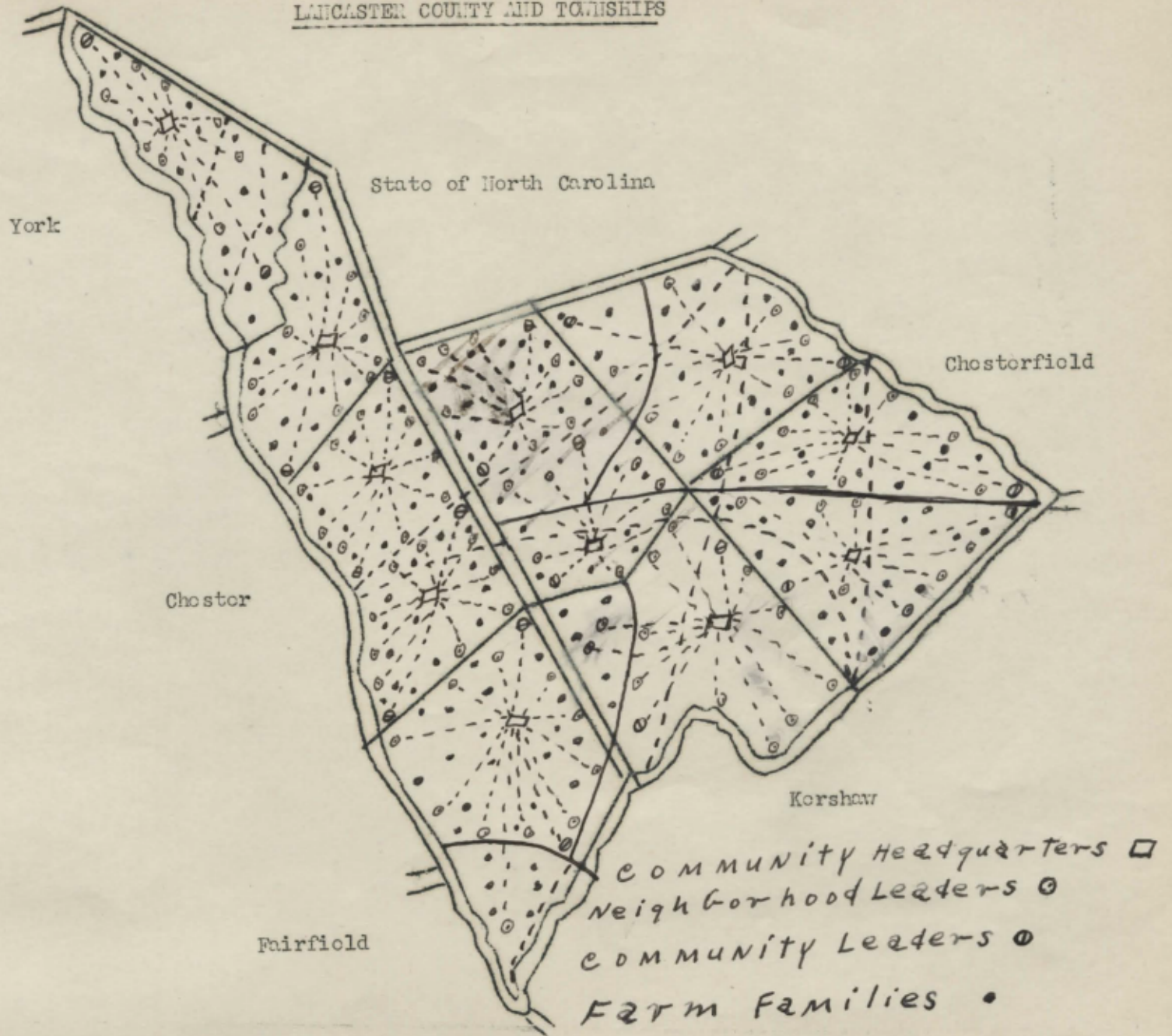
c. The duties of these members are to encourage farmers of their communities to grow enough food, feed, livestock for their family use and surplus for the market. The members also encouraged better breed of cows and extension of the milk route over a larger area of the county. These members of the committee have been trained at the various leader training meetings during 1947. They are responsible for knowing their community and the needs of their neighbors and to help make plans for the best interest of the county.

2. Community Agricultural Committees and Neighborhood Leaders.

A. List of names of communities and neighborhoods organized for the different phases of the agricultural program in the county.

Indian Land	- - - - -	2
Pleasant Valley	- - - - -	2
Osceola	- - - - -	2
Van Wyck	- - - - -	-2
Van Wyck	- - - - -	-3
Jacksonham Unity	- - - - -	-2
Unity	- - - - -	2
Jacksonham	- - - - -	3
Buford	- - - - -	-1
New Bethel	- - - - -	-2
Dixie	- - - - -	2
Union	- - - - -	2
Tradesville	- - - - -	1
Rose Hill	- - - - -	1
Rich Hill	- - - - -	2
Primus	- - - - -	-3
Fork Hill	- - - - -	2
Elgin	- - - - -	1
Elgin	- - - - -	3
Pleasant Hill	- - - - -	1
Pleasant Hill	- - - - -	2
Heath Springs	- - - - -	1
Heath Springs	- - - - -	2
Flint Ridge	- - - - -	2
Douglas	- - - - -	1
Bell Town	- - - - -	2
Jones Cross Road	- - - - -	2
Dry Creek	- - - - -	1
Mt. Carmel	- - - - -	-3
Cedar Creek	- - - - -	2

LANCASTER COUNTY AND TOWNSHIPS



3. List of different programs and campaigns handled by Voluntary Leaders in 1947.

1. Food and Feed Production Program.

Five meetings were held with an attendance of 125 farmers. The information given was on the importance of each preparation for selling milk in Lancaster County.

Three farmers carried turkey demonstrations as a result of the food and feed production program. Farmers in all communities where meetings were held made early orders for fertilizer, seeds, farm equipment, used better seeds and planted more hybrid corn. Seven farmers bought grade bullock calves for canning purposes in the fall. Five farmers entered the five acre cotton contest. Two farmers bought pure bred guernsey bulls. Twenty 4th clubsters grew out seventeen heifers and three bulls for the show held at the County Fair. Demonstrations were given on combating garden insects with the different insecticides available. Three sweet potato hot bed demonstrations were given. Two hundred and forty bulletins were distributed in connection with the food and feed production program.

2. Liming Program

The liming program was carried out very good by the farmers of five communities. Farmers of other communities were later in placing their orders. Two meetings were held on the use of lime and two lime spreaders were made. Fifty bulletins were distributed on the use of lime and its value in improving the crops in Lancaster County. Five farmers of Rose Hill, Heath Springs, St. Paul and St. John communities limed their pasture as a result of the information received on lime as a soil improver.

3. Seeding Fall Grains

Three demonstrations were conducted on treating oats and wheat before planting. One hundred twenty-five bushels of Chhens Victory Grain oats were placed with farmers of

Jones Cross Road, St. Paul, Steele Hill for better fall grain crops. One meeting, nineteen bulletins were distributed on fertilizing fall grain at planting time which would result in more oats and wheat to an acre. Eighteen bushels of Cohan's Red Heart wheat were placed with five farmers of five different communities for the production of better wheat seed as well as flour.

4. Farm Labor Program

Farm labor was a great problem in Lancaster County this year. Voluntary leaders cooperated with the agent and the labor assistant in getting people to gather cotton, peaches, grain, chop cotton, and other types of labor needed by the farmers of Lancaster County.

II.

PROJECT ACTIVITIES AND RESULTS

Agricultural Economics

Work in agricultural economics in 1947 included out look meetings, farm planning demonstrations, special meetings on the South Carolina Food and Feed Production Program, cooperation with the Farm Security Administration and other agencies of the County.

The Negro farmers of Lancaster County are coming more to the point to realize the value of outlook information on the extension service program as a guide in food, feed and livestock farming operations.

Farmers in the St. Paul, Rich Hill, Heath Springs areas stated that the information received enabled them to increase the production of corn, turkeys, chickens, small grain, canned fruits, canned vegetables, improved home orchards, curing and canning meats.

Agricultural Engineering

Agricultural engineering work during 1947 included soil conservation, farm buildings, sanitation, farm machinery and harvesting of food and feed. Two farmers bought tractors this year.

Soil Conservation

1. The farmers of Lancaster County have signed 21 agreements for terracing and setting out Kudzu on their farms as cooperation with the soil conservation program.

Meetings: One meeting was held in the Jacksonham community on the construction of terraces and the value of soil conservation servicing of crops. Twenty-five farmers attended this meeting.

Farm Building

Farm Building Plans: Farm building plans prepared by the extension engineering division were furnished to farmers for the construction of the following listed buildings:

Buildings	Number
Poultry Houses	3
Hog Self Feeders	4
Brick Brooders	2
Smoke Houses	5
General Purpose Barns	3
Total	17

Storage Houses: The agent assisted in building four inexpensive storage houses for meat and canned food. Cull lumber and slabs were used for buildings.

Summary of Storage Houses Built is as Follows

Name	Community	Size	Cost
George Peay	Mt. Carmel.	12 x 12	\$27.90
James Blackmon	Pleasant Hill	14 x 14	38.20
Robert Waiters	Elgin	10 x 10	24.95
John McNeely	Tradesville	12 x 16	43.80
Total cost			\$134.85

Care and Repair of Farm Buildings

Assistance was given in repairing three barns, one poultry house, two smoke houses and three storage houses. Seventy-five bulletins were distributed on farm buildings and repair in 1947.

Care and Repair of Machinery and Equipment

Twenty farmers were assisted in the repair of farm machinery and equipment in 1947. Four tractor owners and operators attended the tractor school in Chester during August.

Some of the repair work was carried on with the cooperation of the Vocational Agriculture Teachers of the County.

Agronomy

Agronomy work in 1947 consisted of demonstrations and educational work in connection with cotton, corn, Kiffa corn, Mila, hegari, fertilizer, soil building crops, hay and pastures.

Cotton

Five-acre cotton improvement demonstrations: Five Lancaster County farmers of eight enrolled completed their five-acre cotton improvement contest demonstrations in 1947 and submitted records. A summary of these demonstrations follows:

Name	Lbs. seed cotton	Lbs. Lint	Value Crop	Cost Prod.	Net Profit	Lint Cost per lb.	Seed Cost per lb.	Variety
J. Ellis	7,500	2503	609.20	190.90	409.30	4.9¢	36.5	C100
A. McIlwain	6,027	2009	522.34	186.20	336.14	7.0	38.6	C4in1
C. H. Blackmon	7,006	2335	607.10	189.95	417.15	5.3	35.9	C100
V. C. Cauthen	7,248	2416	598.95	187.20	411.75	5.5	36.3	C100
T. A. Duncan	6005	2001	501.80	195.00	306.80	4.9	35.1	C100
Average yeild lint per acre					526			
Average value per acre					\$120.30			
Average per cent lint					36.4%			
Average cost per pound					5¢			

Improved Seed: The campaign for cotton improvement through the use of improved planting seeds were continued this year. Two meetings were held on the purpose of using improved seeds for the 1947 cotton crop, and through a campaign 155 bushels of improved and best varieties recommended were placed with 19 farmers this year at an average cost of \$2.80 per bushel.

The five-acre cotton improvement contest demonstrations created a great deal of interest among the farmers and caused them to produce a better length of staple and to increase the yield over the last year.

Corn Production

During the 1947 the campaign to increase the yield per acre in Lancaster County was continued. Three meetings were held which results of experiments and demonstrations in Hybrid, yellow and white corn production were discussed. One circular stressing good seed, soil improvement crops and fertilization were prepared and mailed to the farmers of the county. The production and yielding of the value of hybrid corn was stressed all over the county.

Corn Production Demonstrations: Three farmers completed corn production demonstrations. Showing the value of soil improvement, good seed, proper spacing and proper cultivation. A summary of these records follow:

<u>Summary of Corn Production Demonstrations</u>							
Name	Acres	Yield Bu.	Bu. per Acre	Cost Prod.	Cost per Bu.	Value Crop	Profit
G. W. Cauthen	5	210	42	95.00	75¢	\$ 367.50	272.50
Eddie Crowe	8	264	33	135.80	61¢	462.00	326.20
John Coleman	6	186	31	110.40	54¢	325.50	215.10
Totals 19		660	Average	35.8	63.3¢		
Average production bushels per acre						35.8	

Hybrid Corn Demonstrations: Three one acre and one three acre hybrid corn demonstrations were conducted on the production of hybrid yellow corn by farmers that were interested in livestock and poultry. The three acre demonstration was planted with the Funk G-7-14 variety of hybrid corn and the three one acre demonstrations were planted with the McCurdy yellow hybrid corn from Iowa for an experiment on the production in this State.

Summary of Hybrid Corn Production Demonstrations

Name	Acres	Yield Bu.	Bu. Per Acre	Cost Prod.	Cost per Bu.	Value Crop	Profit
Ben Barnes	1	41	41	\$18.50	65¢	\$75.85	57.35
R. B. Stewart	1	37	37	15.20	60¢	58.45	43.25
J. W. Black- mon	1	35	35	16.90	62¢	64.75	47.85
Hamp Davis	3	126	42	57.20	69¢	233.10	175.90
Totals	6	239	Av. 39.9		64¢		

Average production bushels per acre 39.9
 Average value per acre @ \$1.85 per bu. 72.82
 Average cost per bushel 64¢
 1947 crop value \$1.85 per bushel.

Small Grain

Oats Production: Three demonstrations in the production of oats were completed, a summary of which is given as follows:

Summary of Oats Demonstrations

Name	Variety	Acres	Yield per Bu.	Yield per Acre	Cost	Cost per Bu.	Value	Profit
S. L. Hill	Victorgrain	6	210	36	\$160.00	71¢	\$283.50	123.50
J. McNeely	Fulgrain	8	336	42	178.00	64¢	453.60	273.60
A. Stinson	Victorgrain	5	155	31	139.00	66¢	208.25	69.25
Totals		19	701		477.00		945.35	476.35
Average per Acre				36	25.11	67¢	48.75	25.07

per bu.

This record shows an average yield of **36** bushels per acre, as a result of improved practices with fertilizers with planting and treating seeds. The cost per bushel was 67¢. The demonstrations returned a profit of \$25.07 per acre to the growers.

These improved seeds the second year from the breeder.

By placing orders for oat seeds, 20 farmers of the county were assisted in obtaining 151 bushels of improved oat seeds for the fall seeding in 1947.

Wheat Production: Four farmers completed wheat production demonstrations in the summer of 1947.

Summary of Wheat Demonstrations								
Name	Variety	Acres	Yield Bu.	Bu. Per A.	Cost	Cost per Bu.	Value	Profit
J. Blackmon	C. Red H.	4	68	17	\$23.10	51¢	\$102.00	78.90
V. Twitty	C. Red. H.	3	54	18	19.80	60¢	81.00	61.20
C. Tucker	C. Hardired	2	40	20	21.15	54¢	60.00	38.85
I. Tims	C. Hardired	4	84	21	22.50	57¢	126.00	103.50
Totals		13	246		\$85.55	55¢	\$369.00	282.45
Average per acre				19		per bu.	28.38	21.93

Legumes for Hay

Lespedeza for Hay Production: Three demonstrations of cow peas for hay production were completed in 1947. A summary of these demonstrations follows:

Summary of Demonstrations of Lespedeza							
Name	Variety	Acres	Yield Tons	Cost Prod.	Cost per Ton	Value Crop	Profit
G. W. Walker	Kobe	4	7	\$62.80	\$8.00	\$210.00	147.20
J. C. Crockett	Kobe	5	9	83.00	9.40	240.00	157.00
E. Belk	Korean	6	10	91.50	8.95	251.00	159.50
Totals		15	26	237.30		701.00	
Average		1.7					per A.
		per A.			8.79		17.84

Cost records on these demonstrations included the price of seeds, fertilizerm rent of land and a man and mule labor included in seeding, harvesting and handling the crop. Lime had been applied to the soil about one year before planting. The hay crop was valued at \$31 per ton.

Interest in lespedeza as a hay crop is increasing in Lancaster County.

Cow Pea Hay Production Demonstration: Three demonstrations of cow pea hay production was completed in 1947.

Summary of Cow Pea Hay Production Demonstrations							
Name	Variety	Acres	Yield Tons	Cost Prod.	Cost per Ton	Value Crop	Profit
J. Blakeney	Clay	5	8	\$44.50	\$7.10	155.00	110.50
R. Henderson	Clay	4	6	31.20	6.40	132.00	100.80
C. McKinney	Clay	6	10	62.20	6.88	172.00	109.80
Totals		15	24	\$137.90		\$459.00	
Average		1.6			\$6.80		13.38
		Per A.			Per Ton		Per A.

These demonstrations were carried on in communities where the milk routes were extended. These farmers were able to have more hay as feed for their cows and other livestock. The hay crop was valued at \$25 per ton.

Kudzu Hay Demonstrations: There is a definite need in the county for better quality hay and Kudzu seem to be filling the requirement very satisfactorily. Three farmers kept accurate records on Kudzu planting to determine the number tons of hay produced per acre. The great difference between Kudzu hay and most hays commonly grown is in the quality and color when it is properly handled. Kudzu promises to replace much of the poorer quality grass hay grown in the county.

Summary of Kudzu Hay Demonstrations							
Name	Acres	Yield Tons	Total Cost	Cost per Ton	Value	Profit	Year's Growth
W. Stewart	2	4	\$35.00	\$5.15	\$325.00	\$129.00	2
E. Belk	3	5	47.00	6.10	407.00	140.00	2
R. McWhirter	2	3	24.00	4.28	291.00	126.00	3
Total	7	12	\$106.00	\$15.53	\$1023.00	395.00	
Average		1.7		7.76			

Annual Grazing Crops

Annual Grazing Crops: The real value of the annual grazing crop was demonstrated this year by increase of milk production on cows on the milk routes when the lack of rainfall caused pastures to be short of grazing than usual.

Summary of Millet Grazing Demonstrations					
Name	Acres	Crop	No. of Animals Units Grazed	Total Days Grazed	Cost
B. J. Blackmon	4	Millet	7	45	54.00
H. Belton	3	Millet	5	38	36.00
R. McKinney	12	Millet	16	42	125.00
Totals	19		28	125	215.00
Average	6.3		9.3	41.6	

Three demonstrations were conducted with millet as an annual grazing crop showing that these three farmers of different communities grazed their cows on 19 acres of millet an average of 41.6 days. The millet was grazed mostly during July and August when pastures were shortest.

Sugar Cane

Sugar Cane: Three farmers in the St. John Community completed sugar cane demonstrations in 1947. Great deal of emphasis is shown because the farmers are finding sugar cane prominent among farm crops.

Sugar Cane Demonstrations						
Name	Acres	Variety	Total Gallons Produced	Total Value Cost	Cost per Gallon	
Mack Barnes	2	O. T.	260	\$120.00	215.00	58¢
Ben Barnes	1	G.S.R.	125	74.00	165.00	61¢
F. C. McMurray	1	O. T.	150	87.00	195.00	53¢
Total	4			Average		57.4¢

Permanent Pasture

Permanent Pastures: The meetings held in three communities on permanent pastures created a great interest among the

farmers to the fact of cutting under growth, fertilizing, planting white Dutch clover and Dallas grass for the County-wide pasture improvement contest. Twenty farmers were assisted in getting ten tons of superphosphore for their pastures.

The farmers of the Rich Hill community were selected as contestants in the county pasture improvement contest. Other farmers were assisted in getting pasture grass and clover seeds along with five tons of lime per pasture. John Ellis, a land owner in the Rich Hill community, was given six pounds of Kentucky 31 Fescue grass for his outstanding work in his pasture in 1947.

Animal Husbandry

The animal husbandry work in Lancaster County for 1947 included the assistance to farmers in castrating 25 boars and having farmers to obtain educational materials of swine sanitation, placing pigs with farmers for port production, feeding, breeding and selecting 4-H clubsters pigs and 4-H club dairy heifers.

Hog Feeding and Sanitation: The 4-H clubsters showed interest in the feeding and sanitation program of calves and pigs and most of them have been able to assist their parents in working out balance ration for the growing season.

Swine

The program of demonstration work with hogs in 1947 included the placing of three pure bred gilts and to pure bred boars. A record of this placing is as follows:

Summary of Pure Bred Boars				
Name	No. of Boars	Age	Cost	Breed
C. B. Walker	1	6 mo.	\$45.00	Poland China
S. H. Jones	1	4 mo.	31.00	Poland China
Total placed		2	\$76.00	

Summary of Pure Bred Gilts Placed

Name	No. of Gilts	Breed	Age	Price
G. Walker	1	Hampshire	7 mo.	\$56.00
I. C. Tims	1	Poland China	5 mo.	39.00
E. Belk	1	Hampshire	6 mo.	50.00
	3			145.00

Meat Cutting and Curing: Four meat cutting and curing demonstrations were held during the year. At these demonstrations the proper methods of cutting and curing meat were demonstrated.

Farmers were encouraged to cure meat and make plenty of lard, because of the price of fats and oils.

Canning Beef for Home Use: This year the agent assisted 27 farmers in canning 2510 quarts of beef. This beef came from selective groups of well fed grade bulls, which averages about 75 quarts each. One educational meeting was held on canning young grade bulls for home consumption in order to out out the inferior breeding in the milk production area of the county.

Grade bulls placed for canning: Five grade bulls were purchased for canning in 1947.

Summary of Grade Bulls Placed for Canning

Name	No. of Bulls Placed	Breed	Age	Price
J. Coleman	1	Grade Herdford	4 mo.	\$25.00
W. Stewart	1	Grade Herdford	6 mo.	70.00
L. Rutledge	1	Grade Herdford	5 mo.	53.00
E. Davis	1	Grade Guernsey	3 mo.	21.00
R. Crawford	1	Grade Guernsey	4 mo.	25.00
Totals	5			\$192.00

Dairying

Extension work in dairying for 1947 included two meetings, distribution of bulletins on the family cow, dairy calves in the 4-H club work, annual grazing crops, one tour, to the pasture and silage demonstrations of Chester County. Plans for more families to seal milk was made.

Assistance was given in establishing the Carnation milk route in Lancaster county. Twenty families are selling milk on the route.

Milk Route: Ten farmers bought new sanitary milk buckets from Borden Milk Plant in 1947. Five more farmers started selling milk on the route this year made an average of \$56 per month from the sale of milk.

Permanent Pastures

Permanent pasture work was discussed in the agronomy section of this report. The farmers in the milk route also of the county are realizing that the improvement and establishment of the permanent pastures will be the life of a greater milk selling industry in Lancaster County for selling milk on the Borden and Carnation Milk route.

The family milk cow: A great deal of emphasis was put on the feed, care and sanitation of milk equipment and the family milk cow. Nine families have bought new equipment. These farmers were able to make their plans for permanent pasture seeds from the sale of milk.

Animal Grazing

The annual grazing work was discussed in the agronomy section of this report. The annual grazing demonstrations were completed by farmers that sold milk on the routes in 1947.

Four-H Dairy Club Work

One dairy calf club was organized in Lancaster in the fall of 1945 with six clubsters as members. In the spring of 1946 eleven more members joined making 17 members with grade and pure bred Guernsey heifers and bulls, and in 1947 there were 31 members and twenty of them showed off their calves at the District and County Shows.

Each member of the club is furnished with a calf club record book and other useful bulletins on the proper methods of caring for growing dairy cattle, and fitting them for show.

Summary Dairy Calf Club Demonstrations

Name	No. Animals at Begin. of Yr.	No. Animals at End of Yr.	Receipts & Increase in Value	Expense	Profit
Brice Catoe	1	1	\$ 55.00	\$17.00	\$38.00
Hiawatha					
Stewart	1	1	80.00	20.00	60.00
James Taylor	1	1	25.00	7.00	18.00
Arthur Cauthen	1	1	50.00	10.00	40.00
Elliott					
Cauthen	1	1	65.00	12.00	53.00
Bennie E.					
Johnson	1	1	75.00	25.00	50.00
Roy E.					
Truesdale	1	1	35.00	10.00	25.00
Robert Price	1	1	40.00	15.00	25.00
Leroy Clinton	1	1	56.00	16.00	40.00
Lewis Cauthen	1	1	75.00	25.00	50.00
Clyde Cauthen	1	1	45.00	15.00	30.00
Lloyd Barnes	1	1	175.00	30.00	145.00
Curtis Brevard	1	1	180.00	40.00	140.00
T. B. Threatt	1	1	125.00	30.00	95.00
Wesley Stewart	1	1	105.00	25.00	80.00
Robert Thomas	1	1	65.00	15.00	50.00
Elliott Truesdale	1	1	80.00	20.00	60.00
R. B. Stewart	1	1	38.00	9.00	29.00
K. C. Threatt	1	1	45.00	12.00	33.00
Bennie Davis	1	1	75.00	25.00	50.00
Totals	20	20	1489.00	378.00	111.00

This summary for the 20 members shows an increase of all 20 animals during the year, and receipts and increases in value of \$1489.00 for the 20 members, or an average profit of \$55.55 per member, which was \$13.32 increase per member from the profit of 1946.

The 20 animals were shown at the Lancaster County Fair, where they competed in opening classes, winning one grand champion, one reserve grand champion, four first places, 12 second places and four third places. Prizes amounted to \$50.00.

In addition, nine animals were shown at the district show in Chester and the places received in the beginning of the 4-H club work in this report.

Miscellaneous

The county agent encouraged the parents and 4-H club members to get as many pure bred Guernsey cattle in the club as possible. The club members must have a cap, arm band and pin before they can become a member of the Judging Team and Calf Club.

The 4-H Club Dairy Cattle Judging Team consisted of four members which won fourth place at the district show. All members of the dairy calf club were taught how to judge dairy animals during 1947.

Fair Exhibits

Following is a summary of 4-H Club exhibits at the Lancaster County Fair:

County Fair Exhibits				
Exhibit	No. Boys Exhibiting	No. Entries	Placing	Premiums Won
Corn	10	10	5	\$10.00
Hogs & Pigs	5	5	3	12.50
Dairy Calves	20	20	20	65.00
Hens & Poultry	7	7	6	2.90
Totals	42	42	41	90.40

Entomology and Plant Pathology

Extension work in entomology and plant pathology in 1947 included educational demonstrations with work in prevention and control of boll weevils, livestock insects, garden insects and plant diseases.

Ten farmers used home made dusters in the campaign of controlling and preventing garden insects. Eight demonstrations were conducted on treating oats and wheat. These demonstrations were conducted by a 4-H club demonstration team in the Rich Hill and Heath Springs communities.

Nine demonstrations were conducted on treating cotton seeds by a 4-H club demonstration team.

Collard Bug Control: The Sabadilla dust was found to be the insecticide for controlling the collard bug. Five different sections of the county.

Peach trees treated for borers: Eight demonstrations were given on the treating of peach trees with the chemical parascalecide solution for borer control. Bulletins were sent to the farmers on the different insecticides for the protection of fruit trees over the county.

Insects and Rodents

Boll Weevil Control: The contestants in the five acres Cotton contest poisoned their cotton three times each in order to get the best of their cotton crop. They used the 1-1-1 for boll weevil control. These farmers reported at least 700 pounds of seed cotton to an acre as the result of the poison used. The fields poisoned were checked weekly for boll weevil infectation.

Mouse Control: Two demonstrations were given on mouse in corn cribs and in oat and wheat seeds saved for planing. Bulletins and other educational materials were given to the farmers and 4-H Club members on mouse control.

Farm Woodland Management

The result of these records are listed below:

Summary of Woodland Management Records

Demonstrators	Value of Product Cut				
	Acreage in Dem.	Use on Farm	Sold	Cost	Profit
S. L. Evans	50	\$50.00	\$575.00	\$120.00	\$455.00
R. M. Blakney	25	45.00	300.00	75.00	175.00
Mack Barnes	15	40.00	280.00	60.00	180.00
Totals	90	135.00	1155.00	255.00	810.00

It is planned to continue keeping records on these demonstrations, so that other farmers of the county can learn the value of woodland management for the purpose of thinning, selective cutting and fire prevention over the county. The 4-H Club and other organizations in the county were given educational material on fire prevention this year. Each of the three farmers that carried the demonstrations were assisted by their's which are 4-H clubsters of their communities.

Boys work was conducted in thirteen communities in Lancaster County in 1947. With an enrollment of 247 each club is in charge of a local leader and regular monthly meetings are held with each club.

Summary 4-H Club Enrollment and Completions

Name of Club	No. Enrolled	No. Completing Demonstrations	Per Centage Completing Demonstrations
Riverside	26	16	62
Rich Hill	23	15	65
Three Fork	15	12	80
Van Wyck	21	18	85
Springdale	17	13	77
Elgin	13	12	93
Steel Hill	25	20	80
Heath Springs	27	14	52
Pleasant Hill	11	8	73
Rose Hill	16	13	82
Dixie	23	16	69
Mt. Carmel	18	12	67
St. Paul	12	10	84
Totals	247	179	969

Following is a summary of 4-h Club Demonstrations completed in 1947:

Demonstration	No. Completed	Value of Production	Cost	Profit
Corn	47	\$2,293.00	\$789.00	\$1,504.00
Poultry	22	1,247.00	638.00	609.00
Pig (F)	31	1,278.00	387.00	891.00
Calf (D)	50	4,272.00	1631.00	2,641.00
S. Potatoes	15	711.00	250.00	461.00
Oats	14	668.00	294.00	374.00
Totals	179	10,469.30	3989.30	6,480.00

A complete summary of records in 4-H Club work has been submitted to the District Agent's office for the State 4-H Club Agent.

Four-H Club Achievement Day

The 4-H club achievement day was held at the Van Wyck school house on April 5. At this meeting Agent Marshall, County Agent for Kershaw County, was the principal speaker. The president of the 4-H Club council was the master of ceremonies. The local leaders from all clubs over the county were present. Several different kinds of games were played for recreation. A demonstration was given by the Van Wyck 4-H Club boys on treating corn before planting.

Four-H Club Leader Training Meetings

Two leader training meetings were held during 1947.

Four-H Club Camp

Five boys attended camp in Kings Mountain in July. Five boys and one local leader and one farmer attended the 4-H Club Conservation Camp in Orangeburg, S. C., in August. They were selected by the local leaders and club members to go as delegates. These clubsters have created great interest in their communities by leading rallies for funds for the building of Camp Harry Daniels. The adult farmers have made more farmers interested in attending these camps next year.

Ten boys from ten different communities in Lancaster County entered the State One Acre Corn contest and each of the clubsters kept records and completed their demonstrations.

Ten boys made an average of 53.4 bushels per acre. Eugene Robinson of the Heath Springs community produced 71.1 bushels per acre which was the highest among the ten clubsters. He planted the Woods Golden dent the first year from the breded.

Horticulture

Home Gardens: Information on home gardens was presented to the farmers of the county in three meetings on varieties, plantings, insect disease control, etc. Three demonstrations on hot bed building were given in five different communities.

Three home garden demonstrations were conducted during the year.

Summary of Home Garden Demonstrations

Name	Size of Plot	No. of Plantings	No. Mos. Veg. Ser.	No. Ser. Veg.	Qts. Can.	Amt. Sold
Mrs. E. Blackmon	4A	20	10	695	197	\$23.80
Mrs. J. Neely	3A	31	12	735	2056	23.60
Mrs. R. B. Price	5A	25	11	625	187	27.85
Totals	12A	76Av.	11	2055	587	80.75

Sweet Potatoes

Sweet potato demonstrations included hot beds and sweet potato production. One tour was conducted in Union County with farmers that were interested in sweet potato production. Some hot beds: Three record demonstrations were conducted on the operation of properly constructed hot beds for the production of sweet potato plants. A summary of these demonstrations follows:

Summary of Hot Beds Demonstrations

Name	Size of S Bed	Bu. Bedded	Date Bedded	First Drawn	No. Plants
W. Lindsay	10' x 28'	14	3/25	6/1	34,000
E. Morrison	10' x 32'	14	3/20	5/29	36,000
R. Brown	10' x 30'	14	3/18	5/27	32,000
Totals					102,000

As a result of proper sweet potato hot bed building from the Clemson bulletin on sweet potato production, a total of 17 were used to grow plants in Lancaster County this year. The three farmers that made the hot beds planted sweet potato and made an average return of plants and sweet potatoes on an average of \$225.00 each.

Home Orchards

Home orchards in Lancaster County consisted of placing orders for fruit trees, selecting spot for home orchards and for new trees and spraying.

The use of Para-scalecide for peach trees borers was used very successfully by farmers over the county in combatting the peach tree borer on young fruit trees.

Marketing

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

Marketing of surplus farm products: The County Agent cooperated with the farmers of the county throughout the year in marketing farm products for which there were no regular established local markets.

Summary of Marketing Work, 1947

Products	Quantity	Bought	Sold
Hogs	200 head	\$2,007.00	\$3,265.00
Sweet Potatoes	325 bu.		497.00
Dairy Cattle	20 head	2,007.00	
Fruit trees	375	100.00	
Lespedeza	3000 lbs.	200.00	
Wheat	100 bu.	192.00	
Seed Oats	400 bu.	257.00	
Cotton Seed	200 bu.	225.00	
Cane Syrup	325 gal.	252.00	
Total		3,333.00	3,762.00
Total value products bought and sold		\$7,009.00	

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

Poultry

Extension work with poultry projects in Lancaster County consisted of turkey demonstrations, vaccination demonstrations and grow healthy chick demonstration.

Summary of Grow Healthy Chick Demonstration

Name	No. Chicks Started	No. Raised	Per Cent Mortality	Chicks Sold	Chicks Faten	Lbs. of Feed
J. White	300	270	11	200	30	1000
G. Peay	200	168	.9	95	20	750
C. B. Wright	175	110	.7	75	20	600
B. Barnes	400	320	.8	250	25	1200
Average mortality			8.7%			

The four farmers kept enough pullets to produce some layers for home use.

Turkey demonstrations: Three turkey demonstrations were conducted in 1947. A summary of these follows:

Summary of Turkey Demonstration Records

Name	Poults Raised	Income	Cost	Labor Income	Labor Inc. Per Poul
G. W. Cauthen	250	1125.00	390.00	735.00	1.50
S. D. Threatt	125	690.00	300.00	435.00	1.41
T. B. Blakney	115	285.00	120.40	164.60	1.45
Average Labor Income per Poul					1.46

Farmers have started placing orders for turkeys which will increase the amount of demonstrations in the county another year. These farmers use soy beans and millet as grazing plots for their turkeys and each produced a very good turkey for the market. Each of these farmers have carried turkey demonstrations for the last three years.

Visual Instruction

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

Educational Motion Pictures: These were used at three farmers and 4-H club meetings and two nights at the county fair with a combined attendance of 375 people.

Photographs: Photographs were made of eight different 4-H club demonstrations in the county in 1947 and ten different demonstrations conducted by adults.

Charts and Maps were used in three meetings, attended feed proeuction program for 1947:

Summary of Use of Visual Instruction Aids

Visual Aid Used	No. Meetings	Attendance
Motion pictures	6	375
Photographs	10	100
Charts and Maps	15	280
Totals	31	755

The educational motion pictures whown by Clemson college were valuable in teaching the farm people agricultural practices and increasing attendance. Food and feed production also increased the attendance at farmers meetings.

Food & Feed Production Program

The South Carolina food and feed production program has created much interest among farmers and also caused them to use many improved practices in their farming in 1947. The leaders played a great part in keeping the organizations well in line with the food and feed production program.

The first and most important job of the farmers was to do his best in improving his ability to farm according to the food and feed production program in 1947.

At all of the community meetings the farmers of different communities would tell the progress made on the information given by the agent and the local leaders on the South Carolina Food and Feed production program.

All farmers in the county were encouraged to increase their food and feed production crops.

List of Farm Crops Increased in 1947

- | | |
|-------------------|-----------------------|
| 1. Corn | 7. Poultry |
| 2. Garden | 8. Hay |
| 3. Sweet Potatoes | 9. Animal Grazing |
| 4. Irish Potatoes | 10. Improved Pastures |
| 5. Cane Syrup | 11. Small Grain |
| 6. Hogs to Kill | 12. Cows to Milk |

The 4-H clubs food and feed production program was carried on very successfully by the local leaders and 4-H club members. Two 4-H clubs' boys canned 175 quarts of sweet potatoes from sweet potatoes grown as projects for 1947. Five 4-H club boys canned grade bulls for beef for family use. Six boys sold pigs raised as a pig fattening demonstration averaging a profit of \$42.00 each.

The Program for Returning Veterans and War Workers

Many devices have been used this year in helping the returning veterans and war workers to adjust themselves to the rural life program. Many of these people bought small farms.

The agent assisted 12 veterans in contacting the Service Officer of the Veterans Administration of Lancaster County To get in the school program for trades and other types of education. Twenty veterans were given instructions on getting farm loans and other things needed to set up a good farm. Twelve veterans and eight war workers carried food and feed production demonstrations and made a large amount for the market and home use. One farm and home labor saving show was conducted in Lancaster. 195 clubsters and adults attended the show.

Publicity

Publicity work and the distribution of educational information in connection with the 1947 extension program in Lancaster County was done through circular letters, press articles, the distribution of bulletins and farm tours. A summary of this work done in this connection is given as follows:

Circular Letters: A total of three circular letters were prepared 480 copies mailed to farmers and 4-H clubsters in Lancaster County in 1947.

Press Articles: A total of nine press articles of 4-H club and other agricultural interest were published in Lancaster County newspapers during the year. This encouraged more farmers to become interested in the extension program.

Bulletins Distributed: A total of 1210 bulletins were distributed to farmers and 4-H clubsters during the year.

Farm Tours: Four farm tours were conducted this year; one to the pasture, corn and cotton demonstrations, one to Coker's grain farm, one to the Chester pasture and dairy farm demonstrations, one to Union County to the sweet potato production demonstrations. A total of 55 farmers attended these tours.