

1948

1948 Florence County Extension Service Report

Clemson University Cooperative Extension Service

J. W. McLendon

Archie C. Odom

Frank M. Fleming

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PROPERTY OF
EXTENSION SERVICE
OF SOUTH CAROLINA

ANNUAL REPORT

COUNTY AGENT WORK

FLORENCE

County

SOUTH CAROLINA

1948

J. W. MCLENDON

County Agent

ARCHIE C. ODOM

Assistant County Agent

FRANK M. FLEMING

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

ANNUAL REPORT

COOPERATIVE EXTENSION WORK

FLORENCE COUNTY

SOUTH CAROLINA

1948

J. W. McLendon, County Agent

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Frank M. Fleming, Assistant County Agent

Table of Contents

County Extension Organization	1
Community Agricultural Committees	1
County agricultural committee	3
Executive committee	4
4-H club committee	4
Marketing committee	4
Soil conservation committee	5
Farm Organization committee	5
Livestock and fertilizer committee	5
Farm credit committee	5
Nutrition Committee	5
State agriculture committee	5
Agricultural Economics	6
Cooperation With Farm Credit Agencies	6
Agricultural Engineering	8
Soil Conservation	8
Farm Buildings	9
Home Made Lime Spreaders	9
Farm Machinery	10
Peanut Harvesting	10
Combine Harvesting	10
Harvesting, Handling and Ginning Cotton	10
Sweet Potato Curing Houses	10
Rural Electrification	11
Agronomy	12
Seed Certification	13
Five-Acre Cotton contest	14
Corn production	16
Pastures	22
Small grains	25
Oat Production demonstration	25
Wheat Production demonstration	25
Lespedeza for hay	25
Annual grazing	26
Soybean and corn demonstration	28
Legumes for soil building	29
Grain sorghums	31
Peanut demonstration	33
Seed Selection	34
Tobacco production	35

Animal Husbandry	36
Swine	36
Purebred Sires Placed	36
Purebred Gilts Placed	38
Dairying	40
Winter grazing	40
Permanent Pasture	40
The Family Cow	40
Entomology and Plant Pathology	41
Crop Diseases	41
Rust and Smut of Small Grains	41
Root Knot of Tobacco	41
Granville Wilt	41
Meadow Nematodes	41
Sore Shin and Southern Stem Rot	42
Ascochyta	42
Rosette on Pecan Trees	42
Seed Treatments	42
Insects	42
Peach Insect Control	43
Army Worms	43
Grain Aphids	43
Green Peach Aphids	43
Rat Control Campaign	44
Forestry	45
Forestry Management	45
Woodland Examination and Selective Cutting	46
Pine Seedling Summary	47
Four-H Club Work	
Summary of enrollments	48
4-H Dairy Calf Club	49
Four-H Beef Herd	52
Four-H Beef Calf Club Work	53
Hog Feeding Demonstrations for S. C. Fat Stock Show	54
Four-H 100 Fat Barrow Show and Sale	55
Pig Club Fattening Class	57
Pig Club Breeding Class	59
Pig Club Sow and Litter Class	60
Corn Club	61
Tobacco Club	65
Four-H Sweet Potato Demonstration	66

✓ Horticulture	68
Truck Crops	68
Surplus Irish Potatoes	70
Marketing	72
Poultry	72
Potatoes	72
Livestock	72
Truck Market	73
Poultry	74
Vaccination	74
Culling	74
National Poultry Improvement Plan	74
Feeding, Diseases and Management	74
Publicity	76
Summary of Publicity Work	76
Circular letters	76
Press Articles	76
Radio Talks	76
Bulletins distributed	76
Film	76
Specimen copies of circular letters	77
Specimen copies of press articles	81

COUNTY EXTENSION ORGANIZATION

PRESENT EXTENSION STAFF

White Agents

J. Ward McLendon, County Agent
Archie C. Odom, Assistant County Agent
Frank M. Fleming, Assistant County Agent
Vela Smith, County Home Demonstration Agent
Mary Frances Shirley, Assistant Home Demonstration Agent
Blanche Kelley, Assistant Home Demonstration Agent

The County Agents cooperate closely with the Agricultural Adjustment Program and the Soil Conservation Program.

Negro Agents

The County Agents cooperate with the negro agents in their program of work with the negro farm people of the county, aiding them in developing subject matter, demonstrations, and assisting them in obtaining specialist help. These agents are listed as follows:

H. S. Person, Negro Agricultural Agent

Lillian Brown, Negro Home Demonstration Agent

Community Agricultural Committee:

Listed below are the names of communities and neighborhoods organized with the number of voluntary community committeemen actively engaged in furthering the agricultural program in each organized community and neighborhood listed:

<u>COMMUNITY</u>	<u>NEIGHBORHOOD</u>	<u>NO. COMMITTEEMEN</u>
Claussen	Claussen	3
Coward	Coward	3
Effingham	Effingham	4
Florence	Florence	5
Friendfield	Friendfield	11

<u>COMMUNITY</u>	<u>NEIGHBORHOOD</u>	<u>NO. COMMITTEEMEN</u>
Glenwood	Glenwood	9
	Elim	8
Hannah	Manheim	3
	Hannah	3
	Salem	3
	Pee Dee	3
Johnsonville	Johnsonville	3
	Kingsburg	3
Lake City	McCutcheon	3
	Liberty	3
	Gaskins	3
Leo	Leo	3
Mars Bluff	Mars Bluff	4
Oak Grove	Oak Grove	3
Olanta	Bethel	3
Pamplico	Tabernacle	6
Prospect	Prospect	6
Sardis	Sardis	5
Scranton	Scranton	4
	High Hill	3
Timmons ville	Timmons ville	2
	Cartersville	2
	Center	2

OTHER AGENCIES

County Agricultural Committee:

The Florence County Agricultural Committee is composed of 53 outstanding rural men and women. This Committee acts in an advisory capacity to the County Farm and Home Agents in planning and carrying out the Program of Extension Work in Florence County.

This committee is called together from time to time during the year. At the December meeting, one man and one woman are selected to serve on the State Committee. Different committees such as marketing, 4-H Club, Soil Conservation, etc. are also selected at this meeting.

Listed below and on the following page are the members and addresses of the Florence County Agricultural Committee.

MEMBERS

ADDRESS

H. S. Anderson	Route 1, Timmons ville, S. C.
E. P. Ashby	Florence, S. C.
P. B. Anderson	Route 1, Effingham, S. C.
Mrs. Steve Anderson	Route 1, Timmons ville, S. C.
W. D. Boling	Pamplico, S. C.
Alex Brunson	Florence, S. C.
Dr. John Claussen	Florence, S. C.
Mrs. Levern DuRant	Leo, S. C.
F. S. Floyd	Route 2, Scranton, S. C.
Luther Gause	Route 1, Coward, S. C.
R. H. Godwin	Route 1, Coward, S. C.
Mrs. R. H. Godwin	Route 1, Coward, S. C.
Albert Cole	Florence, S. C.
Mrs. L. E. Haselden	Route 1, Coward, S. C.
Kelly Johnson	Route 2, Effingham, S. C.
Mrs. Ted Kelly	Route 3, Florence, S. C.
O. R. Koon	Route 3, Timmons ville, S. C.
Wade Langston	Route 1, Timmons ville, S. C.
Curtis Graham	Lake City, S. C.
Ezra Eaddy	Lake City, S. C.
B. I. Lawrence	Route 1, Timmons ville, S. C.
Mrs. B. I. Lawrence	Route 1, Timmons ville, S. C.
H. L. Lawhon	Route 1, Timmons ville, S. C.
J. McC Martin	Florence, S. C.
James Henry McElveen	Route 3, Timmons ville, S. C.
H. J. McKenzie	Route 1, Lake City, S. C.
W. H. Meng	Johnsonville, S. C.
J. E. Myers	Effingham, S. C.
E. T. Moore	Lake City, S. C.
Herbert Morris	Route 1, Timmons ville, S. C.
Mrs. A. D. Poston	Pamplico, S. C.
W. P. McLaughlin	Effingham, S. C.

MEMBERADDRESS

R. R. Wiggins	Route 1, Timmons ville, S. C.
Mrs. Ed Bowen	Route 1, Timmons ville, S. C.
Mrs. O. T. Proctor	Lake City, S. C.
Mrs. B. G. Willis	Florence, S. C.
W. A. Myers	Scranton, S. C.
Nelson L. Peach	Florence, S. C.
Guy Davidson	Route 1, Effingham, S. C.
F. H. Poston	Hyman, S. C.
Mrs. J. F. Poston	Pamplico, S. C.
J. Luther Poston	Route 1, Hyman, S. C.
W. E. Powell, Chairman	Route 2, Hyman, S. C.
J. R. Robinson	Florence, S. C.
Johnny Rogers	Route, Scranton, S. C.
Clarence Tedder	Route 1, Timmons ville, S. C.
Marion Todd	Leo, S. C.
T. F. Turner	Florence, S. C.
S. L. Walkup	Timmons ville, S. C.
F. E. Weaver, Sr.	Route 1, Hyman, S. C.
W. H. Worrell	Route 2, Effingham, S. C.
L. M. Belk	Florence, S. C.

EXECUTIVE, SUB COMMITTEE, AND STATE AGRICULTURAL COMMITTEEExecutive Committee:

W. E. Powell, Chairman	Hyman, S. C.
J. L. Poston	Route 1, Hyman, S. C.
Alex Brunson	Florence, S. C.
B. I. Lawrence	Route 1, Timmons ville, S. C.

Four-H Club Committee:

B. I. Lawrence, Chairman	Route 1, Timmons ville, S. C.
A. E. Creamer	Florence, S. C.
Clifford Hanna	Hyman, S. C.
Mrs. R. H. Godwin	Route 1, Coward, S. C.
Curtis Graham	Scranton, S. C.

Marketing Committee:

H. J. McKenzie, Chairman	Lake City, S. C.
Dewey Jones	Pamplico, S. C.
T. F. Turner	Florence, S. C.
Mrs. Joe Harrell	Route 1, Effingham, S. C.

Soil Conservation Committee:

F. E. Weaver, Chairman	Hyman, S. C.
Albert H. Cole	Florence, S. C.
A. E. Kunz	Florence, S. C.

Farm Organization:

J. L. Poston, Chairman	Hyman, S. C.
T. F. Turner	Florence, S. C.
Alex Brusson	Florence, S. C.

Livestock and Fertilizer Committee:

H. S. Anderson, Chairman	Route 1, Timmons ville, S. C.
R. H. Godwin	Route 1, Coward, S. C.
Herbert Morris	Route 1, Timmons ville, S. C.

Farm Credit Committee:

H. L. Benton, Chairman	Route 3, Timmons ville, S. C.
J. McC Martin	Florence, S. C.
L. M. Belk	Florence, S. C.
Godfrey Daniels	Johnsonville, S. C.

Nutrition Committee:

Mrs. Steve Anderson, Chairman	Route 1, Timmons ville, S. C.
Mrs. J. F. Poston	Pamplico, S. C.

Members State Agriculture Committee:

Florence County at their annual program planning committee meeting elected the members to serve on the State Agricultural Committee. This committee was set up for the purpose of giving the farm people a way of expressing their needs and opinions to the government.

The members who were selected to serve on this State Agricultural Committee are as follows:

W. E. Powell	Hyman, S. C.
Mrs. Steve Anderson	Route 1, Timmons ville, S. C.

AGRICULTURAL ECONOMICS

In 1948 the work in agriculture economics and farm management included outlook meetings, complete farm records, complete farm and home accounts, cooperating with Farm Credit Agencies, and Farm Planning Demonstrations.

The County Outlook Meeting was held in the County Court House at which time the agriculture committee met and discussed the position that agriculture was climbing to. Objectives to meet the outlook were: (1) Farmers to raise their own meats and vegetables (2) Farmers to get better producing hogs for cheaper meat (3) Get better producing cows to help replace some of our incoming milk from other states (4) To raise better quality tobacco (5) To cure sweet potatoes for greater profits (6) Try to raise the corn yield since we plant more corn than anything else. (7) To produce more grazing.

Cooperation With Farm Credit Agencies:

The County Agents cooperated with the Florence And Lake City Production Credit Association, The Seed Loan Office (now the Farmer's Home Administration) in their work of extending credit to Florence County farmers.

The County Agents have throughout the year advised farmers with reference to these sources of credit and aid, and have acted in an advisory capacity to the Boards of Directors and Administrative Officers.

Summary Loans Made by Production Credit Agencies

<u>Agency</u>	<u>No. Farmers</u>	<u>Amount</u>
Lake City Production Credit	199	\$117,807.40
Florence Production Credit	685	\$482,684.43
Farmer's Home Administration	575	\$138,785.00
TOTAL	1459	\$739,276.83

Florence Production Credit has served more farmers in this territory this year than any other county in the state with the exception of one.

A summary of the activities of the Production Credit Associations and the Farmer's Home Administration for the past fourteen years follows:

	Year	No. Farmers	Amount
Lake City Production Credit Ass'n.	1940	349	\$110,989.80
	1941	314	105,000.00
	1944	208	162,347.00
	1945	210	103,395.00
	1946	176	100,480.00
	1947	186	116,360.00
	1948	199	117,807.40
	Florence Production Credit Ass'n.	1935	537
1936		765	175,000.00
1938		831	212,000.00
1939		900	240,000.00
1940		700	230,000.00
1941		700	235,000.00
1942		693	285,000.00
1943		598	282,515.55
1944		567	304,000.00
1945		566	323,000.00
1946		542	366,318.75
1947		567	413,891.24
1948		685	482,684.43
Farmer's Home Administration	1935	1386	150,036.00
	1936	901	89,715.00
	1937	852	105,140.00
	1938	817	98,005.00
	1939	790	95,585.00
	1940	793	96,490.00
	1941	738	95,085.00
	1942	799	127,060.00
	1943	716	122,415.00
	1944	671	136,595.00
	1945	626	143,100.00
	1946	662	162,485.00
	1947	823	282,975.64
	1948	575	138,785.00

AGRICULTURAL ENGINEERING

Agricultural Engineering work during 1948 included Soil Conservation, farm buildings, rural electrification, farm machinery and the harvesting of lespedeza seed.

Soil Conservation

Soil conservation work done in Florence County consisted of working in cooperation with the Soil Conservation Service, and helping farmers with crop rotation and selection of suitable crops.

SUMMARY OF SOIL CONSERVATION WORK:

The following table gives a summary of the Soil Conservation work in Florence County during 1948.

NUMBER OF SOIL CONSERVATION DISTRICT COOPERATORS -----	258
PERENNIAL LESPEDEZA (meadow strips and field plantings) -----	64 acres
NUMBER OF NEW COOPERATORS -----	60
KUDZU (meadow strips and field plantings) -----	9 acres
PERMANENT PASTURES -----	183 acres
SUMMER AND WINTER ANNUAL COVER CROPS -----	300 acres
WOODLAND IMPROVEMENT -----	3800 acres
TERRACE MAINTENANCE -----	14 miles
PASTURE IMPROVEMENT -----	150 acres
FARM DRAINAGE -----	1050 acres
Wildlife Areas -----	7 acres
IMPROVED CROP ROTATION -----	3400 acres
CROP RESIDUE MANAGEMENT -----	3560 acres
CONTOUR FARMING -----	0 acres
FISH PONDS -----	2

The above summary as reported by the Soil Conservation Service

Farm Buildings

Farm Building Plans:

Farm building plans prepared by the Extension Agricultural Engineering Division were furnished to farmers for the construction of the following listed farm buildings:

Summary Farm Building Plans Furnished Farmers

<u>Building</u>	<u>Number</u>
Poultry Houses	31
Brooder Houses	22
Inexpensive Home-made Brooder	175
Hog Self-feeders	38
Hog Houses	75
Hog Water Troughs	16
Sweet Potato Curing Houses	8
<hr/>	
TOTALS	365

Care and Repair of Farm Buildings:

The Agents gave aid to farmers in repairing and remodeling farm buildings. Many farm buildings were made more useful.

Home-made Lime Spreaders:

Plans for building home-made lime spreaders were furnished to farmers throughout the county. Interest is readily increasing in building home-made lime spreaders.

FARM MACHINERY

Farmers were given advice in the care and use of farm machinery. With a labor shortage, farmers are using farm machinery more and more to carry on their farm operations.

The Agents assisted farmers in securing new farm machinery during 1948 when called on.

PEANUT HARVESTING

The average of peanuts in Florence County has continually increased for the past few years. There has been an increase in the number of peanut thrashers in the county.

COMBINE HARVESTING

The demand for combines is continually increasing as the acreage of small grain has increased.

HARVESTING, HANDLING AND GINNING COTTON

The Agents have cautioned farmers through the newspapers, radio and personal contact to see that cotton is picked clean and dry and delivered to the gin in the same condition.

SWEET POTATO CURING HOUSES

Since Florence is a tobacco producing county, we have found that our tobacco barns can be very satisfactorily used for storing sweet potatoes rather than going to the expense of erecting curing houses. All of our commercial growers have converted tobacco barns into curing houses in a very satisfactory manner. The amount of sweet potatoes stored both in tobacco barns and in banks has increased this year due to the low market and late harvesting.

RURAL ELECTRIFICATION

Information in connection with rural electrification was given farmers. Most of the communities in Florence County have electricity now or plan to have as soon as possible.

Below is the work done on this during 1948 and the farmers helped.

PEE DEE COOPERATION

A. and B. Projects 25 miles 100 consumers

SANTEE ELECTRIC COOPERATIVE

A. and B. Projects 54 miles 245 consumers

CAROLINA POWER AND LIGHT CO.

A. and B. Projects 438 miles 2,584 consumers

Other extensions have been approved and are to be constructed at a later date.

AGRONOMY

Agronomy work in 1948 consisted of demonstrations and educational work with cotton, corn, tobacco, wheat, oats, annual grazing crops, fertilizers, soil building crops, small grains, hay, forage crops, peanuts, and pastures.

Seed Certification Program:

We have worked closely with the S. C. Crop Improvement Association Committee by encouraging farmers, where conditions justified, to join the Crop Improvement Association.

To show the increased interest, see summary following:

OATS

Name	Community	Variety	Acres
W. D. Boling	Pamplico	Fulgrain	75
D. C. Kirby	Glenwood	Fulgrain	5
E. W. Nance	Florence	Fulgrain	10

WHEAT

Name	Community	Variety	Acres
W. D. Boling	Pamplico	Hardired	12

COTTON

Name	Community	Variety	Acres
R. M. Fraser	Florence	Cokers 100	20
E. E. Hall	Florence	Cokers 100	30
I. K. Poston	Hannah	Cokers 100	3.5

SOYBEANS

Name	Community	Variety	Acres
E. W. Nance	Florence	Yelando	3.5

HYBRID CORN

J. T. Lazar	Florence	N. C. 27	1
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COTTON

Five-Acre Cotton Improvement Demonstrations:

The Five-Acre cotton improvement demonstrations are responsible for the yield in the county. It seems that the men in the contest try all the new methods to try to make larger yields and their neighbors through observation see their practices and try them on neighboring farms.

Twenty one farmers participated in the Five-Acre cotton improvement contest in 1948. Thirteen of the records have been completed. Yields averaged slightly higher this year over last year which was due to favorable weather conditions and use of the new organic insecticides.

Below is the summary of the five-acre cotton improvement demonstrations for this year all of which are Coker 100.

NAME	YIELD		VALUE	COST	PROFIT
	LINT	SEED			
James C. Langston	4687	7280	\$1460.62	\$682.72	\$777.90
R. J. McElveen	4510	6930	1610.20	530.51	1079.60
James H. McElveen	4000	6400	1452.00	583.60	868.40
Herbert Morris	3750	6000	1361.25	850.50	510.75
Rupert Turner	3500	5459	1248.68	513.68	735.00
Byron Morris	3270	5080	1198.80	802.17	396.63
Ed Young	3750	5950	1387.87	721.00	666.87
John Wilson	3250	4510	1186.57	587.70	598.87
J. H. Holliday	3250	6050	1221.50	460.50	761.00
Woodrow McKay	3032	5668	1079.64	640.87	438.77
J. E. Joyner	3000	4200	1101.00	521.25	579.75
Sam Stokes	2530	4697	985.94	567.44	418.50
J. C. Prosser	2375	3700	828.75	377.50	451.25

Only 13 records arrived in time for the report.

Five-Acre Cotton Demonstration field of J. H. Holliday near Kingsburg.
This field gave an estimate yield of 2124 pounds of seed cotton per
acre.



CORN PRODUCTION

The Kiwanis Club of Florence sponsored the three-acre corn contest again this year. The aim of this contest has been to show that corn yields can be increased by proper fertilization, planting adapted varieties, cultivating shallow, top dressing with liberal amounts of nitrogen.

The results of using adopted varieties of corn and improved methods of production are noticeable over the entire county, and the average yield per acre for the county should be well above the census figure of 1945 which was 20.8 bushels per acre.

CORN PRODUCTION DEMONSTRATIONS

Summary of 3-Acre Corn Demonstrations

Name	Acres	Variety	* Per Acre Yield	Total Yield	Total Value	Total Cost Production	Profit	Cost Per Bushel
Ed Young	3	Young's 1 Ear	34.1	102.3	\$153.45	\$108.95	\$114.50	71¢
Dr. John Claussen	3	Latham's Double	82.3	246.9	370.35	175.50	194.85	71¢
Grover Vause	3	Home Grown	44.6	133.8	200.70	97.66	103.04	73¢
C. C. Cooper	3	N. C. 27	49.0	147.0	220.50	99.96	120.54	68¢
F. E. Weaver	3	N. C. 27	70.2	210.6	315.90	168.48	147.42	80¢
J. D. Poston	3	Home Grown Latham's Double	69.3	198.9	298.35	157.13	141.22	79¢
H. S. Anderson	3	Home Grown	49.3	138.9	208.35	113.90	94.45	82¢
H. L. Lawhon	3	Lathams Double	40.0	120.0	180.00	90.00	90.00	75¢
J. H. McElveen	3	Lathams Double	40.4	121.2	181.80	91.80	90.00	76¢
H. M. Hill	3	White Hybrid	65.9	196.8	295.20	157.44	137.76	80¢
Carlisle Smith	3	N. C. 27	49.9	147.7	221.55	125.55	96.00	85¢
Harry Truluck	3	Hastings Prolific	32.4	97.2	145.80	72.90	72.90	75¢
D. A. Wiggins	3	N. C. 27	64.1	192.3	288.45	150.00	138.45	78¢

* Lack of moisture during the critical growing period reduced yields in several of the contest plots.

This report is of December 1. Ten other demonstrators have not reported that will report.

Average Yield Per Acre - 53.2 bushels

THREE-ACRE CORN CONTEST DEMONSTRATION PLOT

Summary of Record on Contest Plot of Dr. John Claussen

Rent of land at \$10.00 per acre	\$30.00
Cost of seed	3.00
Cost of man labor - land preparation, fertilization & planting	16.00
Cost of mule labor- land preparation, fertilization & planting	3.00
Cost of man labor - cultivating and harvesting	47.00
Cost of mule labor - cultivating and harvesting	17.50
Cost of fertilizer and top dressing	54.00
TOTAL	\$175.50

Estimated number ears per bushel	93
Total number bushels on 3 acres	246.9
Total number bushels per acre	82.3
Value per bushels @ \$1.50	\$370.35
Cost per bushel to produce	\$ 0.71

Profit

Total value of crop at \$1.50 per bushel	\$370.35
Total cost production	175.50
Total profit	<u>\$194.85</u>
Profit per acre	\$ 64.95
Profit per bushel	\$0.78.9

HIGH NITROGEN DEMONSTRATION

Name	Acres	Row Width	Spacing	Fertilizer	Nitrogen	Weight 50 Ears	Variety	Estimated Yield	Increase Over Check
D. A. Wiggins	No. 1	4 ft.	10 in.	400 lb. 4-10-6	Cal-Nitro 500 lbs.	24 lbs.	Woods S-210	99.3	56.8
D. A. Wiggins	No. 2	4 ft.	18 in.	400 lb. 4-10-6	Cal-Nitro 300 lbs.	20 lbs.	Woods S-210	54.7	12.2
D. A. Wiggins	No. 3	5 ft.	24 in.	300 lb. 3-9-6	Cal-Nitro 200 lbs.	28 lbs.	Open Pollinated	42.5	Check

Results of the high nitrogen demonstration showed that yields of corn could be increased by using a liberal amount of nitrogen fertilizer. However, our observations showed that the nitrogen was used up about two weeks before full maturity of the corn in Acre Number 1. Lack of rain in the critical growing period probably reduced the yield to some extent.

* Acre Number 3 which we used for a check is not a hybrid variety; however, this mistake was not discovered until the corn was up to a stand.

High nitrogen demonstration on farm of D. A. Wiggins, Route 1,
Effingham. Corn in this acre was estimated to have yielded 99.1 bushels
per acre. This corn was growing on Norfolk Sandy Loam.



HYBRID CORN DEMONSTRATIONS

Demonstrator	Variety	Cost Per Acre	Yield Per Acre	Total Value	Net Profit
J. H. Moore	N. C. 27	\$36.40	61 bu.	\$76.25	\$39.85
Check	Native Seed	\$36.40	52 bu.	\$65.00	\$28.60
J. C. Hoover	Dixie 17	\$30.05	54 bu.	\$67.50	\$37.45
Check	Native Seed	\$30.05	48 bu.	\$60.00	\$29.95

21
These were the two main hybrid corn demonstrations but there were many other hybrids planted in the county. The Kiwanis Club put out four bushels of N. C. 27 with the club members and each of the boys had the same comment on the results. The hybrids are adaptable to everything except the weevils.

PASTURES

Pasture work for this year consisted of the liming, fertilizing and reseeding of old pastures and the establishing of new pastures.

Some of the pastures begun this year consisted of tall fescue, both alta and Ky. 31 seeded with ladino clover.

Farmers were advised to seed permanent pastures in Bermuda, Dallas grass, lespedeza, White Dutch clover and Ladino clover since these grasses and legumes have already proved successful.

Fred E. McLaughlin is one of the many farmers doing outstanding pasture improvement work. C. H. Felder seeded several acres of Ky. 31 fescue and Ladino clover. J. L. Godwin near Lake City limed, fertilized and reseeded an old pasture. Acreage of fescue and Ladino exceeds one hundred acres in the county and is being tried only on an experimental basis.

The farmers were advised about the following recommendations essential in establishing a successful pasture: Select fertile soil, a soil that would produce a good yield of cotton and corn. Follow a liberal fertilization plan; lime soil and treat with superphosphate. Plant pasture mixtures on a well prepared seed bed and use a cultipacker or some similar packer. Plant adapted grasses and legumes. Inoculate legumes with three or four times the recommended amount of inoculation. Practice controlled grazing and control or destroy weeds when possible.

PERMANENT PASTURE DEMONSTRATION RECORD

Period Covered by Record - January, 1948 through November 1948

Demonstrator - H. S. Anderson, Route 1, Timmonsville, S. C.

Pasture consisted of approximately 20 acres

Grazed by 16 cows, 20 hogs and 4 mules

Pasture established on Norfolk Sandy Loam in 1945

Fertilizer treatments for 1945, 1946 and 1947 were as follows except for 1 ton of lime per acre in 1945: 200 lbs. per acre of a mixture of 200 lbs. each of nitrate of soda, cotton seed meal and muriate of potash.

Fertilizer and Lime This Year - 1948

<u>Mixture</u>	<u>Amount Per Acre</u>	<u>Date Applied</u>
N. Soda, Mur. Potash. Cot. S. Meal (3 applications)	600 lbs.	Feb. June, Sept.
Superphosphate	1,000 lbs.	February
Lime - Agri. & Dolomitic	1 ton	February

Seeding in 1945 - Dallas Grass, Carpet grass, clover

Seeding this year - White Dutch clover and Kobe lespedeza

Labor cost per hour - 40¢ man; 20¢ mule

Demonstrator estimates grazing to be worth \$100.00 per month

Pasture consisted of a dense sod with average growth

Permanent Pasture Demonstration Record - Continued

Total Cost - Materials and Labor

Material	Total Amount	Cost
Lime @ \$6.20 per ton	20 Tons	\$124.00
Fertilizer Mixture @ \$45 per ton	6 Tons	270.00
Superphosphate @ \$20 per ton	10 Tons	200.00
White Dutch clover @ 65¢ per lb.	60 lbs. & Inoculation	40.50
Kobe Lespedeza @ 16¢ per lb.	400 lbs.	64.00
Land Rent @ \$15 per acre	20 Acres	300.00
Labor	Man - 40 hours Mule - 20 hours	18.00
TOTAL		\$1,016.50

Total Value Grazing	\$1100.00
Less Total Cost	<u>1016.50</u>
Profit	\$ 83.50

Cost per Acre - \$50.32

SMALL GRAINS

Small grain yields showed an increase where fertilizer was applied at planting time. Farmers were advised to fertilize small grains with at least 400 pounds of a complete fertilizer at planting time and to topdress grain in the spring with 38 pounds of available nitrogen per acre.

OAT PRODUCTION DEMONSTRATIONS

Name	Acres	Fertilizer	Variety	Yield
Ed Young	16	200 lbs. N. Soda	Victorgrain	800 bu.
		400 lbs. 4-10-6		
E. W. Nance	10	500 lbs. 4-10-6	Fulgrain	450 bu.
		100 lbs. N. Soda		

WHEAT PRODUCTION DEMONSTRATION

Name	Acres	Fertilizer	Variety	Yield
S. C. Ind. School	20	400 lbs. 4-10-6	Harde's Red	800
		100 lbs. N. Soda		
		100 lbs. Potash		

Lespedeza has just about replaced cowpeas as the leading hay crop. However, lespedeza must be out at the proper stage and weather conditions must be right for the production of a good quality hay. Quality of lespedeza hay is being improved by topdressing lespedeza with potash and 0-12-12 fertilizer after grain has been harvested.

SUMMARY OF LESPEDEZA HAY DEMONSTRATIONS

Name	Community	Acres	Cuttings	Yield Tons Per A.	Total Yield
Ed Young	Ebenezer	16	2	3/4	24
Herbert Morris	Glenwood	20	1	1	20
Fred McLaughlin	Tans Bay	10	1	1	10
S. C. Ind. School	Florence	40	1	1	40
TOTALS		86	5	3 3/4	94

Records show that Kobe lespedeza was seeded in the above demonstrations at the rate of 20 to 30 pounds per acre. Grain planted on this same land was fertilized at the average rate of 400 pounds of 4-10-6 fertilizer per acre and topdressed at an average rate of 150 pounds of nitrate of soda per acre. Cost of baling averaged fifteen cents per bale.

ANNUAL GRAZING CROPS

Florence County Farmers have increased acreages of annual grazing in 1947 and 1948. They are beginning to realize that planting grazing for livestock is one of the best methods of efficient use of labor. Livestock production is being kept at a higher peak by having grazing available throughout the winter months. Below is a summary of these outstanding grazing demonstrations.

SUMMARY OF ANNUAL GRAZING DEMONSTRATIONS

NAME	ACRES	NUMBER ANIMALS		ANIMAL DAYS		COST	VALUE	PROFIT
		GRAZED	DAYS	GRAZED				
A.W. McLaughlin	30	50	89	4450	\$ 903.10	\$ 2990.40	\$1987.30	
Ed Young	50	50	176	8800	2260.00	4840.00	2580.00	
F.E. McLaughlin	40	40	210	8400	2056.00	4010.00	1954.00	
TOTAL	120	140	475	21650	\$5219.10	\$11,840.00	\$6521.30	

Average Cost Per Acre - \$ 43.49

Average Number Days Grazed Per Animal - 154.6

Average Cost Per Animal - \$ 37.27

Profit Per Animal Grazed - \$ 46.58

Oats, rye, barley and vetch are the crops usually planted for winter grazing.

J. W. McLendon, County Agent, examines field of corn and beans on farm of H. S. Anderson in the Peniel community. Mr. Anderson hogged off this field of corn and beans with very good results



SOYBEAN AND CORN DEMONSTRATIONS

Soybeans and corn planted in combination have always proved popular for hogging down. This is one of the cheapest methods of fattening cattle and hogs for marketing or home use. The job of harvesting the crops are eliminated and valuable fertilizer is returned to the land. The following is a summary of corn and beans demonstrations.

Name	Acres	No. Animals Grazed		Tot. Days Grazed	Cost
		Cows	Hogs		
J. L. Godwin	8	3	20	60	\$160.00
H. S. Anderson	8	16	40	90	136.00
Hubert Witherspoon	2	3	17	60	38.00
TOTALS	18	22	77	210	\$310.00

Average cost per acre - \$17.22

SOYBEAN PRODUCTION DEMONSTRATION

Name	Acres	(Bu.) Yield	Total Yield
S. C. Ind. School	20	35	700 bu.

The summary showed that the beans were planted in $3\frac{1}{2}$ foot rows and planted 10 inches in the drill. Fertilizer was applied at the rate of 300 pounds of 4-10-6 per acre.

LEGUMES FOR SOIL BUILDING

Soil Building Crops:

We have put much stress on soil building crops this year on the radio, in the newspaper, at meetings and through personal contacts. Our efforts were to show men a field that had been built up by soil building crops.

Permanent Pastures:

A few permanent pastures were reseeded and fertilized. The main suggestion this year was for the farmers to lime and fertilize the land. After the land is prepared, it will be easier to establish pastures. Up to November 15, 1,783.8 tons of lime, 1,272.80 tons of superphosphate and 138.25 tons of 20 percent superphosphate was ordered through the AAA much of which has been applied on pastures.

This photo shows an outstanding field of corn and soybeans which follows a crop of rye grass. In addition to corn and beans, sweet potatoes, watermelons, cotton and a home garden gave good results following rye grass turned under green during spring.



Grain sorghum on the farm of Rembert H. Godwin, Route 1, Coward.
This field consisted of eight acres which produced three hundred
bushels of grain for an average of thirty seven and one half
bushels per acre.



PEANUT DEMONSTRATION

S. W. Swink planted twenty acres of peanuts and made a yield of 24 tons. He planted these peanuts in 42 inch rows and 10 inches in the drill. Fertilizer was applied at the rate of 600 pounds 3-9-9 per acre. Land plaster was applied at the rate of 800 pounds per acre. Peanuts were not marketed at the date information was gotten together; however, they were valued at \$190.00 per ton.

SEED SELECTION

Corn:

Farmers were advised to be careful in their selection of seed corn and to plant only those varieties adapted to this particular section. Field selection of open pollinated varieties was recommended as the best method in selecting seed corn. They were advised against planting hybrids for the second year and to use only those varieties recommended by the Experiment Stations or other reliable seed breeders. Open pollinated varieties when fertilized, planted and cultivated properly proved just as successful as hybrids and had less insect damage.

Tobacco:

Many farmers sought information from the county agents and tobacco specialists as to the best varieties to plant on their farms. H. A. McGee and J. M. Lewis, Tobacco Specialists, were especially cooperative in diagnosing and advising solutions to the tobacco growers problems. The green peach aphids showed up in tobacco fields this year in alarming numbers. However, with the use of D.D.T., T.E.P.P. and favorable weather conditions the damage to tobacco was light.

Oats:

The use of certified seed for planting purposes has been stressed to farmers growing oats. They have been encouraged to take advantage of the seed certification program being carried on at the present time. Farmers were urged to treat oats with ceresan or similar material before planting. The importance of fertilizing oats at planting has been recommended. Farmers producing clean, disease free oats had little trouble in getting top market prices for them.

Cotton:

Cotton acreages increased to a small extent this year and the last reports show that approximately 30,000 bales have been ginned. Very favorable weather conditions prevailed for the cotton crop and the new organic poisons helped to increase the yields where used. Practically all of the cotton planted this year was of the one variety type. Applications are already being taken for the Five-Acre cotton improvement demonstrations next year. Interest is pointing in the direction of better cotton, higher yields per acre, and better staple.

Sweet Potatoes:

Sweet potato production varied with the sections and weather conditions which prevailed. Growers were again advised to secure sound, disease free potatoes for bedding as a source of plants. All reports indicate that growers treated potatoes in a borax solution before bedding. Sweet potato growers were kept up to date through farm visits, sweet potato letters, newspaper articles and radio broadcasts.

TOBACCO PRODUCTION

Tobacco acreages were cut 27 percent during the past year and proved unpopular with many tobacco growers, however, the majority of growers realized that this was necessary to keep the income on tobacco at a profitable level. Reduction in tobacco allotments caused farmers to use better varieties and encouraged them to increase per acre yields. County agents and tobacco specialists donated much of their time to this work.

Selection of Land for Plant Beds:

On many farms we assisted in locating proper land for tobacco beds. This land usually consisted of a well drained sandy loam where signs of root knot could not be detected, however, this depended on past history of land as furnished by the farmer. Under no circumstances were beds placed near barns or on garden sites or land known to be infested with root knot. In many instances root knot and other diseases were taken from the plant beds to the fields causing severe infestations and damage to the tobacco crop.

Selection of Seed:

Farmers were advised to use recommended varieties adaptable to their particular condition. Where they were uncertain, we assisted or referred them to the tobacco specialists.

Weeds on Tobacco Beds:

Weeds on tobacco beds continue to be of a considerable nuisance to farmers. Various treatment for weed control has been practiced; however, chemical control has proved rather popular. Some farmers still remove weeds by hand which necessitates long hours of tedious work and increases the expense of growing tobacco. Weeds have been controlled where uramon and cyanamid was used. This information has been furnished in detail to those growers requesting it.

Blue Mold Control:

Fermate was used to control blue mold on tobacco beds with good results except in a few cases where farmers blamed fermate for other disease and insect damage which showed up after the plants were set in the field. Fermate will probably be the chief material used in blue mold control during the coming year.

ANIMAL HUSBANDRY

Animal Husbandry Extension work in Florence County in 1948 consisted of educational work with swine, beef cattle, dairy cattle and dual purpose cattle.

SWINE:

The program of demonstration work with hogs included placing of purebred boars, sows, hog feeding, swine herd management, and marketing hogs.

Purebred Sires:

Fourteen purebred sires were placed with farmers during 1948. A record of these placings is given below.

RECORD OF PUREBRED BOARS PLACED IN 1948

NAME	NO.	BREED	COST
Eldred Poston	1	Duroc	\$60.00
E. C. Creel	1	Duroc	35.00
LeRoy Wiggins	1	Duroc	25.00
Jack Kirby	1	Duroc	25.00
Billy Young	1	Duroc	25.00
Willard Worrell	1	Duroc	35.00
Rupert Turner	1	Duroc	25.00
Grover Vause	1	Duroc	25.00
T. A. Adams	1	Duroc	25.00
James Jeffords	1	Duroc	25.00
B. L. Watford	1	Duroc	30.00
Oliver Charles	1	Duroc	30.00
Ted Kelly	1	Poland China	25.00
Herbert Morris	1	Hampshire	75.00
TOTAL	14		\$465.00

Following is given a record of the placings of purebred boars by years in the county since 1939.

SUMMARY PLACINGS OF PUREBRED BOARS 1939 - 1948

<u>YEAR</u>	<u>NUMBER PLACED</u>
1939	14
1940	5
1941	13
1942	17
1943	8
1944	7
1945	4
1946	8
1947	9
1948	14
TOTAL PLACED IN 10 YEARS	99

Purebred Gilts Placed:

Fifty one purebred gilts were placed with 4-H club members and farmers. A record of these placings is given below.

RECORD OF PUREBRED GILTS PLACED IN 1948

<u>NAME</u>	<u>NUMBER</u>	<u>BREED</u>	<u>COST</u>
LeRoy Wiggins	1	Duroc	\$150.00
C. D. Smith	5	Duroc	715.00
Grover B. Vause	1	Duroc	145.00
Jack Kirby	1	Duroc	110.00
Charles Willis	2	Duroc	45.00
Roy Witherspoon	1	Duroc	25.00
M. J. Hicks	1	Duroc	35.00
W. H. Jeffords	2	Duroc	50.00
Hansel Turner	1	Duroc	25.00
Clarence Turner	1	Duroc	25.00
L. H. Edgeworth	2	Duroc	380.00
LeGette Huggins	1	Duroc	25.00
Ellison Joyner	1	Berkshire	75.00
Jack Shelly	5	Berkshire	250.00
R. Z. Dukes	2	Poland China	50.00
Ed Blackwell	3	Poland China	125.00
T. F. Turner	5	Hampshire	250.00
Fred Jones	1	Hampshire	80.00
Herbert Morris	4	Hampshire	520.00
Franklin McAlister	1	Hampshire	30.00
Freddie Hewitt	1	Hampshire	130.00
Robert Harllee	1	Hampshire	145.00
J. R. Schipman	7	Hampshire	1120.00
William Wiggins	1	Hampshire	40.00

Following is given a record of the placings of purebred gilts in Florence County by years since 1939.

SUMMARY PLACINGS OF PUREBRED GILTS 1939 - 1948

<u>YEAR</u>	<u>NUMBER PLACED</u>
1939	19
1940	13
1941	26
1942	19
1943	16
1944	9
1945	9
1946	32
1947	21
1948	51
<u>TOTAL PLACED IN 10 YEARS</u>	<u>215</u>

DAIRYING

Winter Grazing:

The campaign put on last year to get farmers to plant winter grazing has been very successful and proved to be one of the best means of reducing the use of commercial feeds, therefore providing more economical milk production. Hessian fly damage was extensive over the entire county; however, when possible the crop was grazed down and a liberal application of nitrate of soda was made with fair results. Rye grass and crimson clover withstood insect damages better than regular mixtures of small grains.

Permanent Pastures:

Pasture demonstration is a continuation of last years program with two new demonstrations being set up at the present time.

The Family Cow:

High beef prices are responsible for many family milk cows being put on the market. Some farmers claim that feed costs and labor shortages have forced them to sell their milk cows. Farmers are being encouraged to put scrub animals on the market and to secure good milk cows to furnish milk for their families since many farmers are producing feed and have labor available for keeping a cow.

ENTOMOLOGY AND PLANT PATHOLOGY

The Entomology and Plant Pathology program of work carried on in 1948 consisted of surveys and recommendations for insect and disease control on various crops and beekeeping.

CROP DISEASES

Rust and Smut of Small Grains:

There were some reports of rust and smut on grain during 1948; however, upon investigation it was found that non-resistant varieties were planted and in addition to this the seed were not treated prior to planting. Extension workers advised the use of clean, disease resistant, and treated seed for planting purposes. Where these practices were followed very small damage was reported.

Root Knot of Tobacco:

Root knot took its toll of tobacco as usual and in a few cases very little could be done to remedy the situation due to the small acreage of farm land, preventing proper rotations and other preventive measures. Where possible rotations were recommended as a protective measure, such as (1) Cotton, peanuts, tobacco (2) Cotton, small grain, tobacco (3) Small grain, ragweeds, tobacco. D.D. shows promise of aiding in control of root knot and several farmers are planning to try this new material on a small acreage. Farmers are discouraged from interplanting cowpeas in tobacco.

Granville Wilt:

Granville wilt was another problem disease encountered by the tobacco grower; however, this wilt is one that gave a great deal of trouble last year. Oxford 26 showed the most resistance to Granville wilt and was recommended to farmers whose land was known to be infested. Fusarium wilt was also identified on the farm of J. G. Brown by J. M. Lewis, Tobacco Specialist. It is probable that this Fusarium wilt was brought to this farm with sweet potatoes.

Meadow Nematodes:

Meadow nematode can be identified in fields throughout the county. Reduced yields were reported from several farms due to a heavy infestation. proper rotations and elimination of host plants were recommended to the growers. A good growth of ragweeds on the land prior to planting tobacco has proved to be successful.

Sore Shin and Southern Stem Rot:

Tobacco grown on land infested with these diseases produced a very poor crop. Farmers were advised to plant resistant varieties when possible. Other than growing resistant varieties, very little is known about these diseases.

Ascochyta:

Ascochyta showed up in several cotton fields over the county. Some cotton yields were reduced greatly as the cotton opened prematurely. Some of the farmers blamed B.H.C. for this damage; however, diseased cotton was usually surrounded by some normal stalks. Cotton plants affected with this disease appeared to have been scalded. Examination of stems and root by cutting showed no signs of wilt. However, wilt was reported from various sections. Agents urged disposal of infested seed and recommended use of wilt resistant varieties.

Rosette on Pecan Trees:

Agents suggested the use of Zinc Sulfate applied as a spray. Three applications proved successful in cleaning up this disease. Spray solution consisted of one fourth pound of zinc sulfate to three gallons of water.

Seed Treatments:

Recommendations were given to treat all seeds regardless of kind before planting. Practically all cotton, small grains and sweet potatoes were treated prior to planting. Various machines were used including home-made devices and commercial seed cleaning machines.

INSECTS

Demonstrations projects were carried out over the county on controlling various insects. The following methods of control were used with the insects listed below.

- (1) Cutworms - Poison bait consisting of 1 part bran to 1 1/3 parts paris green. Soil saturated with a 5 percent solution of water wetttable D.D.T. prevented severe cutworm damage.
- (2) Flea Beetle - Bordeaux mixture
- (3) Blister Beetle - 10 percent D.D.T. dust
- (4) Bean Beetle - Rotenone Dust
- (5) Harlequin Bug - Sabadilla
- (6) Tobacco Worm - Arsenic, Paris Green
- (7) Green Peach Aphid - Tetra Ethyl Pyrophosphate
- (8) Cattle Lice and Grubs - Pyro lice powder, Open formula according to Extension Service Requirements

County Agent assisted farmers in securing these materials when necessary. Patronized local dealers when possible.

Peach Insect Control:

Farmers with home orchards were advised to treat peach trees for borers with propylene Dichloride Emulsion and to apply dormant spray of liquid lime sulfur for San Jose scale. Summer sprays were recommended according to the summer spray calendar by Roy Farree, Extension Horticulturist. Method demonstration for pruning fruit trees were given at two home orchards.

Army Worms:

The army worm attacked fields of soybeans, sorghum, pearl millet, and sweet sudan grass in various sections of the county. Permanent pastures were damaged severely in some cases. Poisoned bait gave some control. Ten percent D.D.T. dust was used with fair results.

Grain Aphids:

Aphids appeared in winter grazing during October and November; however, they were less prevalent in rye grass mixtures and especially where liberal amounts of fertilizer was used. Some fields have been observed as being severely damaged.

Recommendations were as follows:

1. Plant winter grazing in early September
2. Apply at least 600 to 800 pounds of complete fertilizer per acre
3. Lime soil properly and treat with superphosphate.
T.E.P.P. has been suggested as a possible method of control for aphids.

Green Peach Aphids:

The green peach aphid proved to be a serious pest in tobacco during May and June. H. A. McGee and J. M. Lewis, Tobacco Specialists, did extensive work to bring this pest under control. Mulsifos was used in an effort to reduce aphids and proved very successful where applied properly. Farmers were advised and assisted in rigging up special spray attachments for applying the solution. Mulsifos was applied at the rate of one pint per acre diluted with fifty gallons of water. H. L. Turner was one of the first farmers to use mulsifos and observations showed that good control was received where the spray came in contact with the aphids.

County Wide Rat Control Campaign

The result of the county wide rat control campaign is an example of what can be accomplished through the cooperation of Extension Agents, County and community committeemen, Vocational Agricultural teachers and Health agencies, organizing, planning and advertising.

January 28th was the date set for the mixing and distributing of fresh red squill bait. Thirty nine hundred pounds of bait was distributed throughout the county to 1300 farmers.

In addition, the city of Florence through their Health Department made up their own bait and distributed it; so did Lake City, Johnsonville and Pamplico by their Vocational Agriculture teachers.

FORESTRY

Forestry Extension Work in 1948 included demonstrations in selective cutting, thinning, timber estimating, planting and 4-H club discussions on fire prevention and conservation.

Forestry Management:

The county agents cooperated closely with the South Carolina Forestry Service and assisted with forest management work when necessary. More interest is noted among land owners in conservation of forest products by using selective cuttings of both timber and pulpwood, following fire prevention methods such as building firebreaks. They are also replacing seedlings where land is available, realizing that trees properly grown and cared for will return a profit in a few years.

During the year, examinations of woodland tracts in the county were made by personnel of the S. C. Forest Service. Following the examinations, reports were furnished the land owners, including recommendations as to management practices which should be carried out in order to attain maximum growth and income from forest products or areas. Other assistance was given several landowners concerning preservation of timber, insect and disease control, tree plantings and marketing of forest products.

On the following page is a summary of Farm Forestry work done in Florence County during 1948.

Farmer	Acres Examined	Acres Marked	Bd. Ft. Marked	Cords Marked
D. W. Alderman (2)	233	100	147,368	
T. A. Brunson	810	10	76,036	
D. L. Brown	137			
Mrs. L. E. Coleman	60			
W. P. DuBose, Jr.	175			
Julian Dusenbury	76			
Miss Julia Ervin	150	7		18
D. D. Evans	70			
Ransom Floyd	150			
Mrs. E. L. Foster	300			
Mrs. J. P. Gregg	10	10	60,162	
Fred Jones	50			
Mrs. K. P. Huggins	60			
George Hyman	100			
Miss Mary Hyman	50			
Mack Kirby	30			
B. I. Lawrence	30			
S. J. Lee	30			
David McDonald	60			
Mrs. L. B. O'Ferrell (2)	80	10	13,084	
Fred Powers	40			
Mrs. J. B. Rice	100			
Mrs. J. L. Richardson	5	5	22,939	
Eugene Windham	20	20	79,511	
Hubert C. Witherspoon	50			
TOTAL	2,876	162	399,100	18

PINE SEEDLING SUMMARY

Year	Landowners	Seedlings Ordered & Planted	
1945	15	36,450	36,450
1946	1	1,000	1,000
1947	6	20,500	20,500
1948	35	655,000	

Forestry school and field meetings were conducted by C. W. Hall, Extension Forester.

Four school meetings were held and attended by 120. One field meeting was attended by 45.

Arbor Day was observed and a cork oak seedling was planted on the lawn at the Agricultural Building and is making noticeable growth at the present time.

FOUR-H CLUB WORK

Boys 4-H club work was conducted in twenty-two communities in Florence County in 1948 with an enrollment of 526 boys. These clubs are in charge of a local leader and regular monthly meetings were held with each club.

SUMMARY OF ENROLLMENT

<u>NAME OF CLUB</u>	<u>NUMBER MEMBERS</u>
Timmons ville, Sr.	60
Peniel	14
Evergreen	22
Mars Bluff	20
Friendfield	22
Coward	30
Lake City	33
Miscellaneous	9
McCutcheon	12
Tans Bay	36
High Hill	21
Vox	17
Gibbs	12
Oak Grove	22
Hannah	48
Johnsonville	50
Prospect	8
Leo	17
Timmons ville, Jr.	20
Glenwood	21
Elim	10
Scranton	22
TOTAL - 22	526

SUMMARY OF 4-H CLUB ENROLLMENT 1938 - 1948

<u>YEAR</u>	<u>ENROLLMENT</u>
1938	149
1939	142
1940	204
1941	170
1942	133
1943	169
1944	173
1945	180
1946	194
1947	375
1948	526

2415

4-H DAIRY CALF CLUB

This year, seven boys bought nine dairy calves for projects. Six of these members started off by showing their calves in the district 4-H Dairy Calf Show, during the S. C. Livestock Show.

The following is a list of the boys and their premiums.

<u>Name</u>	<u>Number Calves</u>	<u>Breed</u>	<u>Premium</u>
Billy Witherspoon	1	Jersey	\$ 7.00
Marion Langston	1	"	7.00
Marion Langston	1	"	5.00
Graham Nance	1	Ayrshire	5.00
Allen Joyner	1	Jersey	5.00
Keith Matthews	1	Short Horn	5.00
George McLeod	1	Jersey	5.00
<u>TOTAL</u>	<u>7</u>	<u>-</u>	<u>\$ 39.00</u>

Fred McLaughlin acquired a Jersey Calf too late to enter the show. Billy Witherspoon made enough extra money to buy another calf which he entered along with his first in the District Show in Sumter. In this show at Sumter, Billy took a first and a second premium for his calves and won first place for the best fitted calf. Bill's total winnings in Sumter were \$26.50.

Father and Son Cooperation proves successful in promoting 4-H club work on the farm of Hubert Witherspoon in the Peniel Community. Billy won prizes totaling \$26.50 with these two calves at the District 4-H club Dairy calf show in Sumter during November. In addition to his calf club work he has projects in corn, hogs and poultry.



Four-H Dairy Judging team consisting of Preston Gee, Herbert Anderson, Jr.,
A. C. Odom, Steve Anderson, Jr. and Ed Young reading from left to right.
A. C. Odom and Frank Fleming coached the team and Ed Young cooperated
by furnishing dairy animals for practice. The team placed second in
the District Dairy Judging meet.



4-H BEEF HERDS

We feel that the 4-H Calf Club is more important, as there is a greater shortage of milk and a greater majority of our farms are small, but where pastures and conditions warrant, we are making an effort to establish beef herds.

Dewey Ervin Morris of the Glenwood Section is establishing a small beef herd. In 1945, his brother, Herbert Morris, secured two heifers for him. He has the use of his brother's fine Angus bull. Last year, he grew out a steer that graded choice and sold for \$212.61 besides his premium of \$12.65.

This year Dewey went a little farther and fed out two steers. They both graded choice, giving him \$26.00 premium and sold for \$570.94. At the present time, Dewey has two steers on feed for next year's Fat Stock Show and Sale.

Not only is Dewey getting money for his steers, but a better knowledge of developing pasture and annual grazing and handling cattle.

Along the same line of 4-H Beef work, comes Jack Kirby; who is in partnership with his father, D. C. Kirby and brother, Darrel Kirby, another 4-H Member. This beef cattle herd was started from Jack and Darrel feeding out steers. In 1946, they started with one bull and three cows and now have ten cows and heifers. Last year, Jack fed out three of these home grown steers for the Show. His steers brought a premium of \$18.00 and sold for \$649.43.

Jack has since sold four steers to freezer locker owners for beef, one for breeding purposes and now has two steers on feed for next year's Fat Stock Show.

The pictures below were taken of the last steers that Jack had to buy before feeding out the ones he raised on the farm.

Four-H Beef Calf Club Work:

Anyone visiting the Fat Stock Show and Sale could not help but notice the improvement. Florence County 4-H members did their part by showing 38 steers which are recorded below along with premiums won.

SUMMARY OF BOYS FEEDING OUT AND SHOWING THEIR CALVES

Name	No.	Total Cost	Total Value	Profit	Premium
C. R. Tedder	1	\$110.00	\$160.87	\$50.87	\$5.00
Fred McLaughlin, Jr.	9	1926.00	2605.78	679.78	59.00
Lurie Alexander, Jr.	1	237.00	265.98	28.98	5.00
Mack B. Alexander	1	210.00	237.18	27.18	5.00
James Alexander	1	181.50	230.26	48.76	5.00
Kenneth Cook	1	162.25	174.80	12.55	5.00
William Wiggins	2	320.50	409.04	88.54	10.00
Harold Camlin	1	192.25	224.81	32.56	5.00
Cecil Camlin, Jr.	1	204.25	240.12	35.87	5.00
Mike Vause	2	394.00	477.91	83.91	13.00
Roosevelt Tedder	2	386.40	462.07	75.67	10.00
Herbert Anderson, Jr.	2	244.00	252.00	8.00	10.00
Allen Joyner	2	412.50	499.50	87.00	5.00
Hicks Harwell	1	177.00	219.22	42.22	5.00
Jack Kirby	5	714.26	1098.86	384.60	28.00
Nancy Kirby	1	192.00	216.00	24.00	5.00
Dewey Morris	2	468.00	570.94	102.94	16.00
Graham Nance	3	207.00	252.11	45.11	
Total	38	\$6738.91	\$8597.45	\$1858.54	\$196.00
Average		\$177.34	\$226.25	\$48.91	\$5.16

HOG FEEDING DEMONSTRATIONS FOR S. C. FAT STOCK SHOW

Name	No.	Days On Feed	Gain In Wt.	Total Cost	Total Value	Profit
W. S. Gardiner	2	91	234	\$76.42	\$104.97	\$28.55
Harrison Hobbs	2	78	190	52.18	78.40	26.22
Harold Godwin	4	83	407	123.11	187.51	64.40
Allan Joyner	5	78	526	158.00	218.05	60.05
Grover Vause	6	43	231	117.10	150.59	33.49
Frank Lee	6	60	520	192.20	273.80	81.60
Billy Godwin	1	83	116	30.80	56.04	25.24
Dewey E. Morris	4	74	408	126.00	194.82	68.82
Jack Kirby	20	92	2600	631.54	1035.59	404.05
H. J. McKenzie	10	65	1050	310.35	481.85	171.50
Roosevelt Tedder	10	74	1230	281.70	441.35	159.65
Jimmy D. Graham	19	91	2530	492.10	702.24	210.14
TOTALS	89	912	10042	\$2,591.50	\$3,925.21	\$1,333.71

Average gain per day - 1.43 lbs.
 Average profit per day - \$0.19
 Average profit per hog - \$14.98

THE 4-H 100 FAT BARROW SHOW AND SALE

This contest was put on for the purpose of teaching the proper methods of feeding out hogs in order to have them ready for the market when prices were highest.

The show and sale was held on September 8, 1948 and only nine of the projects begun were completed. Forty-two hogs were fed out and showed a profit of \$22.94 each including premiums which amounted to \$47.60.

SUMMARY OF RECORDS IN 100 FAT BARROW CONTEST

Name	No.	Orig. Weight	Tot. Cost	Days On Feed	Sale Weight	Total Returns	Premium	Net Profit
N. L. Harllee Robert Harllee	7	420	\$220.50	115	1225	\$344.26	\$7.10	\$130.80
Clarence Turner Hansel Turner	4	340	172.50	97	805	172.50	3.80	59.02
Jim Kirven	6	480	311.50	130	1440	468.72	7.80	157.22
Donald Hancock	3	240	117.00	99	535	156.10	3.60	39.10
Charles Willis	9	630	280.00	115	1670	487.96	10.50	207.96
Charles Edgeworth	2	130	52.00	135	340	98.85	2.30	46.55
Howard Purvis	1	50	35.50	130	200	58.80	1.30	23.30
Ray McAlister	2	150	71.00	115	260	118.85	2.00	47.85
Waterman Anderson	8	480	225.00	129	1605	468.72	9.20	243.72
TOTALS	42	2920	\$1,485.00		8080	\$2,374.76	\$47.60	\$955.52

56

PIG CLUB FATTENING CLASS

The purpose of the 4-H pig club fattening class was to teach boys the proper feeding practices to follow in order to produce top hogs in the minimum number of days. Twenty seven boys participated in this project and grew out hogs for the local markets and livestock shows and sales. A summary of those projects ~~are~~^{is} listed as follows:

Name of Member	Number Animals	Days Fed	Gain In Wt.	Total Value	Total Cost	Profit
Edward Turner	8	135	1153	\$421.65	\$202.50	\$219.15
Billy Matthews	1	140	181	53.10	41.50	11.60
Harry Matthews	2	117	310	92.00	64.00	28.00
Donald Eaddy	2	121	368	78.20	42.75	35.45
Dewey E. Morris	10	102	1211	479.85	298.00	181.85
Lavon Godwin	14	97	1720	641.00	396.10	244.90
William Wiggins	9	90	1183	438.73	281.00	157.73
LeRoy Wiggins	7	90	864	369.52	243.50	126.02
Bobby Stevens	8	67	738	420.80	206.50	214.30
Allan Joyner	14	87	1830	734.00	324.80	409.20
Webber Floyd	6	88	642	268.20	145.00	123.20
Jack Godwin	16	92	2148	837.40	396.85	440.55
Harry Coker	2	107	220	87.50	42.00	45.50
James Alexander	9	90	1160	467.75	210.20	257.55
Byron Morris, Jr.	9	96	1200	440.00	221.00	219.00

57

Name of Member	Number Animals	Days Fed	Gain In Wt.	Total Value	Total Cost	Profit
Mike Vause	7	92	710	\$321.75	\$160.50	\$161.25
Roosevelt Tedder	10	104	972	460.40	318.00	142.40
Jack Kirby	14	96	1810	756.00	280.50	475.50
Fred McLaughlin, Jr.	8	92	1012	432.00	207.30	224.70
Harrison Hobbs	2	78	190	78.40	52.18	26.22
Harold Godwin	4	83	407	187.51	123.11	64.40
Allan Joyner	5	78	526	218.05	158.00	60.05
Mike Vause	6	43	231	150.59	117.10	33.49
Billy Godwin	1	83	116	56.04	30.80	25.24
Dewey E. Morris	4	74	408	194.82	126.00	68.82
Roosevelt Tedder	10	74	1230	441.35	281.70	159.65
Jimmy D. Graham	19	91	2530	702.24	492.10	210.42
TOTALS	207	2507	25,070	\$9,828.85	\$5,462.99	\$4,366.86

Average Gain per Day - 1.32
 Average Profit per Day - \$0.23
 Average Profit per Hog - \$21.09

58

PIG CLUB

Breeding Class

County Florence 1948

Name of Member	No. Animals	Days Fed	Gain in Wt.	Total Value	Total Cost	Profit
Lavon Godwin	1			\$110.00	\$60.00	\$50.00
Ben Steele	1			78.00	52.00	26.00
W. H. Jeffords	2			70.00	70.00	
Donald Foxworth	1			75.00	53.00	22.00
Charles Willis	2			70.00	55.00	15.00
Billy Young	1			100.00	59.00	41.00
Webber Floyd	1			70.00	45.00	25.00
Clarence Turner	1			75.00	30.00	45.00
Hansel Turner	1			75.00	30.00	45.00
Billy Witherspoon	1			80.00	45.00	35.00
Burns Turner	1			95.00	48.00	47.00
Mike Vause	2			170.00	102.00	68.00
Ruddy Adams	1			90.00	55.00	35.00
Burns Turner	2			95.00	72.00	23.00
Alton Matthews	1			75.00	47.00	28.00
Dewey Morris	1			80.00	60.00	20.00
James Alexander	1			70.00	54.00	16.00
TOTALS	21 21			\$1478.00	\$937.00	\$541.00
Average Value Per Animal - \$70.30						
Average Cost Per Animal - \$44.61						
Average Profit Per Animal \$20.00						

PIG CLUB
(Sow and Litter Class)

County Florence Year 1948

Name of Member	No. pigs Farrowed	No. pigs raised	Total Value	Total Cost	Profit
Mike Vause	23	22	\$510.00	\$270.00	\$240.00
Ruddy Adams	10	9	300.00	140.00	160.00
Jack Kirby	9	8	260.00	120.00	140.00
LeRoy Wiggins	8	7	225.00	135.00	90.00
William Wiggins	12	8	285.00	135.00	150.00
David Langston	10	10	315.00	125.00	190.00
Dewey E. Morris	14	12	375.00	140.00	235.00
Alton Matthews	10	2	125.00	120.00	5.00
Barnwell Carmon	8	1	100.00	100.00	
James Alexander	10	9	300.00	110.00	190.00
Marion Langston	10	10	375.00	175.00	200.00
Levon Godwin	8	8	275.00	95.00	180.00
Billy Witherspoon	9	8	334.00	154.00	180.00
Mike Creel	10	8	305.00	120.00	185.00
Edward Stone	10	10	325.00	280.00	45.00
Ray McAlister	12	11	295.00	117.00	178.00
Donald Singletary	6	5	175.00	84.00	91.00
Burns Turner	14	11	560.00	348.00	212.00
TOTALS	193	159	\$5439.00	\$2768.00	\$2671.00
Ave. Cost Pigs Farrowed -	\$13.80				
Ave. Cost Pigs Raised -	\$17.40				
Value Per Pig -	\$34.70				
Profit Per Pig -	\$16.86				

N. C. 27 *
 Native **
 Hastings Prolific ****
 Latham Double ***
 Dixie 17 *****

CORN CLUB

County Florence 1948

	Name of Member	No. A.	Yield Bu.	Total Value	Total Cost	Profit
****	Harry Wise	1	84.1	\$105.13	\$64.80	\$40.33
*	Jack Yarborough	1	77.5	96.25	67.20	29.05
*	Larry Stokes	1	62.9	78.63	73.10	5.53
*	Billy Godwin	1	54.7	68.38	34.60	33.78
*	Wayne Jordan	1	45.3	56.63	28.70	27.93
*	Ed Carlton Marsh	1	48.2	60.25	26.18	34.07
*	Lavon Godwin	1	42.5	53.13	38.70	14.43
*	Billy Witherspoon	1	40.0	50.00	27.00	23.00
*	Newell Bazen	1	38.9	48.90	24.10	24.80
*	James Ross	1	31.6	39.50	23.11	16.39
*	Alvin Knotts	1	33.3	41.63	24.00	17.63
*	Eugene Knotts	1	35.3	44.40	31.27	13.13
*	Rupert Hanna	1	26.7	33.40	24.30	9.10
***	Howard Weaver	1	55.3	69.13	37.21	31.92
*	Fred Stone	1	38.9	48.60	29.57	19.03
*	Billy McDougal	1	34.0	42.50	24.00	18.50
*	Ray McAlister	1	44.4	55.50	31.20	24.30
*	Norman Edgeworth	1	57.6	72.00	37.45	34.55
*	J. B. Powell	1	35.4	44.25	22.17	22.08
*	Wilbur Cooper	1	59.6	74.50	45.12	29.38
**	J. C. Hoover	1	48.0	60.00	30.05	29.95
****	J. C. Hoover	1	54.0	67.50	30.05	37.45
*	R. K. Anderson	1	30.0	38.50	22.00	16.50
*	J. D. Graham	1	61.0	76.25	36.40	39.85
**	J. D. Graham	1	52.0	65.00	36.40	28.60
*	J. C. Eaddy	1	46.1	57.63	18.20	39.43
*	J. Gold Altman	1	47.0	58.25	27.00	31.25

CORN CLUB

County Florence 1948

Name of Member	No. A.	Yield Bu.	Total Value	Total Cost	Profit
* Talmadge Baker	1	38.6	48.25	21.80	26.45
* John Altman	1	41.2	51.50	32.10	19.40
** George Gainey	1	31.0	38.75	18.20	20.55
* Harold Godwin	1	54.7	68.38	34.60	33.78
** Buddy DeWitt	1	26.8	33.50	27.10	6.40
** James Elliott	1	32.0	40.00	29.40	10.60
* Jimmie Collins	1	36.4	45.50	31.07	14.43
* Marion Collins	1	36.4	45.50	31.07	14.43
* James B. Eaddy	1	48.2	60.25	43.40	16.85
* Bennie Eaddy	1	48.2	60.25	43.40	16.85
* Glenn A. DuRant	1	56.0	70.00	37.00	33.00
** Don Hanna	1	36.7	45.78	27.85	17.93
** Tommy Hatchell	1	40.8	51.00	23.10	27.90
** T. C. Farmer	1	46.0	57.50	19.64	37.86
** Reamer Evans	1	38.5	48.13	28.00	20.13
* E. J. Powell	1	47.0	57.85	31.50	26.35
* Harold Poston	1	52.0	65.00	30.25	34.75
** Jack Morris	1	28.0	35.00	16.00	19.00
* Ellie Matthews	1	59.0	73.85	38.75	35.10
* Dewey E. Morris	1	58.1	72.63	31.20	41.43
** Bobby Stevens	1	31.0	38.75	25.00	13.75
* Ralph Poston	1	34.2	42.55	26.00	16.55
* Bobby Alford	1	52.0	65.00	37.20	27.80
** Gene McElveen	1	56.0	70.00	36.00	34.00
** David Langston	1	44.6	55.75	34.00	21.75
** Stan James	1	32.0	40.00	25.40	14.60
** Billy Matthews	1	43.4	54.25	31.00	23.25

CORN CLUB

County Florence 1948

Name of Member	No. A.	Yield Bu.	Total Value	Total Cost	Profit
* Teddie Matthews	1	48.1	60.03	37.50	22.53
* Jimmy Cooper	1	49.0	61.25	33.31	27.94
* Bobby Altman	1	51.2	63.80	41.10	22.70
* Charles Altman	1	47.0	59.75	36.40	23.35
** Junior Hudson	1	23.5	29.40	19.50	9.90
*** W. H. Jeffords	1	36.2	45.25	23.25	22.00
*** Francis Jeffords	1	36.2	45.25	23.25	22.00
* Billy Young	1	47.0	58.85	29.00	29.85
* Allen Wise	1	51.0	63.85	29.00	34.85
* Murphy White	1	40.2	50.05	40.10	9.95
* Bubber Keefe	1	42.4	52.60	27.00	25.60
** Bennie Turner	1	38.1	47.53	30.73	16.80
* Jimmie Stone	1	41.6	52.00	28.40	23.60
* Kenneth Lanning	1	42.0	52.50	34.20	18.30
* Marion Langston	1	37.0	46.25	23.17	23.08
* Roosevelt Tedder	1	39.4	48.65	29.75	18.90
** Billy Altman	1	29.0	36.25	21.00	15.25
* Edward Altman	1	36.0	45.00	23.00	22.00
** H. B. DeFee	1	30.0	37.50	24.10	13.40
** Marion Ward	1	34.4	43.00	31.00	12.00
** Allen Ward	1	34.4	43.00	31.00	12.00
* Morris Anderson	1	58.8	73.50	42.10	31.40
* Jerry Prosser	1	47.1	59.00	31.50	27.50
* Gary Prosser	1	47.1	59.00	31.50	27.50
** Gilbert Rogers	1	25.0	31.25	27.00	4.25
** John T. Humphries	1	22.0	27.50	19.00	8.50
** Michael Powers	1	26.2	32.75	18.00	14.75

Grand Total	81	\$3493.0	\$4365.52	\$2508.77	\$1856.75
Average		43.1	53.89	30.97	22.92
Average Per Bu.			1.25 63	72	52

Four-H club boys One-Acre Corn Demonstration consisting of N. C. 27
Hybrid. This acre gave an estimated yield of 62 bushels.
Pictured is Larry Stokes and A. C. Odom, Assistant County Agent.



TOBACCO CLUB

County Florence

19 48

Name of member	No of Acres	Yield (lbs.)	Total Value	Total Cost	Profit
Billy Witherspoon	.6	800	\$426.00	\$294.55	\$131.45
Boyd Witherspoon	.6	846	443.30	294.05	149.25
Preston Gee	1	928	427.60	208.25	219.35
Ellie Matthews	1	1225	643.45	256.00	387.45
Phillip Anderson	1	700	355.00	204.25	150.75
Billy Powers	1	1012	511.76	300.75	211.01
Teddy Matthews	1	962	403.84	218.00	185.84
Joel Coward	.5	750	337.50	226.30	111.20
TOTAL	6.7	7,253	3,548.45	2,002.15	1546.30
Average Yield Per Acre - 1083					

FOUR-H SWEET POTATO DEMONSTRATIONS

Four 4-H club boys completed records on their sweet potato projects. One of the demonstrations was very outstanding and consisted of $1\frac{1}{4}$ acres. This field produced 319 bushels of Number One potatoes and 36 bushels of culls. Listed below is a summary of projects completed.

<u>Name of Member</u>	<u>No. Acres</u>	<u>Yield (Bu.)</u>	<u>Total Value</u>	<u>Total Cost</u>	<u>Total Profit</u>
Cecil Langston	$1\frac{1}{4}$	355	\$797.50	\$274.48	\$523.02
Mike Vause	1	250	364.50	141.35	223.15
Alton Langston	1	200	280.00	155.95	124.05
William Wiggins	1	160	192.00	117.20	74.80

SUMMARY OF SWEET POTATO DEMONSTRATION
Cecil Langston, Route 1, Effingham

Variety - Porta Rica Soil Type - Norfolk Sandy Loam Acres - $1\frac{1}{2}$

Fertilizer Per Acre - 1600 Analysis - 4-8-8, S. Pot. Fertilizer

Cost Fertilizer Per Ton - \$60.00

No. Plants Set - 15,000 Ht. Planting Ridge - 10" Spacing - 10 In.

Row Width - $3\frac{1}{2}$ ft. Plants - Vine cuttings Potatoes treated borax

Expenses:

Fertilizer	Analysis	Amount	Cost
Special Pot. Fert.	4-8-8	1600	\$48.00

Labor: Other Costs:

Man Hours 104 @ 30¢ per hour	\$31.20
Mule Hours 35 @ 10¢ per hour	3.50
Tractor Hrs. 2 @ \$3 per hour	6.00
Containers 319 @ 32¢ each	102.08
Stored On Farm 319 bu. @ 10¢ per bu.	31.90
Cost plants 15,000 @ \$3.50 per 1000	<u>45.00</u>
TOTAL COST	\$274.68

Returns

319 bushels of No. 1 Potatoes @ \$2.50 per bu.	\$797.50
Less Cost Production	<u>274.68</u>
Profit	\$522.82

TRUCK CROPS

A decrease in the acreage of truck crops was noted during 1948. Many acres of cucumbers and squash were left in the fields unharvested due to the low prices which they were bringing. Those growers who placed their truck on the early markets received relatively good prices. Due to late harvesting of pepper, no records were available; however, growers were getting forty cents a pound and were expecting to average approximately eight hundred pounds per acre.

Snap Beans:

The snap bean market was low at the beginning of the season; however, prices picked up during mid-season harvest showing a return which averaged approximately \$2.00 per bushel.

SUMMARY SNAP BEANS

Name	Acres	Yield Bushels	Cost	Value	Profit	Variety
J. L. Godwin	2	300	\$365.00	\$600.00	\$235.00	Bountiful
Laverne McCutcheon	1	150	186.50	450.00	263.50	B. Valentine
J. L. Godwin	1	100	143.00	200.00	57.00	Tendergreen
Laverne McCutcheon	.5	75	94.00	225.00	131.00	Flats

Squash:

Early planting paid off on squash because of the high prices received at the beginning of the season. In most cases corn was interplanted with squash and showed a profit when sold as mutton corn. No records were available on the amount of corn harvested and sold. Summary on squash includes only the U. S. No. 1's produced per acre.

SQUASH SUMMARY

Name	Acres	Yield	Cost	Value	Profit	Variety
Laverne McCutcheon	1	150	\$95.00	\$450.00	\$355.00	Woods Early Prolific
J. L. Godwin	1	150	127.00	240.00	127.00	Woods Early Prolific

Cucumbers:

Acreages of cucumbers were decreased during 1948 with the outlook of being decreased even more next year. Many growers left their cucumbers unharvested because the profit on them was not enough to pay for labor of harvesting. J. L. Godwin planted one acre of the variety known as A & C. Below is a summary on this project.

Name	Acres	Yield	Cost	Value	Profit	Variety
J. L. Godwin	1	150 bu.	\$127.00	\$240.00	\$113.00	A. & C.

Average price received - \$1.60 per bushel.
Production cost per bu.- 0.80
Profit per bushel - .75

Cabbage:

Cabbage made up a small portion of the truck produced and Grover Vause reported a record kept as follows:

One acre of cabbage consisting of 5000 plants set in December.
Plants cost \$15.00
Labor for setting, cultivating and harvesting amounted to \$50.00
Fertilizing material amounted to \$10.00
Total Cost of Production - \$75.00
Cabbage sold to local people and grocery stores showing a profit of \$80.00

Due to the small acreages of tomatoes, egg plants and garden peas planted for commercial purposes, no records were available on these crops. J. L. Godwin reported that he was able to market several bushels of egg plants per week and the demand for them was good. Income from egg plants was excellent during the past year.

Strawberries:

Strawberries were marketed locally for storing in home and local frozen food lockers. During the strawberry season prices averaged fifty cents a quart.

Surplus Irish Potatoes:

During June and July when moisture conditions reduced the grazing capacity of summer pastures, livestock growers over the county received surplus Irish potatoes for livestock feed. Very little was known about potatoes as a source of livestock feed; however, Morrison's Feeds and Feeding showed that potatoes were useful for hog feed when cooked with salt. Farmers were advised to cook potatoes for hogs where possible and to chop large potatoes before feeding to cattle. Various methods of cooking potatoes were used with varying amounts of salt, fishmeal and tankage being added to improve the palatability of the potatoes and balance the carbohydrates. All reports show that appreciable gains were made by hogs fed on cooked potatoes. Potatoes fed to cattle raw did not show such good results except that they were carried through this dry season in fairly good shape.

On the following page is a summary of the reports received on surplus potatoes through November.

REPORT ON FEEDING IRISH POTATOES

Name of Farmer	Number Animals	Kind of Animals	Amount of Pot. Fed	Preparation of Potatoes	Kind of Grain & Grazing Used
Noel Kirven	15	Hogs	350 bags	Cooked	Corn, Fishmeal
W. Clyde Graham	75 12	Cows Hogs	360 bags	Raw with salt, mineral & dairy feed-	Ladino & Ryegrass
J. T. Lazar	60 40	Cows Hogs	600 bags	Fed raw	Corn
W. E. Poston	14	Hogs	100 bags	Cooked & raw	Tankage & C.S. Meal
E. S. Willis	50	Hogs	200 bags	Raw	Corn and oats
A. W. McLaughlin	20 40	Cows Hogs	360 bags	Raw	Corn & tankage
H. L. Turner	20 6	Hogs Cows	45 bags	Cooked with salt	Mixed feed
H. S. Anderson	40 16	Hogs Cows	350 bags	Cooked & raw	Corn & pasture
J. H. Morris	60	Hogs	100 bags	Cooked	Mixed feed
H. C. D. Morris	32 6	Hogs Cows	120 bags	Cooked & raw	Corn & forage
W. A. Myers	40 5	Hogs Cows	75 bags	Cooked & raw	Corn

71

71

MARKETING

The County Agent's Office has a policy approved by the committee, "To encourage local dealers to handle products in demand by farmers at reasonable prices". We try to encourage farmer owned and farmer controlled cooperative to sell the products from the farm.

Poultry:

The demand for poultry is so great that the price has remained high. There are four poultry processing plants in the county that takes care of most of the poultry sold. Many farmers sold chickens and turkeys through orders to the freezer lockers in the county.

Potatoes:

There were two potato markers buying potatoes in the county but tobacco being late caused many of the potatoes to be left in the ground, while others were harvested by livestock.

Livestock:

From figures obtained at the livestock auctions and the Union Stock Yards there was more livestock marketed than in any of the past five years.

Truck:

Most of the truck was sold at markets in Lake City. Figures on total amount and prices received were not available. However, price estimates based on information from farmers showed prices somewhat lower than last year.

SUMMARY MARKETING WORK 1948
Products Handled by Cooperating Agencies

PRODUCTS	QUANTITY	BOUGHT	SOLD
Hogs & Cattle-Fat Stock Show	132		\$8250.49
Hogs-4-H Fat Barrow Show	42		2374.76
Hogs & Cattle Sold Commercially	30,000		900,000.00
Breeding Hogs-Boars & Gilts	65		5,010.00
Beef Cattle	13		1,875.00
Poultry used by Processor	141,500		34,750.00
Dairy Cattle Home Use	50		560.00
Sweet Potatoes Field Run	7,000 bu.		9,800.00
Sweet Potatoes Sold Direct (Farmers sold)	45,000 bu.		67,500.00
Corn, Hybrid & other	3,200 bu.		4,800.00
Cotton (Seed planting)	2,000 bu.		6,500.00
Wheat	400 bu.		1,025.00
Oats	6,000 bu.		5,400.00
Rye	750 bu.		2,250.00
Soybeans-Bought for farmers	800 bu.	\$1,850.00	
Cowpeas-Bought for farmers	275 bu.	1,050.00	
Sweet potato plants-Bt. for farmers	357,000	1,250.00	
Ryegrass	15,000 lbs.	1,650.00	
Lespedeza	17,000 lbs.	2,720.00	
All clovers	1,100 lbs.	825.00	
Pecans	100,000 lbs.		\$15,000.00
Protein Supplement	5 Tons	500.00	
Lime AAA	3,000 Tons	13,350.00	
Phosphate AAA	1,300 Tons	15,444.00	
Pasture Mixtures	6,000 lbs.	375.00	
Pecans & other Fruit Trees	61 trees	152.70	
TOTALS		\$39,166.70	\$1,065,095.25

POULTRY

The poultry work by the Agents in Florence County consisted of Poultry Improvement Demonstrations and Vaccination Demonstrations.

Vaccination of Poultry:

A vaccination demonstration was put on in connection with club work so that each boy would be able to vaccinate his home flock. Other demonstrations were given where there was not a local 4-H club. Another demonstration was given to S. C. Industrial School boys.

Culling Demonstrations:

The county agents gave aid to farmers in culling their flocks through culling demonstrations and through bulletins issued by the office and by publicity on the radio.

National Poultry Improvement Plan:

The hatcheries in the county are being worked with and the farmers are not only improving their flocks but are supplying hatcheries with more desirable hatching eggs. By this method the farmers are helping to improve the quality of chicks going to other farms in the county.

Feeding, Diseases and Management:

Information was given through personal contacts, radio, bulletins, and news articles on feeding, diseases and management of chickens.

On the following page is a report of the Poultry Improvement Demonstrations in Florence County during 1948.

POULTRY IMPROVEMENT DEMONSTRATIONS

Name	Number Birds	No. Birds Reacted	No. Birds Culled	No. Doz. Hatching Eggs Sold	Value With Premium
Mrs. J. S. Allen	54	1	2	253	\$ 184.40
J. Martin Beckrage	283	0	0	473	339.45
Mrs. E. B. Broach	86	0	1	202	147.00
Mrs. George L. Ham	233	0	0	917	654.25
E. P. Kirby	648	0	6	2,911	2,163.84
Mrs. J. L. McDonald	51	0	1	218	155.85
Mrs. Fred McLaughlin	247	2	8	765	538.57
Mrs. M. A. Sauls				738	517.66
Mrs. A. F. Spradley	554	0	4	1,370	997.51
David White				2,214	1,572.54
Harry White	370	0	0	1,983	1,245.36
Stanley White	376	0	0	1,470	1,052.17

75

PUBLICITY

Publicity work and the distribution of educational information in connection with the 1948 Extension Program in Florence County was done through circular letters, press articles, radio talks, distribution of bulletins and films shown. A summary of work done in this connection is given as follows:

Summary Publicity Work

Individual letters	604
Circular letters	34
Copies mailed	4,033
Press articles	87
Radio talks	51
Bulletins Distributed	1,762
Films Shown	70
Attendance	1,399

Circular Letters:

A total of 34 circular letters were prepared and 4,033 copies mailed to farmers and 4-H club boys in Florence County in 1948. These letters contained information on timely agricultural matters, notices of meetings, and information on result demonstrations and experimental work. Specimen copies of circular letters are attached to this report.

Press Articles:

A total of 87 press articles of timely agricultural interest were published in Florence County newspapers during the year. Specimen copies of news articles are attached to this report.

Radio Talks:

Fifty one radio talks on agricultural subjects were made by the Assistant County Agents over Station WOLS during the year.

Bulletins:

A total of 1,762 bulletins were distributed to farmers and 4-H club boys during the year.

Film:

Film were shown in conjunction with the 4-H club meetings to help with the demonstration. Film were also obtained by the agents to be shown at other agricultural meetings.

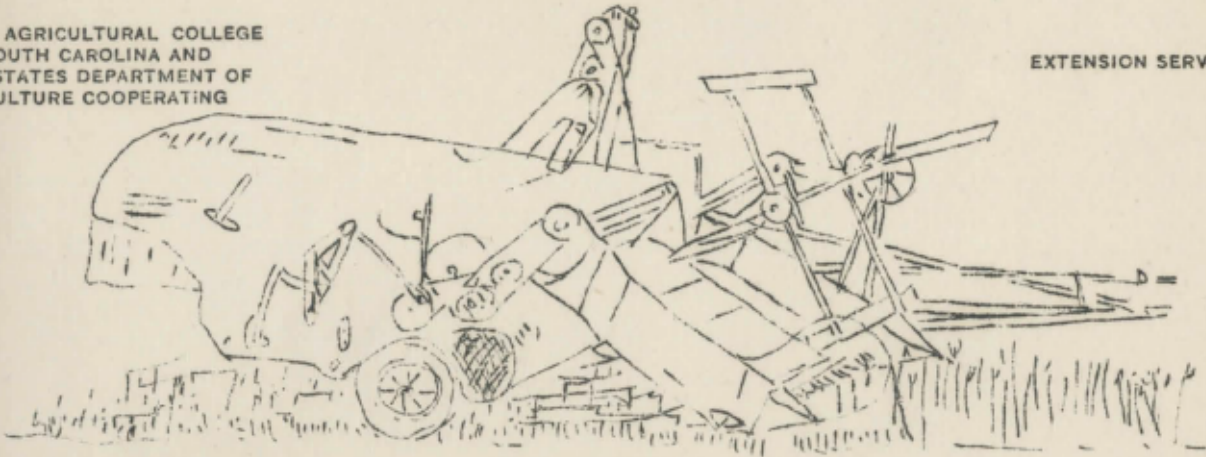
On the following pages will be found specimen copies of circular letters issued during the year.

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS

STATE OF SOUTH CAROLINA

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

EXTENSION SERVICE



COMBINE SCHOOL

Dear Combine Owners & Operators:

A school for the purpose of training combine operators in the care, adjustment and maintenance of combines will be held at LAKE CITY on WEDNESDAY, MAY 5th, 10:30 A. M. at STAR WAREHOUSE NUMBER 3, rain or shine.

M. C. McKenzie, Extension Agricultural Engineer from Clemson College will lead the discussion. He will be assisted by field men from various farm machinery companies. The discussion will begin promptly at 10:30 and will last approximately 2 hours.

Tell your neighbors about this important combine school.

Very truly yours,

Frank M. Fleming

Frank M. Fleming
Ass't. County Agent

J. W. McLendon

J. W. McLendon
County Agent

A. C. Odom

A. C. Odom
Ass't. County Agent

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS

STATE OF SOUTH CAROLINA

Florence, South Carolina

June 24, 1948

EXTENSION SERVICE

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

Dear 4-H Club Member:

The annual 4-H club fat barrow show and sale will be held at the Florence Air Base Wednesday, September 8, 1948. All 4-H club members are urged to grow out one or more hogs for this show.

Pigs weighing 75 to 80 pounds at the present time are ideal to top out by September 8.

Boys wishing to grow out hogs for this show and sale are requested to return the enclosed card to the county agent's office.

We would like to secure some definite information as to the gains the hogs make and the cost per pound. Boys growing out hogs are urged to weigh their pigs before putting them on full feed, make a note of their weight and enter it on the record book which will be furnished later.

Please return cards at your earliest convenience.

Very truly yours,

Frank M. Fleming
Frank M. Fleming
Ass't. County Agent

A. C. Odom
A. C. Odom
Ass't. County Agent

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

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

Florence, South Carolina
November 3, 1948

EXTENSION SERVICE

To Members Florence County Agricultural Extension Committee:

Dear Member:

We appreciate to the fullest extent the help of the Agricultural Committee. You have been more help than you realize.

We are again calling on the "old faithfuls" and the new members added for your thinking to help outline a program for 1949.

The program planning meeting will be held in the Agricultural Building Saturday, November 6 at 10 A. M. (Promptly).

The purpose of this meeting is to think together and discuss the agricultural situation and how to meet its problems in Florence County. The war is over and the patriotic appeal may not be as great but the agricultural situation is in a position that requires more safe planning than ever before.

Miss Helen Holstein, District Home Agent, and J. T. Lazar, District Farm Agent, will be present and take part in the discussion.

We hope you give us the benefit of your service. It will be appreciated.

The meeting will begin promptly at 10 A. M. SATURDAY, NOVEMBER 6.

Very truly yours,

Vela Smith

Vela Smith
Home Dem. Agent

J. W. McLendon

J. W. McLendon
County Agent

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

PINE TREE PLANTING DEMONSTRATION

Pine tree planting demonstration at the farm of Joe Singletary three miles southeast of Cowards at the old W. W. Singletary place, Wednesday, December 8th at 10:30 A. M. A pine tree planting demonstration will also be held at the Tom Barringer place, Cherokee Road near Florence at 3:00 P. M. same day.

Heavy losses of pine seedlings have been due to improper handling of young seedlings and poor planting methods. It is very little more trouble and expense to do it right.

All land owners and interested parties who are planting pines this year or in the future are urged to attend.

Remember a question asked may save you heavy losses and future trouble.

Remember the date, Wednesday, December 8th, Cowards at 10:30 A. M. and at Florence at 3:00 P. M.

A forester from the South Carolina Commission of Forestry will be present to conduct the demonstration and answer your forestry questions.

DON'T GRAZE LAND TOO WET

I notice around the county in some places cows are bogging down on temporary grazing. As you know, this will furnish the cows a little food now but will cost you heavily in feed later on.

It will certainly pay you to do a little stable and lot feeding while the ground is wet and have good grazing later.

FARMERS MAY GET T. V. A. NITRATE FOR DEMONSTRATION

Florence County farmers have been allocated 50 tons of Ammonium by the Tennessee Valley Authority provided certain conditions are met. This is a much cheaper per unit source of nitrogen than can be purchased elsewhere and a limited amount is allocated to be used only for demonstrations on permanent pastures and winter grazing units.

Material will be available only to those farmers who are willing to conduct Extension demonstrations submitting records to county agents. The County Agent states that the material cannot be used for grain to be harvested but those that are to be grazed and then turned under for cover crops and permanent pastures.

Farmers desiring this material should make application at once giving acreage planted and number of livestock to be grazed and the Executive Committee of the County Agricultural Committee will allocate same provided conditions are met.

. . .

Nineteen 4-H club members already have steers on feed for next year's show and sale. Last year the boys had not received their calves by this time and yet they showed and sold 37 steers and 89 hogs. At this rate they should make a good show next spring.

Tobacco Work:

Thirty four members reported 35.5 acres of tobacco last year with a good profit as well as learning more about cultivation of the crop. This year 24 members are working with tobacco as their project in 4-H club.

Corn:

One hundred and twelve boys completed their project in the corn club sponsored by the Kiwanis Club last year with great success. The top boys not only got a larger yield per acre but also received prize money donated by the Kiwanis Club of Florence. This year 130 members have joined the Kiwanis Corn contest and we are hoping a greater year is in the making.