

1948

1948 York County Extension Service Report

Clemson University Cooperative Extension Service

J. D. Miller

C. H. Fant

J. D. Williams

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PROPERTY OF
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OF SOUTH CAROLINA

ANNUAL REPORT

COUNTY AGENT WORK

YORK

County

SOUTH CAROLINA

1948

J. D. MILLER

County Agent

C. H. FANT

Assistant County Agent

JAMES D. WILLIAMS

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 OF COUNTY AGENTS WORK

YORK COUNTY, SOUTH CAROLINA

1948

J. D. Miller, County Agent
C. H. Fant, Assistant County Agent
James D. Williams, Assistant County Agent

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Cooperative Extension Work in Agriculture and Home Economics

Clemson Agricultural College and the

United States Department of

Agriculture Cooperating

Extension Service

D. W. Watkins, Director
Clemson, South Carolina

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SUMMARY OF ACTIVITIES AND ACCOMPLISHMENTS

GENERAL ACTIVITIES

1.	Days agents spent in office - - - - -	112
2.	Days agents spent in field - - - - -	732
3.	Days agents worked - - - - -	875
4.	Miles agents traveled - - - - -	29,839
5.	Farm visits - - - - -	1,970
6.	Different farm visits - - - - -	948
7.	Office calls at agents office - - - - -	1,823
8.	Telephone calls at agents office - - - - -	1,649
9.	Meetings held or attended - - - - -	423
10.	Attendance at these meetings - - - - -	11,600
11.	Number communities in which extension work was conducted - - -	30
12.	Number farmers conducting demonstrations - - - - -	77
13.	Number voluntary community leaders assisting with extension program - - - - -	108

PROJECT ACTIVITIES AND RESULTS

Agricultural Economics

Seven outlook meetings were held with attendance of 243 farmers. Eight complete farm records were completed. Agents cooperated with farm agencies in loaning \$286,345.00 to 404 farmers. Conducted two farm planning demonstrations.

Agricultural Engineering

A total of 3,000 acres of terraces constructed. Farm building plans furnished for 23 farm buildings. Two sweet potato curing house plans furnished and two silos constructed. Four Grade A milking barn plans, six farm home plans, three poultry house plans, two general purpose barn plans, one dairy barn plan, two beef cattle barn plans furnished farmers.

Agronomy

Twenty-eight farmers conducted five-acre cotton demonstrations, producing an average of 660 pounds of lint per acre. Four corn production demonstrations were conducted. Three legumes for hay demonstrations and three alfalfa for hay demonstrations completed. Two milo for seed demonstrations. Two oat production demonstrations completed yielding 78 bushels per acre. Three wheat production demonstrations completed yielding 32.6 bushels per acre. Three winter grazing demonstrations completed.

Animal Husbandry

Placed two purebred gilts, two beef bulls, eight purebred beef heifers for farmers and 4-H club members.

Dairying

Placed six purebred dairy heifers with 4-H club members. Conducted two silage production demonstrations, three winter grazing demonstrations. Obtained cost records on two silos, and two grade A milking barns. Artificial inseminating program bred 887 cows for 210 farmers.

Entomology and Plant Pathology

Circular letters mailed to leading cotton producers, vocational agricultural teachers, insecticide and farm machinery dealers on control of boll weevil. Information furnished peach producers on control of curculio, Oriental moth, peach borer and other insects and diseases through circular letters, radio, newspaper articles and meetings. Demonstrations in louse control on cattle and the use of 2-4D weed killer. County wide program in use of DDT to control flies and other insects conducted.

Forestry

Total of 192,500 trees set in county in program of reforestation. One forest planting demonstration. Twenty-one showings of forest films. Two programs on forestry at county United Agricultural Workers meetings. Program on forestry given at all 4-H clubs. Woodland examination reports made on 16 farms.

4-H Club Work

Twenty-four clubs organized with 362 members, 74% of which completed demonstrations producing products with a value of \$37,668.49 and realizing a profit of \$12,633.23. One Achievement Day, and One Rally Day Program. Total of thirty-six boys and girls exhibited products at the York County Fair, and four at the State Fair. The 4-H Council held two meetings and the 4-H advisory committee held one meeting during the year. One dairy judging team trained.

Horticulture

Two sweet potato production demonstrations conducted with production of 93 bushels of no. 1's and 23 bushels of no. 2's per acre. Two peach tree pruning demonstrations conducted. Assistance given in determining infestation of insects and spraying peaches.

Marketing

Farmers aided in marketing surplus farm products to the value of \$16,300.00 and in cooperative orders of supplies, seed and livestock in the amount of \$6,805.15.

Poultry

One demonstration flock record completed showing labor income of per hen. Four turkey demonstrations completed, showing labor income of \$3.52 per head. Fifteen poultry flocks bloodtested and one turkey flock bloodtested. Seven 4-H boys in Sears 4-H poultry program.

Visual Instruction

Showed educational motion pictures to 1714 people at 37 meetings, slides to 241 people at 3 meetings, 27 photographs made and shown to 50 people, and maps and charts to 168 people at 7 meetings.

Publicity

Total of 752 personal letters, 40 circular letters proposed with 13,317 copies mailed, 159 press articles published, 35 radio talks, 3,221 bulletins distributed and five farm tours held.

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

1. County Agricultural Committee

a. How Members Are Selected: The County Agricultural Committee consists of farmers from all sections of the county so that all areas or communities will be represented. Some are large farmers and some are small farmers. Members represent all types of farming being done in this county and where possible the leaders in the various phases of agriculture were placed on the committee. The committee has cooperated in helping select additional members who are public spirited, broadminded and cooperative so that the interests of the entire county might be considered in working out an extension program that would best suit the county as a whole. The membership is made up of farmers and farm women with the exception of a few officials of other agricultural agencies.

b. (List of names of members of county agricultural committee and executive committees follows)

MEMBERS OF COUNTY AGRICULTURAL COMMITTEE

Earl Land	York
Ted Lewis	York
J. O. Hammond	Fort Mill, R-1
Hugh McCorkle	York
Gill Reid	Clover
Murray J. Osborne	Fort Mill, R-1
S. N. Stacey	York
W. B. Wilkerson	Hickory Grove
W. T. Oates	York
F. T. Buice	Rock Hill, R-3
Roy G. Williams	Rock Hill, R-4
J. S. Rainey	Sharon
J. L. McGill	York, R-1
S. L. Faulkner	Kings Creek, R-1
E. W. Smith	Hickory Grove
W. C. Hood	Sharon, R-1
J. H. Patrick	Clover, R-2
E. P. Glasscock	Catawba
S. H. Faires	Rock Hill, R-5
W. H. Spencer	Catawba, R-1
R. M. Howell	Clover, R-3
M. B. Brissie	Rock Hill
Fred Thomas	Clover, R-3
Floyd Johnson	York
Clarence Senn	Rock Hill, R-4
B. R. Meek	Clover, R-2
R. M. Mitchell	Sharon, R-1
D. G. Lesslie	Rock Hill, R-2
James Love	McConnellsville
Warren Duncan	Sharon
S. S. Baird	Clover, R-2
Charles P. Whitesides	Hickory Grove
Mrs. A. A. Collinge	Rock Hill, R-1
Mrs. M. H. Lineberger	Catawba
Mrs. E. B. Proctor	Rock Hill, R-5
Mrs. Fred Shillinglaw	Sharon
Mrs. H. L. Patterson	Fort Mill
Mrs. Fred Wilson	Fort Mill, R-1
Miss Lula Smith	York, R-1
Mrs. Alex Fewell	York, R-2
Mrs. A. H. Sturgis	Rock Hill, R-3
Mrs. K. L. Bankhead	Sharon
Mrs. E. M. Dickson	York, R-1
Mrs. Frank Strait	Rock Hill, R-5
Mrs. Roy Gryder	Rock Hill, R-3
Mrs. Charles P. Whitesides	Hickory Grove
Mrs. Harry Faulkner	Clover, R-3

2. Executive Committee and other Sub-committees of County Agricultural Committee.

Executive Committee

W. B. Wilkerson, Chairman	Mrs. A. A. Collinge
Warren Duncan	Mrs. Roy Gryder
E. W. Smith	Mrs. M. H. Lineberger
W. H. Spencer	Mrs. Fred Shillinglaw
J. S. Rainey	

Agronomy Committee

F. T. Buice, Chairman	J. H. Patrick
S. H. Faires	S. S. Baird
W. C. Hood	J. L. McGill
W. D. Mintz	R. M. Howell
James Love	

Animal Husbandry Committee

E. P. Glasscock, Chairman	Roy G. Williams
S. L. Faulkner	R. M. Howell
B. R. Meek	J. S. Rainey
Clarence Senn	Murray Osborne

Horticultural Committee

Earl Land, Chairman	Mrs. A. H. Sturgis
W. B. Wilkerson	Mrs. Fred Shillinglaw
Fred Thomas	Mrs. E. B. Proctor

Marketing Committee

Roy G. Williams, Chairman	Mrs. Alex Fewell
W. B. Wilkerson	Mrs. Lindsay Thomas
E. P. Glasscock	

4-H Club Work Committee

Bobby Sturgis, Representing Boys' 4-H Clubs
 Patricia Parker, Club Girls
 Miss Sherwood Cannon, Rock Hill, R-1

Adult 4-H Sponsor Committee

Gill Reid, Clover, R-1
 Hugh McCorkle, York
 W. B. Wilkerson, Hickory Grove

3. Representatives elected to State Agricultural Committee

S. N. Stacey	York, S. C.
Mrs. Roy Gryder	Rock Hill, R-3

4. Duties and Responsibilities of County Agricultural Committee

The duties of the County Agricultural Committee is to meet with the county agents and specialists of the Extension Service and study all of the available data touching upon the agricultural conditions of the county and to suggest a program of work which will best meet these conditions and work out the problems that need solution. This committee is to study the agricultural conditions of the county as a whole and make recommendations for the agricultural program which may be further modified by the people in the various communities so as to adapt it to the specific needs of these various communities.

5. Organized Communities

Name of Communities	<u>Number Voluntary Community Leaders</u>
Bullocks Creek	12
Hopewell	8
Sharon	12
Hickory Grove	8
Smyrna	6
Cotton Belt	8
Santiago, Mountain View, New Zion	11
Bethany	12
Filbert	8
Ridge	6
Bethel	16
Beth Shiloh	9
Tirzah	5
Delphia	12
Guthries	5
McConnellsville	7
Bethesda	5
Oak Ridge	12
Ogden	7
Mt. Holly	18
Catawba-Harmony	6
Friendship	6
Leslie	10
Fork	4
Gold Hill, Flint Hill, Riverview	18
India Hook	5
Newport	6

COUNTY EXTENSION ORGANIZATIONChanges in York County Extension Staff

The following listed changes have occurred in the York County extension personnel during 1947 and 1948:

- (1) J. D. Williams was appointed Assistant County Agent on January 1, 1948 succeeding J. H. Evans.
- (2) C. H. Fant was appointed Assistant County Agent on January 1, 1948.
- (3) W. E. Harper terminated his duties as Farm Labor Assistant on December 31, 1947.

Present Extension Staff

White Agents

J. D. Miller, County Agent
 C. H. Fant, Assistant County Agent
 J. D. Williams, Assistant County Agent
 Miss Georgia Taylor, Home Demonstration Agent
 Mrs. Kathleen S. Mathews, Assistant Home Demonstration Agent

The county agents cooperate with the negro agents in their program of work with 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:

B. T. Miller, Negro County Agent
 Helen Barnwell, Negro Home Demonstration Agent

County Program Planning Committee

The York County program planning committee for 1948 is listed on page 9 under "Members of County Agricultural Committee".

The committee acts in an advisory capacity to the county agents in planning and carrying out the program of extension work in York County. In addition to the county program planning committee, the organizations listed below have cooperated closely with the county agents in planning and carrying out the 1948 program of work.

United Agricultural Workers
 County Council of Farm Women
 County 4-H Council
 Rock Hill Board of Trade
 Rock Hill Chamber of Commerce
 York Chamber of Commerce
 Civic Clubs
 County Home Demonstration Clubs
 Superintendent of Education's Office
 York County Fair Association
 County Health Department
 4-H Club Leaders
 Farm Bureau

PROJECT ACTIVITIES AND RESULTS

Agricultural Economics

Work in agricultural economics and farm management in 1948 included outlook meetings, complete farm records, cooperation with Farm Credit agencies, and farm planning demonstrations.

Outlook Meetings: One county outlook meeting was held at the county courthouse on January 19, at which time the district agent presented the outlook information to 90 farm men and women of the county.

Following this meeting the county agent held outlook meetings in six communities with a total attendance of 153 farmers.

Complete Farm Records: Complete farm account records were conducted by eight farmers in the county. A program report of one of the farm account record keepers Mr. J. E. Brandon a T.V.A. farmer is given in this section of the report.

Farm Record Demonstrations

Name	Address	Size of Farm Acres	Predominant type of Farming
E. P. Glasscock	Catawba	212.5	Dairying and general farming.
Charlie Ervin	Rock Hill R-5	158	Cotton, corn, grain, lespedeza and livestock.
B. M. Sturgis	Rock Hill R-1	86	Dairying, alfalfa & some general farming
W. C. Hood	Sharon, R-1	315	General farming, beef cattle, seed production.
J. E. Brandon	Clover, R-2	125	Cotton, corn, and general farming.
T. P. Currence	York, R-2	69	Cotton, corn, small grain, milk and poultry.
D. C. Wood	York, R-2	150	Cotton, corn, small grain, milk and poultry.
B. R. Meek	Clover, R-2	80	Cotton, corn, small grain, milk, poultry, truck crops, fruit.

Cooperation with Farm Credit Account Agencies: County Agent cooperated with all farm credit agencies in 1948 and information on credit available was furnished all who requested it. The credit facilities in this county are adequate and any farmer worthy of credit is able to borrow enough money to produce a crop or buy a farm. Following is summary of loans made by these credit agencies in 1948.

Summary Loans Made by Credit Agencies

<u>Agency</u>	<u>No. Farmers</u>	<u>Amount</u>
Rock Hill Production Credit Association	212	\$250,000.00
Farmers Service Administration	192	36,345.00
<u>Totals</u>	<u>404</u>	<u>\$286,345.00</u>

T.V.A. Farm Unit Test Demonstrations: In cooperation with the Extension Service and the Tennessee Valley Authority, the county established 10 unit test farms in York County in 1943-1944. These farms were established to demonstrate the value of a program of land-use adjustment in the interest of soil and water conservation. Crop and livestock plans were developed for each farm for a five-year period. Each farmer kept a complete farm account record of his business transactions.

PROGRESS REPORT ON THE UNIT-TEST DEMONSTRATION FARM OF J. E. BRANDON
YORK COUNTY

Crop Rotation

Field Number	Total Acres	Rotation Underway
1	9.0	Row Crop
	13.0	Grain & Lespedeza
2 & 3B & 4B	17.0	Woods
3A	1.0	Truck
	2.0	Trees
4A	3.0	House & Lot
4C	1.0	Annual Lespedeza
	27.5	Small grain and lespedeza
	1.5	Winter grazing & row crop
5A	5.00	Permanent pasture
5B	45.0	Woods & pasture

Changes That Have Taken Place in Crop Rotation and Livestock Management:

Prior to entry into the program of test demonstration in 1943, Mr. Brandon grew 16 acres of small grain and lespedeza. The acreage of this crop has been increased to 24 acres. He has substituted small grain and forage crops for row crops. The use of improved fertilizer practices has enabled him to produce more feed crops on less acreage. His yields per acre on both forage and row crops has steadily increased each year. The yield of more than a bale per acre on cotton and twenty bushels of wheat per acre is well above county averages.

The program on this farm has developed into a well rounded program to produce food for the people and feed for the livestock on the farm. Milk is now being sold to an established milk route and has added an additional income that is received regularly the year round.

Acreage and Production of Specified Crops Grown
on the Unit Test Farm of J. E. Brandon, 1948

Crop	Grown by family & hired laborers		Grown by sharecroppers	
	Acres	Production	Acres	Production
Cotton			40.0	41 bales
Corn	5.0	100 bu.	20.0	400 bu.
Oats	12.0	480 bu.		
Wheat	12.0	240 bu.		
Lespedeza	24.0	30 tons		
Orchard	2.0	Home use		
Garden	.5	Home use		
Sorghum Cane	1.0	50 gallons		

SUMMARY OF FARM BUSINESS OF J. E. BRANDON, 1948

	Beginning Inventory		Closing Inventory	
	Page	Value	Page	Value
Land		4507.50		4507.50
Improvements		4215.09		4230.79
Horses and Mules		650.00		775.00
Cattle		190.00		190.00
Hogs		30.00		63.00
Poultry		76.50		79.00
Sheep, Goats, etc.		-		-
Crop, Feeds, etc.		2036.29		2222.00
Machinery and Tools		859.40		2338.65
TOTAL		12,564.78		14,405.94

Farm Receipts			Farm Expenses		
Cotton and Cotton Seed	6922	44	Hired Labor	186	25
Other Crops	2	40	Crop Expense	1375	80
Cattle and Hogs	120	00	Livestock and Poultry	253	00
Dairy Products	676	13	Automobile	1435	08
Poultry and Eggs	50	65	Truck, Tractor, Equipment	346	96
Miscellaneous Receipts	25	00	Miscellaneous	10	20
Share Croppers Expense	-		Share Croppers Receipts	3705	21
Total Cash Receipts	7796	62	Total Cash Expenses	7312	50
Increase in Inventory (if any)	1841	16	Decrease in Inventory (if any)	-	
TOTAL RECEIPTS	9637	78	TOTAL EXPENSES	7312	50

Receipts minus expenses	\$	2325.28
Value of unpaid family labor other than that of operator, deduct	\$	480.00
Farm income	\$	1845.28
Interest (1% on average of two inventories) deduct	\$	539.41
Labor income *	\$	1305.87

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

A Comparison of Unit Test-Demonstration Farms of		York County, 1947			
Item	(1)	(2)	(3)	(4)	(5)
Labor income, dollars	151	1057	2013	12182	289
Receipts, dollars	7206	2159	11288	39258	7097
Expenses, dollars	6538	871	8686	25103	5904
Farm income, dollars	668	1288	2602	14155	1192
Farm income per \$100 invested, dollars	5	22	18	29	5
Receipts per \$100 invested, dollars	56	37	77	80	31
SIZE:					
Crop acres	91	116	88	599	86
Crop acres and open pasture	99	62	101	683	126
Total acres in farm	216	75	159	1214	319
Acres of crops	126	67	108	599	131
Investment	12,811	5,795	11,718	49,315	22,576
Work animals	5.0	2.0	5.5	12.0	3.0
Man-work units, total	918	326	773	4030	311
Animal units productive	7.3	10.0	4.9	56.2	26.4
PRODUCTIVITY:					
Crop yield index	163	176	132	116	121
Cash crop yield index	169	165	120	169	121
Lint cotton per acre, pounds	192	178	317	191	-
Yield corn per acre, bushels	20	20	20	51	35
Yield oats per acre, bushels	111	17	-	16	35
Yield wheat per acre, bushels	20	15	-	20	-
Yield hay per acre, tons	1.6	1.5	1.1	1.7	1.0
Yield barley per acre, bushels	-	-	-	-	-
Dairy sales per cow, dollars	185	157	119	261	-
Income per sow, dollars	-	200	-	-	-
Egg income per hen, dollars	1.28	1.49	0.12	00	-
LABOR EFFICIENCY:					
Man-work units per man	187	255	113	119	172
Percent work done by sharecroppers	63	00	71	10	00
Horse-work units per horse	86	83	67	126	17
LAND EFFICIENCY:					
Percent of farm in cropland and open pasture	16	82	65	56	39
Acres of crops per cultivated acre	1.31	1.16	1.23	1.0	1.52
DIVERSITY:					
Percent of receipts from cotton	85	33	111	37	-
Percent receipts from livestock	7	55	2	27	9
Acres of cropland per animal unit	12.9	4.6	18.0	10.7	3.3
Acres of open pasture per A.U. (cattle)	0.8	1.7	4.0	1.8	1.6
DISTRIBUTION OF PRODUCTIVE LIVESTOCK:					
Milk cows	4.5	7.5	3.0	15.0	2.0
Other dairy cattle	3.0	1.0	2.0	5.0	25.0
Beef cows	-	-	-	-	10.0
Other beef cattle	-	-	-	-	-
Brood sows	-	1.0	-	25.0	-
Other hogs	4.0	00	2.0	12.5	2.5
Hens	89.0	33	15	111	17
Other poultry	-	-	-	-	-

A Comparison of Unit Test-Demonstration Farms of	York			County, 1947	
	(6)	(7)	(8)	()	()
Labor income, dollars	719	6616	2103		
Receipts, dollars	6355	12214	8950		
Expenses, dollars	5245	5060	6290		
Farm income, dollars	1110	7154	2660		
Farm income per \$100 invested, dollars	12	53	19		
Receipts per \$100 invested, dollars	70	91	64		
SIZE:					
Crop acres	34	65	71		
Crop acres and open pasture	19	79	89		
Total acres in farm	80	115	150		
Acres of crops	34	105	85		
Investment	9028	13447	13924		
Work animals	2.0	2.0	2.0		
Man-work units, total	285	454	575		
Animal units productive	7.1	11.7	16.6		
PRODUCTIVITY:					
Crop yield index	138	126	141		
Cash crop yield index	188	-	133		
Lint cotton per acre, pounds	669	-	385		
Yield corn per acre, bushels	25	40	30		
Yield oats per acre, bushels	5	30	38		
Yield wheat per acre, bushels	-	23	16		
Yield hay per acre, tons	0.8	1.6	1.2		
Yield barley per acre, bushels	-	-	-		
Dairy sales per cow, dollars	182	1431	128		
Income per sow, dollars	-	-	-		
Egg income per hen, dollars	-	-	-		
LABOR EFFICIENCY:					
Man-work units per man	119	130	91		
Percent work done by sharecroppers	0	0	40		
Horse-work units per horse	63	50	63		
LAND EFFICIENCY:					
Percent of farm in cropland and open pasture	61	69	59		
Acres of crops per cultivated acre	1.0	1.62	1.20		
DIVERSITY:					
Percent of receipts from cotton	37	-	29		
Percent receipts from livestock	36	89	21		
Acres of cropland per animal unit	4.8	5.6	4.3		
Acres of open pasture per A.U. (cattle)	2.3	1.3	1.1		
DISTRIBUTION OF PRODUCTIVE LIVESTOCK:					
Milk cows	4.0	8.0	13.0		
Other dairy cattle	4.5	6.0	5.0		
Beef cows	-	-	-		
Other beef cattle	-	-	-		
Brood sows	-	-	-		
Other hogs	4.0	-	2.5		
Hens	15	72	27		
Other poultry	-	-	-		

AGRICULTURAL ENGINEERING

Soil Conservation

Soil Conservation work for the year was in cooperation with the Catawba Soil Conservation District, which includes York, Chester, Lancaster, and Fairfield counties. The Soil Conservation Service is cooperating with the district and two soil conservation technicians are assigned to this county. Soil conservation meetings and demonstrations are planned and held in cooperation with the soil conservation technicians in this county. Four community conservation groups have been organized in the county and hold quarterly meetings.

District Farm Plans: During the year 120 farm plans have been prepared by the Soil Conservation Service technicians working in the county. This brings to a total 768 farm plans in the county.

Terracing: There are six power terracing units operating in the county by the county, townships, and individuals. This year 3,000 acres were terraced for 200 farmers with this equipment.

Tours: During the year four soil conservation tours were conducted. One tour of 19 farmers and agricultural workers observed soil conservation practices in other counties and three tours of community soil conservation practices where 75 farmers visited 16 farms.

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 buildings.

Summary Farm Building Plans Furnished Farmers

<u>Buildings</u>	<u>Number</u>
Poultry Houses	3
Brooder Houses	2
Dwelling Houses	6
General Purpose Barns	2
Dairy Barns	1
Beef Cattle Barns	2
Milking Barns	4
Sweet Potato Curing Houses	2
Silos	1
<u>Total</u>	<u>23</u>

SOIL CONSERVATION

Extension Activities in Soil Conservation

No. group conferences Extension and SCS technicians in county	<u>8</u>
a. Attendance at these conferences	<u>23</u>
No. community meetings with Soil Conservation District work	<u>8</u>
a. Attendance at these meetings	<u>195</u>
No. field meetings	<u>5</u>
a. No. method demonstrations establishing practices	<u>1</u>
1. Attendance	<u>15</u>
b. No. meetings at demonstrations (observation)	<u>3</u>
1. Attendance	<u>68</u>
No. farms on which county agent assisted with soil conservation farm planning	<u>11</u>
Informational Material on Soil Conservation	
a. No. informational circular letters	<u>1</u>
b. No. informational news articles	<u>6</u>
c. No. bulletins (soil conservation) distributed	<u>280</u>
d. No. radio programs (soil conservation)	<u>2</u>
Soil Conservation programs with 4-H Clubs	<u>23</u>
No. contestants 4-H soil conservation contest	<u>1</u>
No. demonstrations to establish farm drainage	<u>1</u>
A. No. acres drained	<u>30</u>
No. demonstrations maintenance drainage ditches	<u>0</u>
No. demonstrations establish cover of summer or winter annual or perennials for soil conservation.	
No. method demonstrations farmer-built terraces	<u>0</u>
a. Attendance	<u>0</u>

No. method demonstrations terrace maintenance	<u>0</u>
a. Attendance	<u>0</u>
No. organized communities in county for Soil Conservation	<u>4</u>
a. No. farms in these communities	<u>80</u>

Soil Conservation Activities in Counties
Soil Conservation Districts, or Otherwise

No. farmers or farmer-contractors who have built terraces with farm equipment.	<u>100</u>
a. No. acres terraced with this equipment	<u>1,000</u>
b. No. farms on which this work was done	<u>100</u>
No. blade-type or patrol-type terracing outfits in county	<u>5</u>
a. No. acres terraced by these outfits	<u>23000</u>
b. No. farms this work done	<u>200</u>
No. terrace planning and line running schools held	<u>0</u>
a. No. persons trained to run terrace lines	<u>0</u>
No. of district or county-owned draglines operating in county	<u>3</u>
No. draglines operated by contractors in county	<u>0</u>
a. No. miles drainage canals cut	<u>0</u>
b. Acres drained	<u>0</u>
c. Different farms affected	<u>0</u>
No. farms on which tile drainage was established	<u>0</u>
a. No. feet tile drainage established on these farms	<u>0</u>

Soil Conservation District Operations

No. soil conservation district farms	<u>120</u>
a. Total acres in these farms	<u>15,600</u>
Total number soil conservation district farm plans in county	<u>768</u>
Total acres in these farms	<u>115,100</u>

General Barns: Cost records were obtained on one general barn. A summary of this record follows:

Cost Record on General Barn, 1948

Name	Material	Size	Cost
B. R. Meek	Wood	40 x 40	\$2,150.00
Total			\$ 2,150.00

Silos: Cost records were obtained on two silos constructed in the county according to plans furnished by the extension service.

Cost Record on Upright Silo, 1948

Name	Capacity Cubic Feet	Capacity Tons	Cost	Cost per Ton	
T. J. Caldwell	1,530	30	\$123.70	\$4.12	
Clarence Boyd	3,570	70	750.00	10.70	
Total		5,100	100	\$873.70	\$14.82

Milking Barn: Following is a summary of Grade A milking barn built this year.

Cost Records on Dairy Barns

Name	Address	Material	Size	No. cows	Cost
Campbell Wells	Clover	Concrete block	30 x 40	16	\$1200.00
H. J. Currence	Clover	Cement blocks	50 x 21	10	\$ 3000.00

Rural Electrification

Construction of power lines continues to be slow due to the shortage of materials and labor.

Following is summary of lines in the county that were constructed by R.E.A. and Duke Power Company.

Summary of Rural Electrification Work in York County

Communities	Miles of Line in County	Total Farms Electrified	Miles line Built in 1948	Farms Electrified in 1948
23	494.14	1842	105	506
<u>Duke Power Company</u>				
County	191.73	628	9.73	55
Total	\$685.87	2470	114.73	561

Electrical Equipment: Electrical equipment of all descriptions is being used on farms in York County. Four poultry dressing plants are located in this county. The turkey dressing plants located at Sharon and Clover are the largest in the state.

Septic Tank: A septic tank at the county prison camp was constructed according to plans furnished by the county agent.

Farm Machinery

Combine Meeting: One county wide combine meeting was held this summer to give farmers instructions on maintenance, repair and adjustments of their combines. Owners of all combine dealers in the county were invited to participate in the meeting. Oil Company representatives attended and discussed lubrication.

Tractor Maintenance Meeting: One tractor maintenance meeting was held with seventy-one farmers present. Instructions on keeping the tractor in good running condition was discussed by Extension Agriculture engineer. All tractor dealers in county were invited to participate in meeting. Oil companies' representatives attended and discussed lubrication of tractors.

Irrigation: Three irrigation systems were used in county this year and much interest is being shown in this practice. Several systems will be installed next year. Jim Cloniger, York, was well pleased with his irrigation of alfalfa this summer that he purchased another outfit and has constructed another fish pond to supply water to other parts of his farm.

Ditch Blasting Demonstration: One dynamite ditch blasting demonstration was conducted on the farm of W. H. Stowe, in the Bethel community, with 23 farmers in attendance. A ditch 210 feet long, three feet deep and six feet wide was blown for a total cost of \$36.25.

AGRONOMY

Agronomy work in 1948 consisted of demonstrations and educational work with each of the major agronomy projects. Summaries and results of demonstrations are listed according to the outline in program planning.

Winter Grazing Tour: One winter grazing tour was held during the year in the county with 105 farmers on the tour where they saw several small grain and crimson clover winter grazing demonstrations, two fescue demonstrations growing under average farm conditions. More grazing crops are being grown for livestock feed and farmers who made the tour saw excellent demonstrations of low priced feeds that can be produced on most of our soils.

Pasture Tours: On August 23 nineteen farmers and agricultural workers accompanied the county agent on a tour of permanent pastures in Anderson county. First hand information was obtained on establishing permanent pastures with the usual grasses and also fescue and Ladino clover. Several excellent permanent pastures of summer grasses and winter grasses were observed. One stop was made where gravity irrigation was being used on permanent pasture.

Cotton

Five-Acre Cotton Improvement Demonstrations: Twenty-eight York County farmers complete their five-acre cotton improvement contest demonstration in 1948, and submitted records. A summary of these demonstrations follows:

Summary Results Five-Acre Cotton Improvement Demonstrations

Name	Lbs. Seed Cotton	Lbs. Lint Cotton	Value Crop	Cost Prod.	Net Profit	Lint Cost Per Lb.	Per Cent Lint	Variety
J. H. Patrick	9200	3312	\$1,235.48	\$511.95	\$ 724.53	12.1	36	Cokers 100
W. C. Blair	9660	3478	1,298.42	563.51	734.91	16.2	36	Cokers 100
W. C. Blair	9595	3454	1,289.51	619.36	670.15	18.0	36	Cokers 100
Onward Smart	10715	3857	1,439.98	600.05	839.93	16.1	36	Cokers 100
W. H. Spencer	88790	3164	1,181.26	470.50	710.76	14.9	36	Cokers 100
Joe Inman	11035	3975	1,483.80	655.24	828.56	18.1	36	Cokers 100
J. L. Roach	9920	3570	1,352.90	507.25	825.65	14.5	36	Cokers 100
Maggie Query	9080	3269	1,220.41	497.94	722.47	15.2	36	Cokers 100
J. L. Whisonant	10025	3609	1,347.36	509.60	837.76	14.1	36	Cokers 100
Perry W. Aycock	8125	2925	1,092.00	472.72	619.28	16.2	36	Cokers 100
Charlie Ervin	7535	2713	1,012.82	411.58	601.24	15.2	36	Cokers 100
Charlie Ervin	9450	3402	1,270.08	504.36	765.72	14.8	36	Cokers 100
J. J. Dunlap	9380	3377	1,259.73	482.49	777.24	14.3	36	Cokers 100
J. O. Dunlap	5695	2050	765.35	306.46	458.89	15.0	36	Cokers 100
S. P. Parks	9265	3335	1,245.10	491.55	753.55	14.7	36	Cokers 100
Dave Cameron	8985	3234	1,207.41	419.35	788.06	13.0	36	Cokers 100
Roy McCombs	8175	2943	1,098.72	651.82	536.90	19.0	36	Cokers 100
W. M. Blackwelder	12860	4630	1,720.75	675.84	1044.91	14.6	36	Cokers 100
J. E. Brandon	10455	3763	1,404.92	507.17	897.75	13.4	36	Cokers 100
S. L. Downing	8185	2946	1,099.89	383.49	716.40	12.6	36	Cokers 100
H. J. Harshaw	9450	3402	1,270.08	482.40	787.68	14.5	36	Cokers 100
Tom Mitchell	9550	3438	1,283.52	508.82	774.70	14.8	36	Cokers 100
Booster Hicks	7565	2723	1,016.62	440.09	576.53	16.2	36	Cokers 100
Clifton R. Fields	10725	3861	1,441.44	578.08	863.36	15.0	36	Cokers 100
A. L. Burks	8085	2911	1,086.74	475.78	610.96	16.3	36	Cokers 100
Robert W. Bratton	10,760	3874	1,446.26	547.06	899.20	14.3	36	Cokers 100
Hiram Lister	5930	2134	796.76	403.47	393.29	18.8	36	Cokers 100
W. A. Latham, Jr.	8805	3169	1,183.16	495.42	687.74	15.6	36	Cokers 100
TOTALS	256,990	92,518	\$34,551.47	\$14,083.35	\$20,448.46	427.5		

AVERAGE YIELD LINT PER ACRE - 660.8 lbs.

AVERAGE PERCENT LINT 36%

AVERAGE VALUE PER ACRE - \$246.79

AVERAGE COST PER POUND 15.20¢

Summary Cotton Contest Demonstration Records 1934 - 1948: Following is yearly summary of the results of the five-acre cotton contest demonstrations in York County for the period 1934 - 1948.

Summary Results of Cotton Contest Demonstration, 1934 - 1948

Year	No. Demonstrations	Lbs. Lint Per Acre	Value Per Acre	Cost Per Acre	Profit Per Acre
1934	10	529	\$ 94.58	\$ 33.30	\$ 61.28
1935	15	508	78.50	30.70	44.73
1936	13	817	142.60	35.33	107.27
1937	17	682	77.77	32.18	45.59
1938	15	593	66.75	33.00	33.75
1939	15	792	91.60	37.76	53.84
1940	13	898	108.00	41.82	66.18
1941	9	589	129.04	38.59	90.44
1942	11	910	202.62	44.78	132.87
1943	14	665	190.75	53.63	137.12
1944	15	721	185.40	60.35	125.07
1945	15	896	234.02	85.99	148.03
1946	14	810	304.78	85.27	219.51
1947	13	647	250.24	84.18	166.06
1948	28	660	246.79	100.59	171.77

The five-acre cotton improvement contest demonstrations have been largely responsible for the improvement in the length of staple produced in York County and the increased yields of lint per acre.

One Variety Cotton Improvement Community: The county wide one variety cotton improvement association was continued in 1948 with practically all ginners posting bonds to draw samples. More samples were sent to Columbia by ginners for free classing service than has been done in several years. Most warehouses are filled with government loan cotton however the majority of the crop was sold as ginned.

Permanent Pasture Demonstrations

Permanent Pastures: A campaign for planting permanent pastures in York County met with considerable success as the largest acreage of permanent pasture ever seeded in one year was seeded in 1948. More interest is being manifested in permanent pastures than ever before.

A total of 48 farmers were aided in establishing 548 acres of pastures in 1948.

Two result demonstrations were conducted, a summary of which follows:

Summary Permanent Pasture Demonstrations

Name	Acres	No. Animals Units Grazed	Fertilizer Used	Grasses Seeded	Date Grazing Started & Ended
Duncan Bros.	6	12	Superphosphate Soda	Bermuda Dallas White Dutch Lespedeza Clover	Mar. 6, 1948 Oct. 1, 1948
W.H. Spencer	25	25	Phosphate Lime Soda	Rye Grass Bermuda Crimson Clover Dallas White Dutch Lespedeza	Mar. 15, 1948 Oct. 5, 1948

Fescue & Clover: Two fescue and clover demonstrations were conducted in 1948. A large acreage of fescue and ladino or White Dutch Clover has been seeded in 1948. Ted Lewis of the Delphas community has seeded 150 acres of fescue and ladino clover this fall as a result of a four acre demonstration reported in the following summary:

Summary Fescue and Clover Permanent Winter
Pasture Demonstrations

Name	Acres	No. Animal units grazed	Fert. used	Grasses seeded	Date grazing Started & Ended
Ted Lewis	4	8	700# 3-12-6	Fescue Ladino clover	Dec. 15, 1947 Nov. 5, 1948
B.R. Meek	4	10	500# 4-10-6 500# 3-9-9 100# soda 150# amm. nit.	Fescue White Dutch	Nov. 15, 1947 June 5, 1948

Corn Production

Hybrid corn is fast taking the place of standard varieties and production per acre as a whole is increasing in the county due to this and higher fertilization practices and closer spacing. Following is summary of corn production demonstrations.

Summary Corn Production Demonstrations

Name	Acres	Yield Bushels	Bushels Per Acre	Cost Prod.	Cost Per Bu.	Value Crop	Profit
John Benfield	7	560	88.7	\$ 259.40	.45	\$112.00	\$860.60
White Oak Farms	3	227	76	171.30	.75	454.00	282.70
White Oak Farms	3	237	79	175.20	.74	474.00	298.80
Bill Thompson	1	60	60	18.50	.30	120.00	101.50
Total	14	1084	77	624.40	.56	\$2,168.00	\$1,543.60

Average per Acre 77

It is seen that these farmers produced an average of 77 bushels of corn per acre by following improved practices.

High Nitrogen Fertilization Demonstrations: Two demonstrations in high nitrogen fertilization and close spacing was conducted in 1948.

Summary Upland High Nitrogen Corn Fertilization Demonstrations

Name	Acres	Complete Fert.	Nitrogen Fert.	Row Width	Spacing	Yield Acre	
1. 1. White Oak Farm	1	300#	3-9-9	100	3.5	16 in.	61.5
2. White Oak Farm	1	400#	3-9-9	400	3.5	16 in.	79
3. White Oak Farm	1	600#	3-9-9	600	3.5	12 in.	87

Summary Bottom Land High Nitrogen Corn Fertilization Demonstration

Name	Acres	Complete Fert.	Nitrogen Fert.	Row width	Spacing	Yield Acre	
1. White Oak Farm	1	300#	3-9-9	100	3.5	16 in.	44.0
2. White Oak Farm	1	400#	3-9-9	400	3.5	16 in.	90.7
3. White Oak Farm	1	600#	3-9-9	600	3.5	12 in.	103.0

It is noted that these two demonstrations produced an average yield of 95 bushels of corn per acre when 600 pounds of nitrogen fertilizer was used with close spacing and hybrid corn. This is more than five times the county average yield per acre. A field meeting with 23 farmers present was held on August 19 to observe results of the above high nitrogen fertilization demonstrations.

Small Grains

Oats Production: Two demonstrations in the production of oats were completed, a summary of which follows:

Summary of Oats Demonstrations

Name	Variety	Acres	Yield	Yield Bu. per acre	Cost	Cost per Bushel	Value	Profit
E.W. Smith	Cokers	20	1500	75	\$749.25	.49	\$165.00	\$900.75
	Fulgrain							
P.W. Aycok	Cokers	5	350	70	221.17	.63	385.00	163.83
	Fulgrain							
Totals		25	1850		\$970.42		\$2035.00	\$1064.58
Average per acre				78	38.82	.52	81.32	40.58

These demonstrations show an average yield of 78 bushels per acre, as a result of improved methods. The cost per bushel was .52¢ and valued at \$1.10 per bushel. These demonstrations returned a profit of \$42.50 per acre to the growers.

Wheat Production: Three demonstrations in wheat production were completed in 1948. A summary of these demonstrations follows:

Summary of Wheat Demonstrations

Name	Variety	Acres	Yield Bu.	Yield Bu. per acre	Cost Prod.	Cost Per Bu.	Value	Profit
Dave Cameron	Cokers Hardired	25	800	32	\$531.50	.66	\$1840.00	\$1308.50
W.C. Blair	" "	10	330	33	256.20	.71	759.00	502.80
Duncan Bros	" "	12	394	32.8	343.60	.87	906.20	562.60

The record shows that farmers conducting wheat demonstrations made an average yield of 32.6 bushels per acre. This wheat was produced at a cost of .75¢ per bushel, and at a value of \$2.30 per bushel, yielded an average profit of \$50.50 per acre.

Annual Grazing Crops

Annual Grazing Crops: Three annual grazing demonstrations were conducted with small grain, Italian Rye, and Crimson Clover. These crops furnished grazing during the winter and early spring when permanent pastures were not available and thereby replaced legume hay in the ration of cattle.

Summary of Winter Grazing Crops Demonstrations

Name	Acres	Crop	No. animals units grazed	Total days Grazed	Cost
		Oats, Rye			
D.G. Lesslie	18	Crimson Clover	35	207	\$661.70
S.L. Faulkner	16	Oats & Barley	53	136	388.00
Ted Lewis	15	Oats & barley	75	80	983.50
		Rye & Crimson Clover			
Totals	43		163	423	\$2033.20
Averages	14		53	141	

The three demonstrations conducted shows that the demonstrators grazed their 43 acres an average of 141 days and averaged 53 head on 14 acres.

Legumes for Hay

Lespedeza for Hay Production: Three demonstrations of lespedeza for hay production were completed in 1948. A summary of these demonstrations follows:

Summary of Demonstrations of Lespedeza for Hay Production

Name	Variety	Acres	Yield Tons	Cost Prod.	Cost per Ton	Value Crop	Profit
D.G. Lesslie	Kobe	6	6.4	\$83.00	\$12.80	\$260.00	\$177.00
Duncan Bros.	Korean	6	9	114.30	12.70	360.00	245.70
Hood Bros.	Kobe						
	& Korean	20	30	197.50	6.58	1200.00	1002.50
Totals		32	45.4	394.80		1820.00	1425.20
Averages			1.4 per acre		7.04 per acre		44.54 per acre

Summary of Alfalfa Hay Demonstrations

Name	Acres	Yield tons	Cost Prod.	Cost per ton	Value Crop	Profit
Monroe Sturgis	5	15	\$420.00	\$28.00	\$600.00	\$180.00
A.A. Ashe	4	6	226.35	37.72	240.00	13.65
Campbell Wells	2.5	5	173.00	34.60	250.00	77.00
Totals	11.5	26	819.35		\$1090.00	\$270.65
Average per acre		2.2		\$31.51		10.40

This summary shows that the average yield of alfalfa on these demonstrations was 2.2 tons per acre produced at cost of \$31.51 per ton. Valued at \$50 per ton this crop yielded these farmers at profit of \$10.40 per acre.

Fescue for Seed: One fescue for seed production demonstration was conducted in 1948. A summary of results follows:

Summary Fescue for Seed Demonstration

Name	Acres	Variety	Pounds Seed	Pounds per acre
L. S. Lindler	3	Kentucky 31	300	100

Dixie Crimson Clover for Seed: One demonstration in seed production with Dixie Crimson Clover was conducted. A summary of results follows:

Summary Dixie Crimson Clover for Seed Demonstration

Name	Acres	Variety	Pounds Seed	Pounds Seed per Acre.
Duncan Bros.	10	Dixie	2,000	200

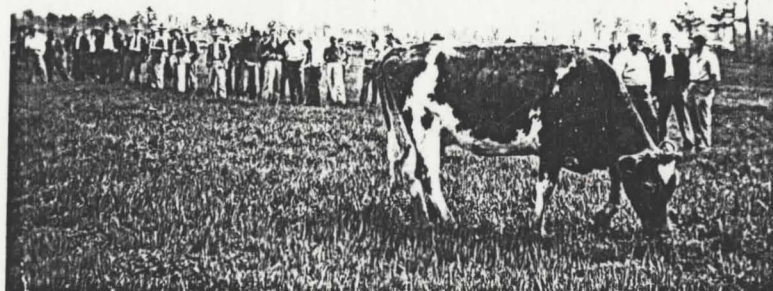
Milo for Seed

Milo: Two demonstrations of milo for seed were conducted in 1948. Harvesting of the seed in each case was accomplished by combine. A summary of these demonstrations follows:

Summary of Milo for Seed Demonstrations

Name	Variety	Acres	Yield Bu.	Bushels per Acre.	Cost	Cost per bushel	Value	Profit
Hood Bros.	Martins	7	225	32	\$92.85	.41	\$787.50	\$ 694.65
Land Bros.	Martins	200	400	20	\$228.00	.72	1400.00	1112.00
Total		27	625		\$320.85		\$ 2187.50	\$ 1806.65
Average				23		.51	81.02	66.91

This record shows that demonstrators made an average yield of 23 bushels per acre with a value of \$81.02 and a profit of \$66.91 per acre. The cost per bushel was .51 cents.



Annual Grazing Crop - Barley and Crimson Clover
on
Duncan Brothers Farm, Sharon, S. C.



Fescue for Grazing in York County
on
Ted Lewis Farm, York, S. C.

ANIMAL HUSBANDRY

Animal Husbandry extension work in York County in 1948 consisted of work with beef cattle and hogs. Interest in purebred beef cattle is increasing rapidly and many head of good cattle have been brought into the county during the year with county agent assisting in purchasing some of these.

Swine

Work with swine in 1948 has been chiefly with 4-H club members who were encouraged to purchase good pigs for their projects wherever practical. The hogs were used at home and sold on local markets which is ample to take care of local production.

Purebred Gilts: Two purebred gilts were placed with 4-H club members in 1948. A record of these placings is given as follows:

Summary Purebred Gilts Placed

Name	No. Gilts	Breed	Age	Cost
Luther Wilson	1	Berkshire	10 weeks	\$10.00
William Mercer	1	Berkshire	10 weeks	\$15.00
Total	2			\$25.00

Following is record of the placing of purebred gilts by years in county since 1938.

Summary Placings of Purebred Gilts 1938 - 1948

Year	Number Placed
1938	10
1939	10
1940	12
1941	10
1942	12
1943	18
1944	5
1945	5
1946	7
1947	8
1948	2

Beef Cattle

Beef cattle work in 1948 consisted of the placing of purebred sires and purebred dams and grade cows and heifers.

Purebred Sires Placed: Two purebred beef bulls were placed with farmers in 1948. One of these was purchased at an auction sale in Jonesboro, Tennessee, which was attended by the county agent and four farmers from this county. A summary of these placings follows:

Summary Beef Bulls Placed in 1948

Name	No. bulls Placed	Breed	Age	Price
C. P. Whitesides	1	Angus	6 months	\$375.00
Ted Lewis	1	Angus	3 years	\$300.00
	2			\$ 675.00

Following is record of beef heifers placed in 1948.

Summary Beef Heifers Placed in 1948

Name	No. Heifers	Breed	Age	Price
Charles P. Whitesides	7	Angus	12 months	\$1900.00

Four-H Beef Calf Club Work: One 4-H club girl was enrolled in major 4-H beef calf club work in 1948. The calf was shown at the York County Livestock Show where it was placed in the good grade group and was sold at public auction.

Summary Beef Calf Club Records

Name	No. Animals	Days Fed	Gain in Weight	Total Value	Total Cost	Profit
Jo Ann Maloney	1	180	200	\$211.00	\$86.00	\$125.00

DAIRYING

Extension work in dairying for 1948 included educational demonstration work in placing purebred heifers, Artificial Breeding Program, growing and curing quality roughage, silage production, annual grazing crops, permanent pastures, construction of dairy buildings and use of dairy equipment, marketing, and milk production.

Purebred Bulls Placed: The placing of purebred bulls was not pushed due to the Artificial Breeding Program in this county. Following is summary of purebred bulls placed in county in 1948.

Summary Purebred Bulls Placed in 1948

Name	No. animals	Breed	Age	Price
B. M. Sturgis	1	Guernsey	6 months	\$425.00

Purebred Heifers Placed: Following is summary of purebred heifers placed in 1948.

Summary Purebred Heifers Placed in 1948

Name	Number Animals	Breed	Age	Price
Bobby Williamson	1	Guernsey	6 months	\$100.00
Jimmie Nunn	1	Guernsey	5 months	60.00
Jo Anne Jones	1	Guernsey	7 months	140.00
Edward Williamson	1	Guernsey	3 months	80.00
Jimmie Branch	1	Guernsey	6 months	250.00
David Campbell	1	Guernsey	6 months	230.00
Total	6			\$860.00

Growing and Curing Quality Roughage

Growing Hay: Demonstrations in hay production are reported under agronomy section of this report.

Silage Production

Several new silos were constructed during the year with farmers showing a new interest in silage production. Cost records are reported under Agricultural Engineering section of this report.

Two demonstrations were conducted with dairymen in the production of silage. A summary of these records follows:

Summary Silage Production Demonstrations

Name	Crop	Acres	Yield Tons	Yield tons per acre	Cost	Cost per Ton
Clarence Senn	Corn	18	70	3.9	\$552.00	\$7.89
	Soybeans					
J. H. Hawkins	Corn	17	90	5.5	1350.00	6.06
	Soybeans					
Total		35	160		\$1,902.00	
Average				4.5		11.88

Annual Grazing Crops

Annual Grazing Crops: This project is reported under agronomy section of this report.

Permanent Pasture Demonstrations

Permanent Pasture Demonstrations: Two permanent pasture demonstrations were completed in 1948 and are reported under the agronomy section of this report.

Fescue and Clover Demonstrations

Fescue and Clover Demonstrations: Two demonstrations in fescue and clover were completed in 1948 and are reported under the agronomy section of this report.

Dairy Buildings and Equipment

The dairy specialists have cooperated closely with the county agents in educational work, and the furnishing and adapting of plans for dairy barns and milk houses. Results of this work are reported under the agricultural engineering section of this report.

4-H Dairy Calf Club Work

Work with the county wide dairy calf club has consisted of meetings, dairy judging teams, and shows at the county and state fairs. Special efforts are being placed on the raising of pure-bred dairy heifers to supply the demand for cows in the county and this organized club is the most effective means of creating interest.

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

Summary Dairy Calf Club Demonstrations (Registered)

Name	Number Animals	Receipts and		Profit
		Increases in Value	Expenses	
Jerry McGuire	1	\$150.00	\$ 95.00	\$ 55.00
Betty Hope	2	732.00	536.85	195.15
Alice McCarter	1	225.00	209.85	15.15
Joe Anne Jones	1	200.00	155.50	44.50
Richard Meek	1	170.00	144.50	25.50
Jimmie Nunn	1	200.00	85.75	114.25
Ann Hope	1	807.00	560.50	246.50
Jimmie Branch	1	300.00	250.00	50.00
Leonard McCarter	2	300.00	225.00	75.00
Louis Sweatt	2	824.01	339.60	484.41
Sammy Hopkins	2	470.90	323.00	147.90
Joe Jackson	2	448.57	396.39	52.18
Donald Rollins	2	322.74	396.39	73.65
Ervin Faulkenberry	1	594.79	229.03	365.76
Vernon Carroll	1	215.00	184.00	31.00
Billy Sweatt	1	215.00	173.00	42.00
Josephine Love	1	200.00	100.00	100.00
Sarah Love	1	250.00	200.00	50.00
Bobby Sturgis	7	4,305.00	3,570.00	735.00
Billy Sturgis	5	3,080.00	2,400.00	680.00
Bobby Williamson	1	200.00	147.85	52.15
Edward Williamson	1	210.00	129.80	80.20
John H. Williams	1	210.00	138.15	71.85
Gene McDaniel	1	215.00	173.35	41.65
Billy Nelson	1	229.00	187.00	42.00
Richard Black	1	200.00	125.00	75.00

Name	Number Animals	Receipts and Increases		Profit
		in Value	Expenses	
John R. Neely	1	\$225.00	\$190.00	\$ 35.00
David M. Campbell	1	100.00	85.00	15.00
Perry McGuire	1	125.00	105.50	20.00
William Kimbrell	1	225.00	125.00	100.00
Rupbert Kimbrell	1	250.00	175.00	75.00
Billy Feemster	1	150.00	125.00	25.00
Jean Feemster	1	200.00	125.00	75.00
Total	49	\$16,549.01	\$12,405.51	\$4,143.50

This summary for the 33 members shows an increase of 27 animals during the year, and receipts and increases in value of \$4,143.50 for the 33 members, or an average profit of \$125.56 per member.

Twenty-six of these animals were shown at the York County Fair, where they competed in the open classes, winning seven first places, six 2nd places, and five third places. Prizes amounted to \$276.00 were won in the open class and \$133.00 in the junior department.

In addition, four animals were shown at the State Fair, winning a total of \$36.25 in the 4-H Club classes.

Artificial Insemination Association Work: The York County Artificial Insemination Association has required much time from the County Agent and the work is progressing with a larger number of cows being bred artificially each month than at this time last year. Eight hundred and eighty-seven cows were bred artificially for two hundred and ten York County farmers during 1948.

ENTOMOLOGY AND PLANT PATHOLOGY

Extension work in entomology and plant pathology in 1948 consisted of work with crop diseases, crop insects, rat control campaigns and county wide DDT program.

2-4D Weed Killer: The use of 2-4D weed killer was used on small grain and corn by the county agent and several farmers applied 2-4D under the direction of the county agent. Good results were reported in all cases.

Peach Tree Insects and Diseases: The use of new poisons required considerable time in advising peach growers as to its use and methods of application. Only approximately 15% of a normal peach crop was produced in 1948 due to cold weather killing 85% of the crop in late spring. Those growers who had peaches did a good job of spraying and as a result had as a whole clean fruit to put on the market.

Garden Insects and Diseases: Newspaper articles, radio, and circular letters were used to advise farmers of the control of garden insects and diseases. New poisons were used this year and farmers and city gardeners were advised as to its use.

Insects and Rodents

Boll Weevil Control: A campaign on the use of new poisons such as Benzine Hexachloride, Toxaphine, and chlordane was conducted in 1948. Semi-monthly circular letters were mailed to agricultural workers, insecticide dealers, spray machine dealers, county agricultural committee members and leading farmers during the growing season. One county wide meeting of above mentioned interested people was held at the beginning of the cotton season and plans made to conduct an extensive campaign to get more cotton in York County poisoned.

Dusting machines were secured in several communities and the county agent gave assistance and advice as to the best dusting machine to purchase for custom and individual dusting.

Five cotton fields were checked weekly for boll weevil infestation and the cotton producers informed weekly as to infestation through newspapers radio, circular letters and personal contact.

As a result of this campaign the largest acreage of cotton was poisoned in 1948 in York County than has been poisoned since the first appearance of the boll weevil.

Rat Control Campaign: A rat control campaign was conducted on February 6 with 2,000 pounds of red squill poison bait being distributed to 650 farmers over the county. This campaign was conducted in cooperation with vocational agricultural teachers and the U. S. Department of the Interior Fish and Wildlife Service. Reports from farmers using the poison were excellent in practically all cases.

DDT Campaign: A campaign to get farmers and others to use DDT to control flies and other insects was conducted in July for farm people at the same time the cities in the county were spraying DDT as a precautionary measure against polio. The county delegation purchased DDT solution for free distribution to farmers in the county and twenty-six distribution points were set up by the county agent and instructions in the use of DDT on the farm were furnished by this office to each person using DDT in this campaign.

FORESTRY

Extension work in forestry in 1948 consisted mainly of planting demonstrations, woodland examinations and marking, selective cutting and thinning, marketing pulpwood and timber and fire protection.

Planting Demonstrations: One planting demonstration was conducted during the year at Hickory Grove high school on Dec. 16 with ten attending. A community order of pine seedlings was made and delivered to the farmers placing orders at the demonstration. York County farmers planted 190,500 pine seedlings in 1948. Following is a summary of pine seedlings planted in York County in 1948.

Summary of Loblolly Pine Seedlings Planted in 1948

Name	Kind Planted	Number
W. H. Belk, Jr.	Loblolly	1,000
Olin Brandon	Loblolly	5,000
Robert Buice	Loblolly	1,000
Joe Caldwell	Loblolly	3,000
Lee Caldwell	Loblolly	2,000
A. Y. Cartwright, Jr.	Loblolly	5,000
Catawba Indian Lands	Loblolly	5,000
Catawba Indian Lands	Loblolly	5,000
Catawba Indian Lands	Loblolly	5,000
Catawba Indian Lands	Loblolly	5,000
Duke Power Company	Loblolly	40,000
Duncan Brothers	Loblolly	5,000
G. C. Epps	Longleaf	1,000
C. H. Eury	Loblolly	5,000
J. E. Gilfilen	Loblolly	2,000
E. P. Glasscock	Loblolly	5,000
Joseph Herndon	Loblolly	1,000
R. D. Howell	Loblolly	1,000
E. R. Huey	Loblolly	5,000
George Jackson	Loblolly	2,000
Wilson R. Jones	Loblolly	2,000
J. D. Lesslie	Loblolly	5,000
W. H. Martin	Loblolly	3,000
Buford R. Meek	Loblolly	2,000
Earl T. Merritt	Loblolly	2,000
Hood Mitchell	Loblolly	2,000
J. T. Mitchell	Loblolly	1,000
J. T. Mitchell	Loblolly	1,000
John Moffatt	Loblolly	1,000
Mrs. F. E. Moore	Loblolly	5,000
Ed Moss	Loblolly	2,000

Name	Kind Planted	Number
M. O. Petty	Slash	5,000
E. C. Pickens	Loblolly	4,000
Paul C. Harper	Loblolly	5,000
Dr. G. H. Settle	Loblolly	1,000
Eugene Shillinglaw	Loblolly	5,000
A. W. Smarr	Loblolly	1,000
E. W. Smith	Loblolly	5,000
Henry Stegall	Loblolly	2,000
J. Forest Smith	Loblolly	3,000
F. B. Stevenson	Loblolly	2,000
W. P. Thompson	Loblolly	10,000
Melvin White	Loblolly	1,000
J. A. Whitesides	Loblolly	2,000
W. R. Wiley	Loblolly	500
W. B. Wilkerson, Jr.	Loblolly	5,000
C. Edgar Williams	Loblolly	4,000
		190,000

Woodland Examination and Marking: Requests of this nature were referred to the forestry specialist who assisted in all cases. Following is a list of the farms visited and work done.

Landowner	No. Acres Examined	No. Acres Marked	Bd. Ft. Marked
W. C. Beaty	115		
S. T. Ferguson	250		
J. H. & I. F. Ford	142		
Vernon O. Grant	117		
D. G. Lesslie	200	25	56,240
H. H. McCarter	123		
Wm. S. Patterson	82		
Nicholas P. Poulas	120		
C. W. Senn	20		
J. E. Smith	123		
B. M. Sturgis	20		
W. L. Thomason	100		
James C. Wilkerson	125	90	127,980
V. E. Wilson	85		
D. C. Wood	32		
H. D. Yerkers	30		
Total	1,684	115	184,220

Fire Protection Program: Newspapers and radio were used to warn farmers against forest fires during the dangerous periods. The State Forestry Commission has a county forest ranger in this county and voluntary fire fighter crews have been organized to combat forest fires. Two fire observation towers have been erected.

4-H Club Work: Forestry programs were conducted at all 4-H clubs during the year and motion pictures were shown on forestry work.

Forestry Pictures: Motion pictures were shown at twenty-one meetings with 695 4-H club members and others in attendance.

FOUR-H CLUB WORK

Boys 4-H Club work was conducted in 23 communities in York County in 1948 with an enrollment of 362 farm boys. A local leader was in charge of each club and regular monthly meetings were held with each club.

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

Summary 4-H Club Enrollment and Completions

Name of Club	No. members Enrolled	No. Completed Demonstrations	Percent members com- pleting demonstrations
Bethany	12	9	75
Bethel	24	21	87
Catawba	9	8	88
Catawba Indian	5	3	60
Clover	19	17	89
Cotton Belt	14	12	85
Hickory Grove Gr.	12	7	58
Hickory Grove High	20	15	75
India Hook	4	4	100
Lesslie	25	20	80
McConnellsville	19	12	63
Mt. Holly	27	16	59
Newport	12	9	75
Oak Ridge	8	6	75
Ogden	8	8	100
Riverview	13	9	69
Rock Hill High	10	7	70
Roddey	16	12	75
Santiago	3	3	100
Sharon High	18	9	50
Smyrna	7	1	14
York Grammar	17	9	53
York High	16	13	82
Beef Calf Club	7	7	100
Dairy Calf Club	37	33	96
Total	362	270	74%

Following is given a summary of 4-H club enrollment of boys, and yearly completions from 1940 - 1948.

Summary 4-H Club Enrollment and Completions 1940 -1948

Year	Enrollment	Completions	Per Cent Completions
1940	189	65	34
1941	157	63	65
1942	190	113	59.5
1943	228	119	52
1944	227	132	58
1945	230	171	74
1946	292	224	77
1947	358	277	79
1948	362	270	74
Totals	2233	1434	63.6

Summary 4-H Club Demonstrations: Following is summary of 4-H Club demonstrations completed in 1948.

Summary Completed Demonstrations - 1948

Demonstration	No. Completed	Value		Profit
		Products	Cost	
Corn	35	\$2620.00	\$1385.80	\$1234.20
Cotton	11	4460.05	1941.67	2518.38
Peanut	1	25.00	18.00	7.00
Poultry	64	4725.69	3455.26	1270.43
Pig - Fattening	75	4143.23	2657.22	1486.01
Beef Cattle	11	1324.50	847.00	477.50
Dairy Calf	55	19594.01	14395.46	5198.55
Sweet Potato	2	128.50	60.20	68.30
Garden	12	355.75	178.75	177.00
Bee Keeping	1	70.00	22.35	47.65
Pig Sow & Litter	2	146.00	47.00	99.00
Barley	1	75.76	26.55	49.21
Totals	270	\$37,668.49	\$25,035.26	\$12,633.23

This summary shows that 4-H club boys completed 270 demonstrations, with a total value of \$37,668.49 at a cost of \$25,035.26 leaving a profit of \$12,633.23.

Summary 4-H Corn Records

Name	No. Acres	Yield Bushels	Total Value	Total Cost	Profit
Buster Jackson	2	40	\$ 80.00	\$ 28.50	\$ 51.50
Tommy Crawford	1	30	60.00	35.10	24.90
Bobby Ratteree	1	25	50.00	28.00	22.00
Thomas Green	$\frac{1}{2}$	15	30.00	8.70	21.30
William Love	$\frac{1}{2}$	15	30.00	9.40	20.60
Lewis Burns	1	15	30.00	12.40	17.60
Leonard Wiley	1	17	34.00	25.95	8.05
Ray Barnes	1	25	50.00	25.10	24.90
Jimmy Miller	$\frac{1}{2}$	20	40.00	15.35	24.65
Joe Glenn	1	20	40.00	23.85	16.15
Billy Boozer	1	25	50.00	20.25	29.75
Reginald Johnson	1	28	56.00	23.90	32.10
Richard Ford	1	30	60.00	24.10	35.90
Jimmie Glenn	1	20	40.00	17.40	22.60
Dewitt Marr	1	25	50.00	22.50	27.50
George Harper	1	20	40.00	22.15	17.85
Kenneth Jenkins	5	125	250.00	110.75	139.25
Jimmy Ross	1	25	50.00	23.00	27.00
Milton Ross	1	23	46.00	21.50	24.50
James Hudson	1	25	50.00	25.00	25.00
Gray Burgess	2	80	160.00	83.00	77.00
Frances Gardner	$2\frac{1}{2}$	55	110.00	61.00	49.00
Joe Elmore	3	90	180.00	120.00	60.00
John Harshaw	3	100	200.00	67.00	133.00
Ernest H. Foster	$\frac{1}{2}$	10	20.00	16.40	3.60
States McCarter	1	20	40.00	28.00	12.00
Roy Gryder, Jr.	1	30	60.00	37.50	22.50
Johnny Polk	7	140	280.00	153.00	127.00
Rufus Cameron	1	17	34.00	22.00	12.00
Joe Lee Sexton	1	26	52.00	31.00	21.00
Joe Burns	2	44	88.00	61.00	27.00
Max Andrew Meek	1	17	34.00	21.00	13.00
D. D. Armour	$2\frac{1}{2}$	45	90.00	71.00	19.00
Donald Green	3	45	90.00	63.00	27.00
Jack Wilson	1	23	41.00	28.00	18.00
Totals	55	1,310	2,620.00	1,385.80	1,234.20

Summary 4-H Cotton Records

Name of Members	No. Acres	#Seed Cotton	# Lint Cotton	Value	Cost	Profit
Andy McCarter	1	950	350	\$114.50	\$ 41.10	\$ 73.40
Philip Brandon	1 $\frac{1}{2}$	2082	712	265.52	58.37	207.15
Roy Cain	1 $\frac{1}{2}$	1942	675	243.50	69.40	174.10
Carroll Lynn	1 $\frac{1}{2}$	2670	938	344.28	153.35	190.93
James Bailes	1	900	375	120.00	45.00	75.00
Joe Elmore	4	4000	2000	600.00	250.00	350.00
Roy Parker	2	2825	1025	382.00	165.45	216.55
Braxton Biddix	2	2700	920	324.00	180.00	144.00
Eddie Mac McCarter	4	2600	2000	678.00	345.00	333.00
Odell Vinson	6	9450	3325	1181.25	502.00	679.25
Tommy Smith	1	900	600	207.00	132.00	75.00
Totals	25 $\frac{1}{2}$	31,019	12,920	\$4,460.05	\$1,941.67	\$2,518.38

Summary Dairy Calf Club Records

Name of Member	No. Animals	Total Value	Total Cost	Profit
Ray Baker	1	\$125.00	\$ 90.00	\$ 35.00
Knox Spencer, Jr.	1	80.00	58.00	22.00
Jimmy McGuire	1	150.00	95.00	55.00
Betty Hope	2	732.00	536.85	195.15
Alice McCarter	1	225.00	209.85	15.15
Jo Anne Jones	1	200.00	155.50	44.50
Richard Meek	1	170.00	144.50	25.50
James Clark	1	35.00	25.50	9.50
Kenneth Howell	1	125.00	57.50	67.50
Jimmie Nunn	1	200.00	85.75	114.25
Ann Hope	1	807.00	560.50	246.50
Jack Dunn	1	75.00	25.00	50.00
Dan Hill	1	120.00	43.20	76.80
Bobby Milholen	1	75.00	44.00	31.00
Jimmie Branch	1	300.00	250.00	50.00
Fabian Glenn	1	250.00	165.00	85.00
Mason Barnett	1	175.00	100.00	75.00
Richard Greene	1	125.00	85.00	40.00
Leonard McCarter	2	300.00	225.00	75.00
Louis Sweatt	2	824.01	339.60	484.41

Summary Dairy Calf Club Records - contd.

Name of Member	No. Animals	Total Value	Total Cost	Profit
Sammy Hopkins	2	\$ 470.90	\$323.00	\$147.90
Joe Jackson	2	448.57	396.39	52.18
Donald Rollins	2	322.74	396.39	-73.65
Ervin Faulkenberry	1	594.79	229.03	365.75
Vernon Carroll	1	215.00	184.00	31.00
Billy Sweatt	1	215.00	173.00	42.00
Olin G. Stowe	1	250.00	140.00	110.00
Carl B. Harper, Jr.	1	175.00	100.00	75.00
Glenn Oates	1	125.00	90.00	35.00
James A. Goforth	1	100.00	75.00	25.00
Josephine Love	1	200.00	100.00	100.00
Sarah Love	1	250.00	200.00	50.00
Bobby Sturgis	7	4,305.00	3,570.00	735.00
Billy Sturgis	5	3,080.00	2,400.00	680.00
Joe Russell	1	75.00	42.00	33.00
Bobby Williamson	1	200.00	147.81	52.15
Edward Williamson	1	210.00	129.80	80.20
John H. Williams	1	210.00	138.15	71.85
Gene McDaniel	1	215.00	173.35	41.65
Billy Nelson	1	229.00	187.00	42.00
George McGill, Jr.	1	200.00	120.00	80.00
Larry Sifford	1	150.00	110.00	40.00
Jackie Thomas	1	275.00	245.00	30.00
Richard Black	1	200.00	125.00	75.00
Hugh Torrence	1	150.00	106.25	43.75
James Covington	1	75.00	60.00	15.00
John Richard Neely	1	225.00	190.00	35.00
David M. Campbell	1	100.00	85.00	15.00
Perry McGuire	1	125.00	105.00	20.00
William Kimbrell	1	225.00	125.00	100.00
Rupert Kimbrell	1	250.00	175.00	75.00
Billy Feemster	1	150.00	125.00	25.00
Jean Feemster	1	200.00	125.00	75.00
Sam Feemster	1	210.00	160.00	50.00
Gene Garrison	1	75.00	48.50	26.50
Totals	71	\$19,594.01	\$14,395.46	\$5,198.55

Summary 4-H Peanut Club

Name of Member	No. Acres	No. Bushels	Total Value	Total Cost	Profit
Billy Bolin	1	10	\$25.00	\$18.00	\$ 7.00

Summary Poultry Club Records

Name	No. Chickens	Total Value	Total Cost	Profit
Henry Worth Parker	100	\$149.10	\$135.75	\$13.35
Clyde Winn	100	110.30	107.73	2.57
Clyde Dunne	100	187.22	159.20	28.02
Fred Clark	100	169.15	141.05	28.10
Everett Lattimore	25	37.50	18.75	18.75
Joe Howe	25	29.90	14.60	15.30
Leon Moss	25	31.60	15.40	16.20
John H. Latham	50	49.00	39.15	9.85
Richard Bigham	80	92.50	58.00	34.50
John Walden	75	75.00	62.00	13.00
Brice Faile	25	29.90	16.70	13.20
Allen Morris	50	50.65	32.25	18.40
Bobby Rawdon	52	58.50	35.10	23.40
Hazel Jackson	75	68.00	43.15	24.85
Larry Sanders	51	51.00	29.40	21.60
Jimmy Carter	25	29.20	15.20	14.00
Ted Westmoreland	200	216.42	154.92	61.50
Coit McCarter	50	42.35	30.00	12.35
Allen Boyd	50	39.20	28.00	11.20
Donald Howell	25	26.00	12.00	14.00
Bobby Hoffman	50	56.00	31.00	25.00
Billy Branche	75	75.00	45.00	30.00
James Norton	24	31.00	12.00	19.00
Sammie Osborne	25	17.00	9.00	8.00
Teddie Osborne	25	15.50	8.50	7.00
Delano Sullivan	50	46.50	28.50	18.00
Gwynne Faile	50	53.00	25.00	28.00
Dick Grayson	25	33.00	15.00	18.00
John Ballard	50	47.60	27.60	20.00
Franklin Clark	40	42.40	24.80	17.60
George Caveny	50	67.20	37.20	30.00
Jerry Boatwright	25	33.00	20.00	13.00
Thomas Robinson	25	26.25	20.00	6.25
Bonnie Watts	25	34.50	18.00	16.50
Billy Craig	410	410.00	336.00	74.00

Summary Poultry Club Records - contd.

Name of Member	No. Chickens	Total Value	Total Cost	Profit
Kenneth Montgomery	100	\$122.55	\$ 96.50	\$ 74.00
Harold Smith	50	50.00	35.00	15.00
William Ramsey	50	54.50	50.00	4.50
Charles Smart	30	32.75	27.00	5.75
Jackie Thomas	100	103.00	85.00	18.00
Joe Frank Ross	100	108.50	92.00	16.50
Billy Moss	30	34.50	29.50	5.00
Frank Ramsey	50	55.25	48.00	7.25
Leroy Bradley	45	48.50	33.50	15.00
Rufus Currence	100	76.30	55.35	20.95
Eugene Hudspeth	50	75.00	44.00	31.00
Broadus Thomasson	50	44.80	40.00	4.80
Edward Martin	43	42.70	28.70	14.00
Sonny Wingate	37	62.50	45.00	17.50
Buddy Belk	25	27.50	22.00	5.50
Bobby Sturgis	35	24.50	21.00	3.50
Jerald Parrish	150	210.00	165.00	45.00
Eddie Crawford	50	62.50	37.06	25.44
G. R. Torrence	100	169.50	95.70	73.80
Tommy Miller	25	32.00	27.50	4.50
John P. Lowry	68	88.40	70.00	18.40
Bobby Hunter	22	33.00	26.50	6.50
Jack McCoy	25	25.00	18.00	7.00
Sonny Harrell, Jr.	53	61.00	47.00	14.00
Cary McCarter	100	110.00	73.50	36.50
Huey Canty	30	38.00	17.50	10.50
Donald Brown	50	63.00	41.00	22.00
John T. Strait	100	130.00	97.00	33.00
Jack Edward Barnes	150	210.00	171.00	39.00
Totals	4,050	\$4,725.69	\$3,455.26	\$1,270.43

Summary Pig Club Records - Fattening Class

Name of Member	No. Animals	Total Value	Total Cost	Profit
Harold H. McCarter	1	\$75.90	\$55.00	\$20.90
Luther Wilson	1	45.00	42.17	2.83
Richard Clark	1	46.00	27.15	18.85
Ralph Chambers	1	70.00	61.00	9.00
Lavonne Childers	1	126.00	58.50	67.50
Everett Lattimore	1	63.00	28.35	34.65
Billy Boy Smarr	1	84.00	43.75	40.25
Gary Watkins	1	40.00	22.25	17.75
Tommie Watts	4	273.00	185.00	87.80
Billy Ray Sanders	1	73.50	46.10	27.40
Frank Weaver	1	63.00	37.40	25.60
Marion Duncan	1	42.00	21.00	21.00
Preston Cornwell	1	42.00	23.00	19.00
Johnny Shillinglaw	1	73.00	48.35	24.65
Earl Williams	1	42.00	23.00	19.00
Carl Doster	1	36.75	5.00	31.75
Franklin Ramsey	1	42.00	22.50	19.50
Ira Burton	1	52.50	22.50	30.00
Joe Ledford	1	52.50	24.50	28.00
Glenn B. Ledford	1	47.25	23.50	23.75
David Wood	1	57.12	38.00	19.12
Mason Nichols	1	31.50	19.20	12.30
William Mercer	1	63.00	41.25	21.75
Gene Johnson	1	46.20	25.15	21.05
Kenneth Pridmore	1	47.25	18.95	28.30
Downey McCall	1	42.00	25.00	17.00
Bobby Long	1	47.25	25.00	22.25
Lewis Fuller	1	42.00	25.00	17.00
James W. Morgan	1	42.00	26.00	16.00
Charles Pridmore	1	63.00	33.40	29.60
George Parham	1	52.50	35.00	17.50
Lindsey Bailes	1	63.00	34.50	28.50
Henry Parker	1	52.50	42.00	10.50
Junior Horton	1	42.00	26.00	16.00
Glenn Smarr	1	36.00	22.00	14.00
Bobby Winn	1	63.00	41.00	22.00
Eugene Shaver	1	52.50	34.60	17.90
Sonny Small	1	47.25	28.50	18.75
Alfred McDaniel	1	73.50	32.50	41.00
Jimmie Camp	1	73.50	35.50	38.00
James Montgomery	1	52.50	32.00	20.50
James Hudson	1	63.00	33.00	30.00
Edward Craig	1	60.00	50.00	10.00
Raymond S. Strait	1	80.00	42.75	37.25

Summary Pig Club Records - Fattening Class (contd.)

Name of Member	No. Animals	Total Value	Total Cost	Profit
Gray Burgess	1	\$50.00	\$45.50	\$ 4.50
J. C. Falls	1	66.00	41.00	25.00
George Dickson	1	71.50	48.00	23.50
Gene Alexander	1	77.00	60.00	17.00
Donald Dunlap	1	55.00	30.00	25.00
Lovis Stacey, Jr.	1	100.00	50.00	50.00
John R. Rogers	1	44.00	37.00	7.00
Richard McFalls	1	27.50	20.00	7.50
Ray Howe	1	63.00	47.50	15.50
Johnny Oates	1	24.00	18.00	6.00
Marvin Farris	1	39.60	27.00	12.60
J. W. Neelands	1	14.00	10.00	4.00
Wallace Ramsey	1	66.00	43.00	23.00
Wylie Gordon	1	38.50	35.00	3.50
Bobby Hoffman	1	22.00	18.00	4.00
J. M. Rockholt	1	52.80	43.00	9.80
James Grem	1	55.00	37.50	17.50
Paul Lockridge	1	21.00	18.00	3.00
Carl E. Harris	1	44.00	32.50	11.50
Sam Hudson	1	49.50	37.00	12.50
Jimmie Goforth	1	46.20	37.10	9.10
Woodrow Huskey	1	52.36	41.00	11.36
Donald E. Craig	1	39.60	38.00	1.60
Deland Godbee	1	60.00	43.00	17.00
William Kennedy	1	54.00	46.00	8.00
Donald Parrish	1	36.00	22.00	14.00
Donald Erwood	1	15.00	12.00	3.00
Melvin Gualden	1	48.70	33.00	15.70
William Weatherford	1	41.00	32.50	8.50
Ernest S. Wolfe	1	57.00	46.00	11.00
Ted Robinson	1	31.00	22.10	8.90
Totals	78	\$4,143.23	\$2,657.22	\$1,486.01

Beef Calf Club

Name of Member	No. Animals	Total Value	Total Cost	Profit
Billy H. Templeton	1	\$60.00	\$35.00	\$25.00
Randy Goodson	1	75.00	28.50	46.50
James Hudson	1	138.00	83.00	55.00
Jo Ann Maloney	1	211.00	86.00	125.00
Bobby Dill	1	47.50	35.00	12.50
Freddie Hazlett	1	75.00	50.00	25.00
Charles Boyd	1	203.00	150.00	53.00
Cecil Covington	1	60.00	40.00	20.00
Howard Brakefield	1	175.00	110.00	65.00
Charles Whitesides	1	225.00	192.00	33.00
L. G. Kitchen	1	55.00	37.50	17.50
Totals	11	\$1,324.50	\$847.00	\$477.50

Summary 4-H Potato Club

Name of Member	No. Acres	Yield Bushels	Total Value	Total Cost	Profit
Bobby Wilson	$\frac{1}{4}$	25	\$62.50	\$25.00	\$37.50
Robert Wiley	$\frac{1}{2}$	33	66.00	35.20	30.80
Totals	$\frac{3}{4}$	58	\$128.50	\$60.20	\$68.30

Garden Club

Name of Member	No. Acres	Total Value	Total Cost	Profit
Billy Carroll	$\frac{1}{4}$	\$50.00	\$15.00	\$35.00
Ernest Jones	$\frac{1}{4}$	35.00	13.20	21.80
Carroll Lynn	$\frac{1}{4}$	28.80	6.50	22.30
Baxter Wallace	$\frac{1}{4}$	40.00	14.50	25.50
Wilfred Morris	$\frac{1}{4}$	91.00	20.15	70.85
William Morris	$\frac{1}{4}$	91.00	20.15	70.85
Wylie Craig	1	63.00	34.00	29.00
Jack Little	$\frac{1}{2}$	50.00	31.10	18.90
Marvin Black	$\frac{1}{2}$	27.50	20.00	7.50
Jimmie L. Adams	$\frac{1}{4}$	21.25	15.00	6.25
Claude Ross	$\frac{1}{4}$	42.00	31.00	11.00
Jerry Freeman	$\frac{1}{2}$	61.00	27.50	33.50
Totals	$4 \frac{3}{4}$	\$620.55	\$248.10	\$352.45

Barley

Name of Member	Club	No. Acres	Yield Bu.	Total Value	Cost	Profit
Gene Daves	McConnellsville	1	43	\$75.76	\$26.55	\$42.21

Pig Club - (Sow and Litter Class)

Name of Member	No. Pigs Farrowed	No. Pigs Raised	Total Value	Total Cost	Profit
Earl Biggers	5	5	\$50.00	\$32.00	\$12.00
Bobby Currence	8	8	96.00	15.00	81.00
Totals	13	13	\$146.00	\$47.00	\$93.00

Bee Club

Name of Member	No. of Hives	Total Value	Total Cost	Total Profit
R. E. Wallace	7	\$70.00	\$22.35	\$47.65

4-H Club Camps

The York County 4-H Club camp was to be held at Camp Long the week of August 9 but was called off due to the increase in polio in this county.

4-H Spring Rally

The York County 4-H Club Spring Rally was held at the York High school on May 1 with an attendance of 200 4-H Club members, parents and local leaders. The attendance award was presented to the Ogden club who had 100 per cent of their members present. During the exercises 4-H Club council officers were elected. A picnic lunch at noon was enjoyed by the members present. This meeting was held jointly with the home demonstration agents.

Dairy Judging Team

A dairy judging team composed of four boys were trained during the summer. The District Judging Contest in Spartanburg was delayed due to the polio situation and we were unable to enter our team on another date. The following boys composed the team: Ervin Faulkenberry; Joe Jackson, Lewis Sweatt, and Sammy Hopkins.

4-H Sears Roebuck Poultry Contest

Seven hundred baby chicks furnished by Sears Roebuck and Company were placed with seven 4-H club boys in March 1948. These chicks were grown out by the members and twelve of the pullets from each member were exhibited at the York County Fair. The following boys exhibited their pullets; Clyde Dunn, Clyde Winn, Fred Clark, Henry Parker, Kenneth Montgomery, Rufus Currence, and Joe Ross. A total of \$77.50 was awarded these club members in prizes.

4-H Achievement Program

The achievement program for 1948 was held in Johnson Hall, Winthrop College on Saturday, December 13, with 120 4-H club members, local leaders, and parents in attendance. 4-H diplomas, seals, and certificates were delivered to 4-H members completing their work in 1947. A picnic lunch was served after the meeting.

4-H Dairy Calf Club

The York County Dairy Calf Club had 38 members with 26 of these members showing calves at the York County Fair. Four showed at the State Fair in Columbia.

County Wide 4-H Officer-Leader Training Conference

Our 4-H officer-leader training conference was held at the Central school in Rock Hill on March 3 with 102 4-H officers and leaders in attendance. Agents met with the 4-H officers and discussed "Duties of Officers and Program Planning" and "How To Conduct A 4-H Club Meeting". The local leaders met and discussed the subject on "How I can Best Serve My Club As A Local Leader".

After the meeting the 4-H officers and leaders banquet was held at the Andrew Jackson Hotel in Rock Hill with one hundred and twenty-eight 4-H officers, leaders and business men in attendance. The banquet was sponsored by the Rock Hill business men. Mr. Eben Reid, Secretary, Rock Hill Board of Trade was master of ceremonies with a program being presented on 4-H Club work. Several club members and leaders appeared on the program.

Fair Exhibits

Following is a summary of 4-H club exhibits at the York County Fair and the State Fair:

County Fair Exhibits

<u>Exhibit</u>	<u>No. members showing</u>	<u>No. Entries</u>	<u>Placings</u>	<u>Premium Won</u>
Dairy Calves	22	26	41	\$409.00
Poultry	14	14	14	140.00
Totals	36	40	55	\$549.00

State Fair Exhibits

<u>Exhibit</u>	<u>No. members showing</u>	<u>No. Entries</u>	<u>Placings</u>	<u>Premium Won</u>
Dairy Calves	9	4	5	\$36.25

HORTICULTURE

Horticultural extension work in York County for 1948 included work with home gardens, sweet potatoes, home orchards, truck crops and peaches.

Gardens

Interest is increasing in the production of garden crops for market due to the increase in population in the towns. Much literature and publicity was given home gardens during the year to create interest in this enterprise. New poisons now on the market were used on garden crops and the county agent furnished information and help along this line.

Sweet Potatoes

There was a good crop of sweet potatoes produced this year and most of the potato curing houses are in use. One hundred sixty-five bushels of Porta Rican seed potatoes were purchased for seventy growers in the county.

Sweet Potato Demonstrations: Below is a summary of sweet potato production demonstrations:

Summary Sweet Potata Production Demonstrations

Name	Acres	Yield Bushels			Returns	Cost	Profit
		No. 1's	No. 2's	Culls			
W. B. Wilkerson	2.5	176	70	12	\$607.00	\$225.60	\$381.40
B. R. Meek	1	150	10	40	355.00	135.00	220.00
Total	3.5	326	80	52	962.00	360.60	601.40
Averages per acre		93	23	15	274.86	103.03	171.83

Commercial Peach Production

The 1948 peach crop in York County was reduced to approximately 15% by a late spring freeze, however the fruit produced was of excellent quality as most growers having any peaches left did an excellent job of spraying to control insects and disease. Considerable time was spent with the individual growers giving instructions in the use of new poisons to spray their orchards.

Peach Pruning Demonstrations: Two peach tree pruning demonstrations were conducted on December 5, 1947 with 19 growers attending. Instructions in pruning were also given individual growers in a number of cases. The shortage of labor is a problem in getting proper pruning done especially in large orchards.

Truck Crops

Truck crops are expected to increase in acreage due to the increased urban population in this county. Many farmers are interested in irrigation projects for truck crops. Land Brothers at York have purchased an irrigation system and planted two acres to strawberries which they plan to irrigate next year. If this project proves successful they intend to expand by taking in more land for irrigation and other truck crops.

MARKETING

Marketing in 1948 was not a problem as the demand in practically all cases exceeded the supply. Assistance was rendered farmers in the purchase of new and used machinery and in marketing peaches, grain and miscellaneous products.

Peach Marketing: Very few peach growers in this county belong to the state association as there is a good market for peaches. This year with the small crop marketing was not a problem as many trucks that came to the county to purchase peaches had to go to other counties to get their trucks loaded. The county agents office acted as an information station and furnished truckers with names and locations of peach growers having peaches for sale. One meeting attended by 75 farmers was held at which time the proposed peach marketing agreement was explained.

Marketing Sweet Potatoes: The 1947 crop of sweet potatoes, which would have been marketed in 1948, was reduced considerably by wet weather in the fall which prevented harvesting until late. Most of the potatoes were harvested in the mud and did not cure out and keep, therefore the potato crop was greatly below local demand. The 1948 crop was good and most potatoes have been placed in curing houses and will be sold later. Green potatoes have been marketed this fall without any difficulty.

Turkey Marketing: Practically all turkeys grown in York County are marketed through the two large dressing and marketing plants in the county. Almost all turkeys are sold to these plants by the growers. York County has grown out 142,500 turkeys this year and the demand is ample to consume all these birds through the southern and eastern markets.

Charles Whitesides of Sharon has completed and started using his cold storage plant which has a 250,000 pound capacity. This storage is used to store turkeys until the price is acceptable or there is a demand for turkeys dressed in mid and late summer.

Whole Milk Marketing: Milk routes in the county provides a ready market for whole milk and production has not been sufficient to supply their needs during the year.

Beef Cattle and Hogs: A local auction market at Rock Hill furnishes a ready market for any surplus beef cattle and hogs in this county.

Marketing

The marketing of milk in the county is not a problem as the demand greatly exceeds the supply. Milk routes cover most of the county and additional territory is being added to routes as supply of milk increases in new areas.

Cream Routes: The Piedmont Creamery of Rock Hill operates a cream route in several sections of the state and collects cream in several parts of this county.

Sales Dairy Cattle: Since the adjoining county of Chester holds an annual Guernsey cattle sale, and that being the principal breed in this county, we do not hold disposal sales in York county and have been disposing of cattle through the Chester sale. Services in locating and placing cattle for individual farmers has been done in a large number of cases.

Following is a summary of some of the cattlessales in the county in 1948.

Summary Cattle Sales, 1948

Name	Number	Breed	Kind	Amount Received
Chester County Guernsey Cattle Sale	5	Guernsey	cows	\$1625.00
Individual sales	5	Guernsey	Heifers	\$ 640.00
Riverview Dairy Heifer Sale	40	Guernsey	Heifers	\$9200.00
Total	50			\$11465.00

Purchases Dairy Cattle: In addition to the purebred cattle placed as already reported the county agents assisted 3 farmers in purchasing nine high grade cows for adding to herds they already had. The total cost of these nine cows was \$1835.00.

Marketing of Surplus Farm Products: The county agents cooperates with the farmers of the county throughout the year in marketing of surplus farm products and in the purchase of materials and supplies in a cooperative way. A summary of this work is given as follows:

Summary Marketing Work - 1948

Products	Quantity	Bought	Sold
Hogs	2	\$ 25.00	
Beef Cattle	9	2575.00	
Poultry	1400		\$ 300.00
Dairy Cattle	56		12325.00
Sweet Potatoes (seed)	165 bu.	577.50	
Fruit crops	500 bu.		750.00
Corn (Feed)	200 bu.		300.00
Corn (Seed)	10 bu.	100.00	
Cotton Seed	5250 lbs.	175.00	
Oats	24 bu.	120.00	
Soybeans (seed)	10 bu.	45.00	
Hay	74 tons	2,852.00	
Oats	1500 bu.		2625.00
Alfalfa (seed)	550 lbs.	305.65	
Peanuts (seed)	100 lbs.	30.00	
Totals		\$6,805.15	\$16,300.00

POULTRY

Extension work with poultry projects in York County consisted mainly of work with turkey producers, owners of laying flocks and broiler production.

Demonstration Flock Records: One demonstration poultry flock record was kept this year. A summary of this record follows:

Summary Poultry Flock Demonstration Record

Name	Breed	Ave. No. Hens	Invest-ment	Eggs Per hen	Total Income	Feed Cost	Profit
Mrs. R. M. Mitchell	N.H.	56	\$260.50	180	\$812.65	\$543.45	\$321.70

(Table Continued)

Stock Increase	Other Expenses	Labor Income	Labor Income per hen
\$52.50	\$67.31	\$254.39	\$4.54

Bloodtesting and Vaccinating Poultry: Fifteen flocks in York County are following the bloodtesting and vaccinating plan. These flock owners are complying by having their birds tested and supplying desirable hatching eggs to hatcheries.

Following is a summary of work with these flock for 1948.

Summary Flock Growers Bloodtesting - Chickens

Name	No. Birds	No. Birds Reacted	No. Birds Culled	No. Doz. Hatching Eggs Sold	Value with Premium
Blair, Jack	718	0	69	2,976	2,107.70
Cain Spring Farm	1,011	0	89	240	192.00
Clark, H. N.	986	1	22	4,673	3,504.75
Cornwell, Ed	147	0	16	111	88.80
Cornwell, Fred	140	0	17	134	107.20
Gardner, Mrs. J. A.	155	0	12	150	120.00
Hicks, L. H.	335	0	60	648	518.40
Hyatt, G. E.	490	0	35	638	510.80
King, George B.	359	1	11	1,726	1,340.30
McGill, Mrs. J. B.				1,172	879.00
Sherer, Lee M.	453	0	28	1,748	1,366.85
Sherer, P. R.	1,556	0	149	4,603	3,912.55
Shillinglaw, L. H.	277	0	29	340	272.00
York Poultry Farm				850	658.50
Hord, Raymond	591	0	41	2,155	1,659.65
Totals	7218	2	578	22164	17,238.50

Sears Poultry Program: Seven hundred baby chicks were placed with seven 4-H club members in 1948 through the Sears Poultry contest. This program was financed by Sears, Roebuck & Company with each 4-H club boy returning twelve pullets in the fall to be sold at public auction, the money received from the sale of the pullets to be used to continue the program another year:

Following is summary of Sears Poultry Chain 4-H Project:

SEARS POULTRY CHAIN 4-H PROJECT

(Joint - Including Boys and Girls - Total for County)

1. County	<u>York</u>	Year	<u>1948</u>
2. No. Sears Club members	<u>7</u>	Sexed chicks	<u> </u>
		Unsexed chicks	<u> </u>
3. Chicks started - No.	<u>700</u>	Cost \$	<u>133.00</u>
4. No. chicks raised to broiler age	<u>589</u>		
5. No. broilers sold	<u>318</u>		
6. Feed consumed - Lbs.	<u>5,860</u>	Cost \$	<u>409.83</u>
7. Other expenses:		\$	<u>47.15</u>
8. Total value broilers sold, eaten and on hand at end of 12 weeks		\$	<u>788.10</u>
9. Profit to 12 weeks of age (Add lines 6 and 7 and subtract from line 8)		\$	<u>331.12</u>

10. No. pullets left at 12 weeks			<u>271</u>
11. Feed consumed - Lbs. (From 12 weeks to date of sale)	<u>6,777</u>	Cost \$	<u>359.85</u>
12. Other expenses - 12 weeks to date of sale		\$	<u>0</u>
13. Estimated value of all pullets raised at date of sale		\$	<u>106.50</u>
14. Profit - 12 weeks to date of sale (Add lines 11 and 12 plus estimated value of pullets return to chain and subtract from line 13)		\$	<u>46.65</u>

15. No. pullets auctioned			<u>84</u>
16. Total selling price all pullets returned to chain		\$	<u>149.68</u>
17. Average selling price per pullet		\$	<u>1.77</u>

This is a special joint report. These records to be reported with other 4-H poultry records in annual report.

Turkey Production: The production of turkeys in York County was increased tremendously in 1948 over 1947 production. One hundred and forty-two thousand turkeys were raised in 1948 as compared to ninety thousand in 1947.

Following is summary of turkey flock demonstration records for 1948.

Summary Turkey Demonstration Records

Name	Poults Raised	Income	Cost	Labor Income	Labor Income per poul
Jim Faulkner	2000	\$15,983.26	\$ 8,567.31	\$ 7,415.95	\$3.77
Bob Lawrence	2000	17,964.05	10,700.00	7,264.05	3.63
J. D. Penley	2200	19,571.37	11,387.30	8,184.07	3.72
E. W. Hammond	1000	8,376.00	5,414.00	2,962.00	2.96
Total	7200	\$61,894.68	\$36,068.61	\$25,826.07	\$3.52

Bloodtesting and Vaccinating Turkeys: One turkey flock owner had turkeys bloodtested by Extension Service specialist. Following is summary of the flock bloodtested.

Summary Turkey Flock Tested for Laying Flock Hatching in 1948

Name	No. Birds	No. Birds Reacting	No. Birds Culled	Eggs	Value with Premium
Robinson Bros.	1130	17	100	4,800	\$960.00

VISUAL INSTRUCTION

Visual instruction work for 1948 consisted of the use of educational motion pictures, film strips, photographs and charts and maps.

Educational Motion Pictures: Through the use of the motion picture projector for this county, motion pictures were shown at 37 farmers' meetings and 4-H club meetings with combined attendance of 1714 people. The educational pictures shown were valuable in teaching agricultural practices and increasing attendance of 1714 people. The educational pictures shown were valuable in teaching agricultural practices and increasing attendance at farmers' meetings.

Film Strips: Film strips were used at three meetings with an attendance of 241 farm people.

Photographs: Photographs were made by county agent and others of 27 extension activities and demonstrations in county.

Summary of Use of Visual Instruction Aids

Visual Aids Used	No. meetings	Attendance
Motion pictures	37	1714
Slides	3	241
Photographs	27	50
Charts & Maps	7	168
Total	74	2273

PUBLICITY

Publicity work and the distribution of educational information in connection with the 1948 extension program in York County was done through circular letters, press articles, radio talks, the distribution of bulletins, and farm tours. A summary of work done in the connection is given as follows:

Summary Publicity Work

Individual letters	752
Circular letters	40
Copies mailed	13,317
Press Articles	159
Radio Talks	35
Bulletins distributed	3,221
Farm tours	5
Attendance	196

Circular Letters: A total of 40 circular letters was prepared and 13,317 copies mailed to farmers and 4-H club boys in York County in 1948. These letters contained information on timely agricultural matters, notices of meetings, and information on results of demonstrations and experimental work. Specimen copies of circular letters are attached to this report.

Press Articles: A total of 159 press articles of timely agricultural interest was published in York county newspapers during the year. Specimen copies of news articles are attached to this report.

Radio Talks: Thirty-five radio talks on agricultural subjects were made by the county agents over station WRHI and WTYC in Rock Hill during the year. Specimen copies of these talks are attached to this report.

Bulletins Distributed: A total of 3221 bulletins were distributed to farmers and 4-H club boys during the year.

Farm Tours: Five farm tours, one a winter grazing tour in March, three soil conservation tours in August and general tour in August. A total of 196 farmers attended these tours.

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

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

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

York, South Carolina
September 13, 1948

EXTENSION SERVICE

TO YORK COUNTY TURKEY GROWERS

Dear Sir:

During the past week we have had an outbreak of typhoid in one of the turkey flocks here in the county. Mortality for the first three days was 12%. The peak seemed to have been reached and it is expected that the flock will experience small losses the rest of the season with small intermittent flurries of death losses. Mortality over a period of time is likely to be high and in some cases the entire flocks have been wiped out when held several months.

Nothing is known to halt the spread of typhoid. No medicine has proven very effective. No feeding practice will halt it. It is just a matter of preventing it coming on the farm and even this is difficult to say how it is to be done. Strict sanitation must be practiced. It is thought that it is spread from farm to farm by people, dogs, rodents, automobiles, feed sacks, equipment used in the lot, birds, etc. In other words, anything or any animal that has tracked through where typhoid is present is likely to carry it to another place.

In addition to precaution about it coming on the place, proper practices such as screening the birds out of their water and feed vessels, keeping them out of their night droppings, moving to new ground each week, ridding the farm of chickens that can act as carriers will aid in the prevention. Should any of you have any high mortality all at once please call this office and we will be glad to check it for you.

Next week, on Monday, September 20, the South Carolina Turkey Federation is having a meeting at Lake Murray near Newberry. A barbecue is planned to be served at noon at Adams's Fish Camp instead the Lions Club house. This is located on Lake Murray near Prosperity. Following the dinner a business meeting will be held in addition to other activities at which three new directors will be elected. All turkey growers should be there to take part in their organization.

Another good meeting is going to be held September 28, 29, & 30 in Asheville. It is the Carolina Poultry Industries Exposition known as CPIE. You may remember it was held last year in Columbia and year before last in Charlotte. It has on its lecture program some of the leaders of the poultry industry. In the show room the most modern poultry equipment will be on display. Tuesday is turkey day so I hope many of you can make it.

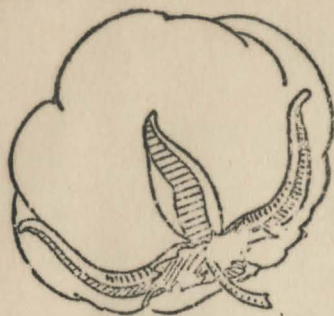
Very truly yours,

James E. Thaxton

James E. Thaxton
Turkey Specialist

J. D. Miller

J. D. Miller
County Agent



COTTON LETTER

PRESENTING TIMELY INFORMATION

ON ALL PHASES OF COTTON PRODUCTION

York, South Carolina
June 19, 1948

The boll weevils are still emerging into the fields down state and even though the emergence in 1948 is lower than 1947, cotton is more advanced and the weevils are now puncturing a great many squares in a large number of fields. DECIDE NOW AS TO WHETHER YOU ARE GOING TO GROW COTTON OR WEEVILS THIS YEAR! GET THAT POISON AND DUSTER NOW! HE WHO LINGERS IS LOST. SOME POISONS ARE GETTING SCARCE.

Keep a close check on your fields this year. Here's how to do it. Before squares are large enough to puncture, walk diagonally across your field and look at 100 plants. If you find, say 5 weevils, multiply 5×150 and you have 750 weevils per acre. Twenty weevils to the acre is a significant number. After squares are large enough to be punctured, walk diagonally across your field and examine 100 squares. Select some from the top, middle and lower branches. Pull off those squares that have been punctured. When you have examined 100 squares you should be at the far side of your field. Count the punctured squares you have removed of the 100 you examined and that will give you the percentage infestation for that field. BE SURE TO EXAMINE THE SQUARES AT RANDOM AND NOT SELECT ONLY THOSE THAT HAVE BEEN PUNCTURED. Seven cotton fields checked in York County this week shows an average 86 weevils per acre which is enough to do considerable damage unless control measures are carried out or weather conditions are favorable to help eliminate these pests.

Very truly yours,

J. D. Miller
J. D. Miller
County Agent

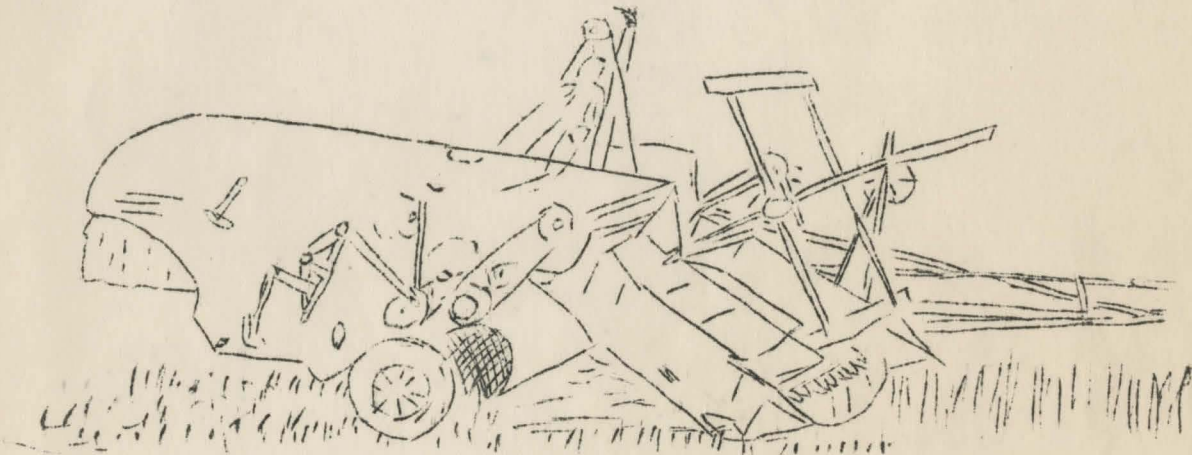
COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS
STATE OF SOUTH CAROLINA

York, South Carolina
May 15, 1948

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

EXTENSION SERVICE

TO: YORK COUNTY COMBINE OWNERS



WHAT? A Combine Adjustment and Operation Demonstration.

WHEN? May 19, 1948 2:30 P. M.

WHERE? Harry Clark's packing shed, approximately 2½ miles northwest of York in Cotton Belt community.

WHO IS INVITED? Any combine owner or operator in York county who would like to see some demonstrations showing how to:

1. Save Time.
2. Save Grain.
3. Save money in using his combine.

M. C. McKenzie, or other Clemson Extension Machinery Specialists, will be in charge of the demonstrations. Local machinery dealers are cooperating and will have some of their servicemen present to answer questions on their particular machines. Lubrication engineers from some of the petroleum companies will be present to assist with lubrication demonstrations.

Very truly yours,

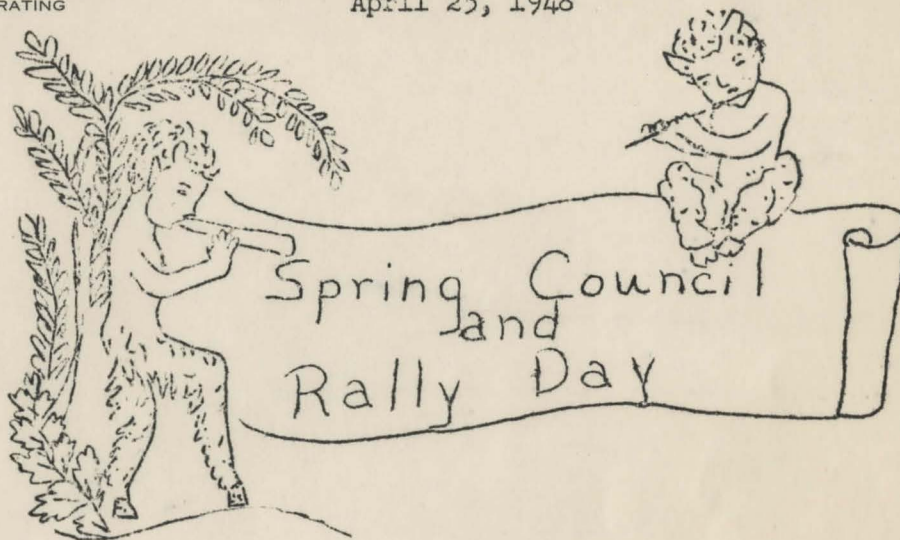
J. D. Miller
J. D. Miller
County Agent

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

Rock Hill, S. C.
April 25, 1948

EXTENSION SERVICE



Dear Club Member:

Another year has rolled around and it is time for another Spring 4-H Council Meeting and Rally. This year it will be held at the York High School Building, Saturday Morning, May 1. Registration will begin at 10:00 A. M. and the meeting at 10:30 A. M.

Some of the highlights of the program will be a team demonstration, singing, and recreation led by Mr. Leon Clayton, District Boy's Club Agent.

We are very anxious to have parents attend the meeting and we ask you to invite yours in person.

Begin making plans now to come and enjoy your county Rally. Discuss it with your parents and local leaders and let's see which club can have the most members present. An attendance award is to be given to the club having the largest percentage of members present.

We are asking that each person bring a picnic lunch. Everyone will eat together and we will furnish a drink.

Sincerely yours,

J. D. Miller
J. D. Miller
County Agent

Georgia Taylor
Georgia Taylor
County Home Dem. Agent

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

CHARLES P. WHITESIDES PURCHASES ABERDEEN-
ANGUS CATTLE OF FAMOUS BREEDING

Mr. Charles P. Whitesides of Sharon purchased two head of registered Aberdeen-Angus cattle at the dispersion sale of Joe and Jack Keefauver at Jonesboro, Tennessee, on Thursday, April 8, where seventy-two head of registered Angus sold for \$66,000.00. Eleven bulls brought a total of \$14,500.00

The three year old cow "Groquette 2" of Ridgefield's was purchased by Mr. Whitesides and is a great grand-daughter of the international grand champion "Pride of Rosemere 67th" and a great great grand-daughter of "Pride of Rosemere 37th" and "Prizemere 9th" both international grand champions.

The four months old bull purchased by Mr. Whitesides is a son of "Eileenmere 2631 st" a son of "Eileenmere 487th \$30,000.00 bull owned by Penry & James and a double grandson of "Eileenmere 85th" international grand champion and four times great grandson of "Eileenmere 32nd" and two times grandson of "Enchantrene", both international grand champions. This concentration of breeding has produced excellent cattle and Aberdeen-Angus authorities class "Eileenmere 2631st" as one of the top young bulls of the breed.

The cow purchased by Mr. Whitesides has been bred back to R. B. Eileenmore 3rd a son of the famous Eileenmere 500th.

The following York County men, in addition to Mr. Whitesides, attended the sale: Floyd D. Johnson, Vocational Agriculture teacher at York, H. C. Robbins and Tom Robbins of Sharon, and J. D. Miller, County Agent.

J. D. Miller
County Agent

BOLL WEEVIL INFESTATION INCREASING

The percent squares punctured by boll weevil has increased in York County during the past week, County Agent, J. D. Miller, announced today. Vocational agricultural teachers and county agents made checks in thirty-two cotton fields during the week ending Saturday, July 31, and found an average of 10.3 percent of the squares punctured. The highest percent punctured squares 55% was found in the Lesslie community where they have had much rain lately. Infestation was found to be heavy in the Sharon community. Several sections of the county have had little damage from weevil. The Clover, Ridge and Bethel communities have had practically no damage so far this season.

Cotton producers are urged to keep making close checks on their cotton to determine the amount of damage done and to apply poison when the infestation is 10% or more.

J. D. Miller
County Agent

COUNTY WIDE RAT CONTROL CAMPAIGN TO BE CONDUCTED DEC. 14 & 15

A county wide rat control campaign will be conducted on Tuesday and Wednesday, December 14 and 15, J. D. Miller, County Agent, announced today.

Nearly all farms harbor some rats, which, last year, destroyed or damaged 200 million bushels of grain. Rats also are carriers of bubonic plague, typhus, and other deadly diseases.

The rat population can be quickly reduced by using improved modern control methods. All York County farmers are urged to do their part in this big campaign by getting enough poison bait to rid their premisses of rats.

The poison used will be fortified red squill which is poisonous to rats only and is harmless to people and domestic animals.

The campaign is being sponsored by the Clemson College Extension Service, and Vocational Agricultural teachers in cooperation with the U. S. Fish and Wildlife Service.

The bait will be prepared on campaign days and put in packages at a cost of \$1.00 per package which is enough to poison the average size farmstead. Large farms with a large number of buildings should order several packages. Orders must be placed and the one dollar per package paid by December 4 so that the correct amount of poison and other ingredients may be ordered in time.

Orders may be placed at any of the following places in this county:

York - County Agents Office
Rock Hill - Home Demonstration Agents Office
Hickory Grove - S. H. Wilkerson, Voc. Agri. Teacher
Sharon - T. W. Dillard, Voc. Agri. Teacher
Clover - R. T. Harris, Voc. Agri. Teacher
Fort Mill - Fred H. Wilson, Jr. , Voc. Agri. Teacher

J. D. Miller
County Agent

MORE TURKEYS GROWN IN YORK COUNTY

A recent check on turkey production in York County revealed that approximately thirty thousand more poults are being grown out this year than were raised last year, J. D. Miller, County Agent, announced today. One hundred twenty-two thousand poults are being grown out this year as compared to ninety three thousand five hundred in 1947.

The growers are having good success so far with their birds with only a few outbreaks of diseases. Some of the oldest turkeys in the county are being grown out at M. S. Shillinglaw, Fred Shillinglaw, Sharon, and Howell Brothers at Hickory Grove and others who have turkeys over sixteen weeks old. These are nice turkeys and some of them weigh over fifteen pounds now.

"I am glad to see York County increase its turkey production this year!" Mr. Miller stated. The nation as a whole has reduced production this year about 18%. We hope that this will be the best year yet for turkey growers and with meat prices high, indications are that the price of turkeys will hold up well during marketing season.

Approximately all the turkeys being grown are broad breasted Bronze with only a few Beltsville whites being grown.

J. D. Miller
County Agent

On the following pages will be found specimen copies of
radio talks made during the year.

With our cotton in York County up to fair stands we should now make our plans to effectively fight the boll weevil and thereby increase our yields. Poisoning cotton for boll weevils should be done each year and the cost of poisoning considered an insurance. We buy fire insurance for our homes and farm buildings year after year although we do not expect to have a fire each year. We want to be protected when and if we do have a fire. Poisoning cotton should be considered in the same light. We may not have much damage for several years but when we do have damage the loss is too great to overlook and it retards us considerably in our financial plans on the farm. We should protect this chance of loss by being insured each year.

Early poison pays because the weevils killed before they have a chance to lay eggs will decrease our infestation later on.

Spring examinations of woods trash from near-by cotton fields at the Pee Dee Experiment Station at Florence show a high survival of weevils 2,710 per acre. This number has been exceeded in only three years since 1938. The number of live weevils per acre for the past ten years are as follows: 2,710 for 1948; 2,904 for 1947; 2,193 for 1946; 2,580 for 1945; 1,210 for 1944; 2,995 for 1943; 1,839 for 1942; 1,960 for 1941; 176 for 1940; 3,582 for 1939; and 1,472 for 1938.

Boll weevil infestation can now be effectively controlled by the use of the right poison at the right time.

Each cotton producer should purchase a dusting machine in proportionate size with his acreage of cotton. He should then purchase and have on hand 25 pounds of Benzene Hexachloride (3% BHC, 5% DDT, 40% Sulfur) for each acre of cotton. Hand dusters should take care of up to 10 acres, a 2 row mule drawn duster up to 30 acres, and tractor dusters for large acreages.

The first application of BHC should be made when first squares appear on cotton and are too small for weevils to lay eggs in. 6-8 pounds per acre should be used.

Second application should be made 5-8 days later, using 8-10 lbs. per acre; and the third application 5-8 days later using 8-10 pounds per acre.

B. H. C. acts fast and it is effective if it stays on the cotton for several hours, therefore the necessity of repeating the application in case of rain is not necessary if it does not rain within several hours after applying.

The poison should be applied when the air is quiet in early morning or late afternoon. Late afternoon is probably the best time as it is not likely we will have thundershowers until the next afternoon.

B.H.B. - DDT and Sulphur control practically all cotton insects including aphids (Plant Lice). It should not be used however on land where a root crop (such as potatoes, peanuts, etc.) will be planted the following two years.

In applying the poisons be sure to poison every row, as the drift is not as effective. B.H.C. works by contact as well as suffocation so be sure that every row is covered.

The three applications applied when the squares first form will probably control the weevil but we should not stop with that alone. We should keep a close check on our cotton for infestation and if 10% of the squares are punctured, two or three additional applications of BHC should be made at the rate of 10-12 pounds per acre.

Infestation counts may be made by walking diagonally across the field and examine at random 100 squares to see if they have been punctured. The squares should be selected from top middle and bottom of stalks to get accurate count. The number of squares punctured will be the percentage infestation.

In late July and early August if infestation is heavy it would probably pay to use Toxaphene or Chlordane as they last longer on plants.

Poisoning of cotton for boll weevil has not been practiced extensively by farmers of York County in past years. Last year we were damaged considerably by boll weevil. With these new poisons available that give good results I hope that the cotton producers will make preparation now to poison with modern machinery as the job is not as hard as in former years. Large acreages may be covered in a short time with modern dusting machines and tractor power.

We are holding a meeting this afternoon of the York County Agricultural committee, ginners, vocational agricultural teachers, insecticide and dusting machine dealers to work on plans to get a good job of poisoning done in this county. We hope that owners of tractors who have the time will purchase dusting machines and do custom work for neighbors. This would be a big help in getting the job done.

We have received many inquiries regarding the use of chlordane for dusting cotton. This poison has been tried only one year and shows promise of being used extensively in the future. It is recommended for experimental use only this year as very little is known

about the toxicity on man, animals and soil and until additional research is carried out it should not be used extensively. The supply is limited this year so it may be hard to find if you wish to try it. If chlordane is used it should be applied in 10% strength exactly as BHC is applied.

20% Chlorinated camphene another new poison is recommended for general use and should be applied the same as B.H.C.

B.H.C. has the disadvantage of possessing a disagreeable odor and should not be used adjacent to dwellings. The odor is musty and is persistent in that it is noticeable several days after applying.

Good results have been obtained from these poisons being applied by use of airplanes. Those farmers with large acreages of cotton may be able to arrange to have theirs dusted by plane.

This type of application does not work so well where fields are small and trees, light poles, and other obstacles are in the way.

In order to help keep the farmers of York County informed as to the infestation of cotton fields with boll weevil, my office is planning to again this year, select five representative cotton fields over the county and make weekly infestation counts to determine boll weevil present. This method will give the public a general idea of the county infestation. Each cotton producer should make infestation counts in his own fields as we all know that all fields do not possess the same number of weevils. Sometime adjacent fields will vary considerably as to damage done by weevils. Let's keep up with the damage this most destructive pest is doing in our cotton fields and be prepared to fight him when he threatens our cotton crop.

Infestation counts may be made before squares form by examining 100 stalks selected at random to see if any weevils are present. If weevils are found in walking diagonally across the field and examining 100 stalks the number of weevils present may be computed by multiplying 150 by the number found. This method represents using 15,000 plants as average number per acre.

About the first of April a cotton letter and bulletin entitled "Cotton Production and Boll Weevil Control in South Carolina" was mailed to approximately eighteen hundred farmers in York County. If you did not get a copy and wish to get one, let me know and I'll mail you a copy, or you may get one at my office in York. This bulletin contains some good information on cotton production and the use of new poisons for boll weevil control.

It is estimated that boll weevil cause a loss of \$30,000,000 annually to cotton crops in South Carolina. This estimate is based on the 1947 loss. We cannot afford to loose that much from a pest that can now be controlled by use of new poisons. Let's increase our income from the cotton crop by controlling this pest. The time to start doing something about it is now. Be ready to strike when it will do the most good.

With the critical shortage of grain facing the farmers of the nation, every effort should be made to help offset this shortage by planting summer grazing crops for livestock. For summer grazing plant sweet sudan, pearl millet, or soybeans.

Sweet sudan is popular with many farmers and is a good grass to use. It is an annual that thrives during the hottest days of summer when permanent pastures are suffering for lack of moisture. It has highest sugar content, makes greater growth, and is more palatable than common sudan. It should not be grazed too closely, therefore two fields should be seeded and the cattle rotated in ten day periods is highly desirable. Sudan grows well on soils adapted to corn or cotton. It should not be planted on poor, cold or wet soils. 400 - 600 lbs. per acre of 4-10-6 or similar fertilizer at planting and 100 to 200 lbs. of nitrate of soda when plants are 12 to 18 inches high. The seed should be planted as soon as the ground becomes warm with 30 to 40 lbs. of seed per acre. The most desirable method of seeding is with a grain drill on a well prepared seed bed. If all the grazing is not used it may be cut for hay and should be cut when heads appear.

Pearl millet is also a good grazing annual grass and should be planted and fertilized about the same as sweet sudan except 20 lbs. of seed should be used when drilled and 30 to 40 when broadcast.

Farmers are also increasing their summer grazing by applying complete fertilizer to their permanent pasture. Much interest is being shown and pastures are fast coming to be considered a cash crop by our farmers. Two pasture fertilization demonstrations have been set up in the county to show the effect of fertilizing on grass. The Duncan Brothers, Frank and Warren, at Sharon and W. H. Spencer at Catawba. The three acre plots were fertilized with 2,000 lbs. of lime and 1,000 lbs. of 3-12-12 or its equivalent in fertilizer materials were used. A check plot was left unfertilized to see the effect of the fertilizer on the grass. It is not necessary for most people to carry out demonstrations to see the value of heavy applications of fertilizer on pasture grasses. The Duncan Brothers and Mr. Spencer have been fertilizing for years and realize its value. Many people are applying complete fertilizer and lime to all their pasture. It's a good practice and pays more money in return than any other practice on livestock farms. Fertilizer should be applied in early spring and if it has not been done it should be applied as soon as possible. It is good business on the part of the farmer to establish good permanent pastures now while livestock is selling at a relatively high level.

The new pasture mixture, fescue and Ladino clover is looking good and those farmers who have not seen any of these plants growing should visit someone that has it and observed it for condiseration of seeding on their farm. Extra good crops may be observed on the A. A. Ashe farm, the Ted Lewis farm in the Delphas community where both are seeded together. Duncan Brothers near Sharon have a good field of fescue alone and J. K. Benfield near York has a small patch of Ladino clover. It would be worth the time to see any of these good fields of grazing crops. Many other farmers also have these same grazing crops planted and most all report good results. The best time to seed is in the fall so start now to make plans to plant some this fall if you have not already done so.

We are always pleased to see any new development on the farm that will help to take the drudgery out of farm work. These new inventions in farm machinery have made mechanized farming a reality. At the Edisto Experiment Station last year one man planted, cultivated and harvested one hundred acres of cotton by means of modern machinery. The cotton picker and flame cultivator are the newest additions that helped to make this possible. Many farmers in York County are interested in the new flame cultivator for cotton. We have arranged for a visit to the Edisto station to see this machine in operation and to talk with the man who successfully used it last year. We plan to go on Wednesday, June 23, and will leave York at 8:00 A.M. Anyone interested is invited to go along. We plan to take several cars so if you would like to go contact my office and we will try to arrange ways for those who do not wish to carry their car. We should be back in York around 6:00 P.M. that day. If you are going and can take your car and do not have a load please notify me also as others may be looking for a ride.

Farmers are cautioned about chinch bug damaging corn. This usually occurs where corn is planted adjacent to small grain. When the grain is harvested the chinch bugs move into the corn field and do considerable damage sometimes. This damage usually occurs in dry weather. A furrow should be plowed between grain and corn field to trap the chinch bugs before they get into the corn fields. A line of creosote in the furrow will turn them along furrow and post holes dug every few feet will trap them where they may be burned or poisoned. If you have any trouble contact our office and we shall be glad to give you all assistance possible in controlling them.

J. D. Miller
County Agent