

PROPERTY OF  
EXTENSION SERVICE  
OF SOUTH CAROLINA

# ANNUAL REPORT

## COUNTY AGENT WORK

SPARTANBURG

County

SOUTH CAROLINA

1948

J. F. JONES

County Agent

H. D. MARETT

Assistant County Agent

R. D. MCNAIR

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 AGENT WORK  
SPARTANBURG COUNTY, SOUTH CAROLINA

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R. D. McNair, Assistant County Agent

Cooperative Extension Work in Agriculture & 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.....	232
2. Days agents spent in field.....	643
3. Days agents worked.....	875
4. Miles agents traveled.....	33,447
5. Farm visits.....	1,915
6. Office calls at agents office.....	3,772
7. Telephone calls at agents office.....	4,860
8. Meetings held or attended.....	378
9. Attendance at these meetings.....	20,428
10. Number communities in which Extension Work was conducted..	29

### Agricultural Economics

Presented outlook information to farmers at county and community meetings. Cooperated with Farm Credit Agencies and Farm & Home Administration. Assisted in planning two farms.

### Agricultural Engineering

Cooperated with Supervisors of Spartanburg Soil Conservation District. Assisted in conducting and bringing to a close the Soil Conservation Contest. Furnished farm building plans. Conducted one demonstration using dynamite for ditching. Furnished information to ginners. Conducted one tractor and one combine school. Assisted in the nutrition program.

### Agronomy

Conducted 18 Five-Acre Cotton Demonstrations. Divided free sampling and grading service for farmers. Conducted three wheat, three barley, three oats and Hybrid corn demonstrations. Conducted four lespedeza and three alfalfa hay demonstrations, also twenty nine annual grazing demonstrations, and five silage production demonstrations. One demonstration in legume seed production was also conducted using crimson clover. Assisted in the carrying out of the certified seed program. Conducted two permanent pasture demonstrations and had one fertilizer demonstration. Arranged grazing tour and conducted two Turkish tobacco demonstrations. Assisted and providing seed cleaning, testing, treating and soil sampling service for farmers.



### Animal Husbandry

Furnished information on meat curing and cutting. Secured one car load of surplus potatoes for hog feeding. Placed two purebred Hereford bulls. Assisted in purchasing 13 purebred cows and in the sale of 7 purebred cows and one bull. Furnished information on production and management of feed crops.

### Dairying

Enrolled 8 dairymen and Dairy herd improvement work. Assisted in the sale of 9 dairy cattle and in the purchase of 12. Assisted in the marketing of milk through milk routes. 6 dairy barns were constructed during the year. Assisted in Artificial Breeding Work in the county. A total of 1,030 cows were bred during the year. Conducted demonstrations with annual grazing crops, permanent pasture and silage. Secured one care load of surplus potatoes for dairymen. Continued 4-H dairy calf club work.

### Entomology and Plant Pathology

Furnished information for the control of insects and diseases. Conducted Rat Control Program. Control boll weevil control campaign and two demonstrations in cotton defoliation. Assisted with the work of Spartanburg County Beekeepers Association.

### Forestry

15 woodland examinations were made and 409,015 board feet of timber were marked. Furnished information on fire prevention program. Brought list of saw mills up to date. Secured 145,200 forest trees seedlings for planting. Furnished instructions on planting ~~and~~ seedlings and fence post preservation. Held 4-H Arbor Day program and conducted forestry program in 4-H club meetings.

### Four-H Club Work

Work was conducted in 28 different clubs with an enrollment of 665 members, 431 projects were completed which amounted to 69%. The value of these projects was \$36,883.10. The cost of producing was \$22,297.64 and showed a profit of \$14,585.45. Officers and leaders Training School was conducted. Achievement Day was held, along with the County 4-H Club Encampment. 31 boys and girls were enrolled in calf club work, 16 of these showed their animals at the Piedmont Interstate Fair at Spartanburg, S. C. and 4 at the State Fair in Columbia, S. C. A Sears Poultry Project was conducted, the birds sold in this project averaged \$3.08 each. Two 4-H clubs conducted Parent's Night Programs in their communities. Two educational films were shown to 4-H clubs during the year. The County 4-H Club Council prepared Council Report which was placed in Blue Ribbon group. Two radio programs

Four-H Club Work - continued

were given over radio stations W.S.P.A. in Spartanburg, S. C.

Horticulture

Furnished information on home gardens. Conducted two tomato demonstrations, two cantaloupe demonstrations and furnished information on the control of insects and diseases in these crops. Furnished information to commercial peach growers and assisted with their problems. Conducted demonstrations on the control of curculio, blossom blight, and brown rot. Gave 17 pruning demonstrations and 1 thinning demonstration. Assisted in conducting Peach Clinic. Also gave peach growers information regarding the peach marketing agreement. Assisted with commercial apple production.

Marketing

Assisted in getting market information to the peach growers and other farmers. Assisted in carrying out the work of Spartanburg County Farmers' Market. Assisted with inspection work and the standardization, grading and packing of farm products. Cooperated with farm owned cooperatives. Assisted in buying and selling of farm products in the amount of \$112,166.75.

Poultry

Operated poultry truck schedule through which 71,303 pounds of poultry was marketed for \$18,659.98 w Ten flock improvement demonstrations were conducted. The value of the eggs in this program was \$46,059.31. Information regarding diseases and feeding practices were furnished poultrymen.

Publicity

A weekly farm column was printed each week in theSpartanburg Herald-Journal. 102 news articles were published. 38 circular letters were prepared and 23,161 copies were mailed. 61 radio talks were made, 5,078 bulletings were distributed and 1875 farm visits were made.

### Visual Instruction

Motion pictures were used in 65 meetings attended by 2,473 adult and 4-H club members. Slides, charts and maps were used at other meetings. Farm building models were placed on exhibit at the Piedmont Interstate Fair. 16 Four-H calf club members and two adults exhibited cattle at the Piedmont Interstate Fair, a 4-H club exhibit was also prepared for this event. 4 4-H club members exhibited calves at the State Fair in Columbia, S. C.

### Miscellaneous

The county agent also served as Secretary of the Spartanburg County Farmers' Market, the Spartanburg Cooperative Cannery, The Spartanburg County Cooperative Soil Improvement Association and the Spartanburg County Cooperative Breeders' Association.

I. County, Community and Neighborhood Organization of Volunteer Farm and Home Leaders

1. County Agricultural Committee:

- a. The members of the County Agricultural Committee were selected by the County and Home Agents. The chairman of each community committee was selected to represent that community on the County Committee. In order that every phase of agriculture in the county be represented on this committee, leading farmers and farm women who were not members of community committees were selected to serve on the County Committee. In addition to farmers and farm women, representatives of the various cooperating agencies were selected by the officials of each agency to act on this committee.
- b. List of names and addresses of members and list of executive and other sub-committee.

<u>NAME</u>	<u>ADDRESS</u>
W. W. Crim	Moore, S. C.
B. W. Turpin	Gramling, S. C.
J. V. Ogle	Landrum, S. C.
J. W. Gaston, Jr.	Duncan, S. C.
C. E. Sloan	Inman, S. C., Rt. 1
S. M. McCall	Woodruff, S. C., Rt. 3
Woodrow Bailey	Lyman, S. C. Rt. 1
T. J. Hendrix	Duncan, S. C., Rt. 1
J. T. Brian	Campobello, S. C., Rt. 1
W. D. Finch	Pauline, S. C.
J. A. Bridwell	Moore, S. C.
Frank Bush (Chairman)	Inman, S. C.
E. L. Bryson	Woodruff, S. C.
C. D. Westbrook	Chesnee, S. C.
J. R. Harley, Jr.	Inman, S. C., Rt. 3
Crayton McCown	Inman, S. C., Rt. 2
M. C. Poole	Cross Anchor, S. C.
Jack Dobson	Spartanburg, Rt. 3
D. L. Mack	Inman, S. C.
W. E. Blackwell	Inman, S. C.
E. M. Clement	Inman, S. C., Rt. 3
H. E. Chapman	Inman, S. C.
H. P. Woodfin	Inman, S. C., Rt. 2
H. C. Cox	Reidville, S. C.
Will Powell	Lyman, S. C.
L. V. Huskey	Spartanburg, Rt. 1
Mrs. E. K. Bryant	Roebuck, S. C., Rt. 2
Mrs. W. V. Parker	Chesnee, S. C., Rt. 2
Mrs. Landrum Sellars	Pauline, S. C.
Mrs. J. A. Bridwell	Moore, S. C.
Mrs. Max Wilson	Inman, S. C., Rt. 2
J. H. Talbert (SCS)	Spartanburg, S. C.
C. W. Rainey (FHA)	Spartanburg, S. C.

County Agricultural Committee (continued)

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W. A. Hambright (FCA)	Spartanburg, S.C.
E. L. Middleswart (FS)	Spartanburg, S. C.
J. F. Jones (CA)	Spartanburg, S.C.
Ellie L. Herrick (HDA)	Spartanburg, S. C.
K. O. Cough (Voc. Teacher)	Spartanburg, S. C.
Ben Dunigian (Boy 4-H)	Spartanburg, S. C.
June West (Girl 4-H)	Pauline, S. C.

Executive Committee

Frank Bush	Inman, S.C.
Crayton McCown	Rt. 2, Inman, S. C.
C. D. Westbrook	Chesnee, S. C.
D. B. Nesbitt	Duncan, S. C.
W. W. Crim	Moore, S. C.
B. W. Turpin	Gramling, S. C.

Sub Committee

The Executive Committee will also serve as the Allocation Committee

Marketing Committee

D. L. Mack	Inman, S. C.
J. W. Gaston, Jr.	Duncan, S. C.
J. V. Ogle	Landrum, S. C.

Soil Conservation Committee

J. A. Bridwell	Moore, S. C.
W. D. Finch	Pauline, S. C.
L. V. Huskey	Spartanburg, Rt.1

Horticulture Committee

H. E. Blackwell	Inman, S. C.
H. E. Chapman	Inman, S. C.
M. C. Poole	Cross Anchor, S.C.

Field Crops Committee

J. R. Harley, Jr.	Inman, S.C.
E. L. Bryson	Woodruff, S. C.
Jack Dobson	Spartanburg, S.C.
Woodrow Bailey	Rt. 1, Lyman, S.C.
J. T. Brian	Campobello, S. C.

Livestock Committee

W. W. Grim	Moore, S. C.
E. M. Clement	Inman, S. C.
Will Powell	Lyman, S. C.
H. P. Woodfin	Inman, S. C.

Pasture and Cover Crops Committee

S. M. McCall	Woodruff, S. C.
Woodrow Bailey	Lyman, S. C.
T. J. Hendrix	Duncan, S. C.
R.C. Cox	Greer, S. C.

4-H Club Committee

C. E. Sloan	Inman, S. C.
Frank Bush	Inman, S. C.
Mrs. W.V. Parker	Chesnee, S. C.
Mrs. Landrum Sellars	Pauline, S. C.

Nutrition Committee

Miss Galen Grier	Spartanburg, S. C.
Mrs. Max Wilson	Inman, S. C., Rt. 2
Mrs. E. K. Bryant	Roebuck, S. C.
Mrs. Ellie L. Herrick	Spartanburg, S. C.
Mrs. Jeannette M. Griffin	Spartanburg, S. C.
D. L. Mack	Inman, S. C.

Representatives To State Agricultural  
Committee

Mrs. E. K. Bryant	Roebuck, S. C.
Frank Bush	Inman, S. C.

Duties and Responsibilities of County Agricultural Committee:

The duties and responsibilities of the County Agricultural Committee include:

- (1) Keeping informed on the trends of agriculture in the county.
- (2) Rendering assistance to Extension personnel in developing an adequate Extension program in the county.
- (3) Assisting in carrying out programs.

List of Organized Communities and Neighborhoods with number of active  
Voluntary Community and Neighborhood Leaders in each.

Landrum Community

1. Blackstock Neighborhood
2. Joseph Walker Neighborhood
3. Bennetts Neighborhood

Campobello Community

1. Pleasant Grove Neighborhood
2. Arthur Jackson Store Neighborhood

New Prospect Community

1. North Pacolet Neighborhood
2. Fingerville Neighborhood
3. Oakland Neighborhood

Rainbow Lake Community

Cooley Springs Community

1. Buck Creek Neighborhood
2. Arrowwood Neighborhood
3. Brookland Neighborhood

Chesnee Community

1. Mayo Neighborhood

Cherokee Springs Community

1. Carlisle Neighborhood
2. Mountain View Neighborhood

Fairforest Community

1. Westview Neighborhood

Reidville Community

1. Woodlawn Neighborhood

Crescent Community

1. Cashville Neighborhood
2. Selma Neighborhood
3. Green Pond Neighborhood

Poplar Springs Community

Woodruff Community

1. Cavins Neighborhood
2. Antioch Neighborhood

Switzer Community

Moore Community

Liberty Community

1. Cannons Camp Ground Neighborhood
2. Zion Hill Neighborhood

Cowpens Community

1. Mt. Oliview Neighborhood

Boiling Springs Community

Gramling Community

Inman Community

1. Cross Roads Neighborhood
2. Cunningham Neighborhood
3. John Dodd Neighborhood

Motlow Community

Holly Springs Community

1. Friendship Neighborhood
2. Henson Neighborhood

Duncan Community

1. Zoar Neighborhood
2. Abner Creek Neighborhood
3. Flatwood Neighborhood
4. Pelham Neighborhood

Wellford Community

Roebuck Community

Walnut Grove Community

Pauline Community

1. Glenn Springs Neighborhood
2. Friendship Neighborhood

Cross Anchor Community

1. Hobbysville Neighborhood
2. Liberty Ridge Neighborhood

Enoree Community

Pacolet Community

1. Whitestone Neighborhood
2. Bethesda Neighborhood

## PROJECT ACTIVITIES AND RESULTS - 1948

AGRICULTURAL ECONOMICS

Work in agricultural economics and farm management in 1948 included the cooperation with farm credit agencies and the Farm Home Administration, farm planning and outlook information.

Outlook Information: One county outlook meeting was held in January 1948. Attendance at this meeting was very small as there was several inches of snow on the ground on the day this meeting was held. However outlook information was made available to farmers through newspaper articles and radio broadcasts. In addition some phase of outlook information was presented to farmers at practically all community meetings. The information presented consisted chiefly of information related to fruit growing, dairying, other livestock work and general farming. While the farmers of Spartanburg County rely on this information, meetings of this nature have not been too well attended for the past several years, due chiefly to the fact that farmers are able to obtain this information through radio broadcasts and other means as mentioned above. This information serves as a guide in farm operations.

Cooperation With Farm Credit Agencies: The county agent cooperated with the Spartanburg Production Credit Association, the National Farm Loan Association, and the Farm and Home Administration in their work of extending credit to farmers of Spartanburg County and also assisted in other programs of this nature. The figures for the amount of loans of the Spartanburg Production Credit Association are not available.

Farm Home Administration: The Farm Home Administration made 342 loans amounting to \$70,000 in 1948. 96% of this amount has been collected.

Tenant Purchase Farms: Fifty two farms have been purchased through the Bankhead-Jones Act. Only one was purchased in 1948. Two of these purchasers have already completed paying for their farms. One of these completed paying in four years and the other in seven years. Payments on these farms are 130% ahead of schedule.

The agents have cooperated throughout the year with the Farm and Home Administration in farm planning and furnishing information to these farm families.



Farm Planning: The county agents rendered assistance in farm planning to S. M. McCall of the Green Pond Section and on the Spartanburg County Farm. This work has resulted in production of more feed crops and an increase in the amount of livestock on the farm.

## AGRICULTURAL ENGINEERING

Agricultural Engineering work during 1948 included soil conservation, farm buildings, operation and repair of farm machinery, and the harvesting and ginning of cotton and ditching with dynamite.

### Soil Conservation

Terracing: The terracing machine, owned by the Spartanburg County Soil Improvement Association, ceased operations in 1948 due to the condition of equipment and not being able to employ suitable personnel for continued operation.

There is one privately owned power terracing outfit operating in the county. During the year this unit has terraced approximately 1250 acres of land on 95 farms.

In addition to the above amount 22 farmers constructed 110,000 linear feet of terracing with farm owned equipment.

District Work: Spartanburg County is served by the Spartanburg Soil Conservation District. This district was previously comprised of Spartanburg, Union and Cherokee Counties and was known as the Broad River Conservation District. This district was broken up into three 1 county district in 1948.

Community Organization: During the year 1946, the Spartanburg Herald-Journal announced that they would sponsor a soil conservation contest in this and five other counties. The extension forces in the county have assisted in organizing 16 community groups representing 235 farmers. The date for entering this contest was closed on January 1, 1947, and the results were judged after the closing date and prizes were awarded. Plans are now under way for starting a new contest in 1949.

### Farm Equipment and Structures

Farm Buildings: Farm building plans from the Extension Agricultural Engineering Division were furnished to farmers for the construction of the following listed farm buildings and structures. A summary of these is found on the following page.

## Building Plans Furnished

Type Plans	Plan No.	No. Plans
Outdoor Fire Place	5609	1
Farm Houses	6526 & 7011	2
Smoke Houses	5029	1
Hog Scalding Equipment	5066	1
Machinery Shed	5148 C	1
Brooder Houses		6
Dairy Barns		7
Total		19

Irrigation: There is considerable interest in irrigation in the county at this time. Six farmers have installed irrigation systems. The crops being irrigated are peaches, truck crops and pastures. More systems will be installed in 1949.

Ditching With Dynamite: The Assistant County Agent conducted one demonstration using dynamite for ditching. With the labor situation as it is this method is well liked by farmers. Several acres of land have been reclaimed this year. A summary of this demonstration follows.

## Dynamite Ditching Demonstration

Name	Length of ditch	Lbs. dynamite	Cost	Cost per foot
B.R.T. Palmer	650 ft.	300	\$94.50	\$.145

Upright Silos: One farmer was given assistance in the construction of an upright silo.

Trench Silos: One farmer was given assistance in constructing a trench silo.

Farm Machinery

Harvesting, Handling and Ginning of Cotton: In cooperation with the Extension Agricultural Engineers, the ginners and farmers of the county were given timely advice regarding the proper harvesting, handling and ginning of cotton.

Farm Machinery Schools: One tractor school and one combine school were conducted during the year with assistance from the Extension Agricultural Engineer. These schools were attended by approximately 600 farmers.

Nutrition Program

Corn Meal Enrichment: 13 grist mills in the county have installed attachments for enriching corn meal. Work on this program will be continued in 1949.

## AGRONOMY

The Agronomy work in 1948 consisted of demonstrations in cotton production, Hybrid corn production, silage, annual grazing crops, seed certification, hay production, legumes for seed and Turkish tobacco.

CottonSummary Results Five-Acre Cotton Improvement

## Demonstrations - Spartanburg County-1948

Name	Lbs. Seed	Lbs. Lint	Value of Crop	Cost Prod.	Net Profit	Variety
J. W. Anderson	8855	4980	1831.58	909.37	922.21	Coker 100 W.R.
B. M. Gramling	8785	4940	1816.91	780.75	1036.16	" " "
D. E. Ferree	8470	4760	1750.87	956.60	794.27	" " "
Henry Gramling	8295	4695	1725.03	724.01	1001.02	" " "
J. F. Hunter	8380	4505	1647.95	550.90	1097.05	" " "
B. M. Gramling	7450	4185	1539.47	594.26	945.21	" " "
Henry Gramling	7330	4120	1515.45	668.51	846.94	" " "
S. L. Vaughan	7075	3975	1462.18	936.59	525.60	" " "
Henry Gramling	6670	3750	1379.27	639.56	739.71	" " "
Manul Pea	6400	3600	1302.00	535.90	766.10	" " "
J. G. Armstrong	6320	3550	1305.90	642.20	663.70	" " "
Dewey L. Mack	6115	3435	1266.58	742.96	523.62	" " "
Alvin Smith	6110	3435	1250.05	527.10	722.95	" " "
M. R. Cash	6080	3420	1257.80	504.10	753.70	White Gold
Ralph C. Kimbrell	6050	3400	1250.62	586.25	664.37	Coker 100 W.R.
Charles W. Easler	5645	3175	1167.71	464.20	703.51	" " "
M. R. Cash	5250	2950	1105.12	461.00	644.12	White Gold
L. N. Rogers	4614	2651	961.33	417.85	543.48	Coker 100 W.R.
Totals	123,894	69,526	\$25,535.82	\$11,642.10	\$13,893.72	

Total seed cotton produced.....	193,420 lbs.
Average lbs. seed cotton per acre.....	2,149 lbs.
" " lint " " " .....	772 lbs.
" value crop per acre.....	\$283.72
" cost of production per acre.....	\$129.35
" net profit per acre .....	\$154.37

## Summary Results Cotton Contest Demonstrations 1940-1948

Year	No. Dems.	Lbs. Lint Per Acre	Value Per Acre	Cost Per Acre	Profit Per Acre
1940	6	775	\$ 91.74	\$ 35.69	\$ 56.06
1941	5	883	197.22	40.36	155.25
1942	6	749	158.53	53.12	105.41
1943	4	525	134.69	67.50	72.39
1944	17	552	149.46	68.20	81.25
1945	12	513	131.65	76.44	66.44
1946	12	487	215.41	88.23	127.18
1947	19	572	223.30	92.35	130.95
1948	18	772	283.72	129.35	154.37

Free Sampling, Grading and Classing Service: The Spartanburg County Cotton Improvement Association was organized in 1946. This made all cotton producers in the county eligible for this service. All ginners were notified. This year only a few ginners have taken advantage of this service. We are planning to continue this work in 1949.

Oats Production

Oats Production: Three demonstrations in the production of oats were completed in 1948. A summary of these demonstrations follow:

## Summary of Oats Production Demonstrations

Name	Variety	Acres	Yield Bu.	Yield Per A.	Cost Prod.	Cost Per Bu.	Value	Prof
Spartanburg County Farm	Fulgrain	15	750	50	\$279.90	.37	\$750.00	\$470.
D. L. Mack	Fulgrain	2	139	69½	62.00	.45	139.	77.
George Wolfe	Fulgrain	5	250	50	159.50	.62	250.	90.
Totals		22	1139		501.40		\$1,139.	\$637.
Averages per acre				56.5	22.80	.48	\$1.77	28.9

These demonstrations show an average yield of 51.8 bushels per acre as compared with a county average of 25.1 bushels per acre. This increased yield is a result of using approved production methods. The cost of production including rent of land, fertilizer, and all costs involved in the production of this crop.

### Wheat Production

Wheat Production Demonstrations: Three demonstrations in the production of wheat were conducted in 1948. A summary of these demonstrations follow:

#### Wheat Demonstrations

Name	Acres	Yield Bu.	Bu. Per A.	Cost Prod.	Cost Per Bu.	Value	Profit
M. R. Cash	12	190	16	\$320.00	\$1.68	\$418.00	\$98.00
J. L. Dunigian	5	100	20	113.00	1.13	220.00	107.00
Spartanburg County Farm	30	539	17½	601.80	1.11	1,078.00	476.20
Totals	47	829		1,034.80		1,716.00	681.20
Average per A.			17.6	22.01	1.30	36.51	14.49

The yield for these demonstrations is considerably above the average yield for the county.

#### Summary of Barley Demonstrations

Name	Acres	Yield Bu.	Bu. Per A.	Cost Prod.	Cost Per Bu.	Value	Profit
Spartanburg County Farm	30	1200	40	\$1,045.20	.87	\$1,800.00	\$754.80
H. P. Woodfin	8	280	35	236.40	.84	420.00	236.40
Totals	38	1480		1,281.60		2,220.00	991.20
Average per A.			38.9	33.73	85½	58.42	26.06

These demonstrations show an average of 38.9 bushels per acre which is considerably above the average production of this crop for the county. The cost of production including rent of land, fertilizer and all other costs involved in the production of this crop.

### Hybrid Corn Production

During 1948 increased yields of corn per acre were stressed. Information was given through newspaper articles and radio broadcasts. Demonstrations included Hybrid and local varieties were conducted.

Corn Production Demonstration: Three farmers completed corn production demonstrations in 1948. These demonstrations show the importance of proper spacing, fertilization, and the use of good seed. A summary of these demonstrations follows:

### Hybrid Corn Production Demonstrations

Name	Acres	Yield Bu.	Bu. Per Acre	Cost Prod.	Cost Per Bu.	Value	Profit
B. R. T. Palmer	5	210	42	\$166.50	.78	\$315.00	\$148.50
D. L. Mack	5	214	42.8	150.40	.70	321.00	170.60
D. L. Mack	5	193.5	38.7	180.40	.90	290.25	109.85
Totals		617.5	123.5	497.30	2.38	956.25	428.95
Average per acre		41.2	41.2	33.15	.79	61.75	28.60

These demonstrations show an average yield of 41.2 bushels per acre as compared with 16.9 bushels in 1944. There is a rapid increase each year in the acreage of Hybrid corn. This along with improved cultural and fertilizing practices is steadily increasing the yield of corn per acre in Spartanburg County.

### Legumes for Hay

Legumes for Hay: Legume hay demonstrations were conducted during 1948 with alfalfa and annual lespedeza.

### Lespedeza for Hay

Annual Lespedeza: Three demonstrations in the production of annual lespedeza for hay were conducted in 1948. A summary of these demonstrations will be found on the following page.



## Summary of Demonstrations of Lespedeza for Hay Production

Name	Variety	Acres	Yield Tons	Cost Prod.	Cost per Ton	Value	Profit
W. W. Crim	Kobe	55	75	\$2,531.00	\$36.80	\$3,375.00	\$844.00
Johnnie Clement	Kobe	5	7 $\frac{1}{2}$	230.00	30.60	337.50	107.50
C. E. Sloan	Kobe	5	7 $\frac{1}{2}$	218.00	29.00	337.50	119.50
Ben Turpin	Korean	30	30	897.50	23.25	1,350.00	452.50
Totals		95	120	\$ 3,876.50		\$ 5,400.00	\$ 1,523.50
Average per acre			1 1/4	\$ 40.80	\$ 32.30	\$ 56.84	\$ 16.03

Production cost includes seed, labor, baling, fertilizer and other costs connected with the production of this crop. Interest in lespedeza as a hay crop has increased for the past several years, and is well adapted to the Piedmont Section.

Alfalfa for Hay Demonstration

Three demonstrations in the production of alfalfa for hay were conducted in 1948. A summary of these demonstrations follows:

## Alfalfa Demonstrations

Name	Acres	Cost	Value	Profit	Year
S. M. McCall	3	\$537.65	\$ 750.00	\$212.35	1st year
Spartanburg County Farm	15	1,584.00	3,750.00	2,166.00	2nd year
Finch Bros.	5	521.75	1,250.00	728.25	2nd year
Totals		\$2,643.40	\$5,750.00	\$3,096.50	
Average per acre		\$114.90	\$250.00	\$134.62	

Annual Grazing

In 1948 twenty eight annual grazing demonstrations were conducted and proved to be of considerable value to farmers using these crops. With the shortage of labor, farmers are beginning to adapt systems that make it possible for livestock to harvest their own feed. A summary of these demonstrations follows:

## Annual Grazing Demonstrations

Name	Acres	Animal Units Grazed	Total Days Grazed	Cost	Profit	Crop
J. W. Gaston, Jr.	50	175	110	\$2,484.50	\$4,500.	4 bu. Barley 4 bu. Rye 20 lbs. Rye Grass 20 lbs. C. Clover
J. A. Harmon	8	40	70	363.80	675.	1 bu. Oats 2 bu. Barley $\frac{1}{2}$ bu. Rye 44 lbs. Rye Grass
W. D. Burnett	31	60	90	1,580.60	2,700.	4 bu. Barley 20 lbs. Rye Grass 20 lbs. C. Clover 15 lbs. Fescue
Fred Johnson	15	45	40	591.50	900.	2 Bu. Barley 2 Bu. Oats 40 lbs. Rye Grass 30 lbs. C. Clover
Paul Hendrix	10	26	90	320.75	810.	40 lbs. Rye Grass 20 lbs. C. Clover
J. M. Skinner	12	30	160	586.80	1,080.	2 Bu. Oats 2 Bu. Barley 50 lbs. Rye Grass 20 lbs. C. Clover
R. C. Lawson	30	35	100	912.00	2,250.	2 Bu. Barley 20 lbs. Rye Grass 20 lbs. C. Clover
Finch Bros.	20	36	80	636.80	900.	2 Bu. Barley 2 Bu. Oats 35 lbs. Rye Grass 15 lbs. C. Clover
H. H. Gregory	12	10	85	437.60	765.	30 lbs. Rye Grass 20 lbs. C. Clover
Claude Bishop	6	12	180	413.90	540.	35 lbs. Fescue 20 lbs. C. Clover

## Annual Grazing Demonstrations - continued

Name	Acres	Animal Units Grazed	Total Days Grazed	Cost	Profit	Crop
R. T. Brown	3	5	30	77.60	90.00	2 Bu. Barley 2 Bu. Oats
B. R. T. Palmer	5	16	90	164.05	450.00	4 Bu. Barley 20 lbs. Rye Grass
Joe V. Barnett	4	6	60	83.50	150.00	2 Bu. Barley 2 Bu. Oats 20 lbs. Rye Grass
H. W. Seawright	4	7	75	152.30	315.00	25 lbs. Rye Grass 25 lbs. Fescue
M. S. Williams	7	7	50	234.47	360.00	6 Bu. Oats 23 lbs. C. Clover
Sloan Anderson	5	10	60	134.80	270.00	4 Bu. Barley 3 Bu. Oats. 20 lbs. Rye Grass
J. R. Harley	6	18	30	241.50	351.00	4 Bu. Barley 3 Bu. Oats 4 lbs. Rye Grass
J. W. Danson	10	36	60	449.00	585.00	2 Bu. Barley 2 Bu. Oats 20 lbs. Rye Grass 20 lbs. C. Clover
Jos. R. Lee	15	20	50	430.40	540.00	3 Bu. Oats. 3 Bu. Barley 40 lbs. Rye Grass
E. M. Clement	14	60	75	475.60	990.00	40 lbs. Rye Grass 35 lbs. C. Clover 15 lbs. Fescue
M. B. Smith	16	30	60	630.65	1,035.00	2 Bu. Barley 2 Bu. Oats 25 lbs. C. Clover 40 lbs. Rye Grass
H. S. McKinney	15	13	153	397.47	900.00	5 Bu. oats 15 lbs. C. Clover
W. C. Hudson	10	30	150	523.75	1,125.00	3 Bu. Barley 3 Bu. Oats 40 lbs. Rye Grass 25 lbs. C. Clover

## Annual Grazing Demonstrations - continued

Name	Acres	Animal Units Grazed	Total Days Grazed	Cost	Profit	Crop
Ralph Rhodes	10	15	150	466.45	1,002.00	5 Bu. Barley 50 lbs. Rye Gra 30 lbs. C. Clove
H. P. Woodfin	14	27	90	455.43	675.00	22 lbs. C.Clove 52 lbs. Rye Gra 12 lbs. W.Clove 52 lbs. Rye Gra
S. M. McCall	12	18	45	547.20	900.00	7 Bu. Oats 30 lbs. C. Clov
Spartanburg County Farm	24	38	72	600.20	901.00	2 Bu. Wheat 3 Bu. Barley 3 Bu. Oats 20 lbs. Rye Gra 20 lbs. C.Clove
Totals	374	843	2,340	\$14,828.12	\$26,299.00	
Averages per acres	13.4	2.3	63	\$39.64	\$70.32	

The above demonstrations show that 374 acres of annual grazing was seeded at an average cost of \$39.64 per acre, and the average returns were \$70.32 per acre. The importance of annual grazing has been stressed throughout the year and the progress achieved has been great. A grazing calendar for the county was prepared and mailed to every farmer.

### Silage Production

Silage Production: Four demonstrations in the production of silage were conducted in 1948. These demonstrators used a combination of corn and cane, corn, cane and soy beans, oats and barley or corn alone. A summary of these demonstrations follows:

#### Silage Production Demonstrations

Name	Acres	Tons	Cost	Value	Profit	Crop
W. W. Crim	15	110	\$544.80	\$1,375.00	\$830.20	Corn, cane, soybean
H. W. Seawright	5.5	55	305.70	687.50	381.80	Corn
H. P. Woodfin	12	72	762.00	900.00	138.00	Oats and Barley
Spartanburg County Farm	31	180	1,055.80	2,250.00	1,194.20	Corn
Totals	63.5	417	\$2,668.30	\$5,212.50	\$2,544.20	
Average per acre		6.6	\$42.02	\$82.10	\$40.10	

Dairymen and beef cattle farmers are finding that silage is their cheapest roughage feed. The Extension Service recommends that it would be economical for any farmer having as many as five head of cattle on his farm to build a silo. More silos are being built each year.

### Seed Certification Program

The County Agent assisted in the carrying out of seed certification program, which was started in 1947. This year there was more interest shown in seed certification than ever before. As farmers become better acquainted with this program more seed will be certified each year. A summary of the crops certified follows:

#### Cotton

Name	Address	Variety	Acres
Foster Farm	Roebuck, S. C.	Coker 100 W.R.	20
B. E. Gramling	Gramling, S. C.	" " "	421
Total			441

Oats

23

Name	Address	Variety	Acres
B. E. Gramling	Gramling, S. C.	Fulgrain	7
B. E. Gramling	" "	Victor grain	7
W.S. Sandifer	Spartanburg, S. C.	" "	3
H. D. Leonard	Woodruff, S. C.	" "	1
Totals 4			18

Wheat

Name	Address	Variety	Acres
B. E. Gramling	Gramling, S. C.	Hardired	10
W. S. Sandifer	Spartanburg, S. C.	"	3
B. E. Gramling	Gramling, S. C.	Redhart	6
H. D. & L. Leonard	Woodruff, S. C.	"	21.5
Totals 4			40.5

These summaries show that these farmers had certified 441 acres of cotton, 18 acres of oats and 40.5 acres of wheat, a total of 499.5 acres. The production of certified seed will increase the income of these farmers and will be a source of good seed for others.

Permanent Pastures

Permanent Pastures: Two permanent pasture demonstrations were completed in 1948. Permanent pastures are being looked upon as a more important phase of agriculture as farmers are beginning to realize that a livestock program cannot be successful without a successful feed production program. A summary of permanent pasture demonstrations will be found on the following page.

Permanent Pastures

Name	Acres	Established	Treatment	Animals grazed	Grasses Seeded	Days Grazed	Animal Units grazed	Animal Units grazed per acre
Spartanburg County Farm	15	1947	Manure Lime Superphosphate Basic Slag Complete Fertilizer		Ladino Clover	185	33	2.2
C. D. Westbrook	3	1943	Lime (3 tons per acre in last 5 yrs) Complete fertilizer Superphosphate Soda Muriate of potash		Fescue Ladino clover Bermuda Grass			

Remarks: No accurate information could be obtained on Mr. Westbrook's demonstration regarding the amount grazing secured on this demonstration. This demonstration was conducted on a part of a pasture and was not fenced off. The observations of Mr. Westbrook and the County Agent were that the cows spent more time grazing on the demonstration area.

## Crimson Clover

Crimson Clover for seed production: One demonstration of Crimson clover for seed production was conducted in 1948. These seed were harvested with a combine. A summary of this demonstration follows:

## Summary Crimson Clover Seed Demonstration

Name	Acres	Crop	Pounds Seed	Pounds per acre
R. C. Lawson	5	Crimson clover	2250	450

Fertilizer Demonstration

Fertilizer Demonstration: One fertilizer demonstration with corn was conducted on the Spartanburg County Farm. This field of corn was divided into three, one acre plots. The method of fertilizing was the farmer's usual practice which consisted of 200 pounds per acre of 4-8-6 and 100 pounds per acre of nitrate of soda. Plot No. 2 was fertilized with 400 pounds of 3-12-12 per acre plus 80 pounds of nitrogen as a side dressing. Plot No. 3 was fertilized with 400 pounds of 3-12-12 fertilizer per acre plus 120 pounds of nitrogen as side dressing. Plot No. 1 on the farmer's acre was planted in 4 foot rows with the plants spaced 24 inches in drill. Plots 2 and 3 were planted with rows  $3\frac{1}{2}$  feet apart with a spacing in the drill on plot No. 2, 18 inches and plot no. 3, 12 inches. A summary of this demonstration follows:

## Fertilizer Demonstration

Crop	Fertilizer	Row Width	Spacing in drill	Yield
Plot # 1 corn	200 lbs. 4-8-6 plus 18 lbs. N. side dressing	48"	24"	23.2
Plot # 2 corn	400 lbs. 3-12-12 plus 80 lbs N. side dressing	42 "	18"	54.5
Plot # 3 corn	400 lbs 3-12-12- plus 120 lbs. N. side dressing	42"	12"	71.8



This demonstration shows that where the farmer's usual practice was followed the yield was 23.2 bushels per acre. Where 80 pounds of nitgren was used as a side dressing with 18 inch spacing in the drill and  $3\frac{1}{2}$  foot fows, the yield was 54.5 bushels per acre. The plot with 12 inch spacing in the row and with 120 pounds of additional nitrogen, the yield was 71.8 bushels to the acre. It was also observed in the highly fertilized plot that the corn did not suffer from dry weather.

#### Grazing Tour

In the spring of the year a grazing tour was conducted on the Spartanburg County Farm. All grazing crops were observed and the meeting was attended by 125 farmers.

#### Turkish Tobacco

This is a new crop in Spartanburg County and there will probably be some increase in acreage in 1949. Two demonstrations were conducted in 1948. A summary follows:

#### Turkish Tobacco Demonstrations

Name	Address	Actual		Acre		Price Rec'd	
		Acreage	Yield Return (Lbs.)(¢)	Yield (Lbs.)	Value (¢)	Per (¢)	Pound
Albert Foster	Greer, Route 5	.25	244 222.67	976	890.70	.9150	
Baker McClimon*	Greer, Route 5	.20	149 66.40	745	331.53	.4456	
Total		.45	393 289.07				

Average acre yield -- 860 pounds

Average acre value -- \$611.11

\*Harvested about one-half of crop

Miscellaneous

County and Community Fertilizer Meetings: Fertilizer was discussed at one county and various community meetings. These discussions included fertilizer recommendations and the availability of materials.

Seed Cleaning Treating and Testing: The County Agents assisted farmers in getting seed tested and germination and purity tests made through the Commissioner of Agriculture's office, and advised the use of good seed in connection with every crop planting. The seed cleaning machinery that was installed at the Spartanburg County Farmers' Market in 1947 has been available for use by farmers throughout the year. This equipment also included equipment for treating seed. During the year 7,118 bushels of seed were cleaned or treated for farmers. This service will enable farmers to plant better seed and should insure higher crop yields.

Soil Testing: Soil samples were taken and sent to Clemson for analysis on request.

## ANIMAL HUSBANDRY

Animal Husbandry work in Spartanburg County in 1948 consisted of educational work with swine and beef cattle.

### Swine

Work with swine in 1948 included information on meat cutting and curing and proper feeding practices.

Meat Cutting and Curing: Information on meat cutting and curing was given farmers through newspaper articles and radio broadcasts.

Farmers were also encouraged to use the facilities of the Spartanburg County Farmers' Market and Cold Storage Locker Plant in curing their meat. Farmers are realizing more and more the advantages of this method in saving and proper curing of home grown meat. During 1948, 253,770 pounds of meat was stored in the locker plant.

Surplus Potatoes: One demonstration was conducted using surplus potatoes as a feed for hogs. This demonstration was conducted by Mr. W. E. Poole of Spartanburg. The potatoes were fed to 45 hogs and 75 pigs. No record of pounds gained were kept but Mr. Poole states that these potatoes make a satisfactory ration if used as a supplementary feed. The spoilage was also high.

### Beef Cattle

Beef cattle work in 1948 consisted of placing purebred sires and purebred cows and heifers, also assisting farmers in purchasing steers for feeding, giving information on proper feeding methods and the production of feed.

Purebred Sires Placed: During 1948 three purebred bulls were placed, a summary of these placings will be found on the next page.

## Purebred Bulls Purchased By Farmers - 1948

Name	Breed	No.
Ralph W. Crowe	Hereford	2
H. P. Woodfin	"	1
Totals		3

Purebred Cows Placed: During 1948, 5 farmers were assisted in buying purebred cows. A summary of these purchases is given below.

## Purebreds Purchased by Farmers - 1948

Name	Address	No.	Breed	Value
Ralph W. Crowe	Woodruff, S. C.	5	Hereford	\$2,715.00
E. M. Clement	Inman, S. C.	2	"	800.00
W. C. Bishop	Inman, S. C.	3	"	1,255.00
Woodrow Bishop	Inman, S. C.	2	"	685.00
J. W. Wolfe	Inman, S. C.	1	"	330.00
Totals 5		13		\$5,785.00

Sale Of Beef Cattle: The county agents cooperated with beef cattle producers in conducting sales and assisted in selling beef cattle both through auction sales and individual. A summary of these sales is listed below.

## Summary Sales Beef Cattle

Name	No.	Breed	Kind	Sale Price
E. M. Clement	5	Hereford	Cows	\$1,640.00
E. M. Clement	2	"	Bulls	1,085.00
H. W. Seawright	1	Angus	"	200.00
Totals	8			\$2,925.00

Annual Grazing Crops: Information was furnished beef cattle producers on a production offeed, particularly annual grazing crops. These grazing crops were used for breeding herds and also for grazing steers. This program has met with approval by all those who have tried it. These demonstrations are summarized in the Agronomy Section of this report.

Miscellaneous: During the year, beef cattle men were given information regarding the control of parasites affecting cattle.

DAIRYING

Extension work in dairying 1948 included silage, production, annual grazing crops, hay production, permanent pasture work, artificial breeding, parasite control and the placing of purebred sires and females and D.H.I.A. work.

Purebred Sires Placed: Mr. C. H. Lomas, Extension Dairy Specialist assisted Mr. W. W. Crim, a jersey breeder, in selecting a bull for his herd.

Dairy Herd Improvement Work: Considerable emphasis in dairy Extension Work in 1948 has been given to D.H.I.A. work. Eight dairymen of the county are enrolled in this work and their records are proving of great value to them in improving the efficiency of their production, and also as educational material for extension work with other dairymen of the county.

By studying the reports sent out by the extension dairy division each month, it is found that those dairymen who have good pastures, supplemented in off-seasons by temporary grazing crops, have the smallest cost per hundred pounds of milk produced. These records also show conclusively the value of high producing cows, the production of home-grown feeds, the proper use of concentrates, and other facts of importance to the dairymen. A summary of dairy herd improvement work for 1948 follows:

Dairy Herd Improvement

Name	No. Cows	Avr. Annual Prod. per cow	Cost per cwt milk
Four Column Farm	30	5,339	\$3.38
B. M. Gramling	75	5,385	3.64
Joseph Lee	39	4,610	3.34
Ward Crim	27	8,032	3.24
C. R. Hannah	27	5,513	3.33
J. H. Smith	30	8,161	2.80
V. M. Montgomery	67	8,610	3.14
Johnson Brothers	22	7,457	2.78

The above eight dairymen completed the full twelve months on D.H.I.A. test, and the above table shows the annual average number of cows on test for each individual. It also shows the average annual production per cow and the average annual cost of milk per 100 pounds. Five other dairymen started on D.H.I.A. test but did not complete the full twelve months.

Sales Dairy Cattle: The county agents cooperated with the North and South Carolina Jersey Cattle Club in conducting the Spring Donation Sale at Spartanburg, South Carolina; and also with the South Carolina Jersey Cattle Club in conducting a Heifer Sale at Greenwood, South Carolina. A summary of these sales follows:

## Sales Of Dairy Cattle - 1948

Occasion	No.	Breed	Kind	Amount
N. C. - S. C. Donation Sale	2	Jersey	Female	\$425.00
Jersey Heifer Sale	7	Jersey	Female	\$1,310.00
Totals	9			\$1,735.00

Purchases Of Dairy Cattle: In addition to the dairy cattle sold, Spartanburg County farmers, at different sales throughout the state purchased 12 Purebred Females. A summary of these sales is listed below.

## Purchases Of Dairy Cattle - 1948

Name	No.	Breed	Kind	Am't. Paid
George L. Wolfe	2	Jersey	Females	\$385.00
Ralph Woodfin	1	"	"	160.00
James Robertson	1	"	"	130.00
D. E. McMillan	1	"	"	115.00
Horace Bishop	1	"	"	200.00
Johnston Brothers	3	"	"	490.00
John Turpin	1	Guernsey	"	135.00
Johnnie Fisher	1	"	"	185.00
Melvin Gowan	1	Jersey	"	135.00
Totals	12			\$1,935.00

These cattle will contribute to the improvement of the dairy cattle in Spartanburg County.

Milk Routes: Three Grade A milk routes are being operated in the county. These routes are supplied by 53 county producers. The average amount of milk picked up per day is 1,830 gallons with an annual average value of \$367,372.50. This does not include the retail routes that are operated in the city and county.

Dairy Barn Construction: During the year 6 dairy barns were constructed by dairymen of the county. These dairymen used either the Clemson College plans or a modified form of these plans. These people are well pleased with the barns they have built.

Silo Construction: Construction of silos is discussed under the Agricultural Engineering Section of this report.

Artificial Insemination Program: This program was started in 1945 and has been operating continuously since that time. The County Delegation has made the necessary funds available to carry on this work and it is hoped that it will be self-sustaining within a few years. This organization is governed by a board of directors consisting of nine members, with advisory assistance from the Extension Service and Prof. J. P. LeMaster, Head of the Dairy Department at Clemson College. This program should greatly improve the quality of dairy cattle in Spartanburg County as it will make top herd bulls available to all farmers in the county. Semen is now being shipped from the bulls at Clemson and four breeds are available. These are Jersey, Guernsey, Holstein and Brown Swiss. Mr. J. W. Kelly is the technician for the Association and has proven to be a very conscientious worker.

#### Summary Artificial Breeding Work - 1948

Annual Report 1948, Spartanburg County Cooperative Breeding Association:

The following report shows the volume of breeding and the efficiency of conceptions in Spartanburg County from December 1, 1947 to November 30, 1948.

##### I Volume:

Table 1 shows the number of cows bred in 1948 by months and the breedings are further broken down to show the number of cows bred for the first time, second time and three (or over) times. Table 1 also shows the number of miles traveled by the technician in breeding cows.



Table I, Breedings from December 1, 1947 - November 30, 1948

	1st. Breeding	2nd Breeding	3rd or over	Total	Miles
Dec. 47	85	21	17	123	2,068
Jan. 48	50	27	19	96	1,612
Feb. "	47	28	20	95	1,737
Mar. "	66	25	18	109	1,823
Apr. "	81	32	10	123	2,058
May "	96	41	23	160	2,289
June "	95	56	37	188	2,567
July "	96	36	40	172	2,523
Aug. "	103	40	21	164	2,585
Sept. "	102	33	35	170	2,472
Oct. "	84	30	16	130	2,258
Nov. "	125	39	25	189	2,420
Total	1,030	408	281	1,719	26,412

II Efficiency: The efficiency of breeding is judged by number of first breedings that fail to call back for re-breeding. For the 12 month period October 1947 through September 1948 there was 963 first breedings of which 574 failed to call back, making 59.6% non returns. 60% non returns from first breedings is considered good.

There was an increase of 153 first breedings in 1947 over 1946 and an increase of 451 first breedings in 1948 over 1947. The number of first breedings increased 77.8% from 1947 to 1948. Farmers are generally favorably receptor to artificial breeding and it is believed that this will be the primary means of breeding cows in Spartanburg County by the time the breeding association matures.

The Spartanburg County Cooperative Breeders Association has employed a part time technician in addition to the full time technician and is now in position to give Sunday breeding service. The goal for 1949 is to get enough increase to employ two full time technicians.

Annual Grazing Crops: Since temporary grazing crops are important in the economical production of milk, the county agents conducted a special campaign among the dairymen of the county to encourage the production of both summer and winter grazing crops to supplement pastures. This campaign resulted in the largest acreage of these crops than has ever been planted in the county. A number of annual grazing demonstrations were conducted in 1948 and were discussed in the Agronomy Section of this report.

Permanent Pastures: Permanent pastures are discussed in the Agronomy Section of this report.

Silage Production: Silage Production demonstrations are summarized in the Agronomy Section of this report.

Surplus Potatoes: 30,000 pounds of surplus potatoes were secured for George L. Wolfe, a dairyman of Inman, South Carolina. Mr. Wolfe stated that these potatoes made satisfactory feed but the percentage of spoilage was high.

4-H Dairy Calf Club Work: The 4-H Dairy Calf Club Work was continued during 1948. At the present time 31 members own purebred animals. A number of these animals were exhibited at the Piedmont Interstate Fair in Spartanburg and the State Fair in Columbia.

Parasite Control: Farmers were advised as to the treatment of cattle for fly control by the use of DDT, and given instructions in grub control by using Py-ro. Instructions were also given in treating dairy barns with DDT.

## ENTOMOLOGY AND PLANT PATHOLOGY

Extension work in Entomology and Plant Pathology in 1948 included work with crop insects, fruit insects, plant diseases and beekeeping.

### Crop Diseases

Dust Treatment of Cotton Seed: Dust treatment of cotton seed has become such a common practice in the county that we did not think it was necessary to conduct demonstrations. Timely press articles were published called the attention of farmers to the fact that seed treatment should be used, and giving information as to how it should be used. The majority of the cotton in Spartanburg County is planted with treated seed.

Small Grain Disease Control: In cooperation with the Extension Entomologist, a survey of several small grain fields was made in the county in the spring of 1948. The purpose of this survey was to learn the different small grain diseases in the county. This information is being used to aid farmers in controlling these diseases. Farmers are taking advantage of the seed cleaning and treating equipment at the Farmers' Market.

Tomato Disease Control: Tomato growers were furnished information regarding the control of late blight. A considerable acreage was sprayed with copper for the control of this disease. It was found that this disease could be checked to a certain extent but could not be fully controlled.

### Insects and Rodents

Rodent Control Program: In February of 1948, a rat control program was conducted in the county. Approximately 100 stations were set up at stores and filling stations throughout the county were taking orders for poison. 3,225 pounds of this material was bought and instructions for using were distributed along with the poison. The results were satisfactory and farmers saved a large amount of grain through this program. It is planned to conduct a similar program in 1949.

Tomato Insect Control: Tomato growers were advised to use cryolite for control of tomato worm. The results obtained were satisfactory.

Cantaloupe Insect Control: Cryolite and DDT were used for control of worms in cantaloupes. Use of these materials enabled several growers to market quality melons throughout the season.

Control of Army Worms On Feed Crops: A severe outbreak of Army Worms on pastures, grazing crops and corn threatened to destroy a large acreage during the summer. Farmers were given information on the use of Benzene Hexachloride, Chlordane and Chlorinated Camphene. A large acreage was dusted with these materials and in most cases satisfactory results were obtained. No loss of livestock was reported.

Boll Weevil Control: A campaign on the use of the new organic poisons Benzene Hexachloride, Chlordane and Chlorinated Camphene for the control of boll weevil was conducted in 1948. Meetings were held with representatives of the different agricultural agencies and members of the County Agricultural Committee for the purpose of planning this campaign. Circular letters were issued at regular intervals giving information on the different materials and methods and time of application. Meetings were also held in several communities and this program was also discussed in radio broadcasts and newspaper articles.

Also followed the usual practice of keeping the farmers as well informed as possible on the boll weevil situation, weekly checks were made on both poisoned and unpoisoned fields in representative sections of the county. This method brought out the degree of infestation in unpoisoned fields and at the same time gave comparisons between the poisoned and unpoisoned fields. These infestation counts were continued until the migration of the boll weevil began. Five poisoned and three unpoisoned fields were checked. A summary of this information will be found on the following page.

Summary Checks On Boll Weevil Infestation

Name	Material used	Lbs. per acre	Avr. infest. poisoned	Avr. infest. unpoisoned	Results
Perry Whited	Chlordane	10	8%		Satisfactory
D. L. Mack	B.H.C.	10	7%		Excellent
J. G. Armstrong	B.H.C.	12	6%		Excellent
C. D. Westbrook	B.H.C.	12	8.4%		Excellent
F. H. Dobson	none	none		12.9%	
J. B. Foster	none	none		13 %	
C. H. Workman	Toxaphene	10	8%	6.7%	Satisfactory
Ferrel Morrow	none	none			

Boll Weevil Control Continued: More acres of cotton were poisoned in 1948 than in any other year. The results were satisfactory and the yield of cotton this year will be approximately 8,000 bales more than in 1947.

Peach Insect Control: Peach growers were furnished spray schedules for the control of peach insects and diseases. The quality of fruit produced in 1948 was very good. This phase of Extension Work will be discussed further in the Horticulture Section of this report.

Apple Insect Control: Apple growers were furnished the revised spray calendar which carried the latest recommendations for the control of the pests that usually attack the crop. Apple growers were also advised that unless a thorough job was done, no spray would be effective.

Cattle Louse and Grub Control: Timely news articles were published recommending the use of dust mixed according to Extension formulas for the control of cattle lice and grubs.

Fly Control: Information was given on the use of DDT in the control of flies on cattle and in dairy barns. The bulletin published by W. C. Nettles, Extension Entomologist, was distributed throughout the county and the information was well received.

Other Insects: Information was published and given individual farmers during the year regarding the control of miscellaneous insects.

Brown Rot Control In Peaches: The infestation of brown rot was not as serious in 1948 as in 1947. Information on the control of this disease was given through newspaper articles, orchard letters and radio broadcasts. An intensive clean-up campaign was conducted in peach orchards during and after the harvesting season.

Cotton Defoliation: Two demonstrations using Cyanamide as a defoliant were conducted in 1948. A summary of these demonstrations follows:

Summary Cotton Defoliation Demonstrations

Name	No. acres	Lbs. per acre used	Results
C. D. Westbrook	30	18	Fair
J. C. Parrish	53	30	Excellent

BEEKEEPING

Beekeeping: The Spartanburg County Beekeeper's Association organized by the county agent in 1925 was reorganized in 1948 and the meeting date changed from the first Saturday afternoon to second Tuesday night in the month. This change has improved the attendance. The Extension Bee Specialist or the County Agent always attend these meetings and discusses timely subjects of interest to beekeepers.

The members of the local association have been very active in the organization work of the State Association. A. B. Ezell, Spartanburg beekeeper, being the first president of the Palmetto Beekeeper's Association.

Packing Honey In Marketable Shape: The county association of beekeepers adopted the labels and containers recommended by the Palmetto Beekeepers' Association, and practically all of the honey sold by these members was packed in standard containers and under standard labels.

Individual Aid To Beekeepers: A number of beekeepers were visited by Mr. E. S. Prevost, Extension Bee Specialist, and given assistance in transferring, requeening, etc.

## FORESTRY

Forestry work in 1948 included reforestation, woodland examinations, and rural fire prevention program. The county agent also cooperated with the District and Extension Forester and the Spartanburg County Forest Protective Association.

Woodland Examinations: Woodland examinations are available to all farmers in South Carolina at no cost. The farmer also has the choice of learning to mark and scale the trees to be removed, or of hiring this work to be done at a nominal cost. In 1948 woodland examinations were made for 15 Spartanburg County Farmers. A summary of this work follows:

## Woodland Examinations

Name	No. Acres Examined	Acres Marked	Bd. Ft. Marked
Willis Adair	65		
Bellenger, Est.	35		
Conrad P. Cleveland, Jr.	120		
Miss Elizabeth Cleveland	12		
B. M. Gramling	200		
E. B. Hammond	70		
J. M. Henderson	50	12	12,835
Joseph Lee, Jr.	300		
Mrs. Mary Nesbitt		300	359,980
Mrs. C. H. Poole	13		
J. E. Poole	45		
J. T. Poole	155	40	36,200
Paul L. Smith, Sr.	10		
F. M. Steele	40		
Wm. Stroud	45		
Total	1160	352	409,015

Rural Fire Prevention Program: Envelope stuffers sent out by the Extension Forester were used to acquaint rural people with the fire prevention program. The envelope stuffers were placed in envelopes containing individual and circular letters going out from the county agent's office and the book markers were distributed among the schools. Newspaper articles and radio programs were also used in connection with this program, and it applied both to the prevention of fire in the woods and to farm buildings.



## list of

Marketing: During the year a/saw mills operating in the county was brought up to date. Keeping this list of saw mills up to date greatly increases the efficiency in marketing timber. We also furnish on request a pulpwood directory giving pulpwood specialists, names of buyers and other information that is useful to land owners in marketing wood.

Tree Planting: A large number of farmers were personally advised as to how to obtain trees through the state forestry commission and the results totalled 145,200 trees planted in Spartanburg County in 1948, which consisted of 109,700 loblolly, 5,500 longleaf, 3,100 slash. A list of the persons receiving these trees follows:

Distribution of Seedlings for Fiscal Year 1947-48

<u>Name</u>	<u>Species</u>	<u>Number</u>
W. C. Anderson, Jr.	Loblolly	1,500
J. C. Billings	Loblolly	1,000
L. L. Billings	Loblolly	2,000
Ray L. Bishop	Loblolly	1,000
J. A. Bridwell	Loblolly	3,000
James T. Brown	Loblolly	1,000
V. D. Bryant	Loblolly	2,000
Mrs. John Bullington	Loblolly	200
Mrs. Sam H. Burgess	Loblolly	1,000
M. R. Cash	Loblolly	5,000
Conrad P. Cleveland, Jr.	Loblolly	5,000
Giles Cleveland	Loblolly	5,000
D. E. Converse Co.	Slash	10,000
R. L. Cooley	Longleaf	500
Tom M. Craig	Longleaf	500
Frank Bush	Longleaf	500
J. J. Cudd	Loblolly	5,000
C. B. DesChamps	Loblolly	500
H. E. DePass, Jr.	Loblolly	15,000
Finch Brothers	Loblolly	2,000
Ralph V. Foster	Loblolly	500
Edward Frady	Loblolly	1,000
J. A. Gibbs	Loblolly	500
J. A. Gibbs	Slash	500
Fred N. Hall	Longleaf	2,000
Mrs. J. R. Harrison	Loblolly	500
M. C. Henson	Loblolly	500
A. L. Jones	Loblolly	5,000
R. C. Kimbrell	Loblolly	1,000
J. Alvan Lancaster	Slash	5,000
Mrs. Janet F. McCoy	Loblolly	1,000
M. E. McGuinn	Loblolly	5,000
Robert D. McMillih	Loblolly	1,000

Publications:Literature giving instructions on the planting of seedlings and also on the treatment of fence posts for longer life were distributed throughout the county.

#### 4-H Club Work

Arbor Day: Arbor Day programs were held in 4-H clubs in the County.

Forestry Demonstrations: Forestry demonstrations were given at 27 4-H club meetings during the year. 300 4-H boys and girls received forestry training by the extension forester at Camp Long in June.

Miscellaneous: The County Agent served as a member of the Board of Directors of the Spartanburg County Forest Protective Association and also kept in close touch with the County Ranger and District Forester. Both of these agencies have been of great benefit to the farmers of the county in obtaining good forestry practices and control of forest fires. Mr. Dewey Clayton, County Ranger and Mr. E. C. Pickens, Jr., District Forester, both deserve much credit for the work that they have done in the county.

FOUR-H CLUB WORK

Boys' 4-H club work was conducted in twenty-eight communities in Spartanburg County in 1948 with an enrollment of 665 boys. Each club has a local leader and regular monthly meetings are held with each club.

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

Summary 4-H Club Enrollment & Completions

Name of Club	No. Enrolled	No. Completed	% Completions
Cooley Springs	41	24	58%
Roebuck	37	22	60%
Reidville	37	22	60%
Arrowwood	16	12	75%
Walnut Grove	20	14	70%
Fork Roads	18	14	78%
Gramling	31	24	74%
John Dodd	26	15	57%
Joseph Walker	15	12	80%
North Pacolet	19	13	68%
Liberty	26	17	65%
Pauline Sr.	23	14	60%
Pauline Jr.	13	9	69%
Rainbow Lake	15	12	80%
Mt. Oliview	19	12	63%
Zion Hill	15	13	87%
Glenn Springs	27	13	48%
New Prospect	32	20	62%
Cleveland Jr. Hi.	27	19	70%
Holly Springs	31	20	65%
Mayo Sr.	13	11	85%
Motlow	26	15	58%
Westview	42	21	50%
Pine Grove	16	10	63%
Oakland	32	19	56%
Mayo Jr.	15	11	73%
Buck Creek	20	16	80%
County Wide	13	13	100%
Totals: 28 clubs	665	431	69%

## Summary Completed Demonstrations

Demonstrations	Number Completed	Value Products	Cost	Profit
Garden	32	\$2,276.63	\$1,202.25	\$1,074.38
Wheat	4	300.00	162.00	138.00
Corn	53	3,052.62	1,780.60	1,271.02
Cotton	14	2,335.55	1,323.04	1,012.51
Dairy Calf	87	10,850.32	6,747.55	4,102.77
Poultry	95	9,216.42	5,917.69	3,298.73
Pig	115	7,157.28	4,127.03	3,029.53
Improvement	28	1,322.49	769.37	553.12
Watermellon	2	88.79	67.11	21.68
Beef Calf	2	283.00	201.00	82.00
Totals	432	\$36,883.10	\$22,297.64	\$14,585.46

This summary shows that the 4-H club boys completed 432 demonstrations, produced farm products to the value of \$36,883.10 at a cost of \$22,297.64 leaving a profit of \$14,585.46.

4-H Club Records: On the following pages is given a summary of 4-H Club records completed in 1948. These include corn, cotton, dairy calf, pig, poultry, beef calf, watermellon, garden and farm improvement and then these will be followed by 4-H activities for 1948.

## Corn Club Records

Name of Member	No. Acres	Yield Bu.	Value	Cost	Profit
Olin Wofford	2	80	\$120.00	\$80.00	\$40.00
Maurice Jones	1	40	60.00	40.00	20.00
Russell Evans	1	50	70.00	21.50	48.50
Jack Rhymer	1	25	37.56	27.43	10.13
Willie Blackwell	1	35	52.50	30.00	22.50
Leland Bradley	1	30	45.00	30.00	15.00
Charles Green	1	40	60.00	40.00	20.00
Thomas Hines	1	25	37.56	27.42	10.14
Ralph Pike	2	50	75.00	34.00	41.00

Continued on next page

## Corn Club Records - continued

Name of Member	No. Acres	Yield Bu.	Value	Cost	Profit
Dean Wilson	1	20	30.00	15.00	15.00
Bobby Smith	1	35	52.50	21.40	31.10
Melvin West	1	20	30.00	15.00	15.00
Ronnie Lancaster	1	20	30.00	20.00	10.00
Dean Zimmerman	1	15	22.50	15.00	7.50
Ernest Riddings	1	25	37.50	27.50	10.00
Harry Coggins	1	30	60.00	30.00	30.00
Edward Coggins	1	29	58.00	20.00	38.00
Dan Christopher	3	50	100.00	64.00	36.00
Jimmy Cox	2	58	116.00	65.00	51.00
Homer Smith	1	40	60.00	24.10	35.90
Vernon Byrd	1	43	64.50	34.20	30.30
Billy Wilson	1	39	58.50	21.40	38.10
James Morris	1	40	60.00	26.00	34.00
William Damerson	1 $\frac{1}{2}$	60	90.00	55.00	35.00
Bill Wilson	1	42	63.00	40.00	23.00
Tommy Jenkins	2	80	120.00	80.00	40.00
Billy Blackwell	1	30	45.00	25.00	20.00
Elbert Holt	1	40	60.00	41.00	19.00
Joe Hembree	1 $\frac{1}{2}$	60	90.00	55.00	35.00
Gene Pettit	1	30	45.00	32.00	13.00
Horace Boggs	2	62	93.00	65.00	27.00
Ray Cochrum	2	62	93.00	44.00	49.00
Herman Bishop	1	31	46.50	23.00	23.50
J. C. Edwards	1	30	45.00	25.00	20.00
Roy P. Jones	1	20	30.00	15.00	15.00
Carl Edwards	1	28	40.00	25.00	15.00
Samuel Bridges	1	35	48.00	28.00	20.00
Eugene Gossett	1	30	45.00	25.00	20.00
Ray Mabry	1	40	60.00	40.00	20.00
Elbert Koon	1	30	45.00	24.00	21.00
Billy Fain	1	35	52.50	25.50	27.00
Billie Smart	2	50	75.00	50.00	25.00
Avery Watson	1	28	28.00	18.00	10.00
Hugh Bishop	1	30	45.00	35.00	10.00
J. B. Black	2	50	75.00	55.00	20.00
Furman Hood	1	35	52.50	31.40	21.10
Gene Justice	1	30	45.00	20.00	25.00
Dan R. Abernathy	1	30	45.00	30.00	15.00
Joe Birch	1	20	30.00	20.00	10.00
Bobby Helms	1	21	31.50	20.25	11.25
Charles Jarrett	1	35	52.50	32.50	20.00
Maxie Lancaster	2	40	80.00	50.00	30.00
Bobby Wofford	1	30	45.00	22.00	23.00
Totals	65	1983	\$3,052.62	\$1,780.60	\$1,271.02

## Cotton Club Records

Name of Member	Seed Cotton	Lint	Total Value	Cost	Profit
Charles Horton	1400	504	\$185.36	\$101.12	\$84.24
Edward Cantrell	1100	396	145.64	85.20	60.44
Douglas Powers	1300	468	172.12	121.10	51.02
Marvin Pearson	1112	400	145.36	85.20	60.16
Frank Waters	1048	377	137.00	94.00	43.00
Charles Blalock	1350	486	178.50	92.45	86.05
Conner Brackett	1420	511	187.95	101.45	86.50
Junior Blackwell	1400	504	180.00	95.50	84.50
Tommy McKinney	1400	504	185.95	105.45	80.50
Billy Henderson	1300	468	175.00	95.00	80.00
Coy C. Jones	1050	378	137.34	70.21	67.13
Calvin Lee	1200	432	155.96	75.20	80.76
Jack Thompson	1300	468	166.25	101.10	65.15
Kenneth Gilbert	1400	504	183.12	100.06	83.06
Totals	17,780	6400	\$2335.55	\$1323.04	\$1012.51

## Wheat Records

Name of Member	No. Acres	Yield	Total Value	Cost	Profit
Donald O'Shields	4	51	\$100.00	\$60.00	\$40.00
Oneal West	1	20	40.00	20.00	20.00
John Flower	2	39	78.00	40.00	38.00
Gene Anderson	2	41	82.00	42.00	40.00
Totals	9	151	300.00	162.00	\$138.00

## Garden Records

Name of member	No. Acres	Value	Cost	Profit
Harold Waters	1/4	\$60.00	\$30.00	\$30.00
James Swofford	1/2	85.00	45.00	40.00
Ronnie Atkins	1/4	35.45	21.21	14.24
Dean Chapman	1/4	37.87	16.76	21.11
Daniel Crisp	1/4	59.84	30.22	29.62
Ben Rhymer, Jr.	1/4	98.75	44.62	54.13
Donnie Turner	1/4	58.75	20.00	38.75
Bill Burnett	1/4	67.50	30.20	37.30
Ronnie Fain	1/4	42.00	20.00	22.00
Bobby Walker	1/2	68.00	30.00	38.00
Franklin Rollins	1/4	54.00	30.00	24.00
Carl Kizer	1/2	88.24	44.10	44.14
Jessie Sherbert	1/2	47.87	27.42	20.45
William Earl West	1/2	95.00	40.00	55.00
Paul Childs	1/2	48.95	28.54	20.41
Roy Cromer	1/4	38.40	15.00	23.40
Billy Dillard	1/4	67.45	30.00	37.45
Troy Cromer	1/4	58.95	25.43	33.52
Vaughn Hartwell	1/4	85.00	45.00	40.00
Daniel Buckner	1/2	80.00	55.00	25.00
Johnny Crowe	3/4	90.00	58.00	32.00
Winford Lowe	1/2	75.00	40.00	35.00
Ray Dobson	3/4	85.00	40.00	45.00
Robert Belcher	1/2	78.00	40.00	38.00
Maurice Lane	1/2	65.00	40.00	25.00
Vance Jackson	1/2	75.00	45.00	30.00
Roy Floyd	1/2	75.00	30.00	45.00
Billy Burnett	1/2	60.40	40.00	20.40
Bobby Pettit	3/4	65.00	48.00	17.00
Daniel Jarrett	1/2	54.23	31.21	23.02
Hugh Snow	1/2	175.00	100.00	75.00
Junior Cairnes	1/2	101.98	61.54	40.44
Totals	13 $\frac{1}{2}$	\$2,276.63	\$1,202.25	\$1,074.38

## Poultry Record

Name of Member	No.Started	No.Raised	Total Value	Total Cost	Profit
James Bearden	65	50	\$ 50.00	\$ 30.00	\$ 20.00
Ray Garrett	50	40	40.00	30.00	10.00
Douglas Garrett	65	55	55.00	35.00	20.00
Harold Gown	50	45	40.00	30.00	10.00
Billy Moore	85	65	65.00	45.00	20.00
Charles O'Conner	100	90	90.00	60.00	30.00
William Sherbert	95	65	65.00	40.00	25.00
Gerald Smith	100	75	75.00	50.00	25.00
Ronald Miller	50	30	30.00	20.00	10.00
James Bailey	50	35	35.00	30.00	5.00
Kenneth Clubb	75	60	60.00	35.00	25.00
Frank Holloman	75	60	60.00	50.00	10.00
Landon Miller	35	30	30.00	20.00	10.00
Donald Neely	150	140	140.00	100.00	40.00
Bunny Gowan	60	50	50.00	30.00	20.00
David Long	75	50	50.00	37.00	13.00
Oliver Webber, Jr.	75	70	70.00	40.00	30.00
Tommy Malone	100	95	95.00	55.00	40.00
Bryan Coggins	125	110	100.00	60.00	40.00
Paul Belue	35	35	35.00	25.00	10.00
Dean Haynes	110	95	95.00	55.00	40.00
Billy Bishop	100	75	75.00	35.00	40.00
D. D. Roe	75	65	65.00	34.00	31.00
Henry Thorne	85	78	78.00	40.00	38.00
Dean Underwood	175	140	150.00	100.00	50.00
Lloyd Pearson	100	75	75.00	75.00	35.00
Bruce Perry	150	134	134.00	94.00	40.00
Larry Settle	100	90	90.00	37.50	52.50
Eugene Ravan	25	21	25.00	20.00	5.00
Gene Anderson	30	24	30.00	23.00	7.00
John Hugh Phillips	150	141	150.00	100.00	50.00
Bobby Millwood	75	75	75.00	40.00	35.00
Johnny Fay	75	70	74.00	34.50	39.50
Jimmy Parris	150	135	138.24	92.32	45.92
Donald Jones	100	90	89.75	50.00	39.75
Jerry Cantrell	100	94	135.00	100.00	35.00
Ted Haynes	50	45	43.00	23.00	20.00
Raymond Morgan	75	52	52.00	31.00	21.00
Larry Lancaster	100	95	95.00	45.00	50.00

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## Poultry Record - continued

Name of Member	No.Started	No.Raised	Total Value	Total Cost	Profit
Paul Eubanks	100	90	\$ 90.00	\$ 55.00	\$ 35.00
Howard Gates	35	35	35.00	30.00	5.00
Wayne Troil	100	75	75.00	50.00	25.00
Paul Barnwell	150	125	125.00	85.00	40.00
Eugene Burns	48	35	35.00	20.00	15.00
Elliot Huggins	50	40	50.00	35.00	15.00
Mike Thompson	100	55	55.00	45.00	10.00
Charles West	50	30	34.93	23.72	11.21
Jerry Cox	25	25	25.00	20.00	5.00
Ellis Guinn	200	190	190.00	130.00	60.00
Louie Owens	50	45	45.00	25.00	20.00
Tom West	75	65	65.00	35.00	30.00
William Ezell	50	35	35.00	25.00	10.00
Jimmie Alexander	65	60	325.00	195.00	130.00
Jimmy Thompson	175	160	262.50	170.50	92.00
Gerald Campbell	85	75	75.00	50.00	25.00
Kenneth Clem	100	65	65.00	35.00	30.00
Bobby Cummings	125	117	117.00	72.00	45.00
Charles Ellis	50	45	45.00	20.00	25.00
Carl Fowler	35	35	35.00	20.00	15.00
J. P. Frey	65	60	60.00	35.00	25.00
Donald Green	125	105	105.00	85.00	20.00
Donald Harmon	100	97	97.00	35.00	62.00
Jessie James	75	68	68.00	35.00	33.00
Harold Wright	150	140	140.00	100.00	40.00
James Copeland	50	43	89.00	50.00	39.00
Max Jolley	100	93	180.00	100.00	80.00
Samuel Greer	100	91	175.00	115.00	60.00
James Wooten	100	92	142.00	100.00	42.00
Frankie Fowler	200	185	240.00	150.00	90.00
Edwin Gibson	100	90	150.00	105.00	45.00
Dan Lawson	75	68	100.00	73.00	27.00
Eulas Brown	100	93	140.00	102.00	38.00
Edward Lee	25	19	36.00	25.00	11.00
Bobby Price	115	100	140.00	85.00	55.00
George Wright	100	96.	160.00	115.00	45.00
Roy Lee	60	45	75.00	54.00	21.00
Fred Newman	125	100	145.00	90.00	55.00
Jerry Jolley	200	180	255.00	143.00	112.00
Billy Pike	75	60	80.00	48.00	32.00
Dennis White	200	165	247.50	134.30	113.20
Heyward Calvert	125	100	150.00	100.00	50.00
Clyde Bayne	200	173	260.50	168.45	92.05

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## Poultry Record - continued

Name of Member	No. Started	No. Raised	Total Value	Total Cost	Profit
Eulan Wilds	200	175	\$250.00	\$160.00	\$ 90.00
John Turpin	100	98	203.00	157.40	45.60
Junior Foster	100	85	85.00	75.00	10.00
Donald Martin	65	50	50.00	35.00	15.00
Grady Reid	100	91	91.00	70.00	21.00
Eugene Owens	150	138	138.00	100.00	38.00
Jessie Garrett	100	75	75.00	50.00	25.00
Cecil Bishop	75	68	68.00	50.00	18.00
Elmer Fowler	75	60	60.00	40.00	20.00
Elliot Huggins	40	40	40.00	30.00	10.00
Billy Pettit	75	74	74.00	50.00	24.00
Donald Pettie	100	75	75.00	30.00	45.00
Jimmy Adair	100	85	85.00	65.00	20.00
Totals	8,853	7,623	\$9,216.42	\$5,917.69	\$3,298.73

## Pig Records

Name of Member	No. Animals	Total Value	Total Cost	Profit
Vernon Wall	1	\$58.00	\$40.00	\$18.00
Johnnie Martin	1	60.00	43.00	17.00
Cleatus Blackwell	1	75.00	55.00	20.00
Donald Turner	1	55.00	44.00	11.00
Monta Hayes	1	64.00	45.00	19.00
Jesse Garrett	1	60.00	42.00	18.00
Kenneth Belcher	1	50.00	38.00	12.00
Leroy Self	1	46.00	30.00	16.00
Bill Foster	1	65.00	35.00	30.00
Herman Brown	1	50.00	35.00	15.00
Wendell Woolen	1	60.00	41.00	19.00
Billy Dillard	1	62.00	55.00	7.00
Stanley Webb	1	64.00	37.00	27.00
Paul Lee	1	58.00	41.00	17.00
Harold Prince	1	80.00	50.00	30.00
Donnie Spakes	1	40.00	15.00	25.00
Marvin Lowe	1	50.00	38.75	11.25
Robert Cooper	1	60.00	28.00	32.00
Cecil Revan	1	60.00	37.00	23.00
Clyde Camp	1	75.00	25.00	50.00
Jackie Cothran	1	55.00	35.00	20.00

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## Pig Records - Continued

Name of Member	No Animals	Total Value	Total Cost	Profit
George Kirby	1	65.87	30.34	35.53
Bobby Varner	1	68.98	41.27	27.71
Harold Johnson	1	60.00	40.00	20.00
Archie Horton	1	50.00	28.00	22.00
Junior Holifield	1	65.00	46.00	19.00
James Williams	1	56.00	35.00	21.00
Harold Smith	1	60.00	36.00	24.00
Palmer Clayton	1	68.00	38.00	30.00
Joe McDade	1	65.00	35.00	30.00
Charles Solesbee	1	84.24	50.00	34.24
Elin Melton	1	112.50	71.40	41.10
Jimmy Harvey	1	75.00	40.00	35.00
R. E. Guinn	1	71.00	30.00	41.00
Ruben Solesbee	1	80.00	50.00	30.00
Billy Smith	1	75.00	50.00	25.00
Keith Bledsole	1	75.00	35.00	40.00
Roy Cox	1	78.00	30.00	48.00
Mayfield Pike	1	65.00	35.00	30.00
Tobie Morgan	1	34.00	24.00	10.00
Rhett Waldrop	1	71.00	51.00	20.00
Charles Holcombe	1	38.78	21.42	17.36
Larry Smith	1	71.00	40.00	31.00
Paul Simmons	2	125.00	65.00	60.00
Howard Burns	1	71.00	40.00	31.00
James Center	1	48.50	28.50	20.00
Norman Garden	1	74.00	30.00	44.00
Boyce Gregory	1	82.53	41.42	41.11
Jasper Young	1	51.00	25.00	26.00
Charles Sherbert	1	59.85	44.64	15.21
Donald Bolton	1	64.87	31.71	33.16
Bobby Crowe	1	68.90	37.10	31.80
Edgar Jones	1	49.89	31.77	18.12
Ernest Leverett	1	69.00	37.00	32.00
Andrew High	1	58.85	38.73	20.12
Ralph Hambree	1	64.34	32.13	32.21
Harold Calloway	1	59.99	40.00	19.99
Troy High	1	67.80	34.30	33.60
Wayne Sanders	1	68.95	40.10	28.85
Ted Henderson	1	58.95	25.00	33.95

Continued on next page

## Pig Records - Continued

Name	No. Animals	Total Value	Total Cost	Profit
Leonard Presnell	1	67.00	31.00	36.00
J. D. Graves	1	69.00	35.00	34.00
Alfred Gosnell	1	65.00	30.00	35.00
Fred Gosnell	1	70.00	45.00	25.00
Edward Ballenger	1	55.00	30.00	25.00
Gerald Raines	1	65.00	35.00	30.00
Charles Ballenger	1	50.00	30.00	20.00
Lloyd Hammett	1	74.99	40.00	34.99
Donald Morgan	1	50.00	25.00	25.00
Ray Yeargin	1	60.00	30.00	30.00
Sidney Cox	1	63.00	33.00	30.00
Bruce Johnson	1	54.85	31.73	23.12
Willie Robinson	1	54.85	31.24	23.63
David Sexton	1	59.00	32.00	27.00
Frank Cantrell	1	58.90	37.70	21.20
Danny Finger	1	58.90	32.70	26.20
Curtis Flower	1	65.00	35.00	30.00
Billy Smith	1	58.90	37.10	21.80
Bobby Oliver	1	59.30	34.20	25.10
Charles Wilson	1	65.85	35.42	30.43
Donald McGaha	1	48.90	28.70	20.20
Carrol LeMaster	1	69.85	35.61	34.24
Major Robinson	1	44.00	32.00	12.00
Bobby Cartee	1	58.75	30.22	28.53
Gerald Cartee	1	72.00	40.00	32.00
Jerrel Cox	1	55.85	25.23	30.63
Bobby Cromer	1	68.95	38.25	30.70
William Greer	1	58.25	37.10	21.15
Toby Johnson	1	68.75	37.52	31.23
Victor Nichols	1	75.00	50.00	25.00
Bobby Wilder	1	65.00	35.00	30.00
Harold Melton	1	58.95	41.23	17.72
Donald Moore	1	63.45	31.25	32.20
LeMull Pender	1	63.95	41.25	22.70
Bobby Smith	1	59.45	40.00	19.45
Bobby Joe Smith	1	45.00	35.00	10.00
Levon Ponder	1	57.50	37.20	20.30
Gerald Dalton	1	58.20	32.10	26.10
Otha Lawter	1	60.00	40.00	20.00
Winford Bishop	1	58.87	30.47	28.40

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## Pig Records - Continued

Name of Member	No. Animals	Total Value	Total Cost	Profit
Gene Davis	1	45.00	35.00	10.00
Hugh Hayes	1	57.50	30.50	27.00
Larry Mahaffey	1	58.50	28.25	30.25
David Ballenger	1	67.97	34.54	33.43
Dickie Ballenger	1	73.44	32.21	41.23
J. T. Geddes	1	64.20	42.10	22.10
Richard Randolph	1	59.45	33.23	26.22
Johnnie Ezell	1	45.00	25.00	20.00
Max Ezell	1	48.90	20.00	28.90
Ray Blackwell	1	69.80	34.00	35.60
Harold Parris	1	58.00	25.00	33.00
Olin Wofford	1	67.50	32.50	35.00
Jimmie Thompson	1	73.00	52.00	21.00
Billy Smith	1	54.00	24.00	30.00
Totals	115	\$7,157.28	\$4,127.03	\$3,029.53

## Watermellons

Name of Member	No.	Total Value	Total Cost	Profit
Ibra Cheek	1	\$50.00	\$40.00	\$10.00
Brownlow Watson	1	38.79	27.11	11.68
Totals	2	\$88.79	\$67.11	\$21.68

## Improvement Records

Name of Member	Total Value	Total Cost	Profit
Billy Neal	\$88.99	\$42.35	\$46.64
Clarence Campbell	25.00	15.00	10.00
Samuel Gosnell	25.00	10.00	15.00
Ted Sizemore	21.00	9.00	12.00
Marvin Chapman	20.00	15.00	5.00
Greer Holt	32.00	19.00	13.00
Jackie Martin	40.00	25.00	15.00
Rufus Floyd	15.00	10.00	5.00
John Wyatt	35.00	26.00	9.00
Donald Eppley	50.00	28.00	22.00
Henry Farmer	40.00	20.00	20.00
Jerry Belcher	25.00	18.00	7.00
Bub McKinney	30.00	12.00	18.00
Harry Poteat	60.00	25.00	35.00
Dorman Henderson	40.00	19.00	21.00
Carl Hood	40.00	25.00	15.00
Glen Cash	75.00	50.00	25.00
Billy McKinney	30.00	20.00	10.00
Ralph Brock	38.75	20.00	18.75
Earl Kirby	35.00	15.00	20.00
George Roper	75.00	50.00	25.00
Jimmy Brown	50.00	30.00	20.00
Billy Cooper	57.80	33.40	24.40
Jimmy Caldwell	65.00	45.00	20.00
Jimmy Carroll	48.95	22.62	26.33
Glen Kennedy	45.00	30.00	15.00
Major Robinson	65.00	35.00	30.00
Jerry Moore	150.00	100.00	50.00
Totals	\$1,322.49	\$769.37	\$553.12

## Beef Calf Records

Name of Member	No. Animals	Total Value	Total Cost	Profit
Terry Westbrook	1	\$145.00	\$100.00	\$45.00
Julian Westbrook	1	138.00	101.00	37.00
Totals	2	\$283.00	\$201.00	\$82.00

## Dairy Calf Records

Name of Member	No. Acres	Total Value	Total Cost	Profit
Edward Bishop	1	\$ 67.00	\$ 30.00	\$ 37.00
Hugh Lancaster	1	75.00	50.00	25.00
Larry Smith	1	75.00	50.00	25.00
Windwell Lee	1	67.50	43.20	24.30
Liner Switzer	1	75.00	50.00	25.00
Jack C. Ellison	1	95.00	53.00	42.00
Kenneth Caldwell	1	110.00	60.00	50.00
Reid Caldwell	1	85.00	50.00	35.00
Hugh Lancaster	1	150.00	75.00	75.00
Ellis Lawter	1	75.00	50.00	25.00
Jimmy Bishop	1	85.00	45.00	40.00
Herman Couch	1	65.80	40.20	25.60
Gene Justice	1	85.00	54.00	31.00
Curtis Lancaster	1	155.00	100.00	55.00
Jack Lee	1	105.00	75.00	30.00
Bobby Lindley	1	95.50	53.40	42.10
Jimmy Mosley	1	85.00	45.00	40.00
J. B. Ezell	1	95.00	50.00	45.00
Hall Collins	1	95.00	54.00	41.00
Windell Davis	1	94.00	43.00	51.00
Thomas Harris	1	133.99	90.88	43.11
John Turpin	1	205.00	142.75	52.25
Marshall Wolfe	1	185.00	125.00	60.00
Harold Wolfe	1	250.00	150.00	100.00
Roy Wolfe	1	275.00	200.00	75.00
Howard Bishop	1	95.00	45.00	40.00
James Bridges	1	124.98	63.79	61.21
Jerry Lawson	1	105.00	75.00	30.00
Levern Henderson	1	125.00	75.00	50.00
Chauncie Turner	1	70.00	45.00	25.00
Raymond Cash	1	85.00	50.00	35.00
Junior Parrish	1	65.00	50.00	15.00
Jimmy Hatchett	1	98.00	51.00	47.00
Guy Eubank	1	98.99	40.24	58.75
Jack Graham	1	125.00	75.00	50.00
Frances Allen	1	300.00	200.00	100.00
Frances Bishop	1	175.00	100.00	75.00

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## Dairy Galf Records - continued

Name of Member	No. Acres	Total Value	Total Cost	Profit
Johnnie Clement	1	\$250.00	\$175.00	\$ 75.00
Juanita Danson	1	375.00	250.00	125.00
Authur Dempsey	1	175.00	100.00	75.00
Ben Dunigian	1	375.00	250.00	125.00
Elizabeth Harmon	1	250.00	150.00	100.00
James Harmon	1	250.00	125.00	125.00
H. Wayne Hill	1	240.00	140.00	100.00
Edward Patterson	1	175.00	100.00	75.00
Betty E. Sloan	1	275.00	200.00	75.00
Hugh Steadman	1	185.00	100.00	85.00
Roy Wolfe	1	200.00	150.00	50.00
Jessie Boyd Tate	1	55.00	40.00	15.00
Cecil Burns	1	48.00	28.00	20.00
Cecil Davis	1	68.90	30.20	38.70
Ronald Gibbs	1	53.45	21.23	32.22
Eston McHaffey	1	75.88	34.44	41.44
Lance Wilson	1	65.00	30.00	35.00
Dean Blackwell	1	58.35	38.24	20.11
Buford Bradly	1	45.00	25.00	20.00
Joe Eubanks	1	69.85	34.32	35.53
Walter Kay	1	79.89	39.20	40.68
Paul Henderson	1	115.00	80.00	35.00
Kenneth Hughey	1	100.00	75.00	25.00
Otis Greer	1	95.00	68.00	27.00
Melvin Gowns	1	110.00	75.00	35.00
Junior Cooley	1	130.00	95.00	35.00
Burton Atkins	1	90.00	58.00	32.00
Gene Solesbee	1	80.00	56.00	24.00
Clyde Melton	1	125.00	90.00	35.00
Lewis Sitton	1	118.00	92.00	26.00
Billy Smith	1	90.00	65.00	25.00
Fred Watts	1	110.00	50.00	60.00
Noel West	1	90.00	55.00	35.00
Vernon O'Conner	1	115.00	70.00	45.00
Charles Gown	1	100.00	76.00	24.00
Kenneth Renfro	1	90.00	55.00	35.00
Donald Davis	1	75.00	33.00	42.00
Jackie Mabry	1	125.00	75.00	50.00

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## Dairy Calf Records - continued

Name of Member	No. Acres	Total Value	Total Cost	Profit
Oneal Green	1	\$130.00	\$100.00	\$30.00
Oliver Jones	1	89.00	50.00	39.00
Fred West	1	75.35	51.22	24.13
Jimmy Gossett	1	175.00	90.00	85.00
Avondale Hand	1	125.00	75.00	50.00
Lewis Ballenger	1	90.00	48.00	42.00
Lewis Settle	1	150.00	135.00	15.00
Earl Shetley	1	175.00	100.00	75.00
Hugh Spencer	1	87.89	40.25	44.64
Grady Holder	1	75.00	50.00	25.00
Harold McMakin	1	125.00	75.00	50.00
Fred Taylor	1	75.00	35.00	40.00
Totals	87	\$10,850.32	\$6,747.55	\$4,102.77

Officers and Leaders Training School and Banquet: Two hundred and seventy five local leaders, 4-H club officers and members of the Retail Merchants Bureau attended the Leadership Training Banquet at Hotel Cleveland, March 12, 1947. For the first time the banquet was sponsored by the Retail Merchants Bureau of Spartanburg. The club officers were divided into two groups, senior and junior, and were given training by Miss Gertrude Lanham, District Home Agent and Miss Louise Herriot, Assistant Club Agent. The leaders were given training by Mr. Leon Clayton, District 4-H club agent. The meeting served as a mean of enlightening club officers and leaders of their responsibilities. Of the 51 local leaders 49 were present.

About 25 members of the Spartanburg Merchants Bureau attended the banquet also members of the Spartanburg Delegation, Mr. L. B. Massey, District Agent made the main address. Representative Bruce Littlejohn presented service awards to the local leaders.

Achievement Day: Approximately 400 Spartanburg County 4-H boys and girls attended the annual Achievement Day at the Cleveland Junior High, December 1, 1947. The highlight of the program was the presenting the awards to the following contest winners: Billy Dillard and Ray Lee, Health Improvement; Ted Sizemore, Soil Conservation; Billy Jones, Field Crops; Ben Dunnagin, Dairy Production; Greer Holt, Farm Safety; Elbert Holt, Better Methods; Jim Jackson, Gardening, Marshall Wolfe, Poultry; and Henry Smith, Meat Animal.

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Achievement Day - continued

All County clubs were represented at the Achievement Day Program. Special guests were Dan Lewis, State 4-H Club Agent; L. B. Massey, District 4-H Club Agent.

4-H Camp: Spartanburg County had an attendance of 326 at Camp Long, May 31st to June 4, 1948. Of which 304 were boys and girls and 22 local leaders. Local leaders were of valuable service in conducting the camp.

Among special guests were L. B. Massey, District Agent; Miss Gertrude Lanham, District Home Agent; Paul Seabrook, Extension Radio Specialist.

County Council Officers were elected while at Camp, they are as follows: President Allen Belcher, Vice President June West; Secretary-Treasurer Billy Dillard, and Program Chairman Sue Garrett.

Favorable comments from club members, leaders and parents were expressed. We believe by going to camp and being closely associated with club members and leaders, our club program will be strengthened in the county.

Dairy Calf Club: Spartanburg County Dairy Calf Club consists of 31 members. 16 members showed their calves at the Piedmont Interstate Fair in Spartanburg and 4 exhibited calves at the State Fair in Columbia.

The following are officers of the County Calf Club: Ben Dunigian, President; Douglas Garrett, Vice President; Betty Sloan, Secretary; The advisory board consists of W. W. Crim, W. D. Finch and Cotton Hobson.

A 4-H Judging Team was trained and participated in the district elimination.

Sears Roebuck Poultry Contest and Banquet: The Sears and Roebuck Poultry Contest project was continued again in the county this year. Fourteen boys and girls participated. Each received 100 baby chicks. One hundred and sixty eight were sold and brought \$3.08 each. The money received will buy other members chicks next year. A banquet was given in honor of these club members in October and awards were presented at that time.

Parents Night: Two 4-H clubs held "Parents Night" in their communities. This seemed to stimulate club work in those communities.

Visual Instruction: Two educational films were shown to our 27 4-H clubs during the year.

County Council: The County Council prepared our County 4-H Council Report, that placed in the Blue ribbon group.

Radio Programs: Two radio program were given by two 4-H clubs over W.S.P.A. Spartanburg.

HORTICULTURE

Extension Horticultural work in Spartanburg County in 1948 consisted of work with home gardens, sweet potato production, truck crops and peaches.

Gardens: Information on home gardens was presented to Farmers through radio broadcasts, newspapers articles and personal visits.

Truck Crops

Fall Tomato Production: Fall tomatoes are becoming a crop of considerable importance in Spartanburg County, and is providing a source of supplementary income to farmers. The crop this year was good but the shipping season was cut short by the outbreak of late blight, however, most growers realized a profit from this enterprize. Growers were visited and assisted with their production and marketing whenever possible. A total of 1739 bushels were marketed through the Spartanburg County Farmers Market, bringing a total of \$5,424.62. A summary of tomato demonstrations follows:

## Tomato Demonstrations

Name	Acres	Yield Bu.	Bu. Per Acre	Cost Prod.	Cost Per Bu.	Value	Profit
C. J. Hutchins	2	300	150	\$177.70	.59	\$525.00	\$347.30
H. R. Page	2	350	175	274.75	.78	602.60	327.75
Totals	4	650	325	\$452.45		\$1127.50	\$675.05
Average per acre		162.5	162.5	\$113.11	.68	\$ 281.87	\$168.76

The tomato demonstrations show an average yield of 162.5 bushels per acre and an average cost of \$113.11 per acre. The average profit per acre on the four acres was \$168.76.

Cantaloup Production: Recommendations regarding the production and marketing of cantaloupes were given growers through newspaper articles, farm visits and radio broadcasts. The acreage planted to cantaloupes has been decreasing steadily for the past few years. The county agent renders assistance in the marketing of this crop. It is estimated that the county agent assisted in marketing approximately 60% of this crop through the Spartanburg County Farmers' Market. The sales amounted to \$2,964.50. This crop has increased the income of the farmers of the Flatwoods section of the county to a considerable extent. Two growers conducted demonstrations in 1948. A summary of these demonstrations will be found on the following page.

## Dantaloupe Demonstrations

Name	Acres	Yield Bu.	Bu. per Acre	Cost Prod.	Cost Per Bu.	Value	Profit
Malcolm Page	2 $\frac{1}{2}$	500	200	\$387.74	.77	\$1,000.00	\$612.26
Earl Hutchins	2	350	175	141.30	.40	700.00	558.70
Totals	4 $\frac{1}{2}$	850		\$529.04		\$1,700.00	\$1,170.96
Averages per A.			188	\$117.11	.58	\$377.77	\$260.20

These demonstrations show an average yield of 188 bushels per acre. The average cost per acre was \$117.11 and the average profit per acre was \$260.20.

Commercial Peach Production

Work with commercial peach growers in 1948 consisted of helping growers with their production, labor, and marketing problems. This was accomplished through newspaper articles, farm visits, meetings, circular letters and radio broadcasts. The peach crop in 1948 was reduced considerably by cold weather in late March, however the quality of the fruit produced was very good. The intensive disease of insect control program which was started two years ago is being continued. The crop this year was about one third of normal.

Circular Letters: The Orchard Letter was sent out at regular intervals through the year by the Extension Horticulturist. These letters contained the latest recommendations concerning disease and insect control, fertilizer practices, cover crops and other information of interest to peach growers.

Cover Crops: The growers of the county have been urged to seed winter cover crops in their orchards for the conservation of soil, water and soil fertility. There is some increase in the acreage of cover crops this year. In cooperation with the Soil Conservation Service, several demonstrations using different crops are being set up for 1949.

Marketing: Market News Service was furnished to all peach growers in the area. Also several marketing agencies have their headquarters in Spartanburg County. The county agents assisted peach growers with their marketing problems whenever possible.

Commercial Canneries: There are two commercial canneries located in Spartanburg County. One is owned by the South Carolina Peach Growers Association and the other is the Spartanburg Cooperative Cannery. Neither of these canneries operated in 1948 due to a short peach crop.

#### Demonstrations with Insecticides

Chlordane: Four demonstrations were conducted on 28 acres using Chlordane for the control of the curculio and catfacing of peaches. The results were excellent. The results will be discussed further in report of the Extension Horticulture

Fungicides: Wettable sulphur, liquid lime sulphur and phygon were used on 10 acres for the control of blossom blight which is an early stage of brown rot. Results indicate that sulphurs are fairly satisfactory but phygon proved most effective.

Brown Rot: The Extension Service cooperated very closely with Doctors Dunnegan and Goldsworthy of the U. S. Department of Agriculture on research work on brown rot control. These tests were carried on in the orchards of B. W. Turpin and Edgar Woodfin of Gramling, S.C. These brown rot tests for control of the disease were run both in the early and preharvest stages. Materials used were fermate, zerlate, parate, wettable sulphur, liquid lime sulphur and phygon. Results obtained indicate phygon to be most effective in early stages however, results in preharvest applications were so inconsistent that no definite conclusions could be drawn as their comparative effectiveness.

Spray Equipment: A demonstration on the farm of Will West of Campobello using a wet dusting machine was supervised by the county agent and the Extension Horticulturist. The results were such that no definite conclusion could be drawn or no recommendations made.

Parasite Releases: The county agent and Extension Horticulturist secured fruit moth parasites for 6 growers in 1948. The number released was 7,400.

Pruning demonstrations: During the year 17 method pruning demonstrations were conducted. The County Agent was assisted by the Extension Horticulturist on several occasions.

Thinning Demonstrations: One thinning demonstration was given by the county agent in 1948. Very little thinning was necessary due to a light crop in most orchards.

Peach Clinic: The county agent assisted the Extension Horticulturist in conducting the second annual peach clinic. This was a two day meeting and is designed to bring the latest information to growers.

Peach Marketing Agreement: Considerable time was devoted in bringing information to peach growers on the proposed peach Marketing Agreement before the referendum was held. Meetings were held in all sections of the county and the agreement was explained to them. This Agreement was not adopted by the growers.

Spray Schedules: A schedule of the different sprays for the control of the various insects and diseases was prepared by Extension Entomologist and Extension Horticulturist and distributed to all peach growers in the county.

Commercial Apple Production: The agent devoted considerable time during 1948 in assisting apple growers in the county. There is considerable acreage of apples in the county and the growers were assisted in marketing 3,756 bushels of apples through the Spartanburg County Farmers' Market in 1948, with sales amounting to \$11,860.35. A revised apple spray schedule was made by the Extension Entomologist and the Extension Horticulturist, this spray chart was distributed to all apple growers in the county.

MARKETING

Extension work in marketing in 1948 consisted of assisting in the operation of the Spartanburg County Farmers' Market, grading, packing and standardization of farm products, also inspection work, buying and selling of farm products.

Market News Service: The Market News Service was located in Spartanburg during the heaviest movement of the peach season. This service, which was obtained for peach growers through the efforts of the Extension Service and others, was very beneficial as information regarding prices, daily car movements, car placings and information from all leading markets was given each day. Mr. H. F. Willson was in charge of this office. It is hoped that this service will be provided growers each year.

Spartanburg County Farmers' Market: The Spartanburg County Farmers' Market, with the assistance of the Division of Markets, was organized in 1939. The purpose of the market is to assist the farmers in the county in grading, packing, standardizing, centralizing and marketing surplus farm products. In 1948 the principal commodities handled were apples, tomatoes and cantaloupes. The marketings in 1948 were less than average but higher than in 1947. This was due principally to a reduced apple and cantaloupe crop. A summary of commodities sold through this organization is listed below.

Sales Through Spartanburg County Farmers' Market

Product	Quantity	Value
Apples	3,756 bushels	\$11,860.35
Cantaloupes	2,313 "	2,964.50
Tomatoes	1,739 "	5,424.62
Totals	7,808 "	\$20,249.47

Products Bought: In addition to marketing product for farmers, the Farmer's Market assisted farmers in purchasing supplies for their farming operations. A summary of these purchases is given on the following page.



Products Bought Through Spartanburg Co. Farmer's Market

Product	Value
Seed	\$2,596.40
Insecticides	7,195.00
Total	\$9,791.40

These summaries show that products bought and sold through this organization amounted to \$30,040.87.

Inspection Work: The Extension Marketing Division again had charge of Federal Inspection work in the county in 1948, and all peaches moved out of the county in carlot shipments were inspected. The Federal inspectors, under the efficient supervision of T. A. Cole, Chief, Division of Markets, rendered growers a great service in assisting them in picking, grading and packing.

Grading, Packing & Standardizing of Farm Products: The importance of properly grading, packing and standardizing farm products, were emphasized in the operation of all marketing organizations in the county by the agent and personnel of the Division of Markets. A grading machine for apples and tomatoes has been installed at the central market and is used for the proper grading of these products. Farmers using these facilities were encouraged to watch operations in order to educate them as to the value of proper grading and packing.

Cold Storage Locker Plant: The Cold Storage Locker Plant was completed and began operation on January 1, 1944, and the Spartanburg County Farmers' Market Association was merged with the locker plant. This plant contains 1,000 lockers all of which are rented. Storage is available for fruits, vegetables, eggs and meat. These commodities are also processed. This plant has aided materially in the conservation of food in Spartanburg County. A summary of the processing done at the locker plant will be found on the following page.

## Locker Plant Processing

Product	Amount
Beef, Veal, Lamb	45,011 Lbs.
Poultry & Game	19,974 "
Pork	188,785 "
Total:	253,770 "

SEED CLEANING EQUIPMENT: During 1947, a modern seed cleaning outfit was installed at the Spartanburg County Farmers' Market to clean and treat seed for farmers. During 1948, 7,118 bushels of seed were cleaned for Spartanburg County farmers.

Cooperation With Existing Farmer Owned Cooperatives

The county agents cooperated with the South Carolina Peach Growers Association, The Spartanburg County Cooperative Breeders' Association and The Spartanburg Cooperative Cannery in assisting the marketing of the products of the Farmer members in the County. The Spartanburg Cooperative Cannery did not operate in 1948, due a short peach crop. The Spartanburg County Cooperative Breeders' Association is a service organization which was organized to improve the dairy cattle of the county. The South Carolina Peach Growers Association is the largest fresh fruit marketing agency in this area and in addition to marketing peaches for its members also purchases supplies such as insecticides, containers, and packing house machinery. A summary of the business conducted by the Peach Growers Association follows:

## Summary of South Carolina Peach Growers Association Work

Name	Product	No. Members	Value Products	
			Bought	Sold
S. C. Peach Growers' Ass'n.	Peaches	229	\$464,806.50	\$2,564,099.59

Marketing of Surplus Farm Products: The county agents cooperated with the farmers of the county throughout the year in the marketing of surplus farm products, for which there were no regularly established local markets, and in the purchase of materials and supplies in a cooperative way. A summary of this work is given as follows:

## Marketing Summary - 1948

Product	Quantity	Bought	Sold
Beef Cattle	13 head	\$5,785.00	
Beef Cattle	8 "		\$2,925.00
Dairy Cattle	9 "		1,735.00
Dairy Cattle	12 "	1,935.00	
Rat Poison	3,225 lbs.	967.50	
Parasites	7,400	118.40	
Apples	3,756 bu.		11,860.35
Cantaloupes	2,313 bu.		2,964.50
Tomatoes	1,739 bu.		5,424.62
Seed		2,596.40	
Insecticides		7,195.00	
Poultry	71,303 bu.		18,659.98
Peaches	40,000 bu.		50,000.00 Est.
Total		\$18,597.30	\$93,569.45
Total Bought & Sold		\$112,166.75	

POULTRY

Extension work in poultry in Spartanburg County consisted of educational work in parasite and disease control, proper feeding practices, marketing and flock improvement work.

Marketing: A poultry truck schedule was operated for a part of the year and 71,303 pounds of poultry was sold for \$18,659.98. This assistance includes only the poultry sold to truckers through the county agent's office and does not include local sales and sales to other trucks.

Flock Improvement Demonstrations: Ten flock improvement demonstrations were conducted in the county in 1948, a summary of these demonstrations follows:

## Flock Improvement Demonstrations

Name	No. Birds	No. Birds Reacted	No. Birds Culled	No. Doz. Hatching Eggs Sold	Value with Premium
J. D. Adams	80	0	5	420	357.00
V. R. Burrell	240	0	1	1612	1,187.90
L. W. Cairnes				2110	1,793.50
H. R. Caston	265	0	3	780	624.00
R. F. Green	223	0	8	720	612.00
L. C. Greene				554	470.90
Virgil Metcalf	226	3	18	470	399.50
W. P. Powell	3,780	0	0	34,778	24,344.60
W. H. Sellers	164	0	9	300	255.00
Seven Oaks Farm	3,344	0	0	18,936	16,014.91
<b>Totals</b>	<b>8,322</b>	<b>3</b>	<b>44</b>	<b>60,140</b>	<b>\$46,059.31</b>

4-H CLUB POULTRY WORK

4-H Club Poultry Projects had a total value of \$9,216.42 and a cost of \$5,917.69, and showed a profit of \$3,298.73.

Sears Roebuck Poultry Project: 14 4-H club boys and girls competed in the Sears Roebuck Poultry Project. A summary of this project will be found on the following page.

SEARS POULTRY CHAIN 4-H PROJECT

No. Sears Club members.....	14
Sexed chicks started, No.....	1400
Cost.....	\$ 420
No. chicks raised to broiler age.....	1302
No. broilers sold.....	140
Feed consumed - Lbs.....	12369
Cost.....	\$ 618.
Other expenses.....	\$ 140.
Total value broilers sold, eaten and on hand end of 12 wks..	\$1,953.
Profit to 12 weeks of age.....	\$ 1,195.
No. pullets left at 12 weeks.....	\$1,162
Feed consumed - Lbs. from 12 wks to date of sale.....	\$1,673.29
Other expenses - 12 weeks to date of sale.....	\$ 100.
Estimated value of all pullets raised to date of sale.....	\$2,875.
Profit - 12 weeks to date of sale.....	584.27
No. pullets auctioned.....	168
Total selling price all pullets returned to chain.....	\$ 517.44
Average selling price per pullet.....	\$ 3.08

PUBLICITY

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

Summary of Publicity Work

Individual letters.....	975
Circular letters.....	38
Copies mailed.....	23,161
Press articles.....	102
Radio Talks.....	61
Bulletins distributed.....	5,078
Farm visits.....	1,875

Circular Letters: A total of 38 circular letters were prepared, and 23,161 copies mailed to farmers and 4-H Club boys in Spartanburg 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 102 press articles of timely agricultural interest were published in Spartanburg County newspapers during the year. A weekly farm column was published in the Spartanburg Herald throughout the year. Spot news was furnished reporters for the Spartanburg Herald and Journal at all times.

Radio Talks: Sixty one radio talks on agricultural subjects were made by the county agents over stations W.S.P.A. and W.O.R.D. during the year.

Bulletins Distributed: A total of 23,161 bulletins were distributed to farmers and 4-H club boys during the year.

Farm Visits: The agents made 1,875 farm visits relating to extension work during the year.

### VISUAL INSTRUCTION

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

Educational Motion Pictures were used at fifty farmer's meetings and 4-H club meetings with a combined attendance of 3,257 people. The educational motion pictures shown by the extension service are valuable in teaching agricultural practices, and in increasing attendance at 4-H clubs and farmer's meetings.

Slides were shown at six farmer's meetings with an attendance of 683 farmers.

Photographs were made by the assistant county agents and the county agents of three demonstrations in the county.

Charts and Maps were used in 15 meetings of farmers and 4-H clubs, attended by 325 farmers and 320 4-H members.

#### Visual Instruction Work

Visual Aid Used	Number Meetings	Attendance	
		Adults	4-H club members
Motion pictures	50	1,790	1,467
Slides	6	683	0
Charts & Maps	15	325	320
<b>Totals:</b>	<b>71</b>	<b>2,798</b>	<b>1,787</b>

The projector which was assigned to the Spartanburg Extension Office in 1947 was used in 65 meetings, attended by 2,473 farmers and 4-H club members. This machine was also used in meetings conducted by negro extension workers which are not included in this report. In addition charts and maps were used at 15 meetings, attended by 645 adults and 4-H club members.

#### Fair Exhibits

Farm building models were placed on exhibit at the Piedmont Interstate Fair. Also the county and home agents in cooperation with the county and home agents

from Union, Laurens and Cherokee Counties displayed a 4-H club exhibit jointly at the Piedmont Interstate Fair.

Sixteen 4-H Dairy Calf Club Members exhibited calves at the Piedmont Interstate Fair and four calves were exhibited at the South Carolina State Fair in Columbia.

E. M. Clement exhibited Hereford cattle at the Piedmont Interstate Fair.

H. W. Seawright exhibited Angus cattle at the Piedmont Interstate Fair.

Film Service: Assistance was given in securing educational films for G.I. Training Classes.

Photographs: Photographs were made at important agricultural events taking place in the county.



MISCELLANEOUS COUNTY AND COMMUNITY ACTIVITIES

Piedmont Interstate Fair: The county agent and assistants acted as superintendents of the agricultural exhibits at the Piedmont Interstate Fair, and the county agent is also a director of this organization.

Kiwanis Club Agricultural Committee: The county agent served as chairman of the Kiwanis Club Agricultural Committee and during the year arranged two programs of the club. The Kiwanis and other civic clubs have sponsored many worthwhile agricultural programs in the county.

Miscellaneous: The county agent also served as Secretary of the Spartanburg County Farmers' Market, The Spartanburg Cooperative Cannery, The Spartanburg County Cooperative Soil Improvement Association and the Spartanburg County Cooperative Breeders' Association.

# Farmer Cox Seeding Small Grain Early, Irrigating, Liming, Leguming Acreage

By JOE FRANK JONES  
Spartanburg County Farm Agent

Now is the time to get fall and winter grazing seeded.

Last year many farmers waited so late in seeding grazing mixture that they lost from one to 2 months good grazing time.

Grazing should be seeded this month or the first of September for the maximum amount of grazing.

R. C. COX, Reidville Section farmer, is getting his grazing seeded on time. Mr. Cox is seeding 25 acres to a small grain mixture and crimson clover. He is also seeding 15 acres to Alta Fescue. He applied one ton of lime per acre to the land he is seeding to fescue and has applied 500 pounds of 3-9-9 and 400 pounds of 0-12-12.

The ground has been cut with a harrow 3 times and a culter-packer has been run over the land also. He believes the time spent in preparing land is well spent.

A portable perforated aluminum irrigating system is being installed on the Cox farm to furnish water for grazing when needed. The system will irrigate 15 acres of grazing in 15 hours with one inch of water. A pumping reservoir is being dug to store water for the system and will be 100 feet by 200 feet and 3 feet deep.

**THE IRRIGATING** system will be tried out in the orchard first in about 3 weeks. Farmers will be invited to attend the demonstration. W. O. Burkett, manager of the Green Harvester Co. of Columbia, and Mr. Duffie of the Extension Service are working with Mr. Cox in establishing the system.

We think that a 12 months grazing program is essential in any successful livestock program. Therefore, we are endeavoring to make recommendations that are practical and usable on a small farm where one cow is kept or on a large farm where hundreds of cattle are to be fed.

Too little attention has been given to seed bed preparation in the past. The land should be disked several times before seeding and kept fallowed, allowing the land to become free from weeds and making the moisture condition

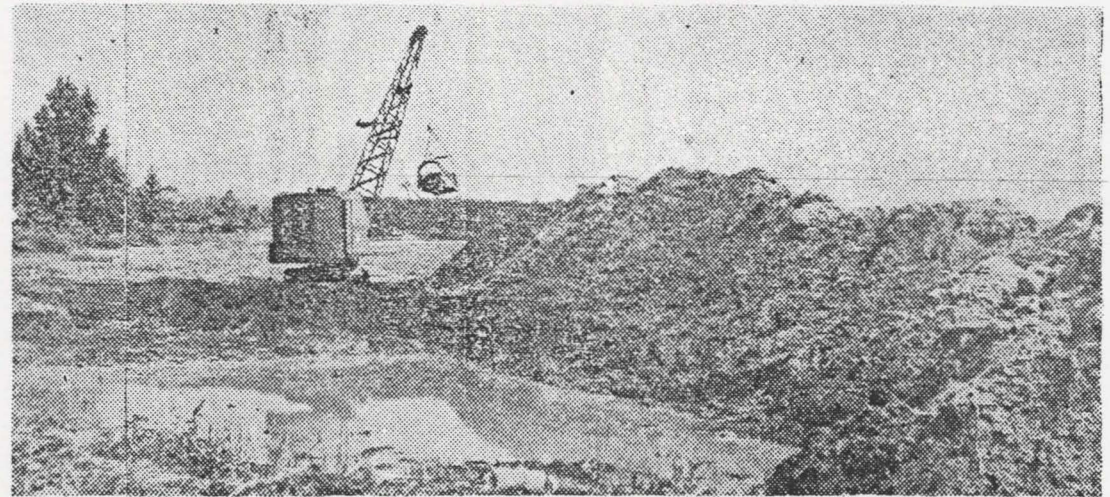
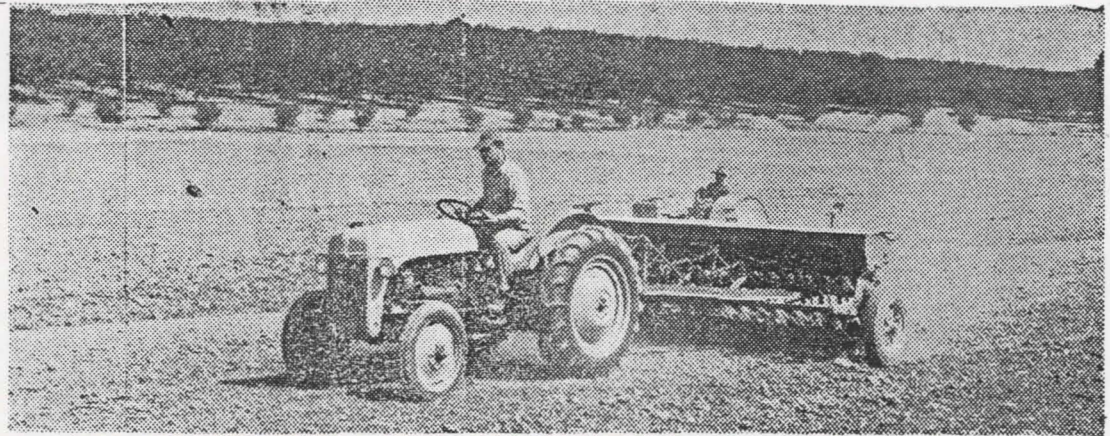
favorable for germination. Just before seeding the land should be disked, smoothed and packed with cultipacker or log, and packed just after seeding. In the past our percentage of germination has been very low on small seed and mainly due to seed bed preparation. Spend more time and effort in making good seed beds and less money for high price seed.

**UNLESS YOU** are willing to put down plenty of fertilizer and enough seed to completely cover the land surface with plants, don't plant supplemental grazing. Fertilizer is essential for maximum growth, and a large number of plants per acre is essential to keep cattle from bogging down in the soil.

In seeding any of the covers you should be sure the seed are inoculated with bacteria that is from reputable concerns, and the use of 3 to 5 times the amount recommended by the manufacturer will pay off, according to authorities. Be sure to sow the seed late in the afternoon or during a damp cloudy day. If the seed can be mixed with manure better results are expected.

Oats and barley are available on most of the farms in Spartanburg County. Therefore, there is no excuse for the cow not having winter grazing. Better still a mixture of grain and crimson clover. Grain will give earlier fall grazing than any other crop, and can be grazed until March 1 without lowering the yield if cut for grain, hay or silage. The grain can be grazed until March 1, and be harvested and put in the silo at a slack season of the year. Cattlemen that are using corn for silage should try to get their corn silage off early this fall and seed to small grain. If this doesn't prove profitable for silage next spring, you had all winter grazing, and still plenty of time to plant corn for silage.

**RYE GRASS** alone or in a mixture of crimson clover is one of the best winter and spring grazing crops. However, rye grass is a little slow to get started in the fall, but a field in rye grass and a field in small grain make a fine combination. Of course, it is bet-



**THE COX FARM** in Reidville Community is a busy place these days, Spartanburg County Farm Agent Joe Frank Jones reports today. Small grain is being seeded, soil limed, legumed and irrigated and other good farming practices carried out. J. R. Smith, son of R. C. Smith, owner, is driving the tractor (top photo), drilling grain. Below, a pumping reservoir for soil irrigation is being dug. ((Herald Photos by Randolph Bradford.))

ter to have clover in all the grazing mixtures. Rye grass is also a good producer of seed. It can be grazed until April 1 and make a good seed or hay crop.

Crimson clover works fine in a mixture with small grains or in a mixture with rye grass. Crimson clover can be grazed until the first of April and produce a good seed or hay crop. However, crimson clover seed are hard to harvest.

Ladino clover is one of the best for grazing alone or mixture with fescue or in pasture mixtures in bottom lands and in good heavy fertile soils. Ladino clover should

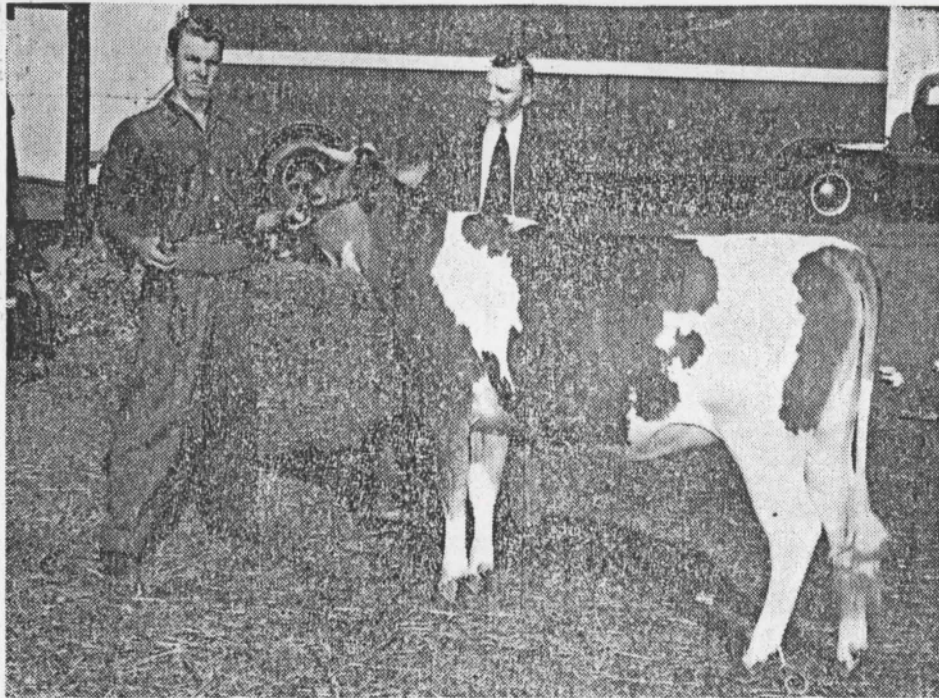
fit in on most all farms. It is a perennial plant and once established, your seeding troubles are over. Ladino seed can also be harvested, but this is a hard aggravating job.

**SUB CLOVER** is a winter annual that shows much promise in upland pasture mixtures and upland grazing. It looks good for poorer well drained soils. We recommend 6 to 8 pounds sub clover and 8 to 10 pounds fescue on upland soils.

Fescue, the perennial grass will probably mean more to cattle raising than any grass we know have because of its long grazing pe-

riod, ability to survive in most any weather conditions, grow on most any soil type, viroroug growth and high seed yielding ability. Farmers shouldn't expect much grazing the first year. Fescue can be planted in rows or broadcast. Special emphasis must be given to seed bed preparation and fertilization. The varieties of fescue adapted to this section are Alta and Kentucky 31. The only difference we know in these 2 varieties is the price.

If you need any help with your grazing problems we will be glad to assist you. Let's all get busy and get some grazing planted.



**FOUR-H CLUB MEMBER** Ben Dunigan (left) of Zion Hill poses with his senior yearling Guernsey, grand champion female in the Junior Fair division of the Piedmont Interstate Fair, and is congratulated by Herbert D. Marett (right), Spartanburg County assistant farm agent. (Herald Photo by Harry White.)

## Spartanburg County's 4-H Cattle Among Winners At Piedmont Interstate Fair

By HERBERT D. MARETT

Asst. County Farm Agent

It was a great honor for one of our 4-H boys to have the grand champion female in the Junior Fair at the Piedmont Interstate Fair. The calf was a senior yearling Guernsey owned and exhibited by Ben Dunigan, club boy from Zion Hill. This animal was also junior champion of the Junior Fair. We also had the senior champion female of the Junior Fair. This animal was a 2-year-old and under 3 Guernsey owned by Betty Earl Sloan of Rainbow Lake.

Following a list of Spartanburg club boys and girls who exhibited calves and the placing they received, in the Junior Fair:

**GUERNSEY DIVISION:** Betty Earl Sloan of Rainbow Lake exhibited a junior calf that placed 4th in her class. She also exhibited the dam of this calf as a 2-year-old and under 3 and placed first in her class. This cow was named senior champion of the Junior Fair.

Frances Bishop of Inma exhibited her senior calf and placed 4th in her class. Frances also placed 5th best showman out of about 35 boys and girls.

Diann Allen, club girl from Rainbow Lake, exhibited her junior yearling Guernsey and placed 2nd in her class.

**JOHN TURPIN**, club boy from Gramling, exhibited this junior yearling and placed 4th in that class.

Ben Dunigan, club boy from Zion Hill, exhibited his senior yearling and placed first in her class. This animal was later named junior champion then grand champion. Ben also had the honor of placing first on the best fitted animal in the Junior Fair. He was

placed second in the best showman class out of about 35 entries. He was best by Billy Joe Bailes of Union 4-H.

Ben also won the Dr. G. K. Smith trophy for the best fitted animal in the Junior Fair, also the \$25 award the Citizens and Southern National Bank makes to the best all around Guernsey in the Junior Fair.

Johnnie Fisher exhibited his Guernsey calf and placed 6th in her class.

Johnnie Lancaster exhibited his calf and placed 6th in her class.

We also exhibited a county group of 5 animals, placing second.

**JERSEY DIVISION** results included:

Roy Wolfe, club boy from Inman, exhibited his junior yearling and placed 5th in her class.

Melvin Gowns, club boy from Buck Creek, exhibited his senior yearling placing 5th in her class.

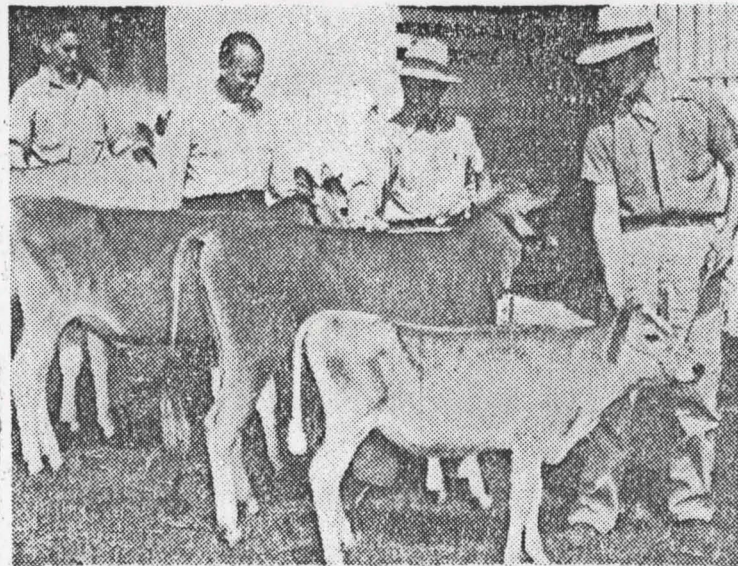
Our county group of 5 placed second.

Other 4-H members exhibiting Jersey calves at the Fair were Marshall Wolfe of Inman, Harold Wolfe of Inman and Curtis Lancaster of Cooley Springs.

### County 4-H Club Schedules Meetings Slated

Spartanburg County 4-H club has scheduled meeting this week as follows:

Today, Liberty at 9:30 and Rainbow Lake at 11; Tuesday, May Junior at 9:30 and Mayo Senior at 11; Wednesday, Cooley Springs at 9:30 and Buck Creek at 11; Friday Gramling at 9:30 and Fork Road at 11.



Journal Photo by Harry White.

**LEADING BREEDERS, EXTENSION** animal husbandrymen and fine Jersey cattle were assembled at Piedmont Interstate Fairgrounds today for the annual North-South Carolina Jersey cattle donation sale. Thirty-five head of registered Jerseys were marked-up for sale this afternoon. Top photo, left to right: Assistant County Farm Agent R. D. McNair; W. L. Abernathy of Chester, secretary, South Carolina Dairy Association; John Phillips, Greer Route 5; Willie Smith, Greer Route 5; L. B. Massey, Piedmont District farm agent, and Bobby Smith, also of Greer Route 5. Bottom photo, left to right: M. W. Habson, North Carolina State College, Raleigh; Ed Young, Florence, Ward Crim of Moore, one of the South's topflight breeders, and J. W. Phillips of Greer Route 5.



**COUNTY 4-H POULTRY CONTEST WINNERS:** R. M. Eades, manager of the Sears Roebuck office in Greenville is shown presenting cash prizes to the winning contestants in the County 4-H Poultry Club Contest. The presentations were made at the banquet, honoring contestants at Hotel Cleveland

Thursday night. Left to right, receiving awards are: Marshall Wolfe, John Turpin, Harold Wolfe, Jerry Cantrell, Larry Lancaster, Jimmie Thompson, George Wright, Becky Lancaster and Frances Johnson. (Herald-Journal Photo by Harry White.)

# Award Prizes For 4-H Poultry Work

By JIM OLIPHANT

Fourteen 4-H Club boys and girls who did outstanding work in their organization's poultry project this year, were awarded prizes at a banquet Thursday night at Hotel Cleveland.

The 4-H Poultry Chain, sponsored by the Sears Roebuck Foundation, ended its second year as club members heard of the need for improved poultry in this section.

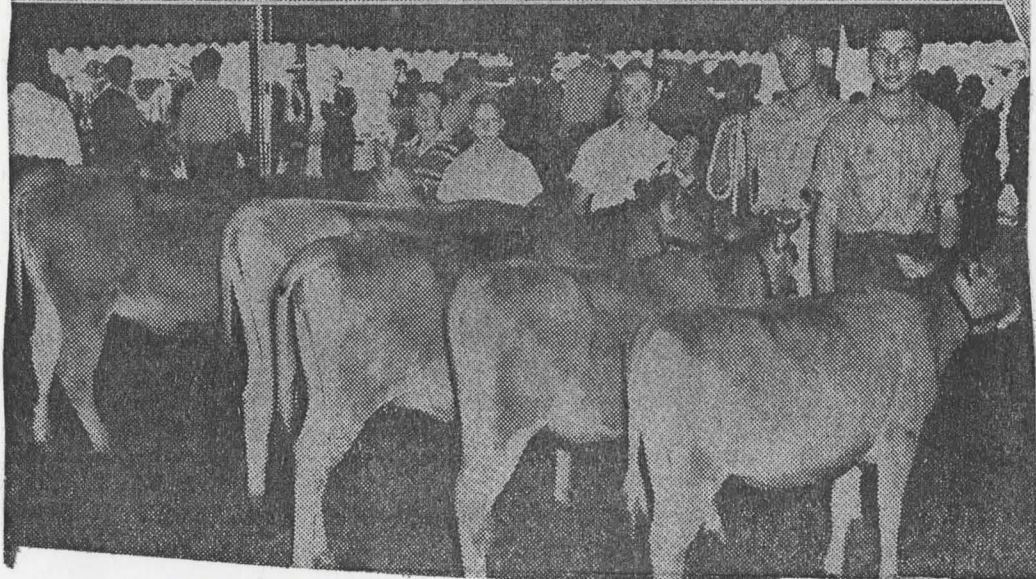
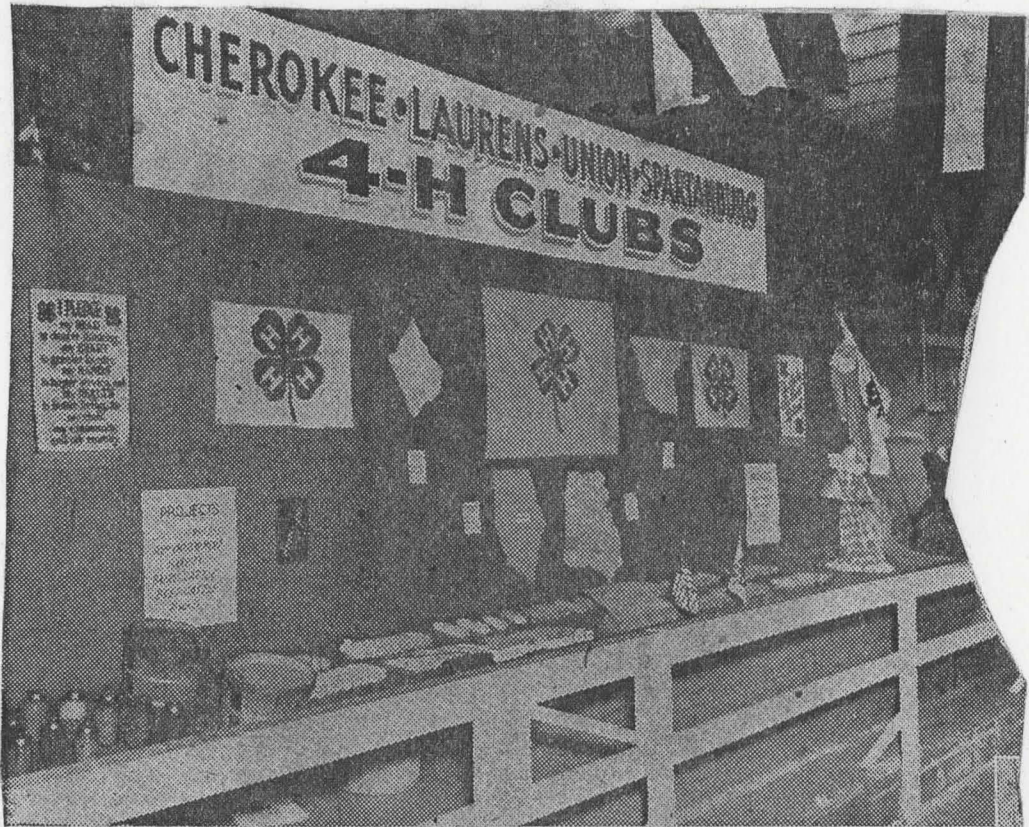
O. H. Green of the Seven Oaks Poultry Farm told the group there was a definite need for more good poultry producers and that "we can get them from the number of boys and girls participating in this project." He commended the members for their year's work.

R. N. Eades, manager of Sears Roebuck and Co. in Greenville, presented awards of \$20 to blue ribbon winners; \$10 to red ribbon winners; \$7.50 to the white ribbon group and \$5 to yellow ribbon group.

**AT THEIR ANNUAL** auction Thursday afternoon at the Piedmont Interstate Fairgrounds, poultry chain members sold 156 pullets for an average of \$3.09 each to add some \$480 to a fund for purchase of chicks for additional 4-H boys and girls next year.

Assistant County Farm Agent Herbert Marett and Mrs. Jeanette Griffin, assistant home agent, who attended the banquet, said this year's flock of pullets showed definite improvement over those of the past year.

Winners and their classes were: Blue Ribbon, Marshall Wolfe of Inman, Gail Owens and June Owens of Holly Springs; Red Ribbon, Jerry Cantrell of John Dodd, Harold Wolfe of Inman and Becky Lancaster of Walnut Grove; White Ribbon, John Turpin of Gramling, George Wright of Liberty, Ruth Sellers of Holly Springs and Frances Johnson of Holly Springs; Yellow Ribbon, Jimmie Thompson of Holly Springs, Gary Lancaster of Walnut Grove, Barbara Allen of Motlow and Dotsie Cunnells of Gramling.



**1948 PIEDMONT INTERSTATE FAIR:** Heavy crowds and outstanding agricultural exhibits and shows featured the 6-county exposition which ended Saturday night. The 1948 success left fair officials with a good record to aim for in 1949. More emphasis than ever before placed on the fact that it really is a 6-county fair featured the exhibit hall where all counties had agricultural features displayed. Pictured here are some of the things which were seen by the thousands of fair visitors the past week. Top row, left to right, 4 counties' 4-H club councils cooperate in a large booth showing projects of clubs in Cherokee, Laurens, Union and Spartanburg Counties. Center, a section of the crowd on the midway, with rides and shows in the background. At right Ruth Ford County displays her agricultural highlights. Center left, Spartanburg County 4-H boys display the project which took second place in the 4-H and FFA. Right, FFA member Wolfe, Ben Dunigan, Marshall Wolfe and Melvin Gowans. In the center, ...

Project is publicized, showing some of the birds since its start this spring in the Showmanship division of the ... Bernice Miller, Greenwood 4-H ... Chester, Pacolet FFA chapter ... wood, first place. The ... displays a miniature ... an exhibit which was ... the sign, "Grow Time ... shows several int ... In addition to ... with ...



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

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

Spartanburg, South Carolina

February 5, 1948

EXTENSION SERVICE

WHAT? A Tractor and Equipment Demonstration

WHEN? February 12th, 2:30 P. M.

WHERE? Spartanburg County Farmers' Market on Asheville Highway

WHO IS INVITED? Any tractor owner or tractor operator in Spartanburg County who would like to see some demonstrations showing how to:

1. Save money in operating his tractor.
2. Make the tractor last longer and do better work.
3. Make power farming easier.

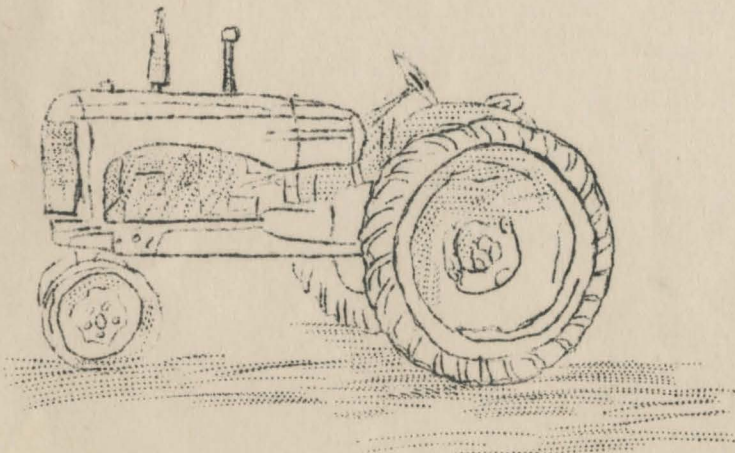
M. C. McKenzie, with the Clemson Extension Service will be in charge of the demonstrations, assisted by farm machinery dealers who will furnish tractors and other equipment. Lubrication engineers from some of the petroleum companies will be present to assist with lubrication demonstrations.

Yours very truly,

*J. F. Jones*

J. F. Jones,  
County Agent

JFJ:ls





# COTTON LETTER

PRESENTING TIMELY INFORMATION

ON ALL PHASES OF COTTON PRODUCTION

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Spartanburg, S. C.  
April 30, 1948

Despite the cold, wet winter we still have plenty of live boll weevils with us -- 2710 weevils per acre compared with 2904 in 1947. Let's kill him and other cotton insects this year with poisons. Buy your poisons and dusters now. A small farmer with 5-10 acres of cotton can use a rotary hand duster. 20 to 30 acre cotton farmers need a two-row mule drawn traction duster or two-row tractor drawn duster. Larger acreages call for tractor dusters or airplane **dusting**. If you plan to use the 3-5-40 (BHC-DDT-Sulfur) dust do not forget to buy either Chlorinated camphene or Chlordane. (which is to be used at the farmers own risk), to be used during migration time. BHC does not give lasting protection against weevils at this time.

Those farmers who are planting breeder's foundation seed or 1st year certified seed are encouraged to file application with our office in order that they may have their production of seed from such fields certified this year. These fields must be planted nearer than 100 feet to cotton of other varieties. Nearly always there is a good demand for certified 1st and 2nd year seed if it is of good germination. There is no better way to supply good planting seed of known origin than by producing and having certified the good seed from certified or registered stock.

Cotton ginners should begin now to get their gins ready for the fall season. During spare times or on wet days check all machinery and order immediately any repair parts needed. Parts will likely be hard to get later in the season and ginning may be delayed if parts are not ordered now!

JFJ:ls

*J. F. Jones*  
J. F. Jones,  
County Agent

AGRICULTURE AND HOME ECONOMICS

STATE OF SOUTH CAROLINA  
Spartanburg, South Carolina

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

September 4, 1948

EXTENSION SERVICE

To Spartanburg County Farmers:

Dear Sir or Madam:

A system of annually-seeded grazing crops to extend the grazing season and supplement of the permanent pasture program is highly desirable. Late summer and early fall seeded crops extend the grazing period through the fall, winter and spring months.

Enclosed you will find a chart which will give you the most important crops and combination of crops that are adaptable for use as annual grazing in this county. These crops can be used just as successfully on a farm where there is only one family cow as on a large specialized livestock farm.

There are many advantages to annual grazing, some of which are: the winter grazing crops save the cost of harvesting, storing, and feeding large amounts of hay and silage. There is no loss in quality and no storage or feeding cost and there is no loss in nutrient value. From a soil conservation angle these grazing crops reduce runoff and conserve moisture, prevent erosion and add organic matter to the soil when crop residues are turned under.

We believe that a 12 month grazing program is the basis for any successful livestock program and if one is successful with these crops, it is imperative that fertilizer be used liberally and the crops seeded on a well prepared firm seed-bed. In addition to this the following important factor of management should not be overlooked.

1. Obtain sufficient growth (10 to 12 ins.) before starting grazing.
2. Graze a sufficient number of cattle so that growth will not become too rank. If sufficient cattle are not available, mow excess growth for hay or silage.
3. For best results, controlled grazing should be practiced.
4. The best control of aphids on fall seeded grazing is to plant early (before September 15) on a firm seed-bed, and fertilize heavily. In case of aphid outbreaks, graze closely and follow with a nitrogen top-dressing.
5. To avoid bloat, start grazing gradually. Do not turn hungry cows on lush grazing.

In seeding these crops allow 1/4 to 1/2 acre per cow.

We hope that all farmers in the county will provide ample grazing for their livestock this winter.

Please call on us if we can be of any assistant to you.

Very truly yours,

*R. D. McNair*

R. D. McNair  
Assistant County Agent

*J. F. Jones*

J. F. Jones  
County Agent

COOPERATIVE EXTENSION WORK  
IN  
AGRICULTURE AND HOME ECONOMICS

STATE OF SOUTH CAROLINA

Spartanburg, South Carolina

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

September 30, 1948

EXTENSION SERVICE

4-H Dairy Calf Club Members:

Fair time is almost here and we know all of the boys having a purebred dairy calf will want to exhibit their calf at the Piedmont Interstate Fair in Spartanburg from October 11th to 16th. We are looking forward for the best 4-H Club display of purebred calves that we have ever had. Two competent boys will be selected to care for our calves during the week.

The things you will be required to bring along with your calf are as follows: a feeding pail, 2 bales of hay if your calf is under 6 months old and 3 bales of hay if your calf is over 6 months old, the registration papers for the calf and a blanket if you have one and if you do not have a blanket we will furnish you one upon arrival at the Fair Ground. We will again this year furnish the grain feed for these calves.

It will be permissible for you to bring your calf in Sunday, October 10th if you wish. We would like for all calves that will be shown to be in the dairy barn by 10:30 A. M., Monday, October 11th. If possible, we will try to come to see each one of you and aid you in preparing your calf for the Fair. However it looks now like we will not get to see all of you but if not, bring your calf on to the Fair and we will assist you there in getting your calf ready.

Looking forward to seeing you at the Fair with your calf and wishing you the best of luck, we are

Very truly yours,

*H. D. Marett*

H. D. Marett  
Ass't. County Agent

*R. D. McNair*

R. D. McNair  
Ass't. County Agent

COOPERATIVE EXTENSION WORK  
IN  
AGRICULTURE AND HOME ECONOMICS

STATE OF SOUTH CAROLINA

Spartanburg, South Carolina

October 28, 1948

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

EXTENSION SERVICE

To Spartanburg County Livestock and Dairy Farmers:

Dear Sir or Madam:

Spartanburg County has recently received an allotment of nitrate material from the Tennessee Valley Authority. This material will analyze approximately 33% nitrogen and will cost the farmers receiving it approximately \$63.50 per ton. This material is to be used only on winter grazing crops or winter pastures and is to be used in accordance with the recommendations of the Extension Agronomy Division of Clemson. Also those farmers receiving the material will be asked to make a report on the use of it to the County Agent.

If you are interested in getting some of this material please come by this office as early as possible and file your application. The committee will meet at an early date to pass on these applications.

Very truly yours,

*J. F. Jones*

J. F. Jones,  
County Agent

JFJ:ls  
Stamped