1947 Negro Lancaster County Extension Service Report

Clemson University Cooperative Extension Service

R. N. Smith

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ANNUAL REPORT
COUNTY AGENT WORK

Lancaster
County
SOUTH CAROLINA
1947

R. N. Smith
Negro Agricultural Agent

CLEMSON AGRICULTURAL COLLEGE

Cooperating with

UNITED STATES DEPARTMENT OF AGRICULTURE

EXTENSION SERVICE

D. W. Watkins, Director

Clemson, South Carolina
LANCASTER COUNTY

ANNUAL REPORT

by

ROBERT N. SMITH

NEGRO AGRICULTURAL AGENT

- 1947 -

Cooperative Extension Work in Agriculture

and

Home Economics

Clemson Agricultural College

and the

United States Department of Agriculture

Cooperating Extension Service

D. W. Watkins, Director

Clemson, S. C.
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Agronomy

Cotton
Corn Production
Corn Production Demonstrations
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Small Grain

Oats Production
Wheat Production

Legumes for Hay

Lespeza
Cow Peas
Kudzu

Annual Grazing Crops

Millet Grazing

Sugar Cane

Sugar Cane

Pasture Permanent

Permanent Pasture

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(3)
1. Days spent in office ........................................ 86
2. Days spent in field ......................................... 212
3. Days worked .................................................. 298
4. Miles traveled ............................................... 13541
5. Number of farm visits made ................................ 507
6. Number of different farm visits ............................ 345
7. Number of office calls relating to extension work ...... 205
8. Meetings held or attended .................................. 51
9. Attendance at these meetings ............................... 2051
10. Number of communities in which extension service was conducted ........... 11
11. Number of farmers conducting demonstrations .......... 82
12. Number of voluntary community leaders assisting with extension program ... 16

PROJECT ACTIVITIES AND RESULTS

Agricultural Economics

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

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

Agricultural Engineering

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

Five farmers conducted the five-acre cotton production contest, producing on an average of one bale to one acre. Six farmers planted three to five acres of Hybrid 7-14 funk yellow corn in three to five acre plots with an average 65 bushels to an acre. Two meetings were held on planting an additional acre of yellow corn. One circular letter was sent out to 100 farmers on the production of yellow corn for food and feed. Three cowpeas demonstrations were completed with a yield of one and a half--11/2 tons to the acre. Held two demonstrations on building compact heaps. Three farmers completed sugar cane demonstrations with a yield of one hundred gallons to the acre. Three lespedeza demonstrations were conducted with a yield of two tons to the acre. Two out demonstrations were conducted with a yield of a ton and three quarters of an acre for feed instead of corn. Three demonstrations were conducted on Kudzu hay production with a yield of 1.7 tons per acre.

Animal Husbandry

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

Dairying

Placed two pure bred guernsey bulls and five pure bred guernsey heifers with the farmers of the county. Conducted one demonstration on butter and cheese making for home use. Encouraged twenty-six farmers to sell milk above home use. Assisted ten farmers in planting dairy cattle grazing crops. Twenty dairy calves club members grew out twenty heifers and two bulls and showed seven at the district show in Chester, S. C. Three were placed in first place and two placed in second place.
The twenty club members showed their calves at the County Fair 4-H Club Calf Show. The amount of prizes given was $50 to be divided among the group in the first three classes.

**Entomology and Pathology**

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

**Forestry**

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

**Four-H Club Work**

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

**Horticulture**

Thirty-five orders were placed for a total of three hundred and fifty-two fruit trees for home orchards and improvements. Six pruning and five thinning demonstrations
were completed. In sweet potato work three hot bed demonstrations were completed with fourteen bushels of sweet potatoes each yielding on an average of thirty-four thousand plants per bed. These sweet potatoes were treated with the borax solution before bedding. Three demonstrations were given on the treating of sweet potatoes with borax solution before bedding. Those sweet potatoes showed a greater yield than sweet potatoes in the same community that were not treated.

**Marketing**

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

**Poultry**

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

**Visual Instruction**

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

**Publicity**

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

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

   b. List of names and addresses of the members.

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

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

2. Community Agricultural Committees and Neighborhood Leaders.

   A. List of names of communities and neighborhoods organized for the different phases of the agricultural program in the county.
<table>
<thead>
<tr>
<th>Location</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indian Land</td>
<td>2</td>
</tr>
<tr>
<td>Pleasant Valley</td>
<td>2</td>
</tr>
<tr>
<td>Osceola</td>
<td>2</td>
</tr>
<tr>
<td>Van Wyck</td>
<td></td>
</tr>
<tr>
<td>Van Wyck</td>
<td>-3</td>
</tr>
<tr>
<td>Jacksonham Unity</td>
<td>-2</td>
</tr>
<tr>
<td>Unity</td>
<td>2</td>
</tr>
<tr>
<td>Jacksonham</td>
<td>3</td>
</tr>
<tr>
<td>Buford</td>
<td></td>
</tr>
<tr>
<td>New Bethel</td>
<td>-2</td>
</tr>
<tr>
<td>Dixie</td>
<td>2</td>
</tr>
<tr>
<td>Union</td>
<td>2</td>
</tr>
<tr>
<td>Tradesville</td>
<td></td>
</tr>
<tr>
<td>Rose Hill</td>
<td>1</td>
</tr>
<tr>
<td>Rich Hill</td>
<td></td>
</tr>
<tr>
<td>Primus</td>
<td>-3</td>
</tr>
<tr>
<td>Fork Hill</td>
<td>2</td>
</tr>
<tr>
<td>Elgin</td>
<td></td>
</tr>
<tr>
<td>Elgin</td>
<td>3</td>
</tr>
<tr>
<td>Pleasant Hill</td>
<td></td>
</tr>
<tr>
<td>Pleasant Hill</td>
<td>2</td>
</tr>
<tr>
<td>Heath Springs</td>
<td></td>
</tr>
<tr>
<td>Heath Springs</td>
<td>2</td>
</tr>
<tr>
<td>Flint Ridge</td>
<td>2</td>
</tr>
<tr>
<td>Douglas</td>
<td></td>
</tr>
<tr>
<td>Bell Town</td>
<td>2</td>
</tr>
<tr>
<td>Jones Cross Road</td>
<td>2</td>
</tr>
<tr>
<td>Dry Creek</td>
<td></td>
</tr>
<tr>
<td>Mt. Carmel</td>
<td>-3</td>
</tr>
<tr>
<td>Cedar Creek</td>
<td>2</td>
</tr>
</tbody>
</table>
List of different programs and campaigns handled by Voluntary Leaders in 1947.

1. Food and Feed Production Program.

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

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

2. Liming Program

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

3. Seeding Fall Grains

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

4. Farm Labor Program

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

II. PROJECT ACTIVITIES AND RESULTS

Agricultural Economics

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

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

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

Agricultural Engineering

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

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

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

Farm Building

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

<table>
<thead>
<tr>
<th>Buildings</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poultry Houses</td>
<td>3</td>
</tr>
<tr>
<td>Hog Self Feeders</td>
<td>4</td>
</tr>
<tr>
<td>Brick Brooders</td>
<td>2</td>
</tr>
<tr>
<td>Smoke Houses</td>
<td>5</td>
</tr>
<tr>
<td>General Purpose Barns</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Community</th>
<th>Size</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>George Peay</td>
<td>Mt. Carmel</td>
<td>12 x 12</td>
<td>$27.90</td>
</tr>
<tr>
<td>James Blackmon</td>
<td>Pleasant Hill</td>
<td>14 x 14</td>
<td>$38.20</td>
</tr>
<tr>
<td>Robert Waiters</td>
<td>Elgin</td>
<td>10 x 10</td>
<td>$24.95</td>
</tr>
<tr>
<td>John McNeeley</td>
<td>Tradesville</td>
<td>12 x 16</td>
<td>$43.80</td>
</tr>
<tr>
<td>Total cost</td>
<td></td>
<td></td>
<td>$134.85</td>
</tr>
</tbody>
</table>

Care and Repair of Farm Buildings

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

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

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

Agronomy

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

Cotton

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Lbs. seed cotton</th>
<th>Lbs. Lint</th>
<th>Value Lint Crop</th>
<th>Cost Lint Crop</th>
<th>Profit Lint Crop</th>
<th>Cost Seed per lb.</th>
<th>Seed Lint per acre</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Ellis</td>
<td>7,500</td>
<td>2503</td>
<td>609.20 190.90</td>
<td>409.30</td>
<td>4.9¢</td>
<td>36.5</td>
<td>36.5</td>
<td>C100</td>
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<tr>
<td>A. McIlwain</td>
<td>6,027</td>
<td>2009</td>
<td>522.34 186.20</td>
<td>336.14</td>
<td>7.0</td>
<td>38.6</td>
<td>C41n1</td>
<td></td>
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<tr>
<td>C. H. Blackmon</td>
<td>7,006</td>
<td>2335</td>
<td>607.10 189.95</td>
<td>417.15</td>
<td>5.3</td>
<td>35.9</td>
<td>C100</td>
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<tr>
<td>V. C. Cauthen</td>
<td>7,248</td>
<td>2416</td>
<td>598.95 187.20</td>
<td>411.75</td>
<td>5.5</td>
<td>36.3</td>
<td>C100</td>
<td></td>
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<tr>
<td>T. A. Duncan</td>
<td>6005</td>
<td>2001</td>
<td>501.80 195.00</td>
<td>306.80</td>
<td>4.9</td>
<td>35.1</td>
<td>C100</td>
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<tr>
<td>Average yield Lint per acre</td>
<td>526</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Average value per acre</td>
<td>$120.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Average per cent Lint</td>
<td>36.4%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average cost per pound</td>
<td>5¢</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Improved Seed: The campaign for cotton improvement through the use of improved planting seeds were continued this year. Two meetings were held on the purpose of using improved seeds for the 1947 cotton crop, and through a campaign 155 bushels of improved and best varieties recommended were placed with 19 farmers this year at an average cost of $2.80 per bushel.
The five-acre cotton improvement contest demonstrations created a great deal of interest among the farmers and caused them to produce a better length of staple and to increase the yield over the last year.

Corn Production

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Acres</th>
<th>Yield Bu.</th>
<th>Cost Bu. per Acre</th>
<th>Cost Prod. per Bu.</th>
<th>Value Crop</th>
<th>Profit</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. W. Cauthen</td>
<td>5</td>
<td>210</td>
<td>42</td>
<td>95</td>
<td>75%</td>
<td>367.50</td>
</tr>
<tr>
<td>Eddie Crowe</td>
<td>8</td>
<td>264</td>
<td>33</td>
<td>135</td>
<td>61%</td>
<td>462.00</td>
</tr>
<tr>
<td>John Coleman</td>
<td>6</td>
<td>186</td>
<td>31</td>
<td>110</td>
<td>54%</td>
<td>325.50</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>19</td>
<td>660</td>
<td>Average 35.8</td>
<td>63.3%</td>
<td>63.3%</td>
<td></td>
</tr>
<tr>
<td><strong>Average production bushels per acre</strong></td>
<td>35.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Acres Yield</th>
<th>Bu.</th>
<th>Cost per Acre</th>
<th>Cost per Bu.</th>
<th>Value per Bu.</th>
<th>Profit per Bu.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ben Barnes</td>
<td>41</td>
<td>41</td>
<td>$18.50</td>
<td>65¢</td>
<td>$75.85</td>
<td>57.35</td>
</tr>
<tr>
<td>R. B. Stewart</td>
<td>37</td>
<td>37</td>
<td>15.20</td>
<td>60¢</td>
<td>58.45</td>
<td>43.25</td>
</tr>
<tr>
<td>J. W. Blackmon</td>
<td>35</td>
<td>35</td>
<td>16.90</td>
<td>62¢</td>
<td>64.75</td>
<td>47.85</td>
</tr>
<tr>
<td>Hamp Davis</td>
<td>126</td>
<td>42</td>
<td>57.20</td>
<td>69¢</td>
<td>233.10</td>
<td>175.00</td>
</tr>
<tr>
<td>Totals</td>
<td>6</td>
<td>239</td>
<td>Avg. 39.9</td>
<td>64¢</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Small Grain**

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

**Summary of Oats Demonstrations**

<table>
<thead>
<tr>
<th>Name</th>
<th>Variety</th>
<th>Acres Yield</th>
<th>Yield per Bu.</th>
<th>Yield per Acre</th>
<th>Cost per Bu.</th>
<th>Cost per Acre</th>
<th>Value per Bu.</th>
<th>Profit per Bu.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. L. Hill</td>
<td>Victorgrain</td>
<td>210</td>
<td>36</td>
<td>71¢</td>
<td>$160.00</td>
<td>$283.50</td>
<td>123.50</td>
<td></td>
</tr>
<tr>
<td>J. McNeely</td>
<td>Fulgrain</td>
<td>336</td>
<td>42</td>
<td>64¢</td>
<td>173.00</td>
<td>453.60</td>
<td>273.60</td>
<td></td>
</tr>
<tr>
<td>A. Stinson</td>
<td>Victorgrain</td>
<td>155</td>
<td>31</td>
<td>66¢</td>
<td>139.00</td>
<td>208.25</td>
<td>69.25</td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td></td>
<td>701</td>
<td>36</td>
<td>67¢</td>
<td>477.00</td>
<td>945.35</td>
<td>476.35</td>
<td></td>
</tr>
<tr>
<td>Average per Acre</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25.11</td>
<td>48.75</td>
<td>25.07</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Variety</th>
<th>Acres</th>
<th>Yield Bu.</th>
<th>Cost Bu.</th>
<th>Cost per A.</th>
<th>Value per Bu.</th>
<th>Profit per A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Blackmon</td>
<td>C. Red H.</td>
<td>4</td>
<td>68</td>
<td>17</td>
<td>$23.10</td>
<td>$102.00</td>
<td>78.90</td>
</tr>
<tr>
<td>V. Twitty</td>
<td>C. Red. H.</td>
<td>3</td>
<td>54</td>
<td>18</td>
<td>19.80</td>
<td>81.00</td>
<td>61.20</td>
</tr>
<tr>
<td>C. Tucker</td>
<td>C. Hardired</td>
<td>2</td>
<td>40</td>
<td>20</td>
<td>21.15</td>
<td>60.00</td>
<td>38.85</td>
</tr>
<tr>
<td>I. Tims</td>
<td>C. Hardired</td>
<td>4</td>
<td>84</td>
<td>21</td>
<td>22.50</td>
<td>126.00</td>
<td>103.50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>13</strong></td>
<td><strong>246</strong></td>
<td><strong>55</strong></td>
<td><strong>$85.55</strong></td>
<td><strong>$569.00</strong></td>
<td><strong>282.45</strong></td>
</tr>
</tbody>
</table>

Average per acre = 19 per Bu. 28.38 21.93

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

Legumes for Hay

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Variety</th>
<th>Acres</th>
<th>Yield Tons</th>
<th>Cost Prod.</th>
<th>Cost per Ton</th>
<th>Value per Crop</th>
<th>Profit per A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. W. Walker</td>
<td>Kobe</td>
<td>4</td>
<td>7</td>
<td>$62.80</td>
<td>$8.00</td>
<td>$210.00</td>
<td>147.20</td>
</tr>
<tr>
<td>J. C. Crockett</td>
<td>Kobe</td>
<td>5</td>
<td>9</td>
<td>83.00</td>
<td>9.40</td>
<td>240.00</td>
<td>157.00</td>
</tr>
<tr>
<td>E. B. Belk Korean</td>
<td>Korean</td>
<td>6</td>
<td>10</td>
<td>91.50</td>
<td>8.95</td>
<td>251.00</td>
<td>159.50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
<td><strong>26</strong></td>
<td><strong>237.30</strong></td>
<td><strong>8.79</strong></td>
<td><strong>701.00</strong></td>
<td><strong>17.84</strong></td>
</tr>
</tbody>
</table>

Average per A. 1.7 per A. 8.79 17.84
Interest in lespedeza as a hay crop is increasing in Lancaster County.

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

Summary of Cow Pea Hay Production Demonstrations

<table>
<thead>
<tr>
<th>Name</th>
<th>Variety</th>
<th>Acres</th>
<th>Yield Tons</th>
<th>Cost Prod.</th>
<th>Cost per Ton</th>
<th>Value Crop</th>
<th>Profit Crop</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Blakeney</td>
<td>Clay</td>
<td>5</td>
<td>8</td>
<td>$44.50</td>
<td>$7.10</td>
<td>155.00</td>
<td>110.50</td>
</tr>
<tr>
<td>R. Henderson</td>
<td>Clay</td>
<td>4</td>
<td>6</td>
<td>31.20</td>
<td>6.40</td>
<td>132.00</td>
<td>100.80</td>
</tr>
<tr>
<td>C. McKinney</td>
<td>Clay</td>
<td>6</td>
<td>10</td>
<td>62.20</td>
<td>6.88</td>
<td>172.00</td>
<td>109.80</td>
</tr>
<tr>
<td>Totals</td>
<td></td>
<td>15</td>
<td>24</td>
<td>$137.90</td>
<td>$6.80</td>
<td>$459.00</td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td></td>
<td>1.6</td>
<td>24</td>
<td>$8.43</td>
<td>$6.80</td>
<td>13.38</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Summary of Kudzu Hay Demonstrations

<table>
<thead>
<tr>
<th>Name</th>
<th>Acres</th>
<th>Yield Tons</th>
<th>Cost per Ton</th>
<th>Value</th>
<th>Profit</th>
<th>Year's Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. Stewart</td>
<td>2</td>
<td>4</td>
<td>$35.00</td>
<td>$5.15</td>
<td>$325.00</td>
<td>129.00</td>
</tr>
<tr>
<td>E. Belk</td>
<td>3</td>
<td>5</td>
<td>47.00</td>
<td>6.10</td>
<td>407.00</td>
<td>140.00</td>
</tr>
<tr>
<td>R. McWhirter</td>
<td>2</td>
<td>3</td>
<td>24.00</td>
<td>4.28</td>
<td>291.00</td>
<td>126.00</td>
</tr>
<tr>
<td>Total</td>
<td>7</td>
<td>12</td>
<td>$106.00</td>
<td>$15.53</td>
<td>$1023.00</td>
<td>395.00</td>
</tr>
<tr>
<td>Average</td>
<td>1.7</td>
<td>7.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annual Grazing Crops

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Acres</th>
<th>Crop</th>
<th>No. of Animals</th>
<th>Total Days</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. J. Blackmon</td>
<td>4</td>
<td>Millet 7</td>
<td>45</td>
<td>54.00</td>
<td></td>
</tr>
<tr>
<td>H. Belton</td>
<td>3</td>
<td>Millet 5</td>
<td>38</td>
<td>36.00</td>
<td></td>
</tr>
<tr>
<td>R. McKinney</td>
<td>12</td>
<td>Millet 16</td>
<td>42</td>
<td>125.00</td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>19</strong></td>
<td></td>
<td><strong>28</strong></td>
<td><strong>216.00</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>6.3</strong></td>
<td></td>
<td><strong>9.3</strong></td>
<td><strong>41.6</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

Sugar Cane

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Acres</th>
<th>Variety</th>
<th>Total Gallons Produced</th>
<th>Total Value Cost</th>
<th>Cost per Gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mack Barnes</td>
<td>2</td>
<td>O. T.</td>
<td>260</td>
<td>$120.00 215.00</td>
<td>58¢</td>
</tr>
<tr>
<td>Ben Barnes</td>
<td>1</td>
<td>G. S. R.</td>
<td>125</td>
<td>74.00 165.00</td>
<td>61¢</td>
</tr>
<tr>
<td>F. C. McMurray</td>
<td>1</td>
<td>O. T.</td>
<td>150</td>
<td>87.00 195.00</td>
<td>53¢</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4</strong></td>
<td></td>
<td><strong>395</strong></td>
<td><strong>195.00</strong></td>
<td><strong>57.4¢</strong></td>
</tr>
</tbody>
</table>

Permanent Pasture

Permanent Pastures: The meetings held in three communities on permanent pastures created a great interest among the
farmers to the fact of cutting under growth, fertilizing, planting white Dutch clover and Dallas grass for the County-wide pasture improvement contest. Twenty farmers were assisted in getting ten tons of superphosphrose for their pastures.

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

Animal Husbandry

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

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

Swine

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

<table>
<thead>
<tr>
<th>Name</th>
<th>No.</th>
<th>Age</th>
<th>Cost</th>
<th>Breed</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. B. Walker</td>
<td>1</td>
<td>6 mo.</td>
<td>$45.00</td>
<td>Poland China</td>
</tr>
<tr>
<td>S. H. Jones</td>
<td>1</td>
<td>4 mo.</td>
<td>31.00</td>
<td>Poland China</td>
</tr>
<tr>
<td>Total placed</td>
<td>2</td>
<td></td>
<td>$76.00</td>
<td></td>
</tr>
</tbody>
</table>
**Summary of Pure Bred Gilts Placed**

<table>
<thead>
<tr>
<th>Name</th>
<th>No.</th>
<th>Breed</th>
<th>Age</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. Walker</td>
<td>1</td>
<td>Hampshire</td>
<td>7 mo.</td>
<td>$56.00</td>
</tr>
<tr>
<td>I. C. Tims</td>
<td>1</td>
<td>Poland China</td>
<td>5 mo.</td>
<td>39.00</td>
</tr>
<tr>
<td>E. Belk</td>
<td>3</td>
<td>Hampshire</td>
<td>6 mo.</td>
<td>50.00</td>
</tr>
</tbody>
</table>

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

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

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

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

**Summary of Grade Bulls Placed for Canning**

<table>
<thead>
<tr>
<th>Name</th>
<th>No. of Bulls Placed</th>
<th>Breed</th>
<th>Age</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Coleman</td>
<td>1</td>
<td>Grade Herford</td>
<td>4 mo.</td>
<td>$25.00</td>
</tr>
<tr>
<td>W. Stewart</td>
<td>1</td>
<td>Grade Herford</td>
<td>6 mo.</td>
<td>70.00</td>
</tr>
<tr>
<td>L. Rutledge</td>
<td>1</td>
<td>Grade Herford</td>
<td>5 mo.</td>
<td>53.00</td>
</tr>
<tr>
<td>E. Davis</td>
<td>1</td>
<td>Grade Guernsey</td>
<td>3 mo.</td>
<td>21.00</td>
</tr>
<tr>
<td>R. Crawford</td>
<td>1</td>
<td>Grade Guernsey</td>
<td>4 mo.</td>
<td>25.00</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>5</strong></td>
<td></td>
<td></td>
<td><strong>$192.00</strong></td>
</tr>
</tbody>
</table>

**Dairying**

Extension work in dairying for 1947 included two meetings, distribution of bulletins on the family cow, dairy calves in the 4-H club work, annual grazing crops, one tour to the pasture and silage demonstrations of Chester County. Plans for more families to sell milk was made.
Assistance was given in establishing the Carnation milk route in Lancaster county. Twenty families are selling milk on the route.

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

**Permanent Pastures**

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

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

**Animal Grazing**

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

**Four-H Dairy Club Work**

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

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

- 19 -
### Summary Dairy Calf Club Demonstrations

<table>
<thead>
<tr>
<th>Name</th>
<th>No. Animals at Begin.</th>
<th>No. Animals at End</th>
<th>Receipts &amp; Expense Increase in Value</th>
<th>No. Animals at End</th>
<th>Receipts &amp; Expense Increase in Value</th>
<th>No. Animals at End</th>
<th>Receipts &amp; Expense Increase in Value</th>
<th>No. Animals at End</th>
<th>Receipts &amp; Expense Increase in Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brice Catoe</td>
<td>1</td>
<td></td>
<td>$55.00</td>
<td></td>
<td>$17.00</td>
<td></td>
<td>$38.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hiawatha</td>
<td>1</td>
<td></td>
<td>80.00</td>
<td></td>
<td>20.00</td>
<td></td>
<td>60.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Taylor</td>
<td>1</td>
<td></td>
<td>25.00</td>
<td></td>
<td>7.00</td>
<td></td>
<td>18.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arthur Cauthen</td>
<td>1</td>
<td></td>
<td>50.00</td>
<td></td>
<td>10.00</td>
<td></td>
<td>40.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elliott Cauthen</td>
<td>1</td>
<td></td>
<td>65.00</td>
<td></td>
<td>12.00</td>
<td></td>
<td>55.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bennie E. Johnson</td>
<td>1</td>
<td></td>
<td>75.00</td>
<td></td>
<td>25.00</td>
<td></td>
<td>50.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roy E. Truesdale</td>
<td>1</td>
<td></td>
<td>35.00</td>
<td></td>
<td>10.00</td>
<td></td>
<td>25.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Price</td>
<td>1</td>
<td></td>
<td>40.00</td>
<td></td>
<td>15.00</td>
<td></td>
<td>25.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leroy Clinton</td>
<td>1</td>
<td></td>
<td>56.00</td>
<td></td>
<td>16.00</td>
<td></td>
<td>40.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lewis Cauthen</td>
<td>1</td>
<td></td>
<td>75.00</td>
<td></td>
<td>25.00</td>
<td></td>
<td>50.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clyde Cauthen</td>
<td>1</td>
<td></td>
<td>45.00</td>
<td></td>
<td>15.00</td>
<td></td>
<td>30.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lloyd Barnes</td>
<td>1</td>
<td></td>
<td>175.00</td>
<td></td>
<td>30.00</td>
<td></td>
<td>145.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curtis Brevard</td>
<td>1</td>
<td></td>
<td>180.00</td>
<td></td>
<td>40.00</td>
<td></td>
<td>140.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T. B. Threatt</td>
<td>1</td>
<td></td>
<td>125.00</td>
<td></td>
<td>30.00</td>
<td></td>
<td>95.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wesley Stewart</td>
<td>1</td>
<td></td>
<td>105.00</td>
<td></td>
<td>25.00</td>
<td></td>
<td>80.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Thomas</td>
<td>1</td>
<td></td>
<td>65.00</td>
<td></td>
<td>15.00</td>
<td></td>
<td>50.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elliott Truesdale</td>
<td>1</td>
<td></td>
<td>80.00</td>
<td></td>
<td>20.00</td>
<td></td>
<td>60.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R. B. Stewart</td>
<td>1</td>
<td></td>
<td>35.00</td>
<td></td>
<td>9.00</td>
<td></td>
<td>29.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K. C. Threatt</td>
<td>1</td>
<td></td>
<td>45.00</td>
<td></td>
<td>12.00</td>
<td></td>
<td>33.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bennie Davis</td>
<td>1</td>
<td></td>
<td>75.00</td>
<td></td>
<td>25.00</td>
<td></td>
<td>50.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Totals**: 20  
**receipts**: 20  
**$1489.00**  
**$378.00**  
**$111.00**

This summary for the 20 members shows an increase of all 20 animals during the year, and receipts and increases in value of $1489.00 for the 20 members, or an average profit of $55.55 per member, which was $10.02 increase per member from the profit of 1946.
The 20 animals were shown at the Lancaster County Fair, where they competed in opening classes, winning one grand champion, one reserve grand champion, four first places, 12 second places and four third places. Prizes amounted to $50.00.

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

Miscellaneous

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

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

Fair Exhibits

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

<table>
<thead>
<tr>
<th>Exhibit</th>
<th>No. Boys Exhibiting</th>
<th>No. Entries</th>
<th>Placing</th>
<th>Premiums Won</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>$10.00</td>
</tr>
<tr>
<td>Hogs &amp; Pigs</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>12.50</td>
</tr>
<tr>
<td>Dairy Calves</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>65.00</td>
</tr>
<tr>
<td>Hens &amp; Poultry</td>
<td>7</td>
<td>7</td>
<td>6</td>
<td>2.90</td>
</tr>
<tr>
<td>Totals</td>
<td>42</td>
<td>42</td>
<td>41</td>
<td>90.40</td>
</tr>
</tbody>
</table>

**Entomology and Plant Pathology**

Extension work in entomology and plant pathology in 1947 included educational demonstrations with work in prevention and control of boll weevils, livestock insects, garden insects and plant diseases.
Ten farmers used home made dusters in the campaign of controlling and preventing garden insects. Eight demonstrations were conducted on treating oats and wheat. These demonstrations were conducted by a 4-H club demonstration team in the Rich Hill and Heath Springs communities.

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

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

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

Insects and Rodents

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

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

Farm Woodland Management

The result of these records are listed below:

<table>
<thead>
<tr>
<th>Demonstrators</th>
<th>Value of Product Cut</th>
<th>Acreage in Dem.</th>
<th>Use on Farm</th>
<th>Sold</th>
<th>Cost</th>
<th>Profit</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. L. Evans</td>
<td></td>
<td>50</td>
<td>$50.00</td>
<td>$575.00</td>
<td>$120.00</td>
<td>$455.00</td>
</tr>
<tr>
<td>R. M. Blakney</td>
<td></td>
<td>25</td>
<td>45.00</td>
<td>300.00</td>
<td>75.00</td>
<td>175.00</td>
</tr>
<tr>
<td>Mack Barnes</td>
<td></td>
<td>15</td>
<td>40.00</td>
<td>280.00</td>
<td>60.00</td>
<td>180.00</td>
</tr>
<tr>
<td>Totals</td>
<td></td>
<td>90</td>
<td>135.00</td>
<td>1155.00</td>
<td>255.00</td>
<td>810.00</td>
</tr>
</tbody>
</table>
It is planned to continue keeping records on these demonstrations, so that other farmers of the county can learn the value of woodland management for the purpose of thinning, selective cutting and fire prevention over the county. The 4-H Club and other organizations in the county were given educational material on fire prevention this year. Each of the three farmers that carried the demonstrations were assisted by their's which are 4-H clubsters of their communities.

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

<table>
<thead>
<tr>
<th>Name of Club</th>
<th>No. Enrolled</th>
<th>No. Completing</th>
<th>Per Centage Completing Demonstrations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riverside</td>
<td>26</td>
<td>16</td>
<td>62</td>
</tr>
<tr>
<td>Rich Hill</td>
<td>23</td>
<td>15</td>
<td>65</td>
</tr>
<tr>
<td>Three Fork</td>
<td>15</td>
<td>12</td>
<td>80</td>
</tr>
<tr>
<td>Van Wyck</td>
<td>21</td>
<td>18</td>
<td>85</td>
</tr>
<tr>
<td>Springdale</td>
<td>17</td>
<td>13</td>
<td>77</td>
</tr>
<tr>
<td>Elgin</td>
<td>13</td>
<td>12</td>
<td>93</td>
</tr>
<tr>
<td>Steel Hill</td>
<td>25</td>
<td>20</td>
<td>80</td>
</tr>
<tr>
<td>Heath Springs</td>
<td>27</td>
<td>14</td>
<td>52</td>
</tr>
<tr>
<td>Pleasant Hill</td>
<td>11</td>
<td>8</td>
<td>73</td>
</tr>
<tr>
<td>Rose Hill</td>
<td>16</td>
<td>13</td>
<td>82</td>
</tr>
<tr>
<td>Dixie</td>
<td>23</td>
<td>16</td>
<td>69</td>
</tr>
<tr>
<td>Mt. Carmel</td>
<td>18</td>
<td>12</td>
<td>67</td>
</tr>
<tr>
<td>St. Paul</td>
<td>12</td>
<td>10</td>
<td>64</td>
</tr>
<tr>
<td>Totals</td>
<td>247</td>
<td>179</td>
<td>969</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Demonstration</th>
<th>No. Completed</th>
<th>Value of Production</th>
<th>Cost</th>
<th>Profit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>47</td>
<td>$2,293.00</td>
<td>$789.00</td>
<td>$1,504.00</td>
</tr>
<tr>
<td>Poultry</td>
<td>22</td>
<td>1,247.00</td>
<td>638.00</td>
<td>609.00</td>
</tr>
<tr>
<td>Pig (F)</td>
<td>31</td>
<td>1,278.00</td>
<td>387.00</td>
<td>891.00</td>
</tr>
<tr>
<td>Calf (D)</td>
<td>50</td>
<td>4,272.00</td>
<td>1631.00</td>
<td>2,641.00</td>
</tr>
<tr>
<td>S. Potatoes</td>
<td>15</td>
<td>711.00</td>
<td>250.00</td>
<td>461.00</td>
</tr>
<tr>
<td>Oats</td>
<td>14</td>
<td>668.00</td>
<td>294.00</td>
<td>374.00</td>
</tr>
<tr>
<td>Totals</td>
<td>179</td>
<td>10,469.30</td>
<td>3989.30</td>
<td>6,480.00</td>
</tr>
</tbody>
</table>
A complete summary of records in 4-H Club work has been submitted to the District Agent's office for the State 4-H Club Agent.

**Four-H Club Achievement Day**

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

**Four-H Club Leader Training Meetings**

Two leader training meetings were held during 1947.

**Four-H Club Camp**

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

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

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

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

Three home garden demonstrations were conducted during the year.

Summary of Home Garden Demonstrations

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mrs. E. Blackmon</td>
<td>4A</td>
<td>20</td>
<td>10</td>
<td>695</td>
<td>197</td>
<td>$23.80</td>
</tr>
<tr>
<td>Mrs. J. Neely</td>
<td>3A</td>
<td>31</td>
<td>12</td>
<td>735</td>
<td>2355</td>
<td>23.60</td>
</tr>
<tr>
<td>Mrs. R. B. Price</td>
<td>5A</td>
<td>25</td>
<td>11</td>
<td>625</td>
<td>187</td>
<td>27.85</td>
</tr>
<tr>
<td>Totals</td>
<td>12A</td>
<td>76Av.</td>
<td>11</td>
<td>2055</td>
<td>587</td>
<td>80.75</td>
</tr>
</tbody>
</table>

Sweet Potatoes

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

Summary of Hot Beds Demonstrations

<table>
<thead>
<tr>
<th>Name</th>
<th>Size of Bed</th>
<th>Bu. Date</th>
<th>First Drawn</th>
<th>No. Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. Lindsay</td>
<td>10' x 28'</td>
<td>14</td>
<td>3/25</td>
<td>6/1</td>
</tr>
<tr>
<td>E. Morrison</td>
<td>10' x 32'</td>
<td>14</td>
<td>3/20</td>
<td>5/29</td>
</tr>
<tr>
<td>R. Brown</td>
<td>10' x 30'</td>
<td>14</td>
<td>3/18</td>
<td>5/27</td>
</tr>
<tr>
<td>Totals</td>
<td></td>
<td></td>
<td></td>
<td>102,000</td>
</tr>
</tbody>
</table>

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

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

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

Marketing

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

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

Summary of Marketing Work, 1947

<table>
<thead>
<tr>
<th>Products</th>
<th>Quantity</th>
<th>Bought</th>
<th>Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hogs</td>
<td>200 head</td>
<td>$2,777.00</td>
<td>$3,038.50</td>
</tr>
<tr>
<td>Sweet Potatoes</td>
<td>325 bu.</td>
<td>497.00</td>
<td></td>
</tr>
<tr>
<td>Dairy Cattle</td>
<td>20 head</td>
<td>2,007.00</td>
<td></td>
</tr>
<tr>
<td>Fruit trees</td>
<td>375</td>
<td>100.00</td>
<td></td>
</tr>
<tr>
<td>Lespedeza</td>
<td>3000 lbs.</td>
<td>200.00</td>
<td></td>
</tr>
<tr>
<td>Wheat</td>
<td>100 bu.</td>
<td>192.00</td>
<td></td>
</tr>
<tr>
<td>Seed Oats</td>
<td>400 bu.</td>
<td>257.00</td>
<td></td>
</tr>
<tr>
<td>Cotton Seed</td>
<td>200 bu.</td>
<td>225.00</td>
<td></td>
</tr>
<tr>
<td>Cane Syrup</td>
<td>325 gal.</td>
<td>252.00</td>
<td></td>
</tr>
</tbody>
</table>

Total 3,333.00 3,762.00

Total value products bought and sold $7,009.00

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

Poultry

Extension work with poultry projects in Lancaster County consisted of turkey demonstrations, vaccination demonstrations and grow healthy chick demonstration.
The four farmers kept enough pullets to produce some layers for home use.

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

### Summary of Turkey Demonstration Records

<table>
<thead>
<tr>
<th>Name</th>
<th>Poults</th>
<th>Income</th>
<th>Cost</th>
<th>Labor</th>
<th>Labor Inc. Per Poul</th>
<th>Per Poul</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. W. Cauthen</td>
<td>250</td>
<td>1125.00</td>
<td>390.00</td>
<td>735.00</td>
<td>1.50</td>
<td></td>
</tr>
<tr>
<td>S. D. Threatt</td>
<td>125</td>
<td>690.00</td>
<td>300.00</td>
<td>435.00</td>
<td>1.41</td>
<td></td>
</tr>
<tr>
<td>T. B. Blakney</td>
<td>115</td>
<td>285.00</td>
<td>120.40</td>
<td>164.60</td>
<td>1.45</td>
<td></td>
</tr>
<tr>
<td>Average Labor Income per Poul</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.46</td>
<td></td>
</tr>
</tbody>
</table>

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

### Visual Instruction

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

**Educational Motion Pictures:** These were used at three farmers and 4-H club meetings and two nights at the county fair with a combined attendance of 375 people.
Photographs: Photographs were made of eight different 4-H club demonstrations in the county in 1947 and ten different demonstrations conducted by adults.

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

Summary of Use of Visual Instruction Aids

<table>
<thead>
<tr>
<th>Visual Aid Used</th>
<th>No. Meetings</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motion pictures</td>
<td>6</td>
<td>375</td>
</tr>
<tr>
<td>Photographs</td>
<td>10</td>
<td>100</td>
</tr>
<tr>
<td>Charts and Maps</td>
<td>15</td>
<td>280</td>
</tr>
<tr>
<td>Totals</td>
<td>31</td>
<td>755</td>
</tr>
</tbody>
</table>

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

Food & Feed Production Program

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

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

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

All farmers in the county were encouraged to increase their food and feed production crops.
List of Farm Crops Increased in 1947

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

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

The Program for Returning Veterans and War Workers

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

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

Publicity

Publicity work and the distribution of educational information in connection with the 1947 extension program in Lancaster County was done through circular letters, press articles, the distribution of bulletins and farm tours. A summary of this work done in this connection is given as follows:
Circular Letters: A total of three circular letters were prepared 450 copies mailed to farmers and 4-H clubsters in Lancaster County in 1947.

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

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

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