

# Planning 4-H Projects To Fit the Needs of Rural Youth



- A. General Outline for Planning 4-H Club Work
- B. The 4-H Meeting
- C. 4-H Project Activity
- D. Outlines for 4-H Projects



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## PLANNING FOR THE NEEDS OF RURAL YOUTH THROUGH 4-H CLUB WORK

He who shapes the hands of youth to the tasks of today molds the caliber of our citizenship of tomorrow. Through learning to cope with life's situations today, youth is trained to perform the duties of tomorrow. In meeting the challenge of today, rural youth needs the guidance of adults, with a sympathetic understanding of their problems—adults with experience and vision to guide them in doing the things that need to be done.

The 4-H Club, if properly organized and conducted, provides the opportunity for giving youth the organization and the guidance needed to best solve their problems and, to the Extension worker, a way to provide for the needs of young people and to further strengthen the Agricultural Extension program in the county—a privilege few people enjoy—an obligation equal in importance to that of any undertaking in life.

This leaflet is intended to give Extension agents a clear picture of the 4-H program, its function in the county and in the community to the further end that each county will have a program of 4-H Club work that will best serve its function in the community and county. Due credit is given to all members of the Extension organization for the material used in this publication.

L. R. HARRILL,  
*State 4-H Club Leader.*



**OUTLINE FOR PLANNING 4-H CLUB WORK**

The 4-H Program demands the activity and responsibility of all Extension workers and to be successful must be set up on the basis of the needs of young people. At no time in history has youth faced more challenging problems. To evolve a 4-H program to help youth more effectively to solve these problems will require the combined thinking, planning, and activity of youth and all Extension workers. There will be a need for a broad, county plan to cover all the activities to be done in 4-H Club work, such as time to be devoted, goals to be accomplished, schedule of meetings, a month by month program plan, training of leaders, an older youth program, post war adjustments, and other activities as indicated in the following outline.

**Objective:**

A 4-H ORGANIZATION IN EACH COUNTY THAT WILL GIVE EVERY RURAL BOY AND GIRL AN OPPORTUNITY TO MAKE THE GREATEST CONTRIBUTION POSSIBLE TO THE WAR EFFORT AND TO SECURITY IN THE POST WAR PERIOD.

1. PLACE SPECIAL EMPHASIS ON THE 4-H CLUB AND THE MONTHLY MEETINGS
  - (a) Make a definite plan for the year. Acquaint the county Superintendent, school principals, and teachers with the program and arrange with them for a definite time and place for meetings.
  - (2) The type of club meeting is usually the basis for determining the effectiveness of the club program in the county and should be one determined on the basis of the need of the club members and one which will provide for participation on the part of the greatest number of people. Every club should have its duly elected officers trained in the responsibilities of their respective jobs.
  - (3) More emphasis should be placed on training demonstration teams. At least one team for each club should be trained. One of the most effective ways of having a club program and at the same time developing the club member is through these demonstrations.
  - (d) Plans should be made for agents to give educational demonstrations at the 4-H Club meetings.
2. The 4-H County Council should be organized and made to function: to give training in parliamentary procedure; to plan for special activities of the club, including the club program; and to give training conducive to the development of leadership.
3. Further develop the spiritual side of living by:
  - (a) 4-H Church Sundays.
  - (b) County-wide Vesper Programs.
4. Provide for the Recreational needs of the 4-H members.
  - (a) Plan and conduct a good 4-H camp. Permit only bona fide members to participate in the camp program.
  - (b) Plan a program of recreation for the county, particularly in the very rural areas. Family recreation should be emphasized. Perhaps we need to go back to enjoying simple things like candy pulling,



and pop corn popping. Making of home-made games should be encouraged. Two of the most interesting things to young people are hiking and cooking outdoors—encourage these activities.

5. Stress Health Improvement work on the part of all club members.
6. **PLAN PROJECT ACTIVITY TO FIT NEED OF MEMBERS AND TO STRENGTHEN THE EXTENSION PROGRAM IN THE COUNTY.** Club work was established on the basis of project activity. Through it the member will learn better methods and approved practices and find pride in ownership.
  - (a) Secure enrollment early.
  - (b) Guide members in the selection of project suited to their needs.
  - (c) Plan for an increase in food production and conservation.
  - (d) Furnish members with the correct information at the proper time.
  - (e) Use prizes and awards in a constructive way.
  - (f) Work for completion of more records.

Too much emphasis cannot be placed on the importance of completing the 4-H program of work and securing complete records of all 4-H projects and activities for each county. Each old member should feel a satisfaction of work well done and each member should have a high respect for the 4-H Club as an organization. This can only be attained when club members are expected to complete and turn in their records as requested.

7. Plans should be made for securing full cooperation of the parents of Club members.

This may be secured by: home visits, occasional letters, visits to parents or neighborhood leaders, and group meetings in the home of the parents.

8. **PROVISION SHOULD BE MADE FOR SELECTING AND TRAINING NEIGHBORHOOD 4-H LEADERS TO BE USED IN:** securing new members, making home visits, the interpretation of information, and in holding group or community meetings.
9. Encourage community cooperation through community projects.
10. Keep a complete permanent record file of 4-H Club members.

In each county office there should be a complete record for each club member. Agents should use the permanent record card for his file.

11. Hold 4-H Achievement Day.

To recognize outstanding accomplishments of club members some type of achievement program should be held. In addition to the County Achievement Program at least one local club meeting of each club should be devoted to an Achievement Day Program.

### THE 4-H CLUB PROGRAM

For the club member to receive the greatest benefit from the club program, the member should be given as prominent a place as possible in the planning and development of the program. The agent, with the help of the club members and leaders, should ascertain the needs of the clubs in the county and plan the program accordingly. There will be many things to be considered in planning this program. Because of the peculiar needs of the several counties, the program will naturally vary, but it should be kept definitely in mind that the program should be planned in cooperation with the county superintendent, the school principal, and all others who are to have a part in the program so that they will know the general outline for the year and share in the promotion of the program.

Enthusiasm is needed. It is catching but it can't be caught where it isn't. The Extension leader must believe in the job he is doing. He must believe in 4-H Club work and the opportunity it affords the boys and the girls. In other words, the Extension worker is responsible for the enthusiasm of the Neighborhood Leader and the 4-H members. A fine way to give enthusiasm is to share the planning. Club members enjoy helping to plan the program, helping to do things, helping to make things. The 4-H Leader or the 4-H Club worker who fails to realize this is missing a real opportunity and at the same time is standing in the way of the further development of the young people in the club. The director of our greatest plays takes his place backstage; the director of the football team is on the bench; the leadership of our armies in the conquest for victory is behind the battle line rather than in front of the battle line. Therefore, if 4-H Club work is to serve its greatest good in the development of leadership of our young people, it must provide the medium for them to express themselves, to have a part in the planning, in the directing and in the actual work of the 4-H Club.

### 4-H PROJECT ACTIVITY

4-H Club work was established on the basis of project activity. It is still the basis of any worthwhile program of club work. Through the project, the club member should learn better methods and approved practices. In it he should find the pride of ownership and, if properly conducted, a reasonable profit. The success of the club member in this respect will be largely determined by his interest, his attention to details, and his willingness to follow the suggestions of the Extension agent in conducting and completing the project.

One of the purposes for this publication is to give the Extension agent the necessary information relative to the requirements for completing the projects offered in 4-H Club work. It represents the best thought and the latest information on the part of the various subject matter specialists. It is designed primarily to give the Extension agent a clear picture of the major projects offered in 4-H Club work, with the hope that this information will enable the agent to guide the 4-H members in the selection of projects suited to their needs and within their ability to do.

In making out this outline it is not intended to work a hardship on any individual member or to make it impossible for some boy or girl to be a 4-H Club member, but rather to establish a standard which will make club work more valuable for every club member. The local leader and the Extension workers must keep in mind that the training of the club member is of paramount importance and in order for the member to obtain the most good from his club project the project should meet the following standards:

1. It should be something the club member is interested in.
2. It should be big enough to attract and hold the interest and attention of the club member.
3. It must offer a financial return or its equivalent which will justify the time and effort of the club member.
4. It should be worthy of the time and supervision of the local leader and extension worker who supervise it.

### CORN PRODUCTION PROJECT

This Corn Project is planned for the club member who is interested in producing corn economically on the farm. Yields of 50 to 100 bushels can be obtained on most farms through following proper practices. This has been demonstrated by 4-H club boys and girls and shows that it would be possible to raise our State average much above the yields of around 20 bushels at present.

#### Purpose:

1. To teach the club member the basic facts of economic corn production on the farm.
2. To assist in demonstrating the value of hybrid corn.
3. To increase the feed supply on the farm.
4. To show that reasonable corn yields can be obtained which are much above the State average.

#### Requirements:

1. Pick out one or more acres, measure the land, and put up stakes to mark the field.
2. Obtain hybrid seed from the source and of the kind recommended by your farm agent.
3. Prepare the seed bed, fertilize, cultivate, and manage the crop according to the methods recommended.
4. Harvest the crop and determine the yield per acre.
5. Figure the cost per bushel and the profit or loss per acre.
6. Keep an accurate record of all labor and materials. Send the records to the Farm Agent.

#### Information Material Available:

1. Corn Club Manual for 4-H Club Members.



**Suggested Score Card for Making Awards:**

|  | <b>Points</b> |
|--|---------------|
| 1. Plant one or more acres of corn with hybrid seed from the source and of the kind recommended by the farm agent.....                         | 10            |
| 2. Select the land, prepare the seed bed, fertilize and cultivate the crop according to the methods recommended by the Extension Service ..... | 30            |
| 3. Harvest the crop and determine the yield per acre (15 points), the cost per bushel and the profit or loss per acre (15 points) ..           | 30            |
| 4. Select an exhibit of ten ears, and exhibit if practical at either a club, community, county or state fair.....                              | 10            |
| 5. Keep a record of all materials used in carrying out the project and submit it to your farm agent.....                                       | 20            |

**THE 4-H COTTON CLUB PROJECT****Purpose:**

The need for the better grades of cotton stapling one inch or longer to meet military requirements is increasing, but the high cost and scarcity of labor will reduce the cotton acreage below the required goal. The oil from the cotton seed will aid in reaching the oil goal which is badly needed in the war effort, and the cotton seed meal will be available for feed.

This project is particularly suitable as all operations and harvesting can be done by a 4-H Club boy, 14 years old or older. From the financial standpoint, one bale of quality cotton per acre is worth from \$110.00 to \$125.00. The seed will give a further return of \$12.00 to \$18.00 above the cost of ginning which will cover the cost of fertilizer and seed.

| <b>Requirements for Completion and Basis of Award</b>   | <b>Points</b> |
|---|---------------|
| 1. Plant one or more acres of cotton (sufficient to produce one bale of cotton) of Coker 100 or Coker 100 wilt seed from approved source .....  | 25            |
| 2. Select land, prepare seed bed, fertilize, and cultivate according to methods recommended by the Extension service.....   | 15            |
| 3. Harvest the crop and determine the yield and the total income from the project .....   | 15            |
| 4. Have an official class on your cotton as outlined under 17 under procedure .....   | 20            |
| 5. Show that you have not sold your cotton below the government loan value by showing in your record book the loan value and the sale value. The loan value is the price quotation on the class card which is returned from Raleigh ..... | 15            |
| 6. Keep a record book showing all material used, together with information required above and submit it to the farm agent on the date designated .....  | 10            |

**List of Available Material**

Extension Circular No. 258, "Cotton Growing in North Carolina."  
 Material on One Variety Cotton Improvement Program.  
 Cotton Classing and Market News Service for organized groups of growers.

**TOBACCO GROWING PROJECT**

**Purpose:**

1. To teach the basic facts of economic tobacco production.
2. To improve the quality with a lower cost of production.
3. To show the value of recommended practices.
4. To try the best methods of fertilization and cultivation.
5. To learn the proper methods of seed selection.
6. To encourage the selection and exhibiting at fairs.

**Requirements:**

1. Plant one or more acres of tobacco with seed from the source and of the variety recommended by the farm agent.
2. Select the land, prepare the seed bed, fertilize and cultivate the crop according to the methods recommended by the Extension Service.
3. Select seed in the field for next year's planting.
4. Harvest the crop and determine the yield per acre, the cost per pound and the profit or loss made on the acreage.
5. Select an exhibit of tobacco according to specifications and exhibit at either a club, community, county or State Fair.
6. Keep a record of all labor and material used in carrying out the project and submit it to the farm agent on the date designated.

**Information Material Available:**

Record Book and Instructions for 4-H Tobacco Club Members. Revised Club Series No. 11.

| <b>Suggested Score Card for Making Awards</b> | <b>Points</b> |
|---|---------------|
| Yield per acre .....                          | 25            |
| Profit above cost of production .....         | 25            |
| Field selecting of seed .....                 | 10            |
| Selection and showing an exhibit .....        | 10            |
| Record as shown by record book .....          | 30            |

## SWEET POTATO PRODUCTION, HANDLING, AND MARKETING PROJECT

The sweet potato production, handling and marketing project is offered to the club boy or girl who is interested in placing a better quality product on the market and thereby securing a premium in price because of the improved practices carried out.

### **Purpose:**

The average yield per acre of high quality sweet potatoes is very low in North Carolina. The purpose of this 4-H project is to teach methods of production that will result in increased yields of high quality marketable sweet potatoes.

### **Requirements:**

1. Select certified seed stock of Porto Rico or Nancy Hall.
2. Select and prepare plant bed, hotbed, or coldframe.
3. Thoroughly prepare seed bed.
4. Arrange to obtain 300 to 500 pounds of a 3-9-9 fertilizer.
5. Properly transplant to the field.
6. Cultivate thoroughly.
7. Carefully harvest and store.
8. Arrange for Exhibit.
9. Keep accurate records on producing and marketing the crop.

### **Materials Needed:**

One-half acre of land. One-half acre measures approximately 218 feet by 100 feet.

Two and one-half bushels of medium sized certified seed potatoes will produce enough plants for one-half acre; or 6,250 plants (certified) if planted 12 inches apart in rows which are 3½ feet apart.

Fertilizer—300 to 500 pounds of a fertilizer analyzing 3-9-9.

### **Information Material Available:**

Extension Club Series No. 20, "Sweet Potato Manual for 4-H Club Members."

Extension Circular No. 250, "Improved Practices for Growing Sweet Potatoes."

Extension Misc. Pamphlet No. 79, "Sweet Potatoes—How to Use Them."

U.S.D.A. Farmers' Bulletin No. 999, "Sweet Potato Growing."



| Suggested Score Card for Making Awards:                              | Points |
|--|--------|
| Use of Certified seed stock properly treated .....                   | 10     |
| Proper cultural methods (spacing, width of rows and height of ridge) | 5      |
| Use of recommended fertilizer analysis .....                         | 5      |
| Following harvesting recommendations .....                           | 5      |
| Proper curing and storing .....                                      | 15     |
| Proper grading .....   | 15     |
| Proper packing in clean bushel baskets or crates .....               | 15     |
| Uniformity of size, shape and color .....                            | 15     |
| Free of field and storage diseases .....                             | 15     |

### IRISH POTATO PRODUCTION, HANDLING, AND MARKETING PROJECT

**Purpose:**

The 4-H Club members, through this project, learn how to grow a good crop of Irish potatoes, using good seed and good cultural practices. They will learn to recognize and control insects and diseases. They receive practice in harvesting, grading, and storing potatoes and preparing exhibits.

**Requirements:**

1. The 4-H Club member should plant seven bushels of certified seed. This will plant about one-half an acre. Varieties—Cobbler, Green Mountain, Sequoia, or Red Warba. The Cobbler and Red Warba only for Eastern Carolina.
2. Follow the recommended cultural practices.
3. Control insects and diseases by spraying or dusting.
4. Keep record of yield and cost of production, using the crop production record form. Write a story of the project.
5. Grade or size the potatoes according to U. S. market grades when the potatoes are sold.
6. Store potatoes properly when saved for table use, for seed or for sale in the future.
7. Make an exhibit when there is an opportunity to show products grown by 4-H Club members.

**Preparation of Land:**

Prepare the land thoroughly and make the furrows for planting seed three feet apart. Mix thoroughly with the soil five bags (1000 lbs.) of 5-7-5 grade fertilizer for the one-half acre for Eastern Carolina and in Western Carolina use 3 bags (600 lbs.) of the same grade.

| <b>Suggested Score Card for Making Awards:</b> | <b>Points</b> |
|--|---------------|
| Use of Certified seed and seed treatment ..... | 10            |
| Following culture recommendations .....        | 20            |
| Control of insects and blight disease .....    | 20            |
| Proper grading for market .....                | 15            |
| Proper storage when potatoes are saved .....   | 10            |
| Neatly kept record of project .....            | 15            |
| Story of project .....                         | 10            |

**Information Material Available:**

Extension Circular No. 204, "Irish Potato Manual for 4-H Club Members."

Extension Bulletin War Series No. 13, "Vegetable Insect Control Guide."

Extension Circular No. 265, "A Guide for Controlling Diseases in the Vegetable Garden."

### 4-H GARDEN PROJECT

**Purpose:**

1. A garden properly tended will provide a wider variety of food and cut down the cost of living for the family.
2. The boy or girl will become acquainted with the different kinds of vegetables, the different habits of growth of each vegetable, soil and fertilizer requirements, and kinds of insects and diseases attacking them and their control.
3. A well-tended garden is a good training ground for a future farm occupation of growing vegetables for sale.
4. A vegetable garden teaches the boy or girl the importance of vegetables in the human diet and its relation to health.

**Requirements:**

1. To plant, cultivate, and harvest six or more vegetables.
2. These vegetables must include one or more green vegetables, one or more yellow vegetables, and one or more dried peas and beans and tomatoes.
3. The rows of each vegetable must not be less than 25 ft. long or must be equal to this length if planted in several shorter rows.
4. The 4-H Club member must also keep and turn in by the proper time the record sheet on vegetable gardening.

**Information Material Available:**

1. Animated vegetable charts to use in joint meetings.
2. Mimeographed sheet outlining demonstration on seed box preparation and planting.
3. The 4-H Garden project book.

| <b>Suggested Score Card:</b>               | <b>Points</b> |
|--|---------------|
| Yield .....                                | 40            |
| Cost of production and profit .....        | 25            |
| Record sheet filled out complete .....     | 15            |
| Story of garden activities .....           | 10            |
| Insect and disease control in garden ..... | 10            |

**HOME BEAUTIFICATION PROJECT**

**Purpose:**

1. To gain a knowledge of plant materials and their artistic uses.
2. To learn how to correctly plant and care for native and other flowers, shrubs and trees.
3. To make their home surroundings more attractive and to develop a feeling of pride and joy in their homes.
4. To utilize grass, shrub, and tree plantings to control soil erosion.
5. To develop happy family relationships through working with the other members of the family in beautifying the farmstead.
6. To appreciate the natural beauties of their own environment in the open country.

**Requirements:**

1. To keep and turn in record books.
2. To score at least 80 points (maximum points 130) from the following activities, each activity counting 10 points: Clean up home grounds, decorate Christmas tree, paint one out-building, improve lawn, improve or rearrange walk and drive, transplant and make live five shrubs and two trees, rearrange planting, improve mail box, propagate ten shrubs or trees, identify ten new shrubs or trees, pruning of plants, growing flowers, planning your improvements on paper.

**Informational Material Available:**

1. Home Beautification Manual and Record Book.
2. Mimeographed leaflet on majority of the above activities.

| <b>Score Card:</b>  | <b>Points</b> |
|---|---------------|
| 1. General improvements made in beautifying the home grounds (shown by before and after snapshots or photos) .....  | 30            |
| 2. Scaled drawing showing improvements that have and will be made .....   | 25            |
| 3. General record of club member. This should show participation of club member in club and county activities, as well as other individual projects ..... | 20            |
| 4. General improvements shown by photos and drawings harmonious with principles of good landscape design .....  | 15            |
| 5. Story giving experience of the 4-H member in home ground beautification and the benefits derived .....   | 10            |



**4-H BABY BEEF PROJECT**

The Baby Beef Project is planned for the club boy or girl who is interested in producing quality beef and learning the principals of feeding and managing beef cattle. This project offers a good opportunity for profits if recommended feeding and management practices are carried out. A club member should not start a calf on feed unless enough home grown feed is available to finish the job.

**Purpose:**

1. To teach the club member judging, feeding, care and management of beef cattle.
2. It is a valuable forerunner to the successful handling of a breeding herd.
3. It offers a good opportunity for profits if recommended practices are followed.
4. It is patriotic to produce quality beef now.

**Requirements:**

1. The club member must own, feed, care for, show and market one or more steers of beef breeding.
2. The calves must be fed under the supervision of the county agent.

**Informational Material Available:**

1. Extension Circular No. 48, "Baby Beef Production to Meet Wartime Needs."
2. Extension Bulletin No. 268, "Raising Beef Cattle in North Carolina."
3. Extension Food Production Series No. 9, "Temporary Grazing Crops for Beef Cattle."

**Suggested Score Card:**

|  | <b>Points</b> |
|--|---------------|
| 1. Home county raised calf .....   | 5             |
| 2. Following county agent's instructions on feeding and management practices ..... | 15            |
| 3. Economy of gains .....  | 20            |
| 4. Obtaining desired finish .....  | 5             |
| 5. Interest in project and other club activities .....                             | 15            |
| 6. Show Record .....   | 10            |
| 7. Fitting and showmanship .....   | 10            |
| 8. Behavior at show .....  | 10            |
| 9. Record Book .....   | 10            |

**4-H DAIRY CALF PROJECT**

With a growing interest in dairying, accompanied by a strong demand for good dairy cattle and dairy products in North Carolina, the 4-H Club boy and girl should prepare to share in the returns from such demands. Dairying in addition to providing a good supplement for cash crops, improves soils and aids in preventing erosion.

**Purpose:**

1. To encourage an interest in dairying among farm boys and girls.
2. To promote the breeding of better dairy cattle on the farms of North Carolina.
3. To demonstrate proper methods in feeding, management, fitting and showing of dairy cattle.
4. To teach correct methods of keeping farm records, especially as they relate to dairy cattle.

**Requirements:**

1. Own one or more purebred dairy animals which are to be registered in the name of the Club member.
2. Feed and care for animals or animal according to directions of local Club leader.
3. Keep an accurate record of the cost of raising each animal, also on the production of milk. Write a story on each year's work. Both are to be recorded in a record book provided by the County Agent.
4. Fit and exhibit one or more animals at a county district or State Fair.
5. Breed heifers to sires approved by County Agent.

**Informational Material Available:**

1. North Carolina Club series No. 12, "A 4-H Dairy Calf Club Manual."
2. North Carolina Extension Circular 177, "Raising Dairy Calves to Breeding Age."
3. North Carolina Circular 193, "Feed and Care of Dairy Cows."
4. 16 MM sound film in color—"Carolina Cows."

**Suggested Score Card for Calf Project:**

**Points**

- |  |    |
|--|----|
| 1. Care of Animal as indicated by condition and handling qualities | 50 |
| 2. Record Book—Including Cost Records and Story                    | 20 |
| 3. Interest in Project   | 15 |
| 4. Fitting and Showing   | 15 |

### 4-H PIG CLUB PROJECT

#### Purpose:

The 4-H Pig Club Project offers boys and girls an opportunity to produce thrifty pigs of weaning age for sale or to produce pork economically for home use or for market. Either the Brood Sow Project or the Pig Project can be profitable to the club member if recommended practices are followed. Sufficient pasture and home grown feed must be available if the project is to be a success.

#### Requirements: (either of the following)

1. **Brood Sow Project**—Select a good gilt, grow her properly, breed her to a purebred boar and produce thrifty pigs for sale or for feeding to top market weights.
2. **Pig Project**—Select one or more thrifty pigs at weaning age and properly feed them until finished for home use, or for market at 200 to 225 pounds each.

#### Informational Material Available:

1. Extension Food Production Animal Husbandry Series No. 6 Revised, "Pork Production Suggestions."
2. Extension Circular No. 238, "Raising Hogs in North Carolina."
3. Extension Self Feeder Blue Print No. 217.
4. Extension Blue Prints No. 13 and 5271.

#### Suggested Score Card for Making Awards:

|   | Points |
|---|--------|
| 1. Selection of thrifty pigs of good breeding .....           | 10     |
| 2. Following county agent's recommendations of management.... | 30     |
| 3. Economy of gains, or feed cost per pig .....               | 30     |
| 4. Interest in project and other club activities.....         | 10     |
| 5. Record Book .....  | 20     |

### FLOCK MANAGEMENT

This project begins October 1 of each year or earlier if the pullets have started to lay and continues for twelve months.

#### Purpose:

To teach club members how to feed, cull, care for and manage a flock of layers for egg production.

#### Requirements:

1. To care for, feed, cull, and manage the present home flock of layers or to own a laying flock of 40 birds or more and to feed, cull, care for and manage these as recommended by the Extension Service.
2. To keep an accurate, neat and up-to-date record of the amount and value of all feed eaten by the flock and the number and value of all eggs produced by the flock. Value both feed and eggs at market price.
3. Keep records in adult or 4-H Record Book.



**Informational Material Available:**

1. Extension Circular No. 158, "Feeding for Egg Production."
2. Extension Circular No. 156, "How to Cull Poultry Flocks."
3. Extension Circular No. 239, "Grazing Crops for Poultry."
4. Extension Circular No. 241, "Use of Disinfectants in Poultry Productions."
5. Record Book (either 4-H or adult).

**Supplementary Material Available:**

1. Extension Circular No. 154, "Common Diseases of Poultry."
2. Extension Circular No. 150, "Common Parasites of Poultry."
3. Extension War Series Bulletin No. 1, "Wartime Poultry Feeding."
4. Mimeographed Leaflet, "How to Produce, Care for, and Market Quality Eggs."

**Blueprints:**

- No. 127, "Laying House for 100 Birds."  
 Extension Folder No. 43, "The Egg Cooler."

| <b>Suggested Score Card for Making Awards:</b>  | <b>Points</b> |
|---|---------------|
| Records .....   | 20            |
| (Complete for 12 months award 12 points)  |               |
| (Accuracy                      award 8 points)  |               |
| (Neatness                      award 4 points)  |               |
| Average egg production a bird .....   | 20            |
| (For 180 eggs award 20 points; 170—15 points;<br>160—10 points; 150— 5 points)  |               |
| Return above feed cost (per bird) .....   | 20            |
| (For \$2.50 award 20 points; \$2.00—15 points;<br>\$1.50—10 points; \$1.00— 5 points)   |               |
| Mortality rate .....  | 15            |
| (If 10% or less die, award 15 points; 15%—10 points;<br>20%—5 points, etc.)   |               |
| Management practices .....  | 20            |
| (Regular and adequate feeding and watering—10 points;<br>keeping house and equipment clean—5 points; regular<br>culling and parasite control—5 points.) |               |
| Size of flock .....   | 5             |
| (For 40 birds award 3 points; 70 birds—4 points;<br>100 or more—5 points)   |               |

### EGG CARE, GRADING AND MARKET PROJECT

The Egg Care, Grading and Marketing Project is planned for the club boy or girl who is interested in placing a superior product on the market and thereby securing a premium in price because of the extra care given in handling and grading of the product. This project extends over a six months period and may be started any time during the year. The project should not be started unless there is an average of three dozen eggs or more produced on the farm per day and a market available for graded eggs or the possibility of developing such a market.

#### Purpose:

1. To teach the club member how to preserve egg quality by:
  - a. Proper production methods on the farm.
  - b. Proper care and handling of eggs on the farm.
2. To teach the proper methods of candling, grading, and packaging eggs in order to market the highest quality eggs.

#### Requirements:

1. To produce quality eggs.
2. To handle eggs properly to preserve quality.
3. To candle eggs to determine interior quality.
4. To separate eggs into standard grades.
5. To pack eggs in cartons or cases, large end up.
6. To market eggs twice a week.

#### Informational Material Available:

1. Extension Folder No. 43, "The Egg Cooler."
2. Extension Folder No. 53, "Producing, Handling, and Marketing Quality Eggs."
3. Mimeographed Leaflet, "Produce, Candle, Grade and Market Quality Eggs."

#### Suggested Score Card for Making Awards: Points

|  |    |
|--|----|
| Proper feeding of flock .....  | 10 |
| Producing clean eggs .....   | 10 |
| Cooling eggs quickly .....   | 10 |
| Using proper room for storing.....                                   | 5  |
| Candling eggs .....  | 15 |
| Removing bad eggs (blood spots, bloody whites, cracked eggs, etc.).. | 15 |
| Proper grading either for wholesale or retail trade.....             | 15 |
| Proper packing in clean cartons or cases.....                        | 10 |
| Marketing twice weekly .....   | 10 |

(If once a week—5 points; if less than once a week—0)

### HEAVY BROILER OR FRYER PROJECT

The Heavy Broiler or Fryer Project is usually started and completed before hot weather. It extends for 90 days.

**Purpose:**

To teach club members through practical experience how to economically raise a 2¾ pound chicken, and to interest more boys and girls in poultry work.

**Requirements:**

1. To secure the use of suitable equipment.
2. To purchase or hatch 100 or more heavy breed chicks (chicks or eggs should be of pullorum controlled or higher grade).
3. To follow instructions in the Broiler Manual, keep a record, and make two reports on the project on cards furnished in the back of Broiler Manual.

**Informational Material Available:**

1. Broiler Production Manual and Record Book, Miscellaneous Pamphlet No. 13.

**Supplementary Material Available:**

1. Extension Folder No. 36, "A Homemade Brick Brooder."
2. Extension Circular No. 154, "Common Diseases of Poultry."
3. Extension Circular No. 241, "The Use of Disinfectants in Poultry Production."
4. Extension Circular No. 251, "Chick Raising."
5. War Series Extension Bulletin No. 1, "Wartime Poultry Feeding."
6. Mimeographed Circular, "Homemade Electric Brooders."

**Blueprints:**

A Portable Brooder House No. 63 Lamp Brooder No. 46

| Suggested Score Card for Selecting Winners:   | Points |
|---|--------|
| Return above cost of production (per bird) .....  | 20     |
| If return is 20c = 20 points; 18c = 18 points;<br>12c = 12 points, etc.)                            |        |
| Records .....   | 20     |
| (Accuracy—10 points; completeness—5 points;<br>neatness—5 points)                                   |        |
| Lowest cost of production (per pound) .....   | 18     |
| (For each cent increase in cost above 20c deduct 2 points)  |        |
| Management Practices .....  | 15     |
| (Clean house and equipment—10 points; regular feeding<br>and watering—5 points)                     |        |
| Percentage of chicks raised .....   | 12     |
| (100% = 12 points; 88% = 0)   |        |
| Gains Secured .....   | 10     |
| (Deduct 2 points for each ¼ pound under 3 pounds at 12 weeks<br>of age; 2¾ pounds = 6 points, etc.) |        |
| Size of Project .....   | 5      |
| (For 100 chicks award 3 points; for 200—4 points; for 300—<br>5 points)                             |        |



**FORESTRY PROJECT I—TREE STUDY<sup>1</sup>**

When we study trees, their growth, character, and behavior, we recognize the handiwork of the Great Creator. We love and appreciate trees when we know them, recognize them on sight, and have a definite idea of their use and value. We identify trees by their leaves, bud, and bark, or by their flowers and fruits. We recognize woods by their color, texture, and grain, and determine their uses by their strength, durability, and working qualities.

**Purpose:**

1. To encourage the club member to know and identify the trees of his or her community.
2. To teach the uses and value of the different types and species of trees.
3. To teach workmanship in the preparation of exhibit material.

**Requirements:**

1. To collect, mount or print, identify leaf specimens of 20 or more common trees.
2. To collect, prepare, mount, and identify wood specimens of 20 or more common trees.
3. To list common and scientific names and give chief use of the trees shown in above collection.
4. To list 10 or more forest trees that furnish food for game birds or game animals. The kind of birds and animals using same.

**Informational Material Available:**

1. Club Series No. 8, "Forestry Manual and Record Book."
2. Miscellaneous Publication No. 395, U. S. D. A., "Forestry for 4-H Clubs."
3. Miscellaneous Publication No. 217, U. S. D. A., "Forest Trees and Forest Regions of the United States."
4. 4-H Forestry Manual, Supplement No. 1, "Leaf Prints."

**Suggested Score Card for Making Awards:**

|  | <b>Points</b> |
|--|---------------|
| 1. Neatness of leaf mounts or prints .....                       | 20            |
| 2. Workmanship and finish of wood mounts .....                   | 20            |
| 3. Correctness in names of trees and uses of woods .....         | 30            |
| 4. Accuracy and completeness of information on trees and game .. | 15            |
| 5. Record .....  | 5             |
| 6. Story .....   | 10            |
| <b>Total</b> .....   | <b>100</b>    |

<sup>1</sup> See "Forestry Manual and Record Book for 4-H Club Members" for details.

**FORESTRY PROJECT II—PLANTING<sup>1</sup>**

North Carolina farmers have 1,250,000 acres of idle, eroding crop land and about 2,000,000 acres of heavily cut-over or burned woods. 4-H Club members have a real opportunity to help rebuild our forests by planting trees on these idle acres.

**Purpose:**

1. To reforest idle lands and increase production.
2. To grow timber for maintaining industry.
3. To employ labor and increase farm income.

**Requirements:**

Four types of tree planting work are open to club members. Carry out one or more of the following:

1. **Plant a forest**—Set pine, black locust or yellow poplar on at least one acre of idle or abandoned crop land.
2. **Improve a forest**—Underplant one or more acres of scattered hardwoods or pines in the upper Piedmont or Mountain section with red cedar, white pine, or Norway spruce.
3. **Grow Christmas trees**—Plant one or more acres of idle crop land with red cedar or Norway spruce.
4. **Produce nuts and timber**—Plant black walnuts:
  - (a) 25 or more seedling trees, or
  - (b) 200 or more nuts.

**Informational Material Available:**

1. Mimeographed leaflets, "Forest Planting," "Planting Black Walnut," and "Planting Black Locust."
2. Extension Circular No. 260, "Four Steps in the Management of Farm Woods."
3. U. S. Farmers' Bulletin No. 1453, "Growing and Planting Coniferous Trees on the Farm."
4. U. S. Farmers' Bulletin No. 1628, "Growing Black Locust Trees."
5. U. S. Farmers' Bulletin No. 1664, "Christmas Trees as a Cash Crop for the Farm."
6. U. S. Leaflet No. 84, "Planting Black Walnut."
7. U. S. D. A. Miscellaneous Publication No. 357, "Southern Pines Pay."

**Suggested Score Card for Making Awards:**

|  | Points     |
|--|------------|
| 1. Care and uniformity of planting .....           | 30         |
| 2. Protection and cultivation after planting ..... | 30         |
| 3. Survival .....                                  | 10         |
| 4. Records .....                                   | 20         |
| 5. Story .....                                     | 10         |
| <b>Total</b> .....                                 | <b>100</b> |

<sup>1</sup> See "Forestry Manual and Record Book for 4-H Club Members" for details.

**FORESTRY PROJECT III—TIMBER STAND IMPROVEMENT<sup>1</sup>**

When Nature plants a forest, she often places many trees to an acre that will never develop into lumber or other commercial product. As time passes, in the fight for space, many trees are crowded out and die, others become crippled and deformed, still others are damaged and diseased. Often clean, straight trees are suppressed by crooked, rough trees. The final stand is a mixture of good and bad alike.

**Purpose:**

1. To help Nature in her process of selection by removing the undesirable and overcrowded trees.
2. To promote greater growth of the better trees.
3. To shorten the growth period from seed to saw timber.

**Requirements:**

1. To thin one or more acres of pines or yellow poplar in pure, even-aged stands, or
2. To make an improvement cutting on one or more acres of mixed hardwoods of varying ages, or
3. To prune one or more acres of either planted or open-grown natural stands of pine (seven or more years old).

**Informational Material Available:**

1. Extension Circular No. 260, "Four Steps in the Management of Farm Woods."
2. U. S. Farmers' Bulletin No. 1177, "Care and Management of the Farm Woods."
3. U. S. Farmers' Bulletin No. 1892, "Pruning Southern Pines."
4. U. S. D. A. Miscellaneous Publication No. 395, "Forestry for 4-H Clubs."
5. U. S. D. A. Miscellaneous Publication No. 357, "Southern Pines Pay."

**Suggested Score Card for Making Awards:**

|   | <b>Points</b> |
|---|---------------|
| 1. Club member's record book showing cost and returns . . . . .         | 10            |
| 2. Club member's own story of his experience with the project . . . . . | 10            |
| 3. Actual work done on project:   |               |
| (a) Completeness and regularity of thinning . . . . .                   | 30            |
| (b) Pruning of trees left . . . . .                                     | 10            |
| (c) Height and type of stump left . . . . .                             | 10            |
| (d) Completeness of utilization . . . . .                               | 10            |
| (e) Neatness and uniformity of cording . . . . .                        | 10            |
| (f) Distribution of brush . . . . .                                     | 10            |
| <b>Total</b> . . . . .  | <b>80</b>     |
|   | <b>100</b>    |

<sup>1</sup> See "Forestry Manual and Record Book for 4-H Club Members" for details.



**FORESTRY PROJECT IV—FOREST PROTECTION<sup>1</sup>**

We should protect our woods now to make future homes possible. A system of firebreaks around and through the woodland gives definite protection from a slow-moving fire and affords easy access and makes quick back-firing possible in fighting a running ground fire.

**Purpose:**

1. To give fire protection to woodland on the individual farm.
2. To make quick access to a fire possible.
3. To aid in stopping a fire before it gets beyond control.

**Requirements:**

1. To plan and construct a system of firebreaks protecting ten or more acres of thrifty growing forest.
2. To maintain these firebreaks throughout the year.

Club members may choose any of the three types of firebreak construction given in "Forestry Manual and Record Book for 4-H Club Members."

**Informational Material Available:**

1. U. S. Farmers' Bulletin No. 1643, "Fire Safeguards for the Farm."
2. U. S. Farmers' Bulletin No. 1926, "Preventing Destructive Fires in Southern Woodlands."
3. Extension Circular No. 260, "Four Steps in the Management of Farm Woods."

**Suggested Score Card for Making Awards:**

**Points**

|  |            |
|--|------------|
| 1. Character and completeness of work done .....   | 30         |
| 2. Location and plan of firebreaks in relation to fire danger and type of ground cover ..... | 30         |
| 3. Map .....   | 15         |
| 4. Records .....   | 15         |
| 5. Story .....   | 10         |
| <b>Total</b> .....   | <b>100</b> |

<sup>1</sup> See "Forestry Manual and Record Book for 4-H Club Members" for details.

**FARM MANAGEMENT PROJECT FOR OLDER 4-H CLUB MEMBERS****Purpose:**

To give older 4-H Club members guidance in organizing, planning, operating, recording and analyzing farm business.

**Requirements:**

There are four distinct steps in conducting this project, all of which should be carried on in cooperation with the parent who is responsible for the operation of the farm:

1. To develop a long-time objective for the permanent use of each acre on the farm. This logically divides the farm into three parts: (a) permanent woodland, (b) permanent pasture, and (c) cropland.
2. The development of an annual operating plan. This includes the food program for the family, feed requirements for livestock and estimated production and sales, a cropping plan and the estimated production and sales and a summary of estimated farm expenses and income.
3. Keep an accurate farm business record. This includes a beginning inventory, a record of farm expenses, farm sales and a closing inventory at the end of the year.
4. Analysis of the year's farm operation and the development of a plan for the following year.

**Informational Material Available:**

All the information necessary is contained in two North Carolina Extension publications:

1. "How to Plan Farm Business in North Carolina."
2. "Farm Record Book" (Yellow Back Book).

In the planning publication, a step by step method is outlined which includes the long-term objective in land use and the annual operating plan. In the North Carolina Farm Record Book, the day by day transactions on the farm are entered as the plan is carried through.

At the close of the year, the farm record may be easily analyzed by following instructions, and the new plan for the coming year may be further developed and refined in the light of the accomplishments of the current year.

**Basis of Award:**

It is suggested, that in those counties where competition is to determine the awarding of prizes, that only those who carry through the four steps in the project be considered and that the award be based upon the interpretation of the year's operation and the changes that are to be made in the coming year's program as a result of the full year's study.

**Note:**

In order to be of the greatest service to the agents having club members selecting this project, the Farm Management Department requests that the agent furnish them with a list of members undertaking this work as early in the year as is practical.