

PROJECT SELECTION GUIDE FOR 4-H CLUB MEMBERS

North Carolina



WELCOME to the 4-H Club, the world's largest rural youth organization. There are many interesting experiences ahead for you and your family. There will be opportunities for you to have and work with something of your own. You will use your Head, Heart, Hands, and Health as you plan, work, and play in the 4-H Club.

THE 4-H CLUB is an organization of boys and girls from 10 to 21 years of age who are interested in home-making, farming, personal improvement, and community relations. Membership is voluntary. Club work is a part of the Agricultural Extension Service of the North Carolina State College, the United States Department of Agriculture and your county. Your Extension county farm and home demonstration agents and assistants, working with your 4-H adult leaders, will help you with your individual club work. Your Extension agents will meet regularly with you in your club at school during the school year. Your 4-H adult leader may meet with you in a neighborhood club.

FOUR-H CLUB MEMBERS are expected to do the following:

1. Enroll in at least one project.
2. Enroll in the Health Improvement activity.
3. Keep an accurate record of the project and the Health Improvement activity.
4. Exhibit the project, or parts of it, in the home, community, county, or other places.
5. Attend local, county, and other 4-H meetings.
6. Appear on local and other 4-H programs.
7. Do all the work in connection with the project, as far as possible. Try each year to enlarge the project, or projects, over the previous year. Take part in demonstrations, judging teams, exhibits, and other such 4-H activities which will improve the quality of the project or projects.

8. Write a story telling how the project was carried out.
9. Turn in completed project and health record books when asked for by the Extension agent.

SELECTING A 4-H PROJECT will be an important decision for you. You will need the help of your parents, and together you will want to consider:

1. The needs of the family.
2. The money it will take.
3. The space or equipment available.
4. The time it will require.
5. The support you can depend on from your family.
6. The use or the marketing of the product.
7. How the project fits the needs of your community and county.

After you and your family have considered these points, review the projects listed in this circular. Together decide the project or projects you will take for the year. Check on the project enrollment card which will be given to you by your Extension agent the project or projects you have chosen. When you have returned the card, your agent will give you your record book and a manual which will outline the requirements for completion.

PROJECTS AVAILABLE. On the following pages will be found a brief description of the projects available to 4-H Club members. Club members should read carefully the description and requirements and choose the project or projects best fitted to their ability and to their farm, home, and community situation.

HEALTH IMPROVEMENT is not a separate project. Each year you will carry it as a 4-H activity along with your other projects. In order to carry out this activity you will first check the health improvements which you should make and those which should be made by your family and community. You will then make plans for these improvements and carry out as many as possible.

Agricultural Projects

Agricultural Engineering

Electric

Through the Electric Project you will be expected to study ways of operating and caring for farm and home electrical equipment. Some thought also will be given to what equipment is needed and where it is to be placed when it is purchased. One particular task is to be compared by doing the job with and without electricity. You are encouraged to make, adjust, install, and use equipment wherever practical. Electricity should also be used in other 4-H Club projects.

Safety

You will conduct the 4-H Safety Project by studying the hazards found in the home, on the farm, and on the highway, and then removing or eliminating these hazards. The purpose of the project is to help prevent accidents and to give club members a part in making our farms and homes safer.

Tractor Care (A Unit—1st year)

This unit is designed for beginners in the Tractor Project. You will learn about tractor safety, what makes

an engine run, lubrication, oil for engines, the hydraulic system, fuel and air mixing, and the ignition and cooling systems of engines.

Tractor Care (B Unit—2nd year)

This unit is prepared for second-year tractor club members. The member learns about ignition systems, fuel saving, valves and valve service, steering, front wheel care, power transmissions, care of tires, trouble shooting, and winter care.

Tractor Care (C Unit—3rd year)

This unit is designed for the third-year tractor club member. The project teaches how to service the tractor and keep cost records on its use.

Machinery Care (D Unit—4th year)

This unit is designed for the fourth-year tractor club member. You will learn about nuts, bolts, screws, rivets, nails, transmitting power, tools for breaking the soil, tools to work the soil, hitching the tractor to a plow, servicing seed planters, and seed separation equipment.

Agronomy

Corn

The club member is required to grow one or more acres of corn and to follow the recommendations in the *4-H Corn Club Manual*. You will learn the recommended practices of producing corn, which will include good seed, soil preparation, fertilization, cultivation, harvesting, storage, and marketing.

Cotton

The club member is required to grow one or more acres and to follow recommendations of the county Extension agents. This project will teach you the latest improved methods in producing, harvesting, and marketing cotton.

Peanuts

The club member is required to grow one or more acres of peanuts. In this project you will learn about soil selection, soil testing, fertilization, varieties, seed treatment, cultivation, disease control, insect control, application of land plaster, harvesting, and marketing of peanuts.

Tobacco (Flue-cured)

To complete this project you will be required to grow 0.3 or more acres of tobacco and to follow recommendations outlined in the *4-H Flue-cured Tobacco Manual and Record Book*. The project offers an opportunity to learn tobacco plant production, disease and insect control, soil conservation, fertilization, spacing, cultivation, topping, suckering, harvesting, curing, grading, and marketing tobacco.

Tobacco (Burley)

To complete the project you will be required to grow

0.2 or more acres of burley tobacco and to follow the recommendations outlined in the *4-H Burley Tobacco Manual and Record Book*. The project offers club members an opportunity to learn the best known methods of plant production, disease and insect control, rotations, fertilization, transplanting, cultivating, topping, suckering, harvesting, curing, grading, and marketing of burley tobacco.

Tobacco (Aromatic)

To complete the project you will be required to grow 0.2 or more acres of aromatic tobacco and to follow recommendations outlined in *Aromatic Tobacco Production Circular 375 (revised)*. This project offers club members an opportunity to learn the best methods known for plant production, disease and insect control, rotations, fertilization, transplanting, cultivating, harvesting, curing, baling, and marketing aromatic tobacco.

Small Grain

The club member is required to grow two or more acres of wheat, oats, barley, or rye, and follow the recommendations as outlined in the *4-H Small Grain Manual*. You will learn about seed bed preparation, adapted varieties, fertilization, date of planting, and disease and insect control.

Soil and Water Conservation

To conduct this project you will make a soil conservation plan for the farm; establish three new approved farm practices; write a narrative covering the condition of the farm at the beginning of the plan, progress since making the plan, descriptions of practices established, and what has been learned from the project.

Dairying

Dairy Calf

You are required to have one or more animals approved by the Extension agents and you must agree to feed and care for the animal according to recommendations in the *4-H Dairy Calf Manual*, exhibit one or more animals in a show, and breed heifers to good sires approved by the Extension agents. The project will teach you the best methods of selecting a calf, care of the animal to maturity, fitting animals for shows, training animals to lead,

clipping, showing animals in a dairy show, and how to keep records.

Dairy Production (Cow)

The 4-H Dairy Production Project deals with keeping production records on one or more dairy cows for one year. To conduct the project you will weigh the feed and milk once a month, calculate the total feed and milk for the month, and get a butter fat test run once a month, if possible. The record provided must be kept and submitted to the county agent. A separate record is kept on each cow.

Entomology

Collection and Study of Insects

You will collect at least 75 different kinds of insects, each of which you will identify, label, and mount.

Life History and Control of Insects

You may choose to study the life history and control of insects in four different places: In the home, in the garden, on livestock, or on one agricultural crop. Make a detailed study of at least one of the insects found, and control one or more of these pests.

Beekeeping

You will work with one or more colonies of bees in movable frame hives for a period of a year. You will learn how to care for and manage bees properly; to use equipment for personal protection; to take inventory of equipment; to keep a labor, expenses, and receipts record; to judge the condition of the colony; and to know honey and pollen plants.

Forestry

Tree Identification

The project has three requirements:

1. Collect 20 or more specimens of leaves of trees found locally and mount or print these leaves in a looseleaf notebook, or collect 20 or more wood specimens found locally and mount the specimens on wood boards.
2. Name the specimens collected by scientific and common names and give the uses of the trees or wood.
3. Name 10 forest trees which furnish food for birds or game animals.

Forest Tree Planting

To conduct this project the club member has the choice of planting or underplanting one or more acres of pine, red cedar, Norway spruce, red spruce, or Fraser fir.

Timber Stand Improvement

This project requires that a club member improve the

stand of one or more acres of pine, yellow poplar, or mixed hardwood by removing the undesirable and over-crowded trees early in the life of the stand.

Forest Protection

In this project you may choose one of the following units:

1. *Forest fire protection in the county*—You will visit a lookout tower, study an area of burned-over woodland and an area of land not burned over and make a comparison of the plant and insect life and fire injury in both areas, get acquainted with the fire protection tools found on the farm, and draw a map of the farm woods.
2. *Protection from woodland grazing*—This includes a study of a .01 acre plot of an area which has been grazed by livestock and a .01 acre plot one year after livestock has been kept out of the woods.

Horticulture

Garden

A junior club member will plant at least 150 feet of row space as a spring garden and use at least eight different kinds of vegetables, including at least 14 tomato plants. Plant at least 50 feet of row space for a fall garden, using four different kinds of vegetables.

A senior club member will plant at least 300 feet of row using 12 kinds of vegetables, including at least 25 tomato plants; and plant at least 150 feet of space in vegetables for the fall garden, using at least six kinds of vegetables. Note different requirements for juniors and seniors in the *4-H Garden Record Book*

Home Grounds Beautification

To conduct this project you will be required to read the *4-H Home Grounds Beautification Manual*, fill out a check list on improvements which need to be made, and make at least eight improvements during the year. Make a drawing of the yard as it is and as you wish it to be. Make pictures of the yard as it is now and also during the time the improvements are being made, and also make pictures of the finished improvements.

Blueberries

You may conduct this project by planting 100 plants the first year or 10 plants the first year and cuttings made for a minimum of 100 plants the second year. You will learn how to care for, harvest, and market blueberries.

Dewberries

You will begin this project by planting 100 plants of a recommended variety and increasing this number to 500 by the second year. You will learn how to plant, cultivate, fertilize, harvest, and market berries. A goal of three to four quarts of fruit per plant should be set.

Bunch Grapes

You will start this project with a minimum of 15 plants of three different varieties. Cuttings should be made to increase the planting to at least 100 plants by the third

year. You will learn how to plant, cultivate, fertilize, prune, spray, harvest, and market grapes.

Muscadine Grapes

You will start this project with a minimum of 10 vines set the first year. This number should be increased as rapidly as possible until 50 or more vines are in production. You will learn how to plant, fertilize, prune, cultivate, harvest, and market these grapes. The goal should be 100 pounds of fruit per vine.

Black Raspberries

To conduct this project you will start with a minimum of 100 plants and plan to increase the plants to 500 by the end of the second year. You will learn how to plant, fertilize, cultivate, harvest, and market the berries.

Red Raspberries

You will begin this project with a minimum of 100 plants and plan to increase the plants to 500 by the end of the fourth year. You will learn how to plant, cultivate, harvest, and market the berries.

Strawberries

Junior club members will start with 100 plants and senior club members with 500 to 1,000 plants. You will have the opportunity of learning varieties, planting, fertilization, insect control, harvesting, and marketing practices.

Irish Potatoes

You will grow one-half or more acres of a variety recommended by the Extension agent. You will learn recommended practices, proper harvesting and handling, and how to keep production cost and sales records.

Sweet Potatoes

To conduct this project you will grow one-half or more acres of a variety recommended by the Extension agent and properly harvest, field grade and pack all marketable grades into bushel baskets. You will learn how to grow, harvest, grade, and market the crop.

Livestock

Fat Steer

To take this project you will need to secure one or more steers dropped in December or January which have been castrated and dehorned before three months of age. The steers should be at least high grade calves which would grade choice or better as feeder calves. You will learn how to feed the animals using corn, barley, or other home-grown feeds, along with protein supplements, hay, and minerals. You will care for and fit the animals for the show or sale.

Beef Heifer

To conduct a Breeding Beef Heifer Project a club member will need to secure one or more high grade or purebred heifers. The project provides an opportunity for members to learn management, feeding and breeding practices. You will need at least two acres of permanent pasture, suitable hay or silage and grain for winter feeding, and the services of a good purebred bull.

Breeding Ewe

You will need to secure one or more ewes. You will have an opportunity to learn feeding practices, flock manage-

ment, and the marketing of lambs and wool. It will be necessary for you to have at least one-half acre of pasture per animal, woven wire fencing, and the use of a good purebred ram.

Market Pigs

You will begin by securing one or more pigs at least six weeks of age and feed them until they have reached 180 to 200 pounds. You will learn how to feed corn, barley, milo, oats, or wheat along with minerals, protein supplement, and pasture to produce a good market animal. The project is completed when the pigs are sold or killed for home use.

Brood Sow

You will start with one or more pigs or gilts with the purpose of breeding the animal or animals and raising the pigs either for home use or for sale. You will learn to care for breeding animals and how to feed and care for young pigs.

Poultry

Poult (Turkey) Raising

You will brood 25 or more poults until they are placed on range. You will continue to care for, manage, feed, and keep records on the project until the turkeys are sold, which should not extend longer than seven months.

Grow Better Pullets

You will grow 100 or more pullets until they are six months of age. (Exception: Club members receiving 50 chicks through the pullet chain will grow 50 or more.) The recommendations of the Extension agent should be followed. You will learn brooding, feeding, and the care of these birds to laying age.

Broiler Production

To conduct this project you must feed and care for 100 or more broiler strain chicks for 10 weeks. This is done by keeping them in a brooder house, supplying drinking fountains and feed hoppers, and supplying eight bags of broiler mash per 100 chicks.

Laying Flock Management

To conduct this project you will care for 50 or more birds. This will include feeding the birds, gathering the eggs, keeping a record of the amount of feed consumed until the flock has ceased to produce at a profitable rate.

Homemaking Projects

Clothing

The choice of your clothing work will be influenced by your age, experience in sewing, and your needs. To conduct the project you will complete one or more units per year. Junior girls may choose these units: The ABC's of Sewing, Hand Sewing, Learning to Use the Sewing Machine, The Easy-To-Sew School Frock, Advanced Junior Sewing. Senior girls will have a choice of six units: A Practical Outfit, A Best Dress Outfit, A Versatile Outfit, A Wool Ensemble (for advanced girls), A Party or Evening Dress, and Knitting and Crocheting.

Better Grooming

This project is designed to help you and others develop a more pleasing appearance and personality. You first will list the improvements you need to make in the personal care of your body and clothes. Make a plan for improvements needed and make as many of these improvements as possible.

Food Conservation (Canning)

A junior 4-H girl will can 10 or more quarts of vegetables or fruits (boiling water bath method), help with home canning, and exhibit two jars of her canned food at a local or county event. A senior 4-H girl will make a food conservation plan for her family, can 24 or more quarts of fruits and vegetables alone, help can 50 or more quarts, assist another family with canning, and exhibit at least three of these jars of canned food at a local or county event.

Frozen Foods

Junior 4-H members will freeze at least 10 packages of fruit (at least two kinds) and at least eight packages of vegetables (at least two kinds). Senior 4-H members will freeze at least 14 packages of fruit (at least three kinds), at least 10 packages of vegetables (at least three kinds), and two fryers (cut up).

Food Preparation

You will actually prepare and serve food and drinks. You will plan, prepare, and serve whole meals or certain foods for your family or for special occasions. To complete a project you will carry one of the following units each year: Breakfast—for girls taking food preparation for the first year; Lunch or Supper—for second-year food preparation girls; Dinner—for third-year food preparation girls; Baking or Foods for Special Occasions—for those girls who have completed the other three units and are taking food preparation for the fourth (or more) year. In addition to your unit you will keep a record of and receive credit for all other meals and dishes you prepare each year.

Home Improvement

This project of 10 units will help you make and keep your home attractive. First, you will select the two units on Room Arrangement and Care of Room, and carry them to completion. You then may select any of the fol-

lowing units and when the requirements of each have been carried out, you can consider it a project completion: The Study Unit, The Sleeping Unit, The Dressing Unit, The Storage Unit, Accessories For the Home, Window Treatment, Walls, Woodwork and Floor Unit, Improvement of Some Room Other Than Your Own.

Home Management

This project will give you an opportunity to share in doing housekeeping jobs in the easiest and shortest ways and to learn about money management. The project includes seven units: Plan the Use of Your Money; My Money, Where Does it Go; Help Mother with Housecleaning: This is the Way We Wash; Ironing the New Way; Streamline Dishwashing, Make It Fun; Steps to Easier Bedmaking. To complete a project junior club members will complete at least one unit, and senior club members will complete at least two units during the club year. My Money, Where Does It Go, and Plan the Use of Your Money are units designed for both boys and girls.

Other Projects

Crafts

Through the Crafts Project you will develop talent and skill in making handmade articles and also an appreciation for good crafts. Some suggestions for this project are baskets (honeysuckle, willow, pine needles), brooms, hot dish mats, wood carving, rugs (hooked and braided), leather and metal articles. You will need to make one or more craft articles to complete this project. Articles made by junior 4-H Club members should be simple, but well made. Senior members should select more advanced crafts.

Marketing

The junior 4-H Club member must earn \$25 or more and the senior club member must earn \$50 or more through the sale of products produced or made by him or herself.

Recreation

This project will give you a chance to plan and direct recreation in your home, club, community, and county in the following seven areas: Social, Home and Community, Music and Drama, Arts and Crafts, Nature Lore, Folklore, and Sports and Outdoor Recreation.

Wildlife Conservation

This project includes eleven units:

1. Habitat Improvement.
 - (a) Planting Field Borders
 - (b) Fence Rows
 - (c) Ditch Banks
2. Planting Wildlife Food Patches
 - (a) Utilizing Tobacco Plant Beds
 - (b) Leaving Unharvested Strips
 - (c) Disking for Natural Foods
3. Trapping Fur Animals
4. Fish Pond Production and Management
5. Erecting Nesting Boxes and Feeders
6. Animal Bird Census Charts
7. Wildlife Food Plant Survey
8. Photographing Wildlife and Wildlife Homes
9. Listing Wildlife Regulations
10. Keeping Pets at Home
11. Teaching and Helping Others

To complete a year's work you will complete one of the three parts of unit one or one of the four parts of unit two, and complete one or more of the other units.



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