

## Information from the State 4-H-Youth Office

Volume XXIII - Numbers 9 & 10  
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Dalton R. Proctor  
Assistant Director  
Extension State 4-H Leader



Cooperative Extension Work in Agriculture and Home Economics,  
A&T and N.C. State Universities,  
100 Counties, and U.S. Department of Agriculture, Cooperating.

1985 PROGRAM ASSISTANT POSITIONS AT THE NATIONAL 4-H COUNCIL

Enclosed please find the 1985 Program Assistant position description from the National 4-H Council. If you know of former 4-H'ers that might be interested in this type of position with the Center, please notify them. Applications are accepted any time, however, applications for 1985 spring and summer positions must reach National 4-H Council by December 1, 1984, for consideration. There are three employment periods a year, beginning approximately on the following dates in 1985--February 1, May 22 and September 3, 1985. The position is for three months and may be extended for a maximum of two years depending on program needs and evaluation of employee. Applications are to be signed by the county and state 4-H offices.

If you know of someone that might be interested in a position of this type, please contact Helen Thompson (919/737-2801) in the State 4-H Office for an application.

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4-H DIGESTS

Natural Resources and Plant Sciences  
and  
Safety and Mechanical Sciences

Enclosed please find two 1984 4-H Digests "Natural Resources and Plant Sciences" and "Safety and Mechanical Sciences". These series of 1984 4-H Digests provide information about private support to help expand and strengthen your 4-H program. If you need additional copies, we have approximately 75 copies of each digest leftover.

\*\*\*\*\*

1984 4-H UPDATE

Enclosed please find a copy of the 1984 4-H Update issue entitled "Leadership for Tomorrow." We have a few additional copies if you would like to request extra copies. I believe you will find the document useful in accountability efforts in the states and a publication which reflects the many dimensions of the 4-H program in the United States.

\*\*\*\*\*

### N.C. 4-H CONGRESS SCHEDULE

North Carolina 4-H Congress has been scheduled for the next two years. The dates are listed below.

1985 - July 22 - 26

1986 - July 21 - 25

Mark your calendar now and plan to be with us.

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### DONOR LIST UPDATE

Enclosed in this newsletter is an update on the Donor List (Appendix B). Please make the necessary changes or additions to your donor list.

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### STATE COUNCIL LETTER

A letter to County 4-H Council from the State Council Officers is included in this mailing. This letter gives important information on State Project Contests. Please see that your County Council gets this information.

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### INFORMATION ON STATE COUNCIL NEWSLETTER ARTICLES

Included in this newsletter mailing is a letter from Ivan Barnes, State Council Reporter, giving information and deadlines for State Council Newsletter articles. Additional scrapbook information is given also.

Dalton R. Proctor

# CAMP ATTENDANCE UP!

Summer camp numbers (5279) increased by 468 or 9.7% over 1983. As compared to neighboring states this is a very positive trend.

The majority of the increase came from 4-H speciality camps increasing from 356 in 1983 to 783 this year while county 4-H camps brought only 66 more campers. Non-4-H groups dropped slightly in attendance.

One 66% of our camp bed space was filled this summer. This with only 3.3% of our 4-H'ers attending camp, we have a gigantic opportunity to expand.

## Camping Attendance by districts:

	1983	1984
North Central	835	850
Northeast	323	307
Southeast	757	785
Western	418	388
Northwest	495	447
Southwest	783	897

Congratulations to the counties of the Southwest District for the highest total campers, largest in camper numbers, and the highest percent of quota reached, 86.3%.

## Honor Roll of counties reaching 100% or more of their 1984 quota:

173.3% - Pamlico	120.0% - Columbus	108.8% - Onslow
153.0% - Gates	117.6% - Cherokee	106.7% - Polk
140.0% - Bertie	116.6% - Martin	104.4% - Jones
133.3% - Cherokee Res.	116.0% - Guilford	103.8% - Durham
131.4% - Caldwell	115.5% - Pender	100.0% - Northampton
128.0% - Caswell	115.0% - Clay	100.0% - Craven
127.0% - Nash	110.0% - Chowan	100.0% - Graham
125.0% - Franklin	110.0% - Alexander	100.0% - Mitchell
121.8% - Hoke	110.0% - Lincoln	100.0% - Burke

\*\*\*\*\*

## DID YOU KNOW?

. . . That over 90% of Russian children attend camp and that the government sees camp as a very important link in the educational process of their youth.

\*\*\*\*\*

BETSY-JEFF PENN TWENTY YEARS OLD!

Did you know our Penn 4-H Center was constructed in 1964? This was made possible by funds and land provided by Mrs. Penn.

It still looks good after a lot of campers and other users!



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C.I.T. PROGRAM SUCCESSFUL

Seven 4-H'ers participated this summer in the first camp counselor-in-training program conducted in a number of years. Two sessions each three weeks in length were offered at Betsy-Jeff Penn.

The purpose and objectives of the CIT Program include the following:

1. To help prepare the individual to become an effective future camp staff member.
2. To acquaint each participant with the aims and purposes of Camp as established by the American Camping Association and the North Carolina 4-H Camp Program.
3. To establish a basic philosophy of guidance and camp 'psychology' and to provide training for working with young people.
4. To equip participants with necessary skills for group work and leadership.
5. To equip participants with essential skills associated with the instructional and over-all camp program.
6. To develop communications skills.
7. To provide progressive leadership skills in all phases of the camp program.

Participants in the CIT Program play an active role in the camp program assisting various instructors with classes and other activities. They attend training workshops designed for them by the camp director. The intent is to provide training and experience for sixteen and seventeen year olds who are too young to be a teaching camp counselor. The goal is to eventually have a majority of our camp staff who have gone through the CIT Program.

Please urge your top 4-H'ers who are at least sixteen to apply for this leadership development opportunity. They may apply anytime now through March 1, 1985 for the 1985 sessions which will be June 23 - July 12 and July 29 - August 16. They may choose either session, not both.

Application may be made on the regular 4-H camp staff application form.



#### CABIN RAISING!

Extension agents, 4-H leaders, and their families are invited to come to the mountains for a beautiful weekend during the peak of the colorful fall leaf season on October 19-21.

Participants may stay at Swannanoa 4-H Camp on Friday and Saturday nights. Lunch will be provided on Saturday plus a pig-pickin' Saturday night. This is all free for those who come and help us put up the log cabin on Saturday, which will be a vital focal point for the Mountain Heritage Program at the camp. Everyone will have Sunday to tour the mountains.

Those planning to attend should send or call in the number who will be present to the State 4-H Office by October 12. Don't miss out on this old timey social event.

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#### BETSY-JEFF PENN APPLICATION FORMS

The application forms and fee schedules have been revised and a set for your file is enclosed with this newsletter. Please throw away all old application forms that may be in your files or on your shelves. It had been nearly five years since the last revision. Scheduling and communication procedures have been changed and hopefully improved in regard to relations with user groups.

We would ask that you make business, civic and school groups, as well as 4-H groups, aware of the conference and camping facilities available on a year-round basis at Penn. The more non-4-H groups that use the facility during the off season, the easier it will be to maintain reasonable rates for 4-H groups.

J. Roland Flory

#### CAREERS NEWSLETTER ENCLOSED

Enclosed please find the October issue of Careers That Work, a newsletter for 4-H Careers Leaders.

Judy M. Groff

#### NEWS FROM OTHER COUNTRIES

Our International Four-H Youth Exchange (IFYE) delegates have been busy in their host countries. Enclosed you will find two newsletters from Glenn Edmisten in Taiwan and one newsletter from Lisa Coble in Belgium. Take a few minutes to read these newsletters, you'll probably learn something new about these two countries.



#### FROM THE MAILBAG



Thought you would be interested in this article we found in the Autumn 1984 issue of IFYE News.

IFYEs are known for their sense of humor. It's the sixth sense that helps them survive another culture. But when you first arrive in your host country, it can be less than hilarious.

In a letter sent to all 1984 IFYEs this summer, a few questions were asked concerning those first days in the IFYE's host country. Here are some candid replies:

Q - Do you remember that first day in your host country?

A - "Very clearly. I was sure everything was well organized - there would be few if any problems. But there was no one at the airport to meet me." Pat Horcher, Illinois - Finland.

Q - Circle appropriate facial expression(s) below:

Editor's Note: Most people circled one or two of the faces. But Lisa Coble, North Carolina - Belgium, did this -



Q - What was the first food item you were served?

A - Peter Sheffert - fellow YDP - gave me leftover spaghetti. Kristie Willert, Minnesota - Botswana.

A - A Chinese dinner! Kathy Reim, Colorado - Norway.

A - Toast and coffee. Glenn Edmisten, North Carolina - Taiwan.

A - Rice and beans. Marcia Sloan, Ohio - Costa Rica.

A - Big Mac and fries. Susan Schlichting, Nebraska - Germany.

A - Pea soup, pankaka with lignon sauce. Connie Kiser, Kentucky - Sweden.

Q - What was the first new expression you "mastered" in the language or dialect?

A - "Wou ass eng Toilette?" (Guess) Lydia Barrett, Virginia - Luxembourg.

A - "Nous sommes ici!" (WE ARE HERE!) Joset Williams, Oregon - Belgium.

A - "Lemme Lone Mon!" (Leave me alone!) Stacy Zuzek, Minnesota - Antigua.

A - "Queue, bloody, pums, Kiwi, Aussie, Yank, boot of motor" and other English words. Lisa Miller, Minnesota - United Kingdom.

Q - Does the environment smell different? Describe it.

A - Yes - Sheep manure. Brian Pifer, Pennsylvania - Wales, United Kingdom

A - Smell of rapeseed blooming. Bob Owen, Iowa - Sweden.

A - It smells like a mixture of ocean and onions. Jacqueline Gailie, New York - Netherlands.

A - The flowers are great. I mainly smell wild oats and sage brush. The pigs smell the same. Thracia Gibson, California - Germany.

A - In large cities like Lisbon ... an odd mixture of scents - food and spices cooking, baking bread, rotting garbage, excrement ... it's a strange smell! Bill Rankin, Montana - Portugal.

Q - What "sound" have you heard that will always represent your IFYE experience?

A - Corks popping off wine bottles. Debra Dee Sarver, Illinois - Italy.

A - Honking horns - the national pastime. Sarah Peterson, New Mexico - Taiwan.

A - Church bells ringing in my head (as I stand next to my host brother who is ringing them 20 times). Bill Owen, Connecticut - Denmark.

A - Wind through the sugar cane fields. Lois Mark, Pennsylvania - Barbados.

A - People running their mouths 1,000 words per minute and not being able to understand a single word! Shauna Murphy, Kansas - Greece.

Hope you enjoyed our little question and answer session.

#### 4-H TEEN EXCHANGE

Franklin County in northern Vermont is interested in a 4-H teen exchange. They will have 25 youth and would like to travel in 1985 and host in 1986.

For more information contact:

Carol Fitzgerald  
4-H Agent  
Franklin County Extension Service  
48 Lower Newton Street  
St. Albans, VT 05478  
(802)372-4536

Pauline E. Moore



1984 AUTOMOTIVE SKILL DRIVING CONTEST

Twelve winners were chosen at the District 4-H Automotive Skill Driving Contest this year based on their written quiz and skill driving scores. They went on to compete in the statewide Automotive Skill Driving Contest at the McKimmon Center in Raleigh.

The statewide winners were Billy Hawkins of Person County and Duane Leonard of Davidson County. They represented the 4-H'ers at the 34th Eastern National 4-H Engineering Event which was held at the State Fair of Virginia, Richmond, Virginia September 24-26, 1984. This regional invitational event was held for youth participating in the 4-H Petroleum Power, the 4-H Automotive, the 4-H Learn-To-Earn Projects and the 4-H Electric/Energy Program.

Alternate winners of the statewide event were Frank Herlant of Cabarrus County and Keith Young of Martin County.

The 1984 North Carolina 4-H Automotive Skill Driving Contest Report is enclosed.

Henry Revell, Jr.

CLIPPINGS WANTED

With National 4-H Week coming up October 7-13, your county may have special newspaper editions, supplements or pages. The Agricultural Communications Department would like to have copies of clippings of these to use in Communications Training Workshops to show others what can and is being done to tell the 4-H story. Don't let your county be left out, send your materials to:

Jimmy Tart  
Agricultural Communications  
Box 7603, NCSU  
Raleigh, NC 27695-7603

Jimmy Tart



FROM COUNTY CAMPS TO SEVERAL SPECIALITY CAMPS

4-H in North Carolina had what seemed to be an exceptionally good year in camping. Many good reports could be shared. Here's one I think really expresses just how important 4-H and camping can be to our 4-H'ers.. ..sometimes when we least expect it.

This 4-H'er attended the Fur, Fish and Game Conference. She was 15 and a quiet girl--a camper you might not think was getting anything out of camp. This excerpt was from her evaluation.

**What I Liked Best**

I can't really say what I liked best because in my eyes each and every subject was truly interesting and gave me something I've been searching for a long time. I think that the map and compass course and the exercise at the Army base built my confidence in myself--something I've been lacking.

Last night I experienced and witnessed one of the most beautiful services I have ever seen. The peace I felt, I can't explain on paper. The union of the people overwhelmed me--all striving for one purpose, all joined together in harmony.

It was beautiful.

**How to Improve this Place**

There's no way you could improve this place, because it's the best it will ever be.

Don't you want all your 4-H'ers to attend camp now! Congratulations.

David E. Weatherford, Jr.

DATES TO REMEMBER

October 7-13	National 4-H Week	
October 12-20	North Carolina State Fair	Raleigh
October 1 - November 15	Submit Certificate Order Form	State 4-H Office
November 17-18	N.C. Volunteer Leaders Conference	McKimmon Center
November 23-30	National 4-H Congress	Chicago, Illinois
December 1	Applications for National 4-H Conference and IFYE trips due	State 4-H Office

# 1984 4-H DIGEST

## NATURAL RESOURCES AND PLANT SCIENCES

APRIL/MAY

SUPPORTED BY



NATIONAL 4-H COUNCIL

This is the second in a series of 1984 4-H DIGESTS providing information about private resource support to help expand and strengthen your 4-H program.

### Introduction

**N**o two areas of subject matter are more important to the future of this country and the world, than natural resources and plant sciences. To feed, clothe and shelter the people of the world is a formidable challenge. This generation of 4-H members must help take leadership in providing information and skills to expand capabilities and protect resources.

At the same time, each 4-H member and leader will find that projects in these areas are fun! They challenge young people to learn more about their environment and how to be responsible for it. And that applies to young members, older members, city dwellers or farm families. The plant sciences awards programs—agricultural, commodity marketing, entomology, gardening and horticulture, and plant and soil science—give 4-H members a chance to explore their environment in terms of productivity; learn how to get the most from the land while giving plenty back; and gain skills in how to plant, grow, harvest, and market products. The natural resources awards programs—conservation of natural resources, forestry, wildlife and fisheries, and wood science—teach 4-H members the value of natural resources and the importance of conserving those resources for the future.

This issue of the 4-H DIGEST is designed to help you give 4-H members valuable skills and oppor-

tunities for decision making and leadership, that will serve them all their lives. On pages two and four you will find specific program objectives established by the Cooperative Extension Service for the natural resources and plant sciences programs. You will also find a listing of the corporations that stimulate excellence in these programs by providing incentives, awards and other support at county, state, regional and national levels. You and your 4-H members will want to write to the individuals listed, to express appreciation for 4-H support.

Pages three, five and six are full of ideas. You'll find ideas for natural resources programs on page three, and for plant sciences on page five. Page six gives you ideas that combine both subject matter areas, and apply to the overall program objectives relating to leadership, career exploration, life skills and citizenship. Remember—the ideas on all three pages relate directly to the program objectives. They come from members and leaders around the country. They work! Your 4-H members can be learning new skills, while learning how to keep records.

Pages seven and eight list educational aids to help you in both natural resources and plant sciences programs. They include member and leader manuals, slide sets and special publications available to help make learning more fun and more interesting for your 4-H members.

### IMPROVING YOUR LEADERSHIP SKILLS

The 4-H Digest is a working tool for you as a leader. You'll find even more help right in your own community! Start with your county Extension office. In the natural resources area you may seek help from specialists at the state land-grant university; the state departments of agriculture and fish and game; local wildlife associations; the U.S. Park and Forest Services; U.S. Department of the Interior; or local nurseries and tree farms. In the plant sciences, call on local nurseries, garden shops, florists,



farmers, seed stores, farm equipment dealers, exterminators, and research organizations. And don't forget—donor companies who support the national awards programs are more than willing to help you with your 4-H projects.

Be sure to keep this issue of the Digest. Even if your present leadership role is not in one of these areas, it can serve as a valuable reference for the future. A limited number of copies is available from your state 4-H office.

# Objectives

## Common To All Programs

1. Practice leadership skills and roles, take part in community affairs, and demonstrate citizenship responsibility.
2. Explore career, job and productive leisure opportunities.
3. Develop skills, knowledge and attitudes for lifelong use.
4. Learn to use accepted practices for mental, physical and emotional health, and to respect yourself and others.

Letters of appreciation for support in these programs may be addressed to the following individuals:

### Conservation of Natural Resources

Mr. Boyd C. Bartlett  
Senior Vice President  
Deere & Company  
John Deere Road  
Moline, Illinois 61265

#### Awards

County: Medals of honor; four club certificates  
State: Trip to National 4-H Congress; 10 club certificates; \$50 to best county  
National: Six \$1,000 scholarships

### Forestry

Mr. John A. Georges  
President and Chief Operating Officer  
International Paper Company  
77 West 45th Street  
New York, New York 10036

#### Awards

County: Medals of honor  
State: Trip to National 4-H Congress  
National: Six \$1,000 scholarships

### Wildlife and Fisheries

Mr. William M. Carpenter  
Senior Vice President  
Tenneco Inc.  
Tenneco Bldg.  
P.O. Box 2511  
Houston, Texas 77001

#### Awards

Dr. Jay D. Hair  
Executive Vice President  
National Wildlife Federation  
1412 Sixteenth Street, N.W.  
Washington, D.C. 20036  
National: Six \$1,000 scholarships  
Six trips to National 4-H Congress

### Wood Science

Mr. James L. Dutt  
Chairman  
National 4-H Council  
7100 Connecticut Avenue  
Chevy Chase, Maryland 20815

#### Awards

National: Six \$1,000 scholarships  
Six trips to National 4-H Congress

National 4-H Council is a not-for-profit educational organization that uses private resources to help expand and strengthen the 4-H program. 4-H is the youth education program of the Cooperative Extension Service of the State Land-Grant Universities and the U.S. Department of Agriculture. Programs and educational materials supported by National 4-H Council are available to all persons regardless of race, color, sex, age, religion, national origin or handicap. Council is an equal opportunity employer.

## Individual Natural Resources programs give 4-H members the opportunity to:

### Conservation of Natural Resources

- Understand the need for conserving natural resources today and for the future.
- Make decisions concerning natural resources to derive the greatest long-range benefit for all.
- Appreciate the value of natural resources to the individual and the nation.
- Learn scientific practices and methods in conservation.
- Work with others on a conservation education program important to the community, state and nation.

### Forestry

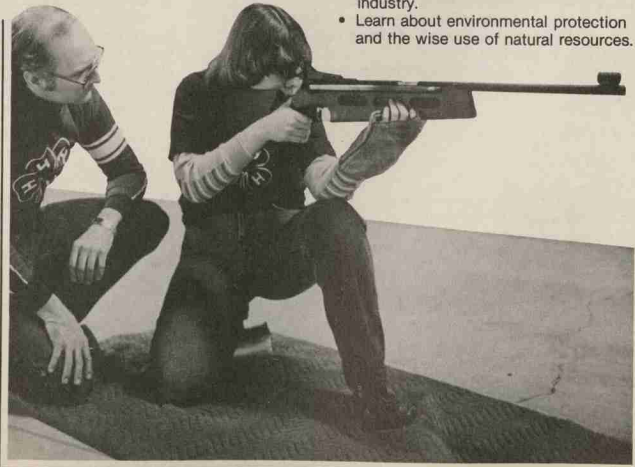
- Develop a positive attitude toward the importance of conserving our forest resources.
- Appreciate woodlands as a source of income, raw materials and enjoyment.
- Learn about good forestry practices and develop skill in executing them.
- Learn skills in forest management and use of forest products.

### Wildlife and Fisheries

- Understand fish and wildlife resources and develop skills in planning, managing and keeping records of fish and wildlife enhancement, production, maintenance and use.
- Develop an appreciation of the need to manage wildlife and fisheries habitats and populations to insure future perpetuation and use.
- Demonstrate sound fish and/or wildlife conservation, enhancement and enjoyment practices at home and in the community.
- Develop a commitment to practice and support wise stewardship of natural resources for present and future generations.

### Wood Science

- Develop an understanding of and appreciation for the fiber products of the forest.
- Acquire knowledge and develop skills in the selection and uses of various types of wood and wood products.
- Acquire knowledge and develop skills in the selection, care and safe use of woodworking tools and machines.
- Learn about the business and economics of the forest products industry.
- Learn about environmental protection and the wise use of natural resources.



# Ideas

## to Help 4-H'ers Enjoy Natural Resources

Use skills learned in the forestry program to qualify for competition in the 4-H Forestry Invitational, July 30-August 2 in Weston, West Virginia. This event, supported by International Paper Company Foundation includes tree identification, tree measurements, compass traverse, forest evaluation, a forestry bowl and fun events. Contact your county Extension office for information.

### Conservation of Natural Resources

- Start a collection of grassland plants and label them, showing the forage value of each variety.
- Collect cans, papers and/or bottles for recycling. Set up a recycling center in your community.
- Collect, press and exhibit plants. Give a talk on their function and value in the environment.
- Make an exhibit with pictures of trees found in your area, and list their value for home and industrial use.
- Make newspaper fire logs and sell them as fund-raisers. Attach a label or card to each log, providing tips for conservation practices around the home.
- Research conservation practices used in the early 1900's. What is and isn't being done today? What were some of the causes of the "dust bowl" in the 1930's? Compare early practices to conservation techniques of today.
- Make a map outlining energy affluence around the world. Study how other countries manage energy resources and limitations.
- Visit a farm, lake, forest, park, management area or ranch and discuss conservation practices.
- Identify an open range area; seek permission to manage the area, and provide the best soil conservation methods for that land.
- Work with your county government, to become responsible for a body of water. Develop a program to keep the water pollution free and conducive to wildlife habitat.

### Forestry

- Visit with a city forester, tree farmer, arborist, nursery operator, or state forester to discover how their jobs are similar and how they vary.
- Take a trip to a tree farm or forest. Talk with the owner/manager about forest management programs.
- Teach members to become tree detectives! Investigate why trees grow in different locations, how trees are planted by nature, and which trees are best for landscaping or windbreaks. Examine stumps of recently cut trees and discover their age and growth history from annual rings. Make a leaf collection or a collection of photographs of tree characteristics—leaves, buds, bark, winter form.
- Study the effects—both beneficial and destructive—of fire on a forest.
- Find out what kinds of insects and diseases are associated with trees in your area. Make a display showing how to control resulting problems.
- Develop a computer program for identifying trees.
- Investigate wood burning stoves. Collect information on safe installation, heat value of various woods, and how to dry wood. Prepare an exhibit to inform the community of safety practices.

### Wildlife and Fisheries

- Study how wildlife species sometimes conflict with man and how such damage can be prevented and controlled.
- Build bluebird nesting boxes and establish a bluebird trail. You'll find complete instructions in this issue of NATIONAL 4-H NEWS.
- Hold a wildlife photo contest. Pictures could be used in discussion of how wildlife adapt to their local ecosystem.
- Develop a slide set on local wildlife. Discuss the importance of wildlife to the community and how people can help preserve natural habitats. Arrange to show the slide set to various community organizations.
- Build an aquarium. Discuss how water quality, aquatic weeds and rocks are important in aquarium systems.
- Learn what life forms are important in the fish food chain by exploring a lake or pond and collecting specimens, or ex-

ploring weed beds. Take a handful of weeds, shake into a white pan of water and watch all the "critters" come out!

- Invite a home economist to a club meeting to discuss the nutritional value, preparation and preservation of fish and game. Let the club prepare a meal featuring fish or game.
- Research wildlife and fisheries management practices of other countries. What practices are the same? Which are different and why?
- Start a wildlife judging contest. This might include evaluation of a wildlife habitat on site and through aerial photographs, and food identification. Get a local business or community group to help out.

### Wood Science

- Make a map of the United States, with each state being made from the wood of each state tree.
- Over an extended period (six months to a year), measure dimensional changes in wood samples placed at various locations in a house. What does this tell about the air in the house and how it varies? What else did you learn?
- Make display boards showing the effects of different clear finishes on the appearance of wood.
- Establish an exposure rack, where wood samples coated with various finishes are exposed to weather conditions over long periods. This is a good on-going project. By adding new samples each year, give visual comparisons of coating performance at various time intervals.
- Invite a wood scientist, architect or contractor to lead a neighborhood tour, pointing out different types of construction.
- Examine furniture and architecture in museums and historic buildings, to discover how wood properties and technology have influenced our lifestyle.
- Investigate the relative fuelwood values of timber species; determine when wood is best used for fuel and when it is best used for alternative products or purposes.
- Build a display showing modern wood products manufactured from sawdust, chips, particles, shavings or other residues which might otherwise have been burned or wasted.
- Learn to identify the common woods of your region by studying wood characteristics visible to the unaided eye, or with a hand lens or microscope.



USDA Soil Conservation Service

# Objectives

## Common To All Programs

1. To develop leadership abilities, build character and assume citizenship responsibilities.
2. To explore career opportunities.
3. To develop skills, knowledge and attitudes for lifelong use.
4. To share knowledge gained with others.

**Letters of appreciation** for support in these programs may be addressed to the following individuals:

### Entomology

Dr. Karl H. Voepel  
Vice President and General Manager  
Mobay Chemical Corporation  
Agricultural Chemicals Division  
P.O. Box 4913  
8400 Hawthorn Road  
Kansas City, Missouri 64120

### Awards

County: Medals of honor  
State: \$75 U.S. Savings Bond  
Sectional: 16 trips to National 4-H Congress  
National: Six \$1,000 scholarships

### Commodity Marketing

Dr. Lloyd Besant  
Vice President  
Education and Publication Services  
The Chicago Board of Trade  
141 West Jackson Boulevard  
Chicago, Illinois 60604

### Awards

County: Medals of honor  
State: Trip to Commodity Marketing Symposium

### Gardening and Horticulture

Mr. Daniel P. Hogan, Jr.  
Vice President & General Manager  
Ortho Consumer Products Division  
Chevron Chemical Company  
575 Market Street  
San Francisco, California 94105

### Awards

County: Medals of honor  
State: \$75 U.S. Savings Bond  
Sectional: 20 trips to National 4-H Congress  
National: Eight \$1,000 scholarships

### Agricultural

Mr. Jack D. Michaels  
President, Agricultural Equipment Group  
International Harvester Company  
P.O. Box 66930  
AMF O'Hare, Illinois 60666

and

Mr. William M. Jones  
President  
Agri Products Group  
Ralston Purina Company  
Checkerboard Square  
St. Louis, Missouri 63164

### Awards (Tentative)

County: Medals of honor  
State: Trip to National 4-H Congress  
National: Six \$1,000 scholarships

### Plant and Soil Science

Mr. Luther C. McKinney  
Senior Vice President  
Corporate Affairs and Corporate Secretary  
The Quaker Oats Company  
Merchandise Mart Plaza  
Chicago, Illinois 60654

### Awards

Sectional: 18 trips to National 4-H Congress  
National: Six \$1,000 scholarships, Six trips to National 4-H Congress

## Individual Plant Science Programs Give 4-H'ers the Opportunity to:

### Agricultural

- Develop in self and others, a knowledge and respect for agriculture and its importance to the community and to international economy.
- Develop skills that contribute to profitable, efficient farming/ranching and a satisfying way of life.
- Adapt and apply the best management practices and beneficial results of research to farming/ranching.
- Help others improve their farming/ranching skills and standard of living.
- Help the family achieve progress in farming/ranching, family life and community involvement.

### Gardening and Horticulture

- Learn basic principles of plant science.
- Learn to plan, care for, and manage vegetable and/or flower gardens, lawn or commercial horticultural crops.
- Learn effective, safe methods of pest control and management.
- Produce vegetables and fruits for year-round use to improve family production.
- Explore all aspects of gardening including its therapeutic role, and its relationship to agriculture production.

### Entomology

- Identify insects.
- Study insects and their relationship to agriculture products, public health, and natural resources.
- Learn effective, safe methods of insect control and management.

### Commodity Marketing

- Learn basic economic marketing and management principles of a free marketing system.
- Investigate the cash and futures markets.
- Apply economic marketing and management principles and tools to other 4-H projects.

### Plant and Soil Science

- Learn basic biological facts about plants and soils including plant growth factors, plant reproduction, plant characteristics and utilization of plants.
- Apply knowledge gained about plants and soils through experiment either in a laboratory or field setting.
- Develop integrity, cooperation, and public speaking skills through participation in demonstrations, judging, tours, presentations, and/or exhibits.



# Ideas to Help 4-H'ers Grow in Plant Sciences

## Agricultural

- Develop a pictorial display of farm equipment through the years. Study how development of modern equipment has helped increase yields.
- Build a model showing the different ways fields are plowed to prevent soil erosion. Explain which are best for each type of terrain. Exhibit the model at a local shopping center.
- Establish a seed development test plot for your school. Plant the same kinds of seeds in different kinds of soils; see which kinds of soil are best for each particular crop's early stages of development.
- Explore ways weather affects crop production around the world. Which crops grow best in warm climates? Wet? Dry? Cold? Windy?
- Draw a map of the world, proportioning the size of each country in relation to the amount of the world's food it supplies. Which country supplies the most food?
- Plan a farm-city exchange. Invite urban families or school classes to tour a farm and show them how food is grown and processed.
- Make an exhibit for use in local supermarkets or public places, showing each of the food products grown in your own county. Include products that have uses other than in our daily diet.
- Make puppets for a show for younger children. Write a puppet skit designed to explain how a food item moves from production to consumption.

## Commodity Marketing

- Learn how to program a computer to keep track of marketing records and trends.
- Study the effects of advertising on consumer decision making. Write two or three different ads for the same product, then let people decide which ad would make them buy the product. What influenced them the most?
- Visit a farmer co-operative; learn how it works and why co-operatives were begun.
- Organize a club garden for fun and profit. Develop a marketing plan to make money from your products. Use your profits to buy seed and tools for your next garden.
- Research the ways futures speculation can affect everyday prices, and how consumers affect market prices on common goods.
- Research the ways weather has affected market prices of goods through the history of your county or state. Make a graph of market fluctuations.
- Write a play for younger children focusing on a single commodity; follow it from production to the consumer.
- Study all aspects of marketing. Explore influences such as weather, supply, demand, transportation and international trade on marketability of individual commodities.
- Learn how international politics affect commodity prices. For example, how have grain embargos been used in politics? What effects did they have?

## Entomology

- Create demonstrations designed to show the beautiful side of entomology—"How to Preserve/Display Insects in Plastic," or "Entomology Creative Wall Hangings."
- Capture bee swarms and start a honeybee business. See March issue of NATIONAL 4-H NEWS.
- Learn how to judge insects and collections for entomology competitions.
- Learn the signs of elm leaf beetle. Survey the community for them, inform homeowners of the problem and how to control it.
- Start a community campaign to rid public areas of fire ant beds.
- Design a scrapbook that presents the wide variety of insect colors. Group drawings or pictures of insects by their most

dominant color and explain why that color is good for the insect.

- Research insecticides and pesticides. Find out which are being used in your community and develop a plan to inform citizens how to use and store them safely.
- If an integrated pest management (IPM) program is being conducted in your county, spend a day with an IPM scout checking fields for pests and beneficial organisms. Work with your county Extension agent to see if your club can get involved in an integrated pest management scouting project.
- Check to see if any insecticides or pesticides are applied by crop dusters in your county. If so, arrange to talk to the pilot and watch how it is done.

## Gardening and Horticulture

- Hold a taste-testing demonstration of a variety of types of the same vegetable or fruit. Explain why each type of fruit/vegetable tastes different, and how each is best used.
- Plan a landscaping competition. Distribute diagrams of a public area (a park, for example) and let each participant draw a landscape plan for most efficient public use. Local landscape architects and county Extension agents might serve as judges.
- Plant a club flower garden, and harvest flowers for bouquets to be sent to nursing homes, children's hospitals, or orphanages.
- Build a road-side stand for the club members to use for selling vegetables. Have members work on a marketing plan for their produce.
- Organize a 4-H farmers' market for club members from all around the county. Set up committees to handle arrangements, advertising, finances and government permits as necessary.
- Volunteer to do groundwork for senior citizens or nursing homes.
- Ask a local florist to teach a class in flower arranging to younger members or school children.
- Compare the taste, color, crispness and longevity of identical foods when they are canned, dried or frozen. Which do your club members prefer? Why?
- Donate fresh, canned, dried or frozen produce to low income families.
- Hold a joint meeting with the National Junior Horticulture Association. Plan a joint event with your 4-H members.

## Plant and Soil Science

- Study different varieties of fertilizer; which are best for the conditions in your area? Why?
- Take a tour of an organic farm. How does this type of farming differ from more conventional styles?
- Visit a soil analysis lab. What is soil composed of? How many different types of soil are there? What grows best in each kind?
- What kinds of weeds cause the most problems in your area? What weed control methods are used in your area? Which are most efficient? Which are most cost effective?
- Set up a soil testing booth at a local garden store; analyze soil for people and tell them what they need to add to their soil for best quality.
- Acid rain—what are its effects on plants and soil in your area? Work with the county Extension agent to research this question.
- Conduct a comparative study of fall plowing versus spring plowing versus no-till methods. Which is most productive? Why?
- Visit a local bank to learn about farmer loan applications. What does the bank take into consideration in granting a loan? What kind of information must the farmer supply?
- Research how soils vary around the world. How does this affect the kind and amount of production in other countries?

# Mix and Match

## Ideas That Work

**O**ften, ideas that work for one project area in 4-H can easily be adapted to work in two or more areas. That's because the underlying theme of all 4-H projects is developing good leadership and citizenship skills; becoming an active, concerned member of the community, the country and the world. Listed below you'll find some activities that may cross over within the two umbrella areas of natural resources and plant sciences. You'll also find activities that will cross over between the two umbrella areas as well as into other 4-H projects. These activities will all relate directly to the first three general objectives listed on pages 2 and 4. They are measures of your 4-Hers' growth and development and all aid in learning to keep records.

- Plan a conservation conference for one day, overnight or several days with other 4-H clubs. Conduct joint forestry/woodworking/wildlife/conservation projects. You might choose making bird feeders or wood duck nesting boxes, building your own flats for tree seedlings, or building fire prevention signs or trail markers for forests. Choose appropriate woods for strength, durability and economy. Study how your project will help the ecological system and aid mankind. Contact local agencies to request a wildlife management specialist, biologist, forest ranger or soil conservationist to teach workshops.
- Meet with your local city parks commission. Determine where parks need picnic facilities, benches or bird feeders. Construct these items out of materials donated by local merchants, or purchased through produce stand sales. Arrange for your local newspaper to follow you through the construction phases, and provide overall photo coverage of your club's efforts.
- Conduct a community-wide pollution alert. Check for pollution in your area lakes, streams, forests and air. Alert the public to what you found out, by inviting local media to a press conference. Build a display with your test results on it, and set up a stand at local shopping areas, to inform people as to how they can help conquer pollution. Write anti-pollution public service announcements for radio.
- Hold a storybook hour at local libraries and/or book stores. Notify parents through their children's schools. Feature stories that deal with different kinds of insects, forests or wildlife and that teach good conservation lessons. At the end of each reading session, show things that relate to the story—an insect collection, different types of tree leaves, pictures of wildlife species. Teach the children how to conserve these forms of life.
- Organize a 4-H tree care team. Alert citizens in your community that these special teams have special knowledge of tree care, and are available to help people who have diseased trees, need to know how to prune, or want landscaping advice. Promote the teams through radio public service announcements and stories in your local newspaper. You might have the teams charge for their services, as part of club fund-raising activities.
- Develop a slide set on the wildlife and forests in your area. Make the program relevant for grade school children, to teach about resources and how they contribute to the economy and quality of life. Notify schools of the set's availability, and find a local donor who might pay to have sets duplicated for each school.
- Work with a social service agency in your community, to find handicapped people who might enjoy windowsill gardening. Club members can make the windowsill boxes, raise money for other supplies, and be assigned to follow through at various locations to be sure that handicapped people have help in planting gardens, growing and harvesting. Let your local newspaper and television sta-

tions know what you're doing—this kind of story is very visual, as well as good feature material.

- Develop a program for classroom children which shows a commodity at various stages—from planting the right seeds for your soil type, to growing, coping with insect and weed problems, harvesting, developing a marketing plan and distributing the commodity. You might even go so far as to develop a hands-on commodity marketing program, where a class plants a vegetable, grows and harvests it and then decides how to sell it for the best profit.
- Start a lawn-medic team. Let citizens know that your 4-H members can help them with problems in their lawns, gardens, shrubs, or flowers, and even indoor plants! Distribute stickers to local nurseries and greenhouses, so they can affiliate themselves with the 4-H effort, by providing information and training for club members. Ask newspapers and radio stations to use public service ads to let people know how to contact your plant doctor team. Volunteer services to senior citizens and low income families.
- Find out what crops are grown in your area for non-food purposes. Follow these crops through the development and harvesting stages. Then tour processing facilities (a cotton processing plant, for example) to see how the product becomes clothing, furniture or other non-food items. Study how these items are marketed and how they compare with similar items made of synthetic products.
- Contact your county or city parks commission. Find a park in need of recreational equipment, or special areas. Volunteer to have your club design and build the necessary equipment with materials donated by local merchants. You may want to try designing an "Adventure Playground," composed of trees, bushes, streams and other natural materials. This Scandinavian design concept uses shrubs to create mazes for children, trees that will grow high enough to climb on or to put swings on, streams to wade in or ice skate on and sandy areas to use as sculpting pits. There would be no synthetic materials in the playground.
- Organize an exchange with a 4-H club in another state. If your state grows rice as its main product, you may want to send club members to a state where wheat or corn is the main product. 4-H members can live on farms for a week or two, and explore how farming varies from one part of the country to another. Have the exchange members take plenty of slides of their trip, showing farming methods at their host farm. Then members can produce a slide show for viewing by their hometown club and in the community.
- Study poisonous plants. Which plants in your home or community are potentially harmful to domestic animals? What kinds of poisons are generated by these plants? What are the antidotes to these poisons? Have your club develop a brochure listing poison plants and remedies. Distribute the brochure to veterinary offices, pet stores, garden shops, florists and civic groups.



# Educational Aids in the Natural Resources

## Conservation

**SL 041 Conservation: A Personal Commitment**, \$12. New introductory slide/tape set to inspire youth in the conservation of natural resources program and stimulate discussion of ways to involve 4-H more in the area of conservation. Useful for club meetings, camping, schools and local civic and conservation groups.

DONOR SUPPORT: John Deere

SOURCE: Educational Aids, National 4-H Council

## Environmental Awareness

Series of six slide/tape sets for all ages, designed to stimulate youth and adults to discover for themselves some of the mysteries and excitement of the natural environment. Activity-oriented leader's guide supports all six slide sets.

**SL 400 Environmental Awareness - Introduction**, \$23

**SL 401 Discovery in the Forest Environment**, \$23

**SL 402 Discovery in the Inland Water Environment**, \$23

**SL 403 Discovery in the Farm Environment**, \$23

**SL 404 Discovery in the Town & City Environment**, \$23

**SL 405 Discovery in the Marine Environment**, \$23

SOURCE: Educational Aids, National 4-H Council

**TV 001 Building a Nature Trail**, \$12. A 90-second, 16mm film highlights building a nature trail for the blind as an activity. Can be used in club meetings, camping & with conservation groups.

DONOR SUPPORT: John Deere

SOURCE: Educational Aids, National 4-H Council

## Forestry

Variety of manuals and slide sets that teach all about trees and forests. Unit A covers trees for ages 9-12. Unit B covers Forests for ages 11-14. The C-Units are advanced forestry units for teens.

**CO 750 Trees** (Unit A member manual) 46c

**CO 751 Trees** (Unit A leader guide) 49c

Two-color manuals include lessons and activities to teach what a tree is and how it grows, how trees reproduce, how to identify trees and why trees are important.

**CO 752 Forests** (Unit B member manual) 51c

**CO 753 Forests** (Unit B leader guide) 42c

Lessons include exploring forests; how forests fit into the ecosystem; how climate, land and soil affect forest growth; how animals, insects and plants affect forest growth; how forests age; forest regions and cover types; and careers.

Advanced C-Units:

**CO 755 Forest Recreation**, 37c

**CO 756 Managing the Forest for Water, Wildlife and Forage**, 37c

**CO 757 Urban Forests**, 37c

**CO 758 Careers in Forestry**, 37c

**CO 759 The Dollar Value of Forestry**, 20c

These above advanced manuals are for those who have completed units A and B of the 4-H forestry program and desire to move into a more specific area of forestry study.

DONOR SUPPORT: International Paper Company Foundation

SOURCE: The Colson Company

Trees and Forests Slide Sets:

**SL 030 What a Tree Is and How It Grows**, \$20

**SL 031 How Trees Reproduce**, \$20

**SL 032 How to Identify Trees**, \$20

**SL 033 Why Trees are Important**, \$20

Supports the subject matter presented in Unit A-Trees. The slide set series, geared for ages 9-12, uses a "friendly" tree to tell the story.

**SL 002 4-H Forestry: An Action Program**, \$25. Shows the importance of the forest industry, growing and conserving trees, and offers suggestions for both individual and group activities.

DONOR SUPPORT: International Paper Company Foundation

SOURCE: Educational Aids, National 4-H Council

## Urban Forestry

**LI 150 What's A Tree To Me?** member manual, \$1.75

**LI 151 What's A Tree To Me?** leader guide, \$1. New forestry project directed toward urban kids and classrooms (ages 9-14), but appropriate for all 4-H'ers in club meetings and camping situations. Teaches how wood is used in daily lives; about hardwoods and softwoods; products we eat from trees; how logs are made into lumber; cardboard and paper production; and how seeds are distributed in nature. Lessons creatively written to interest this age group.

DONOR SUPPORT: International Paper Company Foundation

SOURCE: Educational Aids, National 4-H Council

## Wood Science

These member manuals for ages 9-14, to be used in sequence, teach basic principles of wood science - how to buy and use lumber, and the structure and properties of wood. How to use hand and electric tools is emphasized. Woodworking plans for making items from wood are included in each manual to reinforce the principles of wood science and woodworking.

**CO 100 Working With Wood and Tools** (Unit 1) 46c

**CO 101 The Wonderful World of Wood** (Unit 2) 46c

**CO 102 Building Bigger Things** (Unit 3) 47c

**CO 103 Wood Science Leaders Guide** 44c

DONOR SUPPORT: Weyerhaeuser Company Foundation

SOURCE: The Colson Company

## Wildlife and Fisheries

Series of 50 activity guides allows youth of all ages to study the natural environment of vertebrate animals - fish, amphibians, reptiles, birds and mammals. Lessons for younger members range from learning about crickets, birds, turtles and streams to learning about wildlife foods, urban and backyard wildlife. Older members can study one or more animals, a specific animal habitat or learn a skill, such as identifying animal tracks, making fresh water aquariums or artificial lures, tanning skins or explore wildlife careers.

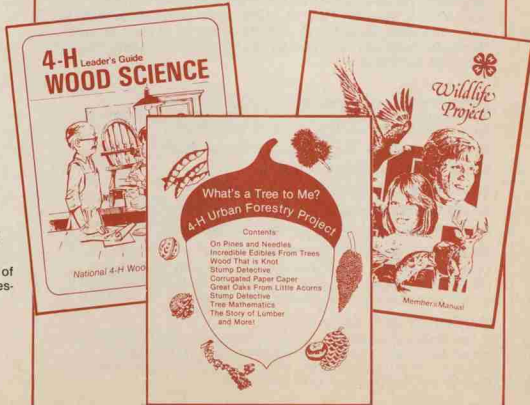
For additional information write:

Educational Aids, National 4-H Council for the free, descriptive 4-H wildlife brochure.

## SOURCE ADDRESSES:

**National 4-H Council**, Educational Aids, 7100 Connecticut Avenue, Chevy Chase, MD 20815. (See shipping and handling charge schedule on reverse).

**The Colson Company**, 4-H Service Dept., 901D N. Main St., Paris, IL 61944. When Colson orders total less than \$20.00, there will be an extra charge of 5c each per item, plus \$1 handling charge. Shipping charges will be added onto all sales and purchases.



# Educational Aids in the Plant Sciences

## Plant & Soil Science

Series includes beginning unit plus five intermediate units. Concepts in beginning manual are expanded in intermediate units, each in a single manual. Intermediate units may be completed in any order. Activities and record form included in each.

*Beginning Member's Manual (ages 9-11)*

**CO 700 Exploring the World of Plants and Soils 37¢** - Introduces the basics of plant and soil science; soils, plant & flower parts, reproduction, how to use and grow plants and effects of environmental factors on plant growth. 21 activities and record sheet included.

*Intermediate Member's Manuals (ages 10-14)*

**CO 701 Plant Reproduction 47¢** - sexual and asexual reproduction; parts of a flower & function of each in reproduction, germinating seeds and breeding new plants by various methods. 18 activities.

**CO 702 Soils 47¢** - soil structure and texture, testing, ability of soil to grow plants, capacity to hold water and nutrients. 18 activities.

**CO 703 Plant Growth Factors 47¢** - interaction of environmental factors, genetics, plant nutrients and growth regulators. 22 activities.

**CO 704 Plant Characteristics 47¢** - things that distinguish/identify plants. More than 20 activities.

**CO 705 Growing and Using Plants 49¢** - different kinds of plants and requirements for proper growth. Activities include growing house plants, a vine, starting a tree from seed, transplanting a tree or shrub, learning to prune. 12 activities.

**CO 706 Exploring the World of Plants and Soils Leader's Guide 31¢** - supports beginning and intermediate units. Planning suggestions, ideas for working with 4-H's, additional resources and a glossary of terms. A Curriculum Matrix for using the guides also included.

*Advanced manuals (ages 15 and older)*

**CO 712 Practical Crop Production member's manual @ 34¢ each.** Discusses factors to consider in growing a crop, care of the crop, harvesting. Project plan and record keeping for growing crops are major activities.

**CO 713 Practical Crop Production leader's guide @ 34¢ each.** Additional information for leader, suggested resource people, ideas for group activities, including community service projects.

**DONOR SUPPORT:** Pioneer Hi-Bred International, Inc.  
**SOURCE:** Available from The Colson Company, 4-H Service Dept., 901D N. Main St., Paris, IL 61944. When total Colson order is less than \$20.00, there will be an extra charge of 5¢ each per item plus \$1.00 handling charge. Shipping charges will be added onto all sales and purchases.

## Floriculture

Series of slide/tape presentations promote interest in floriculture. Emphasis on care and handling of flowers and plants. Geared for younger members (ages 9-11).

**SL 250 Floriculture: Bringing Nature Closer \$22.00**

**SL 251 The Floral Designers \$18.00**

**SL 252 Kevin: The Fresh Flower Expert \$18.00**

**SL 253 Tammy: The Decorative Foliage Expert \$15.00**

**SL 254 Monica: The Flowering Plant Expert \$16.00**

**SL 255 Jack: The Green Plant Expert \$18.00**

**DONOR SUPPORT:** Society of American Florists Endowment  
**SOURCE:** Available from Educational Aids, National 4-H Council, 7100 - D Connecticut Ave., Chevy Chase, MD 20815.

## Gardening and Horticulture

**LI 003 Doors of Adventure @ 20¢.** Six-page pamphlet of garden ideas. Activities include mini vegetable gardens, planting annuals, forcing bulbs, flower arranging, making terrariums, and making and decorating flower containers.

**DONOR SUPPORT:** Ortho Division, Chevron Chemical Company  
**SOURCE:** Educational Aids, National 4-H Council, 7100 Connecticut Ave., Chevy Chase, MD 20815.

## SHIPPING AND HANDLING CHARGE SCHEDULE

If order is \$2.00 or LESS, ADD \$1.20

If order is \$2.01 to \$3.00, ADD \$1.45

If order is \$3.01 to \$6.00, ADD \$1.70

If order is \$6.01 to \$9.00, ADD \$2.00

If order is \$9.01 to \$15.00, ADD \$2.30

If order is \$15.01 to \$20.00, ADD \$2.65

If order is \$20.01 to \$25.00, ADD \$3.00

**ALL ORDERS OVER \$25.00 AND ALL FOREIGN ORDERS, CUSTOMER WILL BE INVOICED FOR ACTUAL SHIPPING CHARGES.**

## Entomology

**SL 003 4-H Entomology: Exploring the Curious World of Insects @ \$18.00.** 80 slides, script and audio cassette promote interest in 4-H entomology program at all levels.

**SOURCE:** Educational Aids, National 4-H Council, 7100 Connecticut Ave., Chevy Chase, MD 20815.

## Commodity Marketing

Defines, in steps, various aspects of marketing and distribution processes. Explains use of cash and futures markets for basic commodities and retail marketing.

**4-H Commodity Marketing member's manual.**

**4-H Commodity Marketing leader's guide.**

**Commodity Marketing slide set**

**DONOR SUPPORT:** The Chicago Board of Trade  
**SOURCE:** Available from Education Services, The Chicago Board of Trade, La Salle at Jackson Street, Chicago, IL 60604.

Write for an order form and price list.



# 1984 4-H DIGEST

## SAFETY AND MECHANICAL SCIENCES

AUGUST/SEPTEMBER

SUPPORTED BY



NATIONAL 4-H COUNCIL

This is the fourth in a series of 1984 4-H DIGESTS providing information about private support to help expand and strengthen your 4-H program.

### Introduction

**S**afety and mechanical sciences are part of every 4-H member's future. 4-H'ers need these skills to function in society today and in years to come and take leadership in helping those around them cope with the challenges they face in a highly technological world.

While this may be an awesome charge, it's fun! Helping young people learn, rise to meet new challenges and succeed is a rewarding part of being a volunteer 4-H leader. The mechanical sciences programs—automotive, bicycle safety, petroleum power, electric energy, and the learn to earn program, coupled with safety—give 4-H members a chance to explore their world and the world of the future; to be creative, study career options, and build a sense of responsibility into their everyday lives. Whether your 4-H members live in a rural environment, in a large city, or in between, you can help them learn, create, enjoy, and enrich their lives through their participation in these programs.

This issue of the 4-H DIGEST is designed to help you give 4-H members the skills they will need throughout their lives and the opportunity for

decision making and leadership that will give them a head start toward adulthood. On page two, you will find specific program objectives established by the Cooperative Extension Service for these programs. You will also find a listing of the organizations that stimulate excellence in these programs by providing incentives, recognition and other support at county, state, regional and national levels. You and your 4-H members will want to write to the individuals listed, to express appreciation for 4-H support.

Page three is an idea page. You'll find special project ideas for each of the programs, and ideas that apply to two or more of these project areas. These ideas relate not only to the broad program objectives for leadership, career exploration, life skills and citizenship but also to the specific objectives listed on page two. They come from members and leaders around the country... and they work!

Page four lists educational aids to help you in the safety and mechanical sciences programs. They include members and leader manuals, slide sets and special publications available to help make learning more fun and more interesting for your 4-H members.

### IMPROVING YOUR LEADERSHIP SKILLS

The 4-H DIGEST is a working tool for you as a leader. You'll find even more help, right in your own community. Start with your county Extension office. In the safety area, you may want to invite safety experts from local manufacturing plants, health organizations, civil defense, fire and police departments, and other local government departments to visit with club members or to conduct tours of facilities to explain safety practices in various settings. Mechanical sciences experts might be found at local automotive and supply dealers, a bicycle shop, lawn care businesses, farm



equipment dealers, gasoline and heating oil dealers, research organizations and your land-grant university. There's one other important resource—local representatives of donor companies who support the national awards programs are more than willing to become involved with you and your 4-H members. So don't hesitate to ask for help on your 4-H projects.

Be sure to keep this issue of the DIGEST. Even if your present leadership role is not in one of these areas, it can serve as a valuable reference for the future. A limited number of copies is available from your state 4-H office.

Letters of appreciation for support may be addressed to the following individuals:

#### **Automotive**

Mr. John J. Nevin  
Chairman & Chief Executive Officer  
The Firestone Tire & Rubber Company  
1200 Firestone Parkway  
Akron, Ohio 44317

#### **Awards**

County: Medals of honor; member patches for best club/group  
State: Trip to National 4-H Congress; member patches to 10 clubs; 1 share of stock to best club; trip for two to the National 4-H Engineering Events.  
Sectional: Share of stock to the top five individuals at National 4-H Engineering Events.  
National: Eight \$1,000 scholarships

#### **Bicycle**

Mr. Harold A. Poling  
Chairman  
National 4-H Council  
7100 Connecticut Avenue  
Chevy Chase, Maryland 20815

#### **Awards**

National: Six \$1,000 scholarships; six trips to National 4-H Congress

#### **Electric Energy**

Mr. David L. Litten  
Vice President, Midwestern Region  
Westinghouse Electric Corporation  
10 South Riverside Plaza  
Chicago, Illinois 60606

#### **Awards**

County: Medals of honor  
State: Trip to National 4-H Congress; trip to National 4-H Engineering Event (East. Div.)  
Sectional: U.S. Savings Bonds to top three individuals at National 4-H Engineering Event (East. Div.)  
National: Six \$1,000 scholarships

#### **Petroleum Power**

Mr. Donald G. Schroeter  
Executive Director  
Amoco Foundation, Inc.  
200 E. Randolph Drive  
Chicago, Illinois 60601

#### **Awards**

County: Medals of honor  
State: Trip to National 4-H Congress; trip for two to the National 4-H Engineering Event  
Sectional: U.S. Savings Bonds to top three individuals at the National Engineering Events  
National: Six \$1,000 scholarships

#### **Safety**

Mr. John W. McNulty  
Vice President, Public Relations  
General Motors Corporation  
3044 West Grand Boulevard  
Detroit, Michigan 48202

#### **Awards**

County: Medals of honor; member patches for best club  
State: Trip to National 4-H Congress; member patches to 10 clubs; one share of stock to best club  
National: Eight \$1,000 scholarships

#### **Learn to Earn**

Mr. Kendrick B. Melrose  
President  
The Toro Company  
8111 Lyndale Avenue, South  
Minneapolis, Minnesota 55420

#### **Awards**

State: Trip to National 4-H Engineering Event (East. Div.)  
Sectional: U.S. Savings Bonds to top three individuals at National 4-H Engineering Event (East. Div.)

**National 4-H Council** is a not-for-profit educational organization that uses private resources to help expand and strengthen the 4-H program. 4-H is the youth education program of the Cooperative Extension Service of the State Land-Grant Universities and the U.S. Department of Agriculture. Programs and educational materials supported by Council are available to all persons regardless of race, color, sex, age, religion, national origin or handicap. Council is an equal opportunity employer.

# Objectives

## common to all programs

### Individual Safety and Mechanical Sciences programs give 4-H'ers the opportunity to:

#### **Electric Energy:**

- Learn the basic principles and theories of electricity.
- Learn the effects electric energy has on man and his environment.
- Use and promote safe practices to prevent personal injury and property damage.
- Learn about efficient use of electric energy through production of heat, light, power, communications and computations.
- Learn about the generation, transmission and distribution of electric energy.

#### **Safety:**

- Learn how to reduce accidents and injuries, recognize and correct hazards, and think and practice safety.
- Encourage the entire family to become safety conscious.
- Learn how safety can be applied to any 4-H program or project.

#### **Bicycle:**

- Create an awareness of the recreational, family and health applications of cycling.
- Learn and obey rules of the road and laws pertaining to bicycles and bicycle driving.
- Develop a clear knowledge of bicycle safety and proper bicycle driving behavior.
- Learn care and maintenance of the bicycle and how to select a bicycle that best fits the size and needs of the driver.
- Demonstrate skills for effective use of the bicycle.

#### **Learn to Earn:**

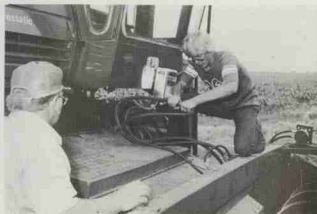
- Learn how to start a business.
- Learn what equipment to purchase.
- Learn how to handle power equipment safely.
- Learn proper operation and maintenance of lawn care and snow removal equipment.
- Learn advertising techniques to attract customers.
- Learn how to keep records.
- Learn effective salesmanship.
- Develop good business practices.

#### **Petroleum Power:**

- Learn to safely operate, troubleshoot and maintain engines and related equipment.
- Understand the production, selection, use, conservation and handling of fuels and lubricants.
- Develop buying habits based on cost benefit analysis.
- Develop an appreciation and respect for the environment, rights and property of people.
- Practice and promote wise use of energy.
- Learn about and abide by federal, state and local laws and regulations regarding operation of petroleum powered equipment.

#### **Automotive:**

- Learn the importance of the motor vehicle to the American way of life.
- Learn highway safety and courtesy.
- Learn traffic regulations and other laws related to operating and owning motor vehicles and the importance of following those laws.
- Learn to perform elementary car maintenance.
- Learn the basic parts of a car and the principles of their operation and maintenance.
- Learn the principles of force, speed, center of gravity, etc., applicable to safe motor vehicle operation.
- Learn the economics of efficient purchase and operation of an automobile and how to keep and interpret a record of cost ownership.



# Ideas to Help 4-H'ers Go Safely

National 4-H Engineering Events are sponsored by Amoco Foundation, Inc. and Firestone Trust Fund, Westinghouse Electric Corporation and The Toro Company also sponsor events in the Eastern Division. Western competition Sept. 18-20 in Omaha, Neb. Eastern competition Sept. 24-26 in Richmond Va. Contact your County Extension Office for more information.

## Automotive

- Develop a safety exhibit for schools and civic organizations, featuring use of seat belts and child restraints.
- Work with a local auto dealer to make up auto emergency kits including flares, flashlights and printed information on auto emergencies. Distribute the kits for a nominal fee through local gas stations.
- Hold a car hazard hunt clinic for the community. Have 4-H members work with local mechanics to offer free inspections of cars and recommend repairs if needed.
- Experiment with fuel conservation—how much fuel does an untuned car use? Tune it, and compare the increase in mileage.
- Work with your local senior citizens center to hold an auto repair clinic for seniors. Provide information on maintenance and listings of estimated repair costs.
- Explore an antique car. See how technology has changed over the years, and list ways automotive design and engineering have improved.

## Bicycle

- Start a bicycle safety column in your local newspaper. Work with the editor and have club members take turns writing columns on different aspects of bicycle safety and maintenance. Include information on what to look for when buying a new or used bicycle.
- Form a bicycle restoration team. Clean up and repair old bicycles to donate to needy youngsters in your town.
- Invite a physical therapist to speak to your club. Learn how bicycling is used in physical therapy; what parts of the body it exercises; and how to bicycle effectively for exercise and therapy.
- Work with local radio stations to have 4-H members produce public service announcements on bicycle safety.
- Plan special bicycle tours such as historical field trips, ecology tours and campouts.

## Electric Energy

- Get into computers! Work with a local computer dealer to have club members learn how to use computers, how systems vary and how to design programs.
- Build a solar generator. Study how solar power can be used, and decide on how your club wants to use its solar energy.
- Visit a farmer's wind mill and learn how wind generates power, how wind power varies, and how it is used today.
- Make a list of alternative energy sources. What are the assets and drawbacks of each kind? Which kind of energy is most cost efficient? Develop a display on alternative energy uses for use in shopping malls and other public areas.
- Invite an electrician to visit with your club to explain what his or her job encompasses and what career options are available in the world of electric energy.
- Do a home lighting analysis. Visit a club member's home, and discuss the kinds of lighting used in various rooms. Are they effective? Do they provide adequate light for the kinds of activities taking place in each room? How can lighting be improved?
- Talk to a vision specialist. Discover how lighting affects vision. Study light-related eye diseases and how they can be prevented or treated.
- Hold an "Amp Camp" for a day. Invite local power company officials to speak and give demonstrations to the campers about how electricity is generated, how it is used, how to read meters, and how to use energy efficiently.

## Learn to Earn

- Organize a community service project to provide lawn care for a roadside park, a nursing home, or other community

facility. Be sure to check with local government for approval of your plan.

- Invite local park service personnel to tell your club members how public landscape areas are maintained in your town. How are fertilizers, seeds and insecticides used?
- Start your own lawn care company—advertise your club's services to the community through store signs, community papers, fliers. Use money to fund other 4-H projects.
- Tour a local lawn maintenance facility—find out what types of equipment they use, how they use them, and how they schedule work.

## Petroleum Power

- Overhaul an antique tractor and learn how engineering techniques have changed over the years.
- Visit a diesel mechanic and discover what makes diesel engines work. How are they different from regular gasoline engines? How does their maintenance vary?
- Hold a community clinic on small engine safety—ranging from lawnmowers to small tractors and motorcycles.
- Have a county-wide career day. Invite professionals in the petroleum power industry, and set up booths featuring different career options.
- Conduct a farm safety survey among young people in your area. How many accidents have there been? What kinds of injuries have been suffered? What has been the reason for most of the accidents? Follow up with printed brochures on farm safety, distributed through public schools.
- Organize a motorcycle safety and maintenance clinic. Work with local schools to publicize the clinic and invite local dealers to volunteer their services in providing maintenance and safety information.

## Safety

- Work with local schools and police to start "Talking Bus" and "Talking Police Car" programs. The bus can be engineered with tape recorded messages on riding school buses safely. The police car may feature tapes on pedestrian safety. These vehicles can be used through local school systems, and geared especially to inform younger children.
- Spend a day in a shopping mall parking lot, cleaning windshields. Leave fliers on the windshields, saying "The 4-H club took time to wash your windshield, so please take the time to drive safely."
- Study stands your state and national legislators have taken on drinking and driving legislation. What do their voting records indicate? How can you influence their positions?
- Work with your local school system to conduct a safety hazard hunt. Check for faulty electric work, cracked sidewalks, access for the handicapped, fire hazards, special hazards in vocational education areas or in physical fitness facilities. Devise a plan for repairs to submit to the school board or local government.
- Since most home fires occur during the night, arrange for nighttime fire drills and escape routes with 4-H club member families and others. After drills are conducted, report back on how disorientation affected the family. What kinds of problems occurred?
- Conduct a toy hazard hunt at local nursery schools or day care centers. Are the toys safe? Have you club members repair toys and/or recommend safer toys to schools.
- Conduct a safety clinic for motorcycles, all-terrain three-wheel vehicles and other types of small recreational vehicles used by young people under the age of 16. Distribute safety and maintenance information.

# Educational Aids

## Automotive

This series of publications covers automotive vehicles, what makes them operate, highway safety, traffic codes, driver responsibility, vehicle costs, maintenance, record keeping and vehicle inspection.

- CO 600 The Car and the Highway (Unit 1 member's) @ 58¢
- CO 601 The Car and the Highway (Unit 1 leader's) @ 31¢
- CO 602 Maintenance and Operation (Unit 2 member's) (availability & price later)
- CO 603 Maintenance and Operation (Unit 2 leader's) @ 31¢
- CO 604 Safe & Easy Motorcycle Manual @ 66¢
- CO 605 Automobiles and Energy @ 30¢
- CO 606 Know Your Limits (Drugs & Driving) @ 29¢
- CO 607 Automotive Careers @ 22¢
- CO 608 The Basics of Car Buying (availability & price later)
- CO 609 Restoring and Customizing Cars (availability & price later)
- CO 610 4-H Wheels Program Kit @ \$35.00. Bright red binder includes 180 slides, cassette tape and scripts; 12 unit guides for leaders; samples of 12 worksheets for members; and a sample participation certificate to support the automotive "Wheels" program.

"Wheels" Member Worksheets (in pads of 25 copies each) @ 60¢ per pad

- CO 611 Car Identification
- CO 612 New Road Signs Identification @ \$1.35
- CO 613 Engine Parts and Functions
- CO 614 Power Train & Brake System Parts
- CO 615 Tire Inspection & Evaluation
- CO 616 Used Car Checklist & Costs of Buying a Car
- CO 617 Car Inspection Checklist
- CO 618 What Does It Cost to Operate a Car?
- CO 619 Map Symbols, Planning a Trip, Trip Expense Record
- CO 620 First Aid & Emergency Equipment Checklist
- CO 621 Can You Identify These Parts & Equipment?
- CO 622 Causes of Accidents
- CO 623 Participation Certificate

DONOR SUPPORT: Firestone Trust Fund

SOURCE: The Colson Company

FI 001 Driver in Command film @ \$40.00. Seven-minute, 16mm film explains how to conduct an automotive event.

SOURCE: Educational Aids, National 4-H Council.

## Bicycle

These guides cover bicycle selection and maintenance for 9-14 year olds; also personalizing your bike and bicycling for fun.

- CO 625 Your Bike & You (Unit 1 member's) @ 10¢
- CO 626 Maintaining Your Bicycle (Unit 2 member's) @ 13¢
- CO 627 Enlarging Your Cycling Knowledge (Unit 3 member's) @ 12¢

DONOR SUPPORT: The Goodyear Tire & Rubber Company

SOURCE: The Colson Company

Nine slide sets supplement the 4-H bicycle program. These are available at varying prices and cover specific topics such as brake systems, changing tires, wheel maintenance, accessories, the tool kit and bicycle driver responsibilities.

SOURCE: Educational Aids, National 4-H Council.

## Electric Energy

Series of member manuals and leader guides teach everything from the fundamentals of working with electricity to introducing basic electronics. For all age groups.

- CO 001 Exploring the World of Electricity (Unit 1 member's) @ 44¢
- CO 002 Exploring the World of Electricity (Unit 1 leader's) @ 37¢
- CO 003 Electricity's Silent Partner - Magnetism (Unit 2 member's) @ 38¢

CO 004 Electricity's Silent Partner - Magnetism (Unit 2 leader's) @ 32¢

CO 005 Working With Electricity (Unit 3 member's) @ 46¢

CO 006 Working With Electricity (Unit 3 leader's) @ 25¢

CO 007 Electricity for Family Living (Unit 4 member's) @ 57¢

CO 008 Electricity for Family Living (Unit 4 leader's) @ 25¢

CO 009 Behind the Switch (Unit 5 member's) @ 51¢

CO 010 Behind the Switch (Unit 5 leader's) @ 26¢

CO 011 Introduction to Basic Electronics (Unit 6 member's) @ 93¢

CO 012 Introduction to Basic Electronics (Unit 6 leader's) @ 44¢

DONOR: Westinghouse Electric Corporation

SOURCE: The Colson Company

## Energy

LI 401 Energy Bibliography @ \$1.00. Provides descriptions and ordering information for educational literature, visual aids, curriculums, activities and packaged program kits.

SL 019 Energy: What's Ahead for Us? @ \$27.00. Slide set presents youth's view of the energy situation - results of a 4-H Intern survey of 4-H'ers at the National 4-H Center. 128 slides, tape & script.

SL 021 The Energy Event @ \$22.00. Slide set discusses the energy crisis and what youth, as part of their responsibility, can do about it. Seventy-three slides, tape and script.

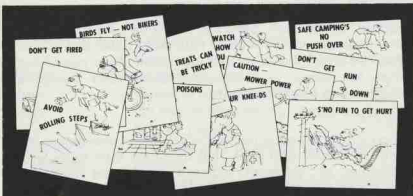
SOURCE: Educational Aids, National 4-H Council

## Safety

CO 206 Safety Posters @ \$1.75 per set. Series of 12 color safety posters geared for the younger age group. Covers holiday and home safety. Printed lesson and outline on the back of each poster. An accompanying leader's guide is available free of charge.

DONOR SUPPORT: General Motors  
SOURCE: Posters, the Colson Company. Leader's Guide, Program Services, National 4-H Council.

SAFETY FOR ALL SEASONS



## Petroleum Power

Learn to Earn is designed to teach teens life skills by directing them through a business venture. Teens can set up a year-round yard maintenance business - either lawn care or snow removal - and "earn" while they "learn." Teaches how to buy and maintain equipment, advertising techniques, record keeping, salesmanship and good business practices.

- LI 020 Learn to Earn Lawn Care (member's) @ 25¢
- LI 021 Learn to Earn Lawn Care (leader's) @ 40¢
- LI 022 Learn to Earn Snow Removal (member's) @ 30¢
- LI 023 Learn to Earn Snow Removal (leader's) @ 20¢
- LI 058 Learn to Earn slide set @ \$12.00

PR 095 Guidelines for Implementation - FREE

CE 9050 Learn to Earn Project Certificate - FREE

DONOR SUPPORT: The Toro Company

SOURCE: Educational Aids, National 4-H Council.

## Small Engines

- CO 850 Small Engines (Unit 1 member's) @ 43¢
- CO 851 Small Engines (Unit 1 leader's) @ 35¢
- CO 852 Small Engines (Unit 2 member's) @ 32¢
- CO 853 Small Engines (Unit 2 leader's) @ 30¢
- CO 854 Small Engines (Unit 3 member's) @ 51¢
- CO 855 Lawn & Garden Power Equipment (leader's) @ 29¢

## Tractor

- CO 675 Getting Acquainted With Your Tractor (Unit 1) @ 66¢
- CO 676 Assuring Safe & Efficient Operation (Availability & price later)
- CO 677 Improving Your Skills (Unit 3) @ 62¢
- CO 678 Machinery Care & Safety (Unit 4) @ 66¢
- CO 679 Tractors Manual & Demonstration Guide (Availability & price later)

DONOR SUPPORT: Amoco Foundation, Inc.

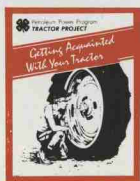
SOURCE: The Colson Company

## SOURCE ADDRESSES:

Educational Aids, National 4-H Council  
7100 Connecticut Avenue  
Chevy Chase, MD 20815

## The Colson Company

4-H Service Dept.  
901 N. Main St.  
Paris, IL 61944



TO: County 4-H Councils  
FROM: 1984-85 State 4-H Council  
RE: State Project Contest Update

Please read carefully as some changes in the contests have been made.

1. ESSAY CONTEST: Write an essay in which you discuss the topic assigned to your age category. There is no limit on the amount you write, however, please be courteous of the judges who must read many papers. The topics for the Essay Contest are as follows:

Junior Division (9-13) - Write an essay on what you feel is the most valuable communications skill and explain why.

Senior Division (14-19) - Write an essay on what role communications will play in 4-H in the future.

2. VIDEO PROMOTION CONTEST: During the state project retreat, February 8-10, we will be providing 4-H'ers a chance to make a television commercial. It will be the 4-H'ers' responsibility to write the script and act. The judges will be looking for originality, creativity, and information included. Obviously, at the Raleigh Inn, we will be unable to provide any dramatic effects or scenery. However, don't let this discourage your creativity. Take for instance, you want to stage your commercial in front of a lake, then simply say on the tape, "We are in front of a lake." The three that the judges feel have the most potential will be retaped before Congress and will include scenery and other effects. They will then be shown at Congress and sent to television stations across the state. These commercials may be done individually or as a team. We are asking, though, that you send a brief synopsis of your commercial to the State 4-H Office with your registration for the weekend by January 11, 1985. Everyone is encouraged to participate.

3. AUDIO PROMOTION CONTEST: The Audio Promotion will be a commercial to be played on radio. These will be limited to one minute and will be judged strictly on creativity and information included. Any ordinary cassette tape recorder can be used. The top five entries will be retaped during Congress week. (If winner is unable to attend Congress, other arrangements for retaping will be made.) The retaped version will be played at Congress and sent to radio stations across the state.

4. CHALLENGE VII: Details for the Challenge VII program were sent earlier. However, please add the Video Promotion Contest under the 4-H promotion column.

Prizes will be awarded to all contest winners. These will be disclosed at a later date. Unless specified otherwise, all contest deadlines are May 15, 1985.

Much hard work has gone into the planning of this year's project. Now it is your turn to promote it in your county and see that everyone participates. If the state officers can be of any service to your program, please do not hesitate to contact us. Also we would appreciate being put on your county newsletter mailing list. Our college addresses are listed on the back of this letter. Thanks for your cooperation.

Letter edited by Charlie Helms, State Council President.

President

Charlie Helms  
NCSU 405-C Lee  
P.O. Box 15653  
Raleigh, NC 27607

Vice President

Meredith Renfrow  
Weil Hall, Box 1243  
UNC-G  
Greensboro, NC 27412-3801

Secretary-Treasurer

Bobbie Noble  
6827 Cone Dorm  
UNC-G  
Greensboro, NC 27412-5001

Reporter

Ivan Barnes  
NCSU 305 Becton  
P.O. Box 03769  
Raleigh, NC 27607

Appendix B - Donor List - Update

Personal Appearance Project

J. Talbot Capps  
Capps Bookstore  
1601 West Vernon Avenue  
Kinston, NC 28501

Entomology Project

AAA Pest Control Inc.

Mr. Bobby Moffitt  
P.O. Box 1757  
Asheville, NC 28802

Artistic Arrangement (Jr. Division)

Federation of Garden Clubs of N. C.

Mrs. Martha H. Terrell  
1323 Bothwell Street  
Greensboro, NC 27406

Landscaping (Sr. Division)

N. C. Association of Nurserymen

Mr. William A. Wilder, Jr.  
Executive Secretary, N. C. Association of Nurserymen  
Route 3, Box 397  
Knightsdale, NC 27545

Turkey Barbecue Demonstration

N. C. Poultry Federation

Mr. Benny Lybrand  
Cuddy Farms  
P.O. Box 668  
Marshville, NC 28103

Mr. Ed Woodhouse  
Executive Director  
N. C. Poultry Federation  
P.O. Box 2431  
Raleigh, NC 27682

Horticultural Contest

N. C. Pick-Your-Own and Roadside Market  
Operators Association

Mr. Louis Driver  
P.O. Box 445  
Middlesex, NC 27557

September 18, 1984

MEMORANDUM

TO: Extension Agents, 4-H

FROM: Ivan Barnes, State 4-H Reporter

*Juan Barnes*

RE: State 4-H Newsletter and Scrapbook Proposal

The deadlines for county and district news articles are:

November 9, 1984  
January 25, 1985  
April 26, 1985  
June 21, 1985

In addition to county and district news, this year's edition of the newsletter will include messages from your state officers and State 4-H Leader, and update on this year's state project and state activities. Also, please inform your 4-H'ers on the section of the newsletter entitled "4-H'ers Speak." In this column, 4-H'ers will have the opportunity to speak out and to voice their opinion of state 4-H activities. This section is also open to agents.

Also this year, I ask that you, county agents, expand your mailing of county newsletters to your district and state officers. By sending newsletters to your state council members, we can have more county news for our district newsletters, and in turn, more information for our state newsletter.

This year, in honor of our state project, the state council will sponsor a statewide scrapbook competition. This scrapbook competition will work similar to demonstrations. Each county will sponsor a county scrapbook. These scrapbooks will come together for judging at district activity day. Winning district scrapbooks will be judged during congress. All county scrapbooks will be on display during congress. More information on the competition will be in the first edition of the state newsletter.

Thank you for your valuable time in working with our state project and newsletter.

Listed below is my school and home address:

305 Becton  
P.O. Box 3769, NCSU  
Raleigh, NC 27607  
(919) 737-6633

224 Hayley Street  
Warrenton, NC 27589  
(919) 257-3519

Date: August 28, 1984  
Prepared by: Harriett Blue



## ***national 4-H council***

7100 CONNECTICUT AVENUE, CHEVY CHASE, MARYLAND 20815 • (301) 656-9000

CABLE: NATFOUR, WASHINGTON, D.C.

### **POSITION DESCRIPTION**

**JOB TITLE:** Program Assistant

**PERIODS OF EMPLOYMENT:** Fall, Spring, Summer (Periods vary slightly each year.)

**UNIT:** Programs Division, under the supervision of the Assistant Director, Programs.

**JOB SUMMARY:** This position is responsible for working with Program Coordinators in facilitating educational programs conducted at the National 4-H Center and to carry out any other responsibilities to strengthen the overall programming of the Programs division of National 4-H Council.

**OVERVIEW:** National 4-H Council programs are intense, exciting, learning experiences for 4-H members, leaders, Extension Homemakers, youth and adults from all over the United States and the world. The Program Assistant staff helps make these programs happen by being willing to commit themselves totally to the program and to assist the participants in making the most of their experiences in Washington, D.C. and at the National 4-H Center.

**JOB DESCRIPTION:**

**Field Trip Interpreter:** Responsible for facilitating field trips into the Washington, D.C. metropolitan area to utilize resources in the nation's capital and to provide additional educational experiences for program participants. Educational objectives of programs are supported by field trips and each is accompanied by a program assistant field trip interpreter.

**Program Facilitator:** Assist Program Coordinators in implementing educational programs conducted at the National 4-H Center. This may include making the arrangements for room set ups, AV, entertainment, speakers, transportation, theater, field trips, workshops, recreation or developing specific portions of ongoing programs. This also includes, but is not limited to, working with adults and group leaders, meeting and assisting groups as they arrive, helping to provide recreation and other "free time" activities for the delegates, conducting orientations to Washington, D.C. and Capitol Hill, assisting programs on communications, facilitating assemblies, operating audio-visual equipment, xeroxing and other associated program needs.

Meet and orient groups that are staying at the National 4-H Center.

Other assignments as requested by the Assistant Director, Programs.

**INSERVICE  
TRAINING:**

Employment begins with a week of staff orientation and training. There will be weekly staff meetings and staff training sessions for the professional growth of staff members.

**EVALUATION:**

Each staff member will have an entrance interview, an evaluation report, periodic evaluation conferences and exit interview. Ongoing evaluations will be conducted by program staff under the coordination of the Assistant Director, Programs.

**EXTENSION OF  
EMPLOYMENT:**

Individuals wishing to stay beyond the initial three months employment period may extend for another three months, up to two years, if approved by the Assistant Director, Programs.

Employment for one period (fall, spring, or summer) does not automatically assure continuation for additional periods. Requests for continued employment are reviewed at the end of each period and are considered with the employment evaluation by a review committee as well as the projected program needs.

**QUALIFICA-  
TIONS:**

A minimum of a high school diploma is required; education beyond high school is preferred. Experience in 4-H and leadership roles is desirable. The ability to communicate, orally and in writing; to relate well with others and to assume dynamic leadership is essential. Needs to be flexible and able to work under pressure.

Employment is contingent upon applicant passing health examination, at employee's expense.

Staff members serve as "role models." It is therefore important to be aware of appropriate dress, behavior and conduct while working with the program.

**TERMS OF  
EMPLOYMENT:**

Work week usually consists of 51 hours (40 hours at regular rate of pay and 11 hours at 1½ times regular rate).

The program assistant staff is required to reside at the National 4-H Center. The staff members are housed in the staff residence on campus at 7100 Connecticut Avenue, Chevy Chase, MD 20815. Lodging expenses will be deducted from each pay-check.

BENEFITS:

Program Assistants are hired on a temporary basis for the duration of a specific period (fall, spring or summer). As temporary employees no benefits are offered except coverage under Worker's Compensation, Social Security, Travel Accident Insurance and Hinchcliff Insurance, a supplemental health plan. If employment is extended for an additional period, Program Assistants may be eligible for additional benefits.

LINE OF  
AUTHORITY:

The individuals in this position are administratively responsible to the Assistant Director, Programs.

National 4-H Council is an Equal Opportunity Employer.



# Careers that work

## A Newsletter for 4-H Career Leaders

October 1984

### FOCUS: 4-H DOES INFLUENCE CAREER DEVELOPMENT

#### Research Report Confirms that 4-H Helps Career Development

A recently completed study in Nebraska surveyed former 4-H members 10 to 20 years after their 4-H experience. Participants were randomly selected from six counties of Nebraska. They sent out 488 questionnaires and 318 were returned (65.2%). The questionnaire addressed the specific questions of:

- 1) How the 4-H experience contributed to selection of an advanced education and/or career?
- 2) How the 4-H experience helped them with leadership skills in their occupations and community activities.

The findings of this study relating to adulthood roles in career development are as follows:

- 1) As individuals remained in 4-H over a longer period of time they were more likely to indicate that 4-H influenced their choice of an area of study or their selection of an institution of higher education.
- 2) Males were more likely to say that 4-H influenced their career decision.
- 3) 4-H activities and people involved influenced choice of careers in over 50% of respondents. Of these the volunteer leader was the most significant person to influence career decisions.
- 4) Positive responses to the helpfulness of 4-H activities in preparing for specific roles in adulthood such as conducting a business meeting, teaching one's children, speaking before groups, setting up or starting one's first home away from home.
- 5) 4-H activities that respondents indicated were most helpful in preparing them for adult roles included: public speaking, club tours, demonstrations, judging, and district or county camps.

This study would recommend that more emphasis be placed on career education primarily at the community club level. They suggest that more training be provided leaders to equip them with the knowledge and experience to help youngsters to explore careers.

### Steps to Building Careers into 4-H Project Work

1. Advise the 4-H'er to secure a Career Exploration Project Planning Guide. This guide is general and details things that youth can and should learn at all three levels--9 to 12 year olds, 12 to 14 year olds, 15 to 19 year olds.

2. Help the 4-H'er pick a project that he can concentrate on--an economics component or a careers component. For example, a livestock project might have an economics emphasis which would include developing a project budget and a monthly cash flow projection for the coming year. It might also involve investigating the cost of obtaining a loan and perhaps actually obtaining a loan.

For a career emphasis in the livestock project a 4-H'er could volunteer to work as a veterinarian assistant, or a feedlot packing plant, or work with an agricultural loan officer. This would give the youngster an exposure to a variety of careers within the agricultural area and related to livestock. He could then identify working conditions and fringe benefits available.

3. Help the 4-H'er prepare a Plan-Do-Review report citing goals that they would like to achieve. They should select some learning goals from the project planning guide that help them learn about themselves. Then they should select goals related to a specific project and focus on economics, careers or both.

### Survey of Readers

In an attempt to make this newsletter more widely circulated and to meet the needs of more volunteers, we would like your responses to the following information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

How did you receive this newsletter?

(check one below)

--through the mail \_\_\_\_\_

--4-H agent \_\_\_\_\_

--leaders' association meeting \_\_\_\_\_

Have you shared this newsletter with anyone else?

Yes \_\_\_\_\_ No \_\_\_\_\_ How many? \_\_\_\_\_

Have you used any of the information in the newsletters? Yes \_\_\_\_\_ No \_\_\_\_\_

If so, how? \_\_\_\_\_

What suggestions do you have for future content of this newsletter?

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please return to: Judy M. Groff, Extension 4-H Specialist, Box 7606, Raleigh,  
North Carolina 27695-7606.



**AGRICULTURAL  
EXTENSION  
SERVICE**

*North Carolina State University  
School of Agriculture and Life Sciences*

Office of 4-H and Youth Development  
P. O. Box 5157  
Raleigh, N. C. 27650

October 2, 1984

I have been requested by Lisa Coble, IFYE to Belgium, to include you on the mailing list of her letters. The International Four-H Youth Exchange (IFYE) Program is conducted by National 4-H Council in behalf of the Cooperative Extension Service. Friends of 4-H in Hyde County and the 4-H Development Fund of North Carolina assist in financing this exchange.

Sincerely,

*Pauline E. Moore*

Pauline E. Moore  
Extension 4-H Specialist

PEM:sfw

Newsletter Number 1

"I would like to thank you for sending the 4-H caps. They have all be dispensed and met with much appreciation. I explained to the farmers that I gave the caps to that all of the farmers where I live wear these for protection from the sun's glare. As it happened when I received your package containing the caps we were making hay. As is necessary to make the hay, the weather was hot and beautiful and so it was well understood the effectiveness of the 4-H caps.

A small word about the farming in Belgium. For the most part the farms are small and exist in Wallonia, the francophone southern division of Belgium. I say they are small, which is true, though there are exceptions to this here in Wallonia. However, in Flanders, the Dutch speaking northern region of Belgium, there are large specialized farms - this corresponds with the otherwise more industrialized section of Belgium. Flanders much more resembles much of the U.S. in its progressive agriculture and industry.

Wallonian farms usually have a variety of grains and livestock also - not just one or the other. More specifically, the major crops are: wheat, barley, oats, sugar beets, and corn. Soybeans do not grow here as there is not sufficient good weather.

A curious aspect of this intensive agriculture of Wallonia is a special breed of cattle called the "Blanc Bleu Belge" or White Blue Belge. This is a dual purpose cow which yields milk and is muscular enough to be a meat animal all in one. However, there is not the great quantity of milk given by the Blanc Bleu Belge as is given by the Holstein or other great milk producing breeds. At first glance one might think Belgian milk cows are fat. But this is simply the flexibility of the breed, much benefiting the agricultural mode of Wallonia.

It is very common for the Blanc Bleu Belge to have Caesarean births. This happens in more than 50% of the pregnancies. The reason being the very muscular pelvic area of the mothers, so much that there is no room for the calf to pass.

The people of Wallonia are very friendly and accommodating to visitors. They congregate often in the festivals of their towns which for each community is held three or four times throughout the year. One calls this the "fête" and for each of the festivals there is a soiree for which one goes "au bal." This is just dancing, socializing, and sampling a much prized Belgian product, Belgian beer. These are very good high quality beers and there are over a hundred sorts in this small area.

I'd like to express my appreciation for being accepted for this program. It is truly very special to have an opportunity such as this.

I've enclosed a translated recipe of a speciality dish of Le Rouex, a small town between Mons and Charleroi. This is called "Côtelettes au sauce chasseur" and it is delicious.

For six people:

#### INGREDIENTS

6 pork chops of good size  
salt and pepper  
butter (or margarine)  
6 shallots minced  
tomatoe puree (concentrated) small can  
1 bay leaf  
clove  
150 gr. of sliced mushrooms  
1 cup dry red wine

#### DIRECTIONS

In a large saucepan brown the pork chops in a tablespoon of butter. Salt and pepper to taste. After they have browned, put the pork chops in an oven dish and place the chops in the oven at 350°.

In the same saucepan leave the butter and proceed to make the sauce. Put the six shallots in the pan to sauté for six or seven minutes. Put in three tablespoons of the tomatoe purée and 250 gr. of water ( $\frac{1}{4}$  l.), the bay leaf, the clove, salt and pepper. Simmer for eight minutes. Add the cup of red wine and the mushrooms. The dish is ready after the pork chops have finished cooking in the oven and are put back in the sauce for half an hour. This is delicious and one samples it best when served with rice or potatoes and salad."

Until next time,

Lisa Coble



**AGRICULTURAL  
EXTENSION  
SERVICE**

*North Carolina State University  
School of Agriculture and Life Sciences*

Office of 4-H and Youth Development  
P. O. Box 5157  
Raleigh, N. C. 27650

September 21, 1984

I have been requested by Glenn Edmisten, IFYE to Taiwan, to include you on the mailing list of his letters. The International Four-H Youth Exchange (IFYE) Program is conducted by National 4-H Council in behalf of the Cooperative Extension Service. Friends of 4-H in Caldwell County and the 4-H Development Fund of North Carolina assist in financing this exchange.

Sincerely,

*Pauline E. Moore*

Pauline E. Moore  
Extension 4-H Specialist

PEM:sfw

**Newsletter Number 3**

Greetings again from Taiwan, Republic of China. This is newsletter number three in a series of newsletters from Taiwan. In this newsletter we will examine the top three festivals in Taiwan. These festivals are the Dragon Boat Festival, the Moon Festival, and the Chinese New Year Festival.

The Dragon Boat Festival is also referred to by the Chinese as the Double-Fifth Festival because it occurs on the fifth day of the fifth month of the lunar calendar. This date in 1984 falls on June 4 as on the Gregorian calendar used by westerners.

The festival is associated with the death of poet-statesman, Chu Yuan, in 299 B.C. Chu Yuan drowned himself to call public attention to his unheeded appeals for government reform. His appeals had led to his dismissal as Minister of the Kingdom of Chu. The story says that the many common people who respected Chu Yuan rushed out to save him in dragon boats. They could not find him so they threw rice into the river. There are two possible reasons for their actions. One is that it was to feed the fish so they would not eat Chu Yuan's body, and the second is that the people thought the food would keep Chu Yuan alive. This evolved into the custom of eating glutinous rice dumplings wrapped and cooked in bamboo leaves on the anniversary of the poet's death.

To this day dragon boats compete for supremacy on the anniversary of Chu Yuan's death. The dragon is regarded as holding dominion over water and controls the rainfall. The Dragon Boat Festival welcomes summer and the people look to the dragon to insure adequate rain for crops. In preparation for this festival, all the houses are thoroughly cleaned and the temples are filled with people praying for their ancestors and for themselves. The tables are filled with rice dumplings and other foods. The dragon boat races draw huge crowds and the excitement in the people match those of any other sporting event.

The second big festival is the Moon Festival which falls on the fifteenth day of the eighth month of the lunar calendar. This corresponds to the Gregorian calendar date of September 10 in 1984. The story states that in 2000 B.C. there was a skilled archer, Hou Yik, in the bodyguard of the emperor. On one day ten suns appeared in the sky threatening to scorch the land. On the emperor's order Hou Yik shot nine of the suns out of the sky. His skill greatly impressed the Goddess of the Western Heavens so she commissioned him to build her a palace of jade. Hou Yik did this task very well and was rewarded with a pill of immortality. Before he could swallow the pill, he had to first undergo a year of fasting and prayer. He hid the pill under his pillow where his wife found it and swallowed it. She was immediately banished to the moon where her beauty added to the beauty of the moon. She is still as lovely today as she was almost 4000 years ago.

Moon cakes are always eaten at this festival because they are round like the moon. These cakes are filled with an egg and red bean mixture.

Another legend states that messages inside of moon cakes led to the fall of the Yuan (Mongol) Dynasty in A.D. 1368.

On the day of the Moon Festival the moon is said to be more brilliant than any other day of the year. People flock to riverbanks, parks, mountains, and fields just to stare at the moon.

The biggest festival of the year is the Chinese New Year Festival. This naturally occurs on the first day of the first month of the lunar calendar which in 1984 is February 2 on the Gregorian calendar. The Chinese have twelve year cycles with each year represented by an animal. In 1984 the Rat replaced the Pig, and in 1985 the Ox will replace the Rat. This New Year's Day is always punctuated by a thunderous blast of firecrackers to scare away evil spirits and invoke the gods for their blessings.

Five days before the new year a paper figure of the kitchen god (Tsou Shen) is burned to ascend up to heaven to report on the family. Before this is done a melted sugar or sweet substance is spread on the god's lips. This way the god's lips will be sealed so he can't report any bad items, or at least if he does get his mouth open, only sweet words will come out. Ghost money is also burned to give the god a first class trip. On New Year's Eve a new figure is put up to symbolize the gods return. Before this is done, though, the entire family joins to make the house spotless.

New Year's Eve and the first two days of the new year are public holidays and the holiday spirit stays for weeks. It is also a time for family reunions, which Chinese people cherish. Every form of transportation is filled with people visiting their relatives.

Below is a list of the twelve Chinese Zodiac animals and the years that correspond to them. This way you can see what animal you are and when your next year is.

Rat	-	1888, 1900, 1912, 1924, 1936, 1948, 1960, 1972, 1984
Ox	-	1889, 1901, 1913, 1925, 1937, 1949, 1961, 1973, 1985
Tiger	-	1890, 1902, 1914, 1926, 1938, 1950, 1962, 1974, 1986
Rabbit	-	1891, 1903, 1915, 1927, 1939, 1951, 1963, 1975, 1987
Dragon	-	1892, 1904, 1916, 1928, 1940, 1952, 1964, 1976, 1988
Snake	-	1893, 1905, 1917, 1929, 1941, 1953, 1965, 1977, 1989
Horse	-	1894, 1906, 1918, 1930, 1942, 1954, 1966, 1978, 1990
Sheep	-	1895, 1907, 1919, 1931, 1943, 1955, 1967, 1979, 1991
Monkey	-	1896, 1908, 1920, 1932, 1944, 1956, 1968, 1980, 1992
Chicken	-	1897, 1909, 1921, 1933, 1945, 1957, 1969, 1981, 1993
Dog	-	1898, 1910, 1922, 1934, 1946, 1958, 1970, 1982, 1994
Pig	-	1899, 1911, 1923, 1935, 1947, 1959, 1971, 1983, 1995

This concludes this examination of the three major festivals in Taiwan. Until the next report, farewell from Taiwan. Information for this report came from private talks and the 1983-84 Official Guidebook to Taiwan, Republic of China.

It is always fun to learn a new language, so the fun activity for this newsletter is for those that would like to learn some simple Chinese writing. I have provided the characters for the numbers through 1000. Next newsletter we will give a few basic words for general writing.

Zero	零
One	一
Two	二
Three	三
Four	四
Five	五
Six	六
Seven	七
Eight	八
Nine	九

Ten	十
Eleven	十一
Twenty	二十
Twenty-one	二十一
One hundred	一百
One hundred one	一百零一
One hundred ten	一百一十
One hundred eleven	一百一十一
One hundred twenty one	一百二十一
One thousand	一千

Until next time,

Glenn Edmisten



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September 6, 1984

I have been requested by Glenn Edmisten, IFYE to Taiwan, to include you on the mailing list of his letters. The International Four-H Youth Exchange (IFYE) Program is conducted by National 4-H Council in behalf of the Cooperative Extension Service. Friends of 4-H in Caldwell County and the 4-H Development Fund of North Carolina assist in financing this exchange.

Sincerely,

Pauline E. Moore  
Extension 4-H Specialist

PEM:sfw

Newsletter Number 2

**Section 1:**

Greetings again from Taiwan. This is the second in a series of newsletters about Taiwan, Republic of China. In the last newsletter we took a look at Chinese temples. In this newsletter we will examine a few aspects of the Chinese culture.

The first cultural aspect is the practical method that farmers use to thresh their grain. The grain is piled in the middle of the street. Then as the regular traffic, which is usually heavy, drives over the pile, the grain is threshed. All the farmer has to do then is rake up the grain. This method takes more time than threshing by hand, but it definitely saves on labor. Saving labor is especially important due to the fact that most young Chinese people would rather go to the city to work than stay on the farm.

A second aspect of Chinese culture is the drinking of beer at meals. Many Chinese, especially farmers, like to drink beer, and to drink a lot at their meals. It is considered a way of being polite to toast the other people at your table. There are three types of toasts: (1) soy-i, (2) yi-ban, and (3) gan bei. The soy-i toast involves drinking just a little liquid out of your glass, yi-ban means to drink half of your glass, and gan bei (bottoms up) means to drink all of your glass. An honored guest may be toasted up to

(over)

30 to 40 times at a large meal. Also the Chinese are very insistent that you drink beer with them. It takes strong will power and saying "no" many times before they will allow you to drink anything besides beer. Even then, if you're not careful, and empty your glass, they will refill it with beer before you can have time to refill it with juice or another liquid. Drinking at the meal is one of the few areas that I have found the Chinese to be pushy. In most things they are as nice as they can be.

A third aspect of Chinese culture is the use of motorcycles. In any given street there are, it seems, five motorcycles to every car. These motorcycles carry anywhere from one person to entire families. It is not uncommon to see a family of six riding on one motorcycle. This is very different from the U.S. custom of riding no more than two people. Motorcycles are also much better at carrying things than most Americans realize. I have seen motorcycles carrying fully assembled bicycles, boxes or baskets stacked six feet high, tractor tires, and even refrigerators. Anything that can be tied down and balanced is fair game to be carried on a motorcycle.

I hope this gives you a little more insight about the Taiwanese way of life. It's something that is hard to fully comprehend until you have lived here for a while. It's a great country with a great group of people. Taiwan is definitely a worthwhile place to visit.

## Section II:

For my "fun" area this time I have prepared a short quiz to check your knowledge of the Chinese and Taiwan. T or F will, of course, stand for true or false questions. The answers will follow the group of questions.

- \_\_\_\_\_ 1. The Chinese language has at least ten words that will translate into the English word brother-in-law.
- \_\_\_\_\_ 2. There have been cases of marriages between two deceased Chinese persons.
- \_\_\_\_\_ 3. Taiwan is about half the size of Texas.
- \_\_\_\_\_ 4. Former President Chiang Kai-Shek's birthday is a national holiday in Taiwan.
- \_\_\_\_\_ 5. On the average, Chinese young people leave home earlier in life than American young people.
- \_\_\_\_\_ 6. One of the most popular television programs in Taiwan is "Gilligans Island."
- \_\_\_\_\_ 7. The legal age to drink beer in Taiwan is 18 years old.

8. In a pagoda, does the number of stories have to be even or odd?
9. What do the Chinese consider the five elements?
10. When eating a fish head is it okay to pluck out the eyes and eat them?

Answers

1. True - According to Concise English - Chinese Dictionary Romanized by James C. Quo, there are ten words that mean brother-in-law.
2. True - Occasionally when the oldest son in a family dies before marriage, the family will seek out another family that has had an unmarried daughter of about the same age die. They will then arrange a marriage between the two, so that the custom of the oldest son marrying first may be upheld.
3. False - Texas is about 18 to 20 times as large as Taiwan.
4. True - Chiang Kai-Shek is greatly admired for his wisdom and courage.
5. False - Chinese young people live at home an average of three to five years longer than American young people.
6. False
7. False - There is no age limit for drinking in Taiwan.
8. Odd - Even numbers are considered unlucky.
9. Fire, wood, metal, water, and earth
10. I assume that it is since I have seen over a dozen people pluck them out and eat them.