

# Kansas 4-H Journal

The Family Magazine

August 1985



**Inside ...**

Projects for '85

## Photo Fun Day returns to the fair

Photo Fun Day brings 4-H'ers and their families to the Kansas State Fair for a day of fun and learning.

Seven- to eleven-year-olds are encouraged to participate. All are asked to bring at least one parent. Photo Fun Day is a family activity, says Charlie Lang, state 4-H specialist.

It's an opportunity for youngsters to take pictures of the fair, get the film developed and critique their pictures that same day.

Annually 50 to 60 youths participate. Each participant must pay \$5.50 to \$7 for film processing. 4-H'ers who wish to attend should contact their county Extension office for application information.

4-H families are assigned to groups of eight persons and one instructor as they arrive at photo fun day. A mini-judging session follows the morning of picture taking. For the first time this year, the day will end with a celebration in the 4-H encampment activity room where youths share their pictures with others, are awarded participation ribbons and refreshments are served.

## State winner selected at the fair

The announcement of the state fashion revue award winner highlights the annual Kansas State Fair fashion revue. The winner attends National 4-H Congress in Chicago and models in the fashion revue there.

Lois Redman, state 4-H specialist, notes that judging for the state awards selection consists of two parts — modeling and records. Judges select a number of outstanding models and records of these contestants are judged.

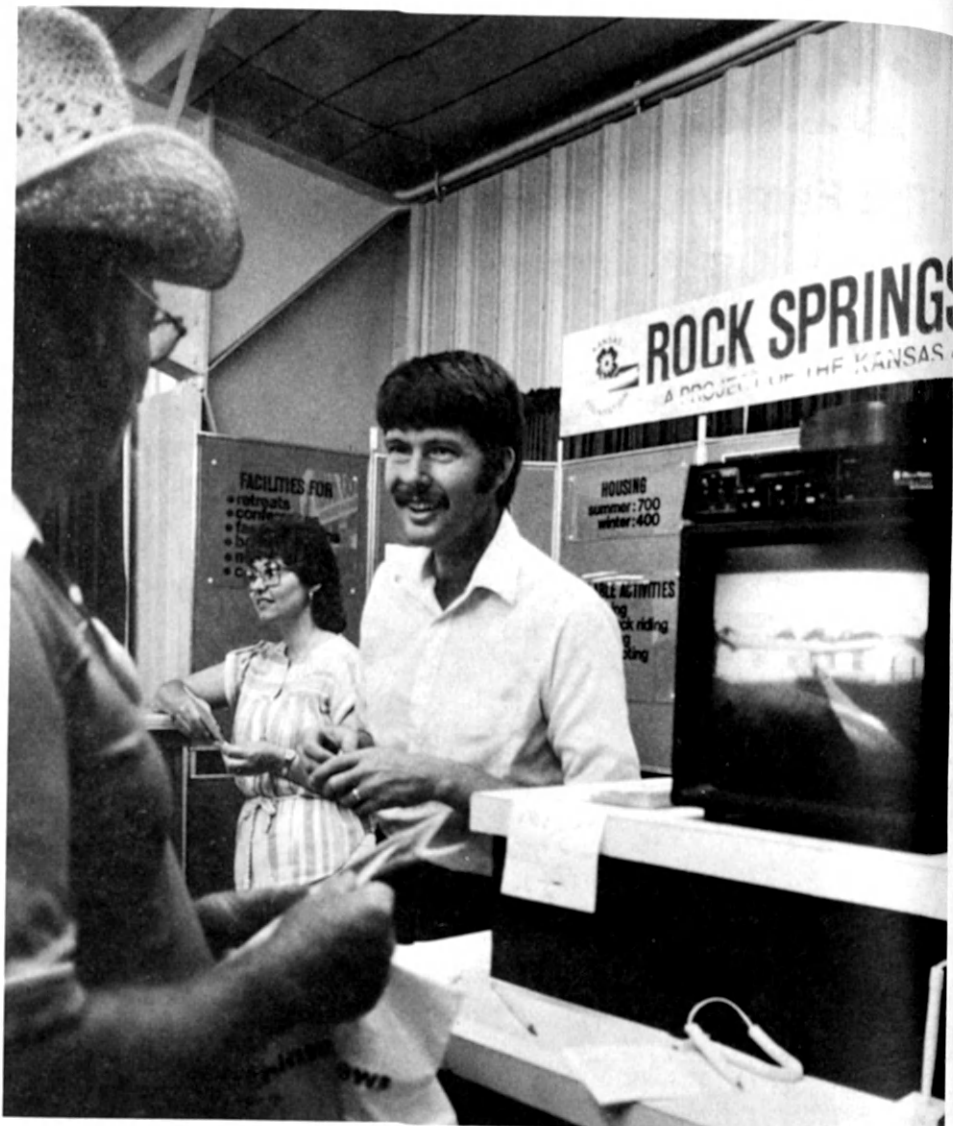
Records should include the current year's and past two year's clothing records and the permanent record. A summary of one page or less telling what the 4-H'er has done relating to fashion revues should be included.

The state fashion revue will be held Sept. 7 and 8 in Hutchinson. The show will be the afternoon of Sept. 8 at the 4-H encampment building on the Kansas State Fairgrounds.

## To celebrate 50th

The Rustlers 4-H Club of Goff will celebrate its 50th anniversary Aug. 11 at the Goff City Hall. A reception will be from 2 p.m. to 4 p.m. with a short program at 2:30 p.m. Everyone is welcome.

*Amy Rottinghaus, reporter*



The Kansas 4-H Foundation booth will return to the Kansas State Fair this year. The booth, which promotes Rock Springs Ranch 4-H Center, will be in the international building at the fairgrounds.

## People to People becomes International Focus

No, People to People can't be found in the 1985 project selection guide.

But don't panic. People to People has not been dropped as a 4-H project. It has just been renamed International Focus and is carried as phase 4 of the citizenship project.

The name change resulted because People to People is a copyrighted name for an international program that began under the Eisenhower presidency.

International Focus is recommended for youths 12 years of age and older. In My Heritage, 4-H'ers learn about family heritage by developing a family tree. My World is for members interested in international study and experiences such as IFYE, Labo and state and county exchanges.

This year's citizenship project introduces national citizenship materials. Self and Family, Community Involvement,

Governmental Process and Youth PRIDE are among areas of study.

## Youths to Thailand

Two Kansans are among 10 former 4-H'ers who spent three weeks in Thailand during the International Year of the Youth.

Jean Ann Elliott, Hiawatha, and Timothy Branda, Hays, were selected for the trip sponsored by the Asian Foundation. A student at Kansas State University, Jean was a 4-H exchange delegate to Germany in 1984. Tim has a degree in business administration and Japanese language and literature and plans a career in international business administration. He went to Japan on the LABO exchange in 1980.

In Thailand, the youths attended a youth conference and spent three weeks with a Thai family.



# Projects '85 is featured

This issue of the Kansas 4-H Journal brings you Projects '85, a roundup of most 4-H projects offered in Kansas. Projects '85 briefly describes each project, and provides information to strengthen the community club.

Steve Fisher, state 4-H specialist, suggests that the project selection guide not only be used to inform present 4-H families about projects available, but to recruit new 4-H families.

Additional copies are available through the county Extension office.



# Kansas 4-H Journal

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Use of the 4-H name and symbol approved by the Secretary of Agriculture of the United States, January 23, 1951, under the provisions of the laws as reenacted by Sec. 707 of the Act of June 25, 1948, Public Law No. 772 80th Congress (10 USC 797).

# The second time around

by De McGlashon  
Extension Communications Specialist

The three of us were on our way to visit the KSU veterinary hospital. Before we arrived, I explained to my two young grandsons, Brian and Brad, the differences we might see between the veterinary school and clinics they were familiar with.

Brad, an independent, questioning sort, leaned from the back seat of the car. "Gamma, how do you know?"

Before I could reply, Brian, his older, more self-assured brother, responded with a note of contempt, "Oh, Brad, Gamma knows everything."

Well, I quickly pointed out that I still had much to learn. Still, it didn't do much to alter the opinion of my grandsons who still think of me as a special person, as I also think of them. What we have is a real mutual admiration society.

In 4-H today that special link between young and old is happening more as grandparents, young-in-heart and full of energy, rejoin 4-H.

Perhaps they were once community or project leaders when their own children were members. But once the kids "graduated" from 4-H, they gave a sigh of relief, said "I've done my time," and turned the reins over to younger volunteers.

Many older folks are joining again, either because of grandchildren, or simply because they miss the vim and vigor, the challenges, of working with youth. Indeed, some never left; they seemed to know all along that one of the best ways to stay young while gaining respect for experience and wisdom was an association with youth.

Lucky the community that boasts a few people who know tatting is not a new dance craze or who can explain the difference between a harmonica and a banjo and make music on each.

Of course, I haven't even mentioned time and patience — two commodities often in short supply by young parents. While older folks, even retired, may be just as busy as young parents, they often have more free time — partly because they're adept at time management, but also because they have fewer demands.

Grandparents and our older friends just seem to become less ruffled by the inevitable ups and downs of daily life. They're great at listening to a project talk for the tenth time, wiping smudges from a geology display case, putting together the last minute details for a fair exhibit or telling stories about what it was like when "your dad and mom were 4-H members."

And talk about praise. Hardly anyone can be more elated over a side seam with a few bobbles, a rock collection that resembles highway gravel and butterflies minus a wing or two. But they're also the first to say, "Let's try again. I'll help."

But the love affair between old and young is a two-way street. Old folks profit by the enthusiasm and vigor of youth while they glow in the satisfaction of watching boys and girls grow and develop.

And of course, 4-H grandparents keep right on learning, often discovering that 4-H is better the second time around.

*Editors note: McGlashon is well acquainted with 4-H, as all three of her children were 10-year-members.*

# Geology is a family project They're hunting for the biggest find

by Joan Ista



Tris digs out a fossil.

When the Stan Ricker family, Scott City, goes hunting they may come home with animals hundreds of thousands of years old.

They search for the Porthus fish, the Mosasaur dinosaur and fossils of sharks and mollusks long extinct in the chalk cliffs of Gove and Logan counties in northwest Kansas.

A cry by one member of the family brings all seven together to examine the find and determine how the fossil can be safely removed.

The fragile Porthus tooth must first be coated with a mixture of glue and water to preserve it. Tools fashioned to a hardened steel by Stan are used to dig out the fossil. In some instances, the fossil is removed in a few hours. In others, it takes painstaking months to unearth the find.

At home, the Rickers identify, clean and, if necessary, piece the fossil together for 4-H exhibit.

Dusty, now 16, introduced the family to the geology project eight years ago when he took it as a first year 4-H'er.



Sharon and Tara sort out fossils.

# in Kansas

"Dusty loved it," Mrs. Ricker recalls. Because of his enthusiasm, Mrs. Ricker, a geology major in college, accompanied Dusty to a meeting his second year in the project. Since, she has rarely missed a meeting and as each of the other four Ricker children — Tara, Rusty, Kara and Tris — joined 4-H, they, too enrolled in the geology project.

Finally, Stan even joined the hunt and today is probably the most avid geologist in the family.

"It was catching," Mrs. Ricker says with a laugh. "It becomes a phobia after a little while. It seems like it becomes a family obsession."

Dusty, now in his eighth year in the project, is studying petrified wood for his advanced project this year. Kara is also in the advanced phase. Tara did a study on casting last year and though she did not enroll in geology this year she still maintains an interest. She plans to take geology as a project again in the 1985-86 year.

Rusty claims the greatest find of the family with the unearthing of an almost complete portheus fish.

Perhaps because he's been hunting fossils since the age of 3, 10-year-old Tris holds the family reputation for having the sharpest eye for finding fossils. Even before he was old enough to join 4-H, he had found the complete vertebrae of a portheus fish. His own geology box displays a shark's tooth that must be magnified before it can be distinguished as a tooth.

Stan and Sharon, too, have grown through the 4-H project. They began helping county-wide leader Irene Powers and today lead the county-wide project that consists of 20 youths.

Project meetings begin in the fall with a session that includes an explanation of what the project entails and identification. Five day-long tours are held annually and every other year the group goes on a three to four day educational trip. Tour expenses are paid through the Scott



Stan and Dusty with one of Dusty's displays.

County 4-H Foundation.

The Rickers work individually with project members to identify the fossils, rocks and minerals they find.

Mrs. Ricker says she still gets a thrill everytime she finds a fossil but her greatest thrill is watching the kids hunt and find their own fossils.

She says the geology project also has strengthened the family for it's something they can do together.

"The neighbors think we're nuts," Stan says. "But we tell them we are going fishing and we might catch the biggest fish in Kansas." The Portheus measures 16 feet from head to tail.

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# Statewide geology tour draws a crowd

by Joan Istas

They came to the state-wide geology field trip armed with hammers, pick axes, small medicine bottles, tape, paper and pocket-size field guides on rocks, minerals and fossils.

Avid geologists trained to look for the elusive find. First year 4-H'ers dreaming of finding a complete dinosaur. Families of Mom, Dad and a 4-H'er looking for items for that first state fair geology box.

Some had hunted shark's teeth at the first state-wide trip in Gove County four years ago and make the outing an annual event. For others, the exploration of the geologic formations in Riley, Wabaunsee, Geary, Pottawatomie and Marshall counties was a first.

But whether a first or an annual experience, the two-day outing provides an opportunity to collect rocks, minerals and fossils and have finds identified by a knowledgeable geologist.

A volcano in Kansas? Yes, 4-H'ers toured volcanic intrusions in their search for collectible items as well as visited a mine and explored an oil field.

Trilobites, brachiopods, mollusks and protozoa were among fossils found. Minerals collected included garnets, magnetite, altered shale, kimberlite, phlogopite and mica.

The fortunate found the four minerals and two rocks that are unique to the Riley County area.

"For some 4-H'ers, picking up four minerals in one spot is hog heaven," said Barb Warner, who helped organize the two-day event.



Barb Warner identifies fossils.

It doesn't necessarily take a trained eye to find a collectible specimen," Mrs. Warner, a collector herself, commented. "Little kids on their first field trip often do the best."

As the youths found specimens for their geology boxes, they identified them. One girl dropped specimens into medicine bottles and labeled the bottles. Others tossed rocks into cardboard boxes and neatly lettered names on paper as cars sped them to their next destination.

Cars wound down dusty roads in a seemingly endless line causing Mrs. Warner to note at one point, "This has gotten out of hand."

To the chagrin of the 4-H'ers, most of the specimens could be picked up right off the ground. Still, hammers and pick axes got plenty of use for digging or for just pounding a rock because it was fun to do.

Two hundred people from 32 counties participated in the tour making it the largest ever in its four year history.

"Geology is a specialized interest. It's strictly something you're going to look at and enjoy. It isn't a practical project like cooking or sewing."

Those who take the geology project should be prepared to make a commitment of time and money for travel, Mrs. Warner says. "It's not something you can do locally for more than a couple years.

"It's too bad God didn't put all the pretty things in one place on a flat plain. But you take what you get in Kansas," Warner says.

Among the rewards for those who enroll in the geology project are obtaining a better appreciation of the outdoors. Some 4-H'ers have gone on to make it a life career.

## Beef quiz bowl is new at fair

Challenging, stimulating, educational and hopefully fun — That's how Larry Corah, Extension state leader, animal sciences and industry, describes the new 4-H beef quiz bowl that will be a part of the Kansas State Fair this year.

"We feel the beef bowl provides a unique educational opportunity. It provides a lot more in-depth learning than is found in the show ring. Through it, 4-H'ers will become familiar with the reproduction, breeding, nutrition, management and meats side of the livestock industry."

Teams will advance through single

elimination rounds to semi-final and final rounds. Semi-final and finals will be open to the public.

About 32 questions will be asked in a game. Questions will come from Kansas 4-H beef materials, the Kansas Beef Cow Handbook and the Kansas State University Animal Science Department's beef quiz bowl manual. All are available in the county Extension office.

Prizes of \$200 and \$100 will be awarded to winning teams.

Location and other information on the bowl will be announced as information becomes available.

Though new in Kansas, beef bowls are held in other states and by breed associations for junior members. Corah has worked with youths in the Simmental association.

"I think it's an exciting program. I think kids get a lot out of it," he said.

Patterned after the popular 4-H horse quiz bowl, counties are being asked to send a team of four 4-H'ers 12 years of age and older to the Sept. 7 contest. Anyone interested in beef is eligible. Youths do not need to be enrolled in the beef project.

## Livestock show is in September

The 53rd Kansas Junior Livestock Show will be Sept. 20-23 at the Kansas Coliseum in Wichita.

The show, which is sponsored by the Kansas Livestock Association, Kansas State University and the Wichita Area Chamber of Commerce, features steer, heifer, barrow and market and breeding lamb classes for FFA members and 4-H'ers. A showmanship contest, ladies lead and photography exhibit also are part of the show.

Show entries close Aug. 26.

For more information, contact Floyd Ricker, general manger, Kansas Junior Livestock Show, P.O. Box 63015, Wichita, KS 67203.

## Horse camp is successful

A three-day horse camp is almost a tradition in Linn County.

The first such camp in the state was held in 1984, and it was such a success that it was repeated this year.

Funds for the 1984 camp came from a Kansas 4-H Foundation grant for innovative programs.

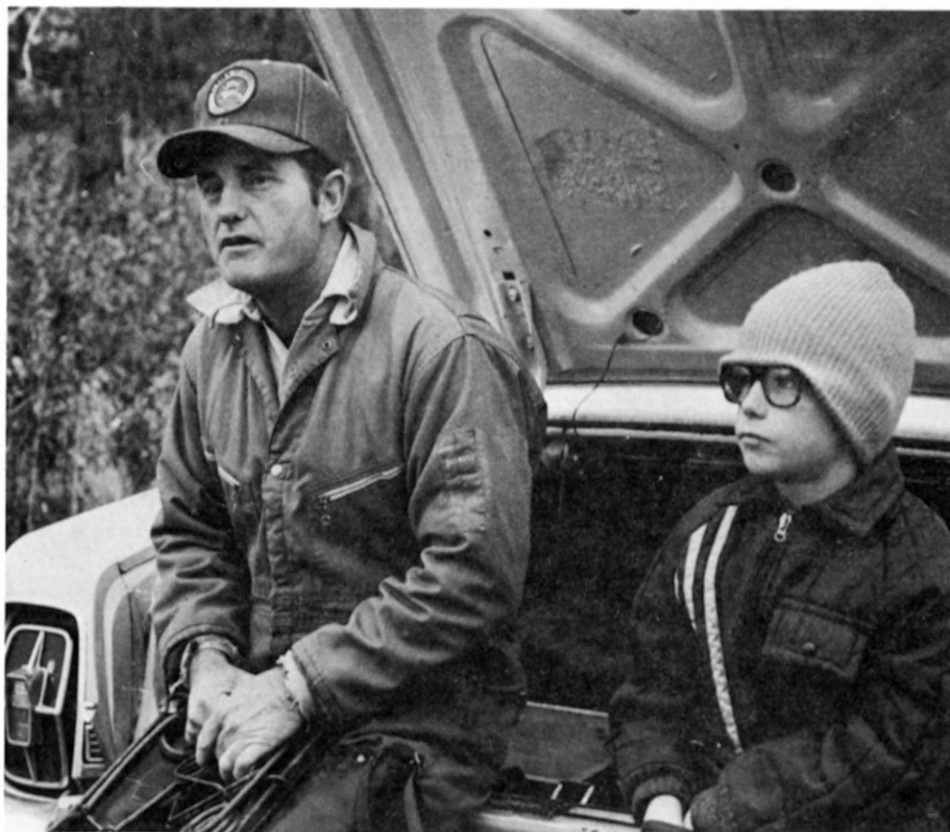
The camp teaches proper western riding skills, safety and horse management. 4-H life skills are stressed, and everyone is encouraged to have fun.

Campers are divided into living groups according to their age. Each living group includes an adult counselor, one or two Junior Leaders and five or six campers.

Instructors for the clinic came from Kansas State University.

The riders made great progress in the three day camp, a fact that was evident when they showed horses at the county fair.

A slide/tape set on the horse camp is available from the state 4-H office. Information also is available about organizing the camp.



Camping can strengthen relationships between family members. That's one of the purposes of the hunting, fishing and trapping clinic Oct. 12 and 13 at Rock Springs Ranch. Fur harvesting certification and hunter safety certification will be a part of the camp. Upland game bird hunting and fishing also will be taught. Application blanks can be obtained at the county Extension office.

## Campus club project increases attendance

The Harvey County Campus club's family health and safety project has increased adult attendance at club meetings.

At each meeting, professionals speak about health and safety occupations. The

schedule, developed by a committee in September, features a CPR demonstration, drugs, infection control, exercise and sports injuries, the seat belt convincer, fire extinguisher know-how, eating properly and wellness.

Angela Hunter, reporter

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Shari and Sharla Schaake sell pumpkins from the back of the pickup truck on Saturday afternoons in the fall. The Schaake family also sells pumpkins from the Pumpkin Patch on their farm near Lawrence. Shari, the 1984 state horticulture winner, is featured on the cover of the Journal.



## 4-H'er helps manage family's pumpkin operation

by Joan Istas

Halloween is more than costume parties and trick or treating for 17-year-old Shari Schaake, Lawrence.

Shari, who is enrolled in the 4-H horticulture project, helps operate the family's u-pick-it pumpkin operation. Before ghosts and goblins march the streets the evening of Oct. 31, Shari, brother Scott, sisters Shelia and Sharla and their parents will have marked up a profit of over \$7,000 from the sale of pumpkins, Indian corn, gourds and corn-husk dolls.

"Our u-pick-it operation is one of our major moneymaking projects. It's getting so we make more money with pumpkins than Dad does farming," Shari says.

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*"I've been gardening ever since I was big enough to follow Mom out in the garden."*

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Scott launched the family into the pumpkin business seven years ago when he began growing them as part of his 4-H gardening project. He sold sweet corn, watermelon, cantaloupe and pumpkins from a roadside stand.

Each succeeding year the pumpkin acreage grew while that planted to other commercial crops diminished. Today the Schaakes plant over six acres to pumpkins, and it isn't unusual for 250 pumpkins to be marketed on a Saturday afternoon in October.

For the Schaakes, the pumpkin operation begins in July with planting. Varieties planted over a week's period include the giant Pancow, the Funny Face, Connecticut Field and Young's Beauty. Throughout the summer hand

weeding is done and insects sprayed.

There are always weeds to pull, says Shari, who plays a major role in the operation.

Harvest begins the last of September and continues until Halloween.

Week days during October, Shari hurries home to operate the u-pick-it operation on the Schaake farm. Weekends she moves into Lawrence to sell pumpkins from the back of the pick up truck. When the pumpkin supply runs low, she radios home for more.

A much sought after item by those who patronize the Schaake's stand are painted pumpkins. Using acrylic paints, Shari and her mother change the round pumpkins into laughing or dour faces.

Though Shari says operating the stand is a lot of fun, there have been moments when her patience has been tried ... like the time the guy handed her a \$100 bill to purchase a \$1 pumpkin.

By operating the stand, Shari has learned about setting prices, making and taking change and keeping daily records.

That operation also helped her achieve a long-time goal last year of winning the state horticulture award. Now she'd like to grow a pumpkin that will capture the title of the Kansas State Fair's biggest pumpkin.

Shari considers gardening a life-long hobby.

"I like to watch things grow. Everything has a different shape," she says.

"I've been gardening ever since I was big enough to follow Mom out in the garden. My Dad's Mom really enjoyed gardening; she made it a lot of fun.

"I will keep gardening because I love it."



# Projects for 1985

A supplement to the Kansas 4-H Journal

## Dog is multi-faceted project

by Joan Istas  
Kansas 4-H Journal Editor

Tears well into Philip Bentz's eyes as he talks about what his dogs mean to him.

"The biggest thing a dog is is a companion. They always want to please you. Missey, my 8-year-old border collie, isn't good with cattle, but she's always there. My poodle likes to bark at everything."

Philip has had a succession of dogs since he was small. As a young child, he and the family's St. Bernard played together. He has marveled at the expertise of his uncle's coon dogs on the trail. He remembers the beagle that was killed on the highway and his sorrow when his cocker spaniel died just days after winning a purple ribbon at the Kansas State Fair.

Dogs also are a 4-H project for Philip — a project that won him the state dog award this year.

The Cloud County youth began training dogs in 4-H when he was 9. "I knew the dog's tail from its nose and that's about it. I wanted to show my dog," he explains.

Missey was his first show dog. He trained her in the beginning obedience commands of sit, come on recall, stand for examination, sit stay, down stay, figure 8 and about turn.

As he and Missey became proficient in the basic commands, they advanced to working off lead and today Missey retrieves and goes over jumps on command.

It's important to make training a pleasing and enjoyable experience for the dog, Philip says. "The dog must remember it as fun."

With the purchase four years ago of the miniature registered poodle Nikki, Philip advanced into the breeding project. Nikki has had two litters by cesarean. For six weeks after birth, Philip keeps daily records of the weight of the pups. By doing so, he is able to compare litters and better select a male for breeding.



Phillip Bentz and Missey

The 17-year-old youth sells the puppies by placing a newspaper ad announcing AKC registered poodle puppies for sale. He screens those who answer the ad to select a good home for the puppies.

"I want to know where my dogs go. I want them to go to a good family," he says.

Philip has sold the puppies for as much as \$125, but even at that price,

he says, it's difficult to make a profit. The stud fee is \$125. The vet bill for the cesarean is \$80 to \$90 and there's the cost of medication, vaccinations and docking of tails.

Philip increases his knowledge of dogs and shares that knowledge with others by researching and giving talks and demonstrations about dogs.

Popular talks are those he presents on

(continued to Page 4)

## Use guide to help select 4-H projects

This guide is intended for use by members, parents and leaders in selecting projects for 4-H'ers as they participate in clubs or groups.

Descriptions should be interpreted as guidelines or suggestions rather than absolute requirements for a project. Leaders, 4-H'ers and parents are encouraged to plan together project programs designed to meet the needs, interests and abilities of each 4-H'er.

## Project fair helps with enrollment

Get your 4-H club members off to a good start this year by planning a project enrollment fair.

This fair brings 4-H'ers and leaders together so 4-H'ers can select projects. Youths are able to make decisions based on material presented by project leaders, says Marcia McFarland, state 4-H specialist.

Planning for a project fair should begin with parents and leaders determining which projects will be offered. "You do not have to offer every project," McFarland says.

Leaders then need to be recruited to teach these projects. Leaders can best be obtained by assessing the skills of the parents in the club. For instance, a parent with a knowledge of electricity may want to lead the electric project.

Project leaders should come to the fair ready to answer questions about when the project will be held, number of meetings planned, cost involved and just what the project entails.

At the fair, tables should display the projects. Signs for each project should tell times and dates of meetings and the name of the project.

McFarland recommends 4-H'ers bring their project selection guide with them to the project fair to supplement data from leaders.

Parents should accompany their children to the fair and together select the projects that will be entered on the enrollment card. The enrollment card is turned in at the fair.

Often enrollment fairs are held before or after a club meeting, and refreshments are served. Some clubs also use the project enrollment fair to recruit new members.



4-H'ers learn about the spinning and carding of wool when they take spinning as a self-determined project.

## Psst, have you heard about the 4-H Foundation?

The Kansas 4-H Foundation may be the best kept secret in the Kansas 4-H program. Like a touchstone, this private organization enters the lives of almost every Kansas 4-H'er.

For many 4-H'ers, the Kansas 4-H Foundation means Rock Springs Ranch. The Foundation was chartered in 1952 partially because of the need of a non-profit corporation to hold title to the newly purchased 4-H camp. Today one of every eight Kansans attend the center as youths.

But the Foundation is more than Rock Springs Ranch. As the publisher of the Kansas 4-H Journal, it brings that magazine into the home of almost every 4-H family in the state. The only state 4-H magazine in the nation, the Journal is recognized as the official magazine for the state's largest youth organization — 4-H.

Clovia houses at Hays and Kansas State University offer a homelike atmosphere and an economical cost of living for women attending these universities. Annual cost is \$600 below that of dorm living. Southwest Camp, near Dodge City, provides a camping experience for 16 southwest Kansas counties.

From the Foundation's supply service, county Extension offices order ear tags, county medals and pins, photography matte boards, seals, judging cards and record book covers.

Annually the Foundation arranges for some \$100,000 for international programs, scholarships, the Emerald Circle Banquet and district, state, regional and national trips and awards.

The Foundation provides seed money to counties to start innovative programs, support present county programs, for leadership training and for state programs. In the last five years, \$177,000 has been provided. Photo Fun Day at the Kansas State Fair and Linn County's horse camp began with Foundation seed money.

The 1985 project selection guide in the Journal is being brought to Kansas 4-H families throughout the state with Foundation funds.

Governed by a 21 member board of trustees, which includes the director of Extension and the state 4-H leader, the Foundation assists the Extension Service in promoting 4-H work throughout the state with the use of private funds.

"The Foundation provides the icing on the cake for 4-H programs in Kansas," says Merle Eystone, executive director of the Foundation. "It is the arm of support for the Extension Service."

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When friends get together, washing a lamb is fun. The sheep project continues to grow as youths in town as well as the country find they can raise a lamb.

## Projects ... a tool for learning

by C.R. Salmon  
Assistant Director of Extension,  
4-H-Youth

As you review the project selection guide, I hope you will keep in mind the five major objectives of the 4-H program: building self confidence; learning to make decisions; developing an inquiring mind; developing concern for the community; and relating to others. 4-H projects help Kansas youths develop these skills.

The development of a positive self concept must be enhanced and supported by a 4-H'er's project. Parents and leaders should help boys and girls select projects that provide them an opportunity to succeed and feel good about their abilities. Their first project should guarantee success.

Often we overkill by enrolling new members in too many projects. This frustrates, overextends and demoralizes the 4-H'er.

Projects provide an excellent opportunity for boys and girls to learn how to make decisions. Parents and leaders must be willing to help boys and girls see the various opportunities, but willing to let them make the final decision.

Decisions should be based on data researched by the 4-H'er such as length of project, cost, physical facilities needed and support of family members. Decisions also should be supported by project goals.

Communication should be part of every project. 4-H projects are an excellent way for youths to relate to their peers and adults. By giving project talks and demonstrations, youths learn to

research topics, organize facts and outline presentations.

Boys and girls learn and practice informal communication at project and club meetings and county fairs. In judging contests, they learn to organize their thoughts and convince others of their beliefs. Members should be encouraged to take their project into a situation where they must explain, defend or market it to different audiences.

Projects should involve community service, activities or events which help the 4-H'er learn more about his community and culture. Let's encourage our boys and girls to take their projects into their neighborhood, community and school.

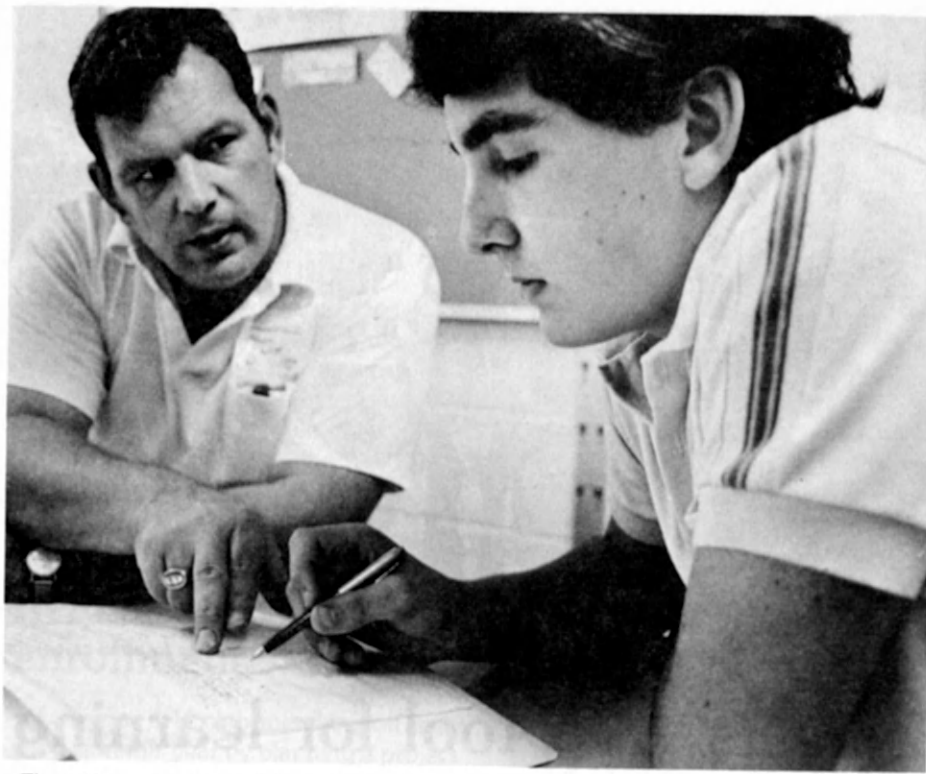
Projects should expand and develop a youngster's mind. Identifying the needs, evaluating alternatives, piloting selections and perfecting a new technique or skill is a process used in everyday life. Hopefully, the projects you help your son or daughter select will help him to grow and develop an inquiring mind. The projects of today and tomorrow will help youngsters learn processes and not facts and figures.

The 4-H project has been the major vehicle for all learning in 4-H since its beginning in the early 1900s. If 4-H is to maintain its position as the world's largest out-of-school organization, it must strengthen and expand the use of the project. The project must be used to support our basic objectives and purposes.

As you review this guide and its many projects, I hope you will consider the projects that will enhance and support youth development in your respective clubs and communities. Good luck!

### Brought to you by ...

Thanks to Steve Fisher, Kansas 4-H-Youth staff member, and financial support from the Kansas 4-H Foundation, we are happy to provide each Kansas 4-H Journal subscriber with a copy of the 1985 Kansas 4-H Project Selection Guide.



The 4-H program brings father and son closer together as they work on records, lead a project or complete a project. Most clubs encourage parental participation at both club and project meetings. Families also work together on committees and club projects.

## Everyone is involved Club charts course to success

by Joan Istas  
Kansas 4-H Journal Editor

When Bill and Joyce Paschal stepped down as long-time community leaders of the Wolf Creek Valley 4-H Club, club members decided to chart a new course.

No one wanted the responsibilities the Paschals had had for so long. And no one wanted to serve as community leaders for the next 23 years.

A parenting committee made up of five parents and five junior leaders and specified rotating terms for community leaders proved to be the answer for the Russell County club.

Rosslyn Schultz and Maurita Cederberg now fill the three and two year positions of community leaders. The parenting committee supports the community leaders.

Duties of the parenting committee are: to assist in planning and evaluating the yearly club program; meet with officers and community leaders to set goals; help set up standing committees; secure project leaders for the club; assist with orientation; promote membership; assist with problem solving and decision making; promote camp and other outside activities; and give guidance to specific assigned officers.

Previously this work was done by the community leaders. Now duties are more evenly distributed, says Beth Schultz, club president.

The committee meets at the first of the year to set club goals and appoint committees and again at the end of the year to evaluate goals. Goals are important because they provide a guideline for the yearly club program and give club members something to aim at, say community club leaders.

An example of yearly goals are those for the 1984-85 year:

learn to set personal goals in project and community work; learn to feel positive about others and encourage others; become involved in activities that require 4-H'ers to relate in meetings and work with other people of all ages and as families; encourage 4-H'ers to be inquisitive; and help and learn more about the community.

Mrs. Schultz and Mrs. Cederberg help club members feel good about themselves by encouraging each member to be involved.

"Involvement seems to be the key to keeping kids in 4-H," Mrs. Schultz says.

Club members are encouraged to participate in club days, and a club chorus gets a great percentage involved. A phone hotline which links the two communities of Lucas and Luray together involves younger club members.

Standing committees not only involve the kids but also parents. Family participation is encouraged in both committees and at club meetings. Members are even recruited as a family.

Tours are held to broaden the knowledge of the youths beyond the community. Project meetings not only get 4-H'ers involved, but they promote 4-H.

Mrs. Cederberg points to Beth's foods meetings as an example. 4-H'ers in that project have gone on tours and receive hands-on experience in cooking. 4-H'ers get excited about these meetings and tell others.

Through this promotion and by promoting 4-H in the schools, club enrollment has increased from 15 to 21 members the past two years.

"The Wolf Creek Valley 4-H Club is working. It's a very good club," Beth says.

## Dogs ... (continued from Page 1)

pet napping and the sniff dog — a highly trained dog used by the government to sniff out narcotics.

Philip annually visits the nursing home to present an obedience demonstration to senior citizens. It's a visit he enjoys as much as the elderly as he swaps stories with them about dogs.

4-H is a continual growing experience for Philip. He has learned how to be a leader, how to make decisions, gained a greater respect for animals and expanded his knowledge of dogs.

"It's just one new experience after another. You can't ever stop achieving. There's always something more to grab," he says.

The Hopewell Corners 4-H'er is a member of the state dog committee, has helped rewrite the dog obedience and showmanship records and, as assistant Cloud County dog project leader, helps younger 4-H'ers train their dogs.

"I have taken from 4-H; people have shared their knowledge with me. Now it's time for me to turn around and teach other kids what I have learned," he says.

Additional copies of the project selection guide can be obtained through the county Extension office.

## Records add value to 4-H work

The value of projects for many boys and girls is increased when records are kept. Records of 4-H work may be kept on one or more of the following forms:

**Kansas 4-H Record** — useful for many different projects, or for helping boys and girls plan other 4-H experiences and evaluate the results. This record can be used for Self-determined projects.

**Project Record** — many projects have project records forms specifically designed to help the member with his project.

**Personal Page** — this record is for the 4-H'er to record his experiences during the year in addition to the specific project records.

**4-H Permanent Record** — the summary of all projects, exhibits, offices held, events attended, and activities for the entire year is made on the permanent record.

All records are available from the county Extension office. Leaders should secure the records and issue them to the 4-H'ers as needed.



The rabbit project is popular among beginning 4-H'ers. Youths 7- to 19-years of age are eligible for the 4-H program.

## Rocketry is a project for today

by Christine Buchanan  
Extension Publications Editor

When Andrew Burkum's grade school science class started discussing thrust, gravity and friction, he was elated. "Hey, that's a project I did in 4-H," he said, offering to show them a rocket demonstration.

And later, during the launch, when one of the rockets went out of sight and was lost, the fifth graders were thrilled.

Today, Andrew no longer is the only Washington County 4-H'er enrolled in rocketry. Eight youngsters in the Farmington 4-H Club, plus some parents, are enthusiastically making and launching rockets.

Moreover, for the first time this year, the Washington County Fair had a rocketry division, just as the Kansas State Fair also will have rocketry competition for the first time.

Andrew Burkum was never really alone with his project. His father recalls that when Andrew joined two years ago, one of the community leaders approached him and said, "If your kid takes this, will you be a leader?"

Steve Burkum, who is pastor of the Washington Christian Church, not only was willing but also was qualified. Seven years earlier, when he was preaching in Scott City, he had supervised the

rocketry division at the Scott County Fair and had learned a great deal from a dispatcher there.

"We had two long tables filled with rockets, and that delighted me," Burkum remembers.

The slight, dark-haired minister has put together "a slug of stuff," and has asked 4-H'ers to start notebooks. To their flight records he's added weather conditions, which he thinks are important. Rocketry magazines help keep him informed on the subject.

Andrew says he can finish a rocket in one or two weeks, working carefully for many hours. "If you mess up on a model plane, you can cover up, he says. "But if you do anything wrong with a rocket, it's not any good."

Cost varies, Andrew estimates, from under a dollar to about \$50. He checks the price on a package of three engines which he ordered from a firm in Colorado and which can be used only once: \$2.

To allow space for larger rockets, the group has moved its launch site about half a mile east of town where a skeet range once stood. Flying the rockets is the most fun of all, Andrew says.

He's combined rocketry with his public speaking project as he's enlisted other members. "I think it's neat," the Farmington 4-H member says. "The project

gives you a chance to learn about things like jet propulsion ... things that are important today."

### Do you want to be a 4-H'er?

Interested in being a part of the 4-H program? Then fill out this coupon and mail it to your county Extension office.

Name \_\_\_\_\_

County of Residence \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Phone \_\_\_\_\_

Information desired \_\_\_\_\_  
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# Agronomy

100

## Soil and Water Conservation

If you choose soil conservation for your major project emphasis, plan and carry to completion three or more recommended soil conservation practices adapted to the farm such as:

Test soil for lime and fertilizer requirements. Learn about land classification and use. If your county has a published soil survey report, use it to determine the soil types on your home farm.

If your emphasis is water conservation, plan and carry out three or more practices, such as:

Measure rainfall and keep a record of the amounts.

Lay out and build a pond to provide water for household use, livestock, irrigation, or recreation.

Protect ponds from silting and from pollution.

Use stubble mulch if it is recommended for the area.

Plant and till crops on contour where practical.

Lay out and build waterways and seed them to grass.

Build and maintain terraces.

Develop irrigation where water is available.

## Land Judging and Homesite Evaluation

This is a related activity that you may want to consider with this project.

Get a copy of MF-224, *Instructions in Land Judging and Homesite Evaluation*.

102

## Crop Production and Management

Complete the *basic phase* each year of planting and producing at least five acres of one of the common field crops grown in Kansas (wheat, corn, grain sorghum, corn and sorghum for silage or forage, soybeans, new seeding alfalfa, field beans, sugar beets, etc.)

## Optional Exercises

Select and complete each year three optional learning exercises listed in the Crop Production and Management member's manual. You may repeat any one of the exercises for no more than three years and must have at least one new optional exercise each year.

Record data and learning experiences on the Crop Production record sheet and write a short report on what the project has taught you.

If you do not live on a farm, you may use land owned by someone who would make it available for this project.

## Crops Contest

This is a related activity that you may want to consider with this project. You will learn to analyze seeds of wheat, corn, grain sorghum, and soybeans for weed and other crop seeds. You will learn to identify and categorize 50 plant specimens from seed and/or the plant. Ask your county agent for information about this contest.

103

## Exploring the World of Kansas Soils

This is a basic, introductory project dealing with soils. It is designed as a one or two year project for younger members or those older members who desire to learn some basic principles about soils.

You will learn what soil is and how it is made.

Learn how to determine soil texture and soil water.

Learn about life in soil and how to use soil surveys.

Learn about soil testing and land judging.

You will choose at least five of the ten lessons outlined in the manual to complete. You may want to do all of them. Keep records and answer questions in the manual. You may want to give a demonstration and prepare an exhibit for your county fair. You do not need to live on a farm to take this project.

## Land Judging and Homesite Evaluation

This is a related activity you may want to consider.

Get a copy of MF-224, *Instructions in Land Judging and Homesite Evaluation*.

104

## Weed Identification and Control

The Weed Identification and Control program supplements other projects. Any 4-H'er may participate in it, but those enrolled in Field Crops, Forestry, and Horticulture, are especially urged to include the program as a part of their project work.

Make a standard size (13" x 18") wooden plant press.

Collect, identify, press, mount, and label 15 or more weeds from the approved list.

Prepare a list of weeds, mounted, showing common name, scientific name, and other requested information.

Collect and identify weed seeds found in crop seeds.

Older 4-H'ers may do additional work in Weed Identification and Control by observing a noxious weed control demonstration on the farm. See your county weed supervisor before you start.

## Crops Contest

You may want to consider this activity to analyze seeds of wheat, corn, grain sorghum and soybeans for weed and other crop seeds. Learn to identify and categorize 50 plant specimens from seed and/or the plant. Ask your county agent for information concerning this contest.

## Arts

Learning experiences:

Creative self-expression.

Principles of design.

Skills of using various media.

120

## Crafts

Explore and observe the beauties in nature. The basis for design principles is demonstrated in nature.

Collect leaves, flowers, driftwood, shells. Use them to make decorative objects.

Experiment with available materials, using imagination and creativity.

Examples of items to do:

Make a cornshuck object.

Make a leaf print.

Make a mobile, using twigs and weed pods, etc.

Dry flowers and make a flower picture.

Make a piece of jewelry from stones and copper wire.

121 - 127

## Skill Arts

Example of skill art areas:

Sketching, drawing, and painting.

Carving.

Ceramics.

Leather.

Fabrics and fibers.

Stitchery.

Spinning and dyeing.

128

## Cultural Arts

Study and report on classic and contemporary forms such as:

Visual art — study and share information on artists and art galleries in Kansas. Visit an art gallery. Study arts of a particular period in history or a particular people.

Music — Listen to music of specific composers. Study background of composers. Share with others.

Literature — Read books. Explore authors' backgrounds and what inspired



Arts and crafts is the largest 4-H project with over 16,000 Kansans enrolled. Crafts vary from tin punch to leathercraft, painting, carving, dollmaking and ceramics.

them to write.

Explore art forms related to a particular culture or era, e.g.:

Renaissance.

The New Republic.

American Indian.

Black American.

Mexican American.

Personal Heritage.

Heritage of another American culture.

Heritage of a region of the U.S.

## Beef

135

### Market Beef Steer

#### Unit 1: Introductory

#### 4-H Steer Feeding

Own, feed, and manage one or more steer calves of acceptable quality for a minimum of 140 days.

Weigh and identify steer at the beginning of project.

Secure bulletin, 4-H 344, *Introductory 4-H Steer Feeding* and carry out the learning experiences in chapters 1 through 8.

136

### Breeding Beef

### Unit 1: Introductory Beef Breeding

Own, feed, and manage one or more heifers or cows for breeding purposes.

Secure bulletin, 4-H 345, *Introductory Beef Breeding* and carry out the learning experiences in chapters 1 through 7.

137

### Commercial Cattle Feeding

Own three or more grade, crossbred, or purebred calves of any beef breed.

Follow either a deferred feeding program or some variation of it, a feedlot program or stocker-feeder program.

138

### Bucket Calf

Youths 7 to 12 learn to love and care for a newborn, developing basic knowledge of proper feeding, housing, managing and showing.

## Bicycle Safety and Care

140

### Unit 1: Your Bicycle and You

Members will learn parts of the bicycle, how to make the bike fit them, and basic care and maintenance.

141

### Unit 2: Maintaining Your Bicycle

Members will learn how to adjust parts such as brake, chain, bearing cones, tire care, and how to plan a hazard hunt.

142

### Unit 3: Enlarging Your Cycling World

Members will learn how to paint and customize their bike. They will also learn about advanced maintenance and how to plan bike trips for a group.

## Citizenship

Citizenship is acting with informed concern for self and others.

Life skills form the foundation upon which rests the relationships an individual has, beginning with self, extending to other groups; family, peers, community, state, nation and world. The relationships take place in the economic, political, social and physical environments.

4-H'ers may choose from 9 different units in 6 phases of citizenship. It is suggested that individuals enroll in one unit per year and progress as far as they wish in order of units.

### Phase One — Self & Family (ages 7-10)

143

#### Unit 1: Me, My Family & Friends

Self-identity, self-acceptance and relations with family and friends are studied. It means, "Good citizenship is knowing who I am and being able to relate to others."

144

#### Unit 2: My Neighborhood

Move beyond the family and close friends into the neighborhood and school. It means, "Good citizenship is knowing and sharing with neighbors."

### Phase Two — Community Involvement (ages 11-14)

145

#### Unit 3: My Clubs & Groups

Learn to function in organized groups to be more effective participants. It means, "Good citizenship is participating in group decision making."

146

### Unit 4: My Community

Learn to understand and how to be involved in your community. This is a multi-year unit and may be continued as long as a 4-H'er wishes.

### Phase Three — Governmental Process/ County, State, National (ages 14 and up)

147

### Unit 6: My Government

A member may wish to spend one year on each level of government. Included in this unit are discussions on governmental systems, laws and voting. This includes the importance of citizen involvement in the governmental processes.

### Phase Four — International Focus (ages 12 and up)

148

### Unit 5: My Heritage

Learn about family heritage through developing a family tree. Also, study heritage from other selected areas of interest.

149

### Unit 7: My World

Members interested in International study and experiences will want to consider this unit. Activities include Inter and Intra Exchanges such as IFYE, Labo, state and county exchanges, etc.

### Phase Five — Others (In depth Study)

150

### Unit 8: Others

If a 4-H member desires to study further a specific area, study other material available under Building Family Strengths, Exploring 4-H, or Fun with Children. Use the available records for each of the above.

### Phase Six — Youth PRIDE

151

### Unit 9: Youth PRIDE

Members may enroll as a group, promoting projects to help improve their community, and work with the Kansas PRIDE program which is coordinated through the local extension office.

Community service and betterment projects would be typical activities for this program.

## Clothing

Each year 4-H members will be learning about fabrics, construction techniques, equipment, grooming, care of clothing, and buymanship.

155

### Exploring Clothing (ages 7-9)

Explore simple sewing. Learn about where clothes come from. Learn about fabrics, weaving, and sewing equipment.

Ideas for projects to make: Pillow cover — stuffing a pillow. Decorative patch. Bean bags.

156

### Adventures in Clothing (ages 9-11)

Learn to choose sewing tools. Use and care of sewing machine. Care of clothing.

Make articles that use straight seams, square corners and backstitching. Ideas for articles to make:

Needle book. Pin cushion. Oven mitt. Tote bag. Book bag. Simple dress. Blouse. Swimsuit coverup. Pop-over shirt. Construct an article, a garment, or a two-piece coordinated outfit.

157

### Clothing Speaks

Learn about line, design and color, pattern sizes, selecting a pattern, different kinds of fabrics, sewing with a pattern, new sewing skills, modeling, and hair care.

Construct a garment or a two-piece coordinated outfit.

158

### Clothing Classics

Learn about building a wardrobe, choosing accessories, design and color, improving sewing skills, textiles, sewing different kinds of fabrics, types of interfacings, care of clothing, and good grooming.

Construct a garment or a two- or three-piece coordinated outfit.

159

### Special Clothes

Make two garments for special occasions, using a new type of fabric you have never sewn on before.

160

### Complete Costume

Learn about fashion, fabrics, tailoring or advanced sewing techniques and career opportunities.

Construct one or more coordinated outfits.

161

### Clothing Carousel

Emphasizes how to plan, select and buy clothes. Teenage girls will purchase one complete outfit.

162

### Clothes Strategy

Emphasizes how to plan, select and buy clothes. Boys will purchase one complete outfit.

165

## Commodity Marketing

Develop a better understanding of the principles and practices involved in the marketing of any product. This might include potatoes as a garden project, wool in the sheep or clothing project, timber in forestry or wood science or the typical livestock and grain projects.

166

## Computer

Learn how to operate a computer, apply existing software to your interests or needs, program in BASIC language, and apply your computer knowledge to other 4-H projects.

170

## Crochet

Each year make one large or two small articles.

Begin by learning to do chain, single crochet, double crochet, and slip stitch stitches. Also learn to increase and decrease stitches. Each year improve skills already learned and try new stitches.

## Dairy

175

### Calf or Heifer

Own one or more high grade or purebred dairy calves or heifers.

Feed and manage the calf or heifer for breeding purposes.

To exhibit at state shows, registration or transfer papers must be in the 4-H'ers name and dated not later than July 1.

176

### Cow Production

Own one or more dairy cows.

Feed and manage the cow through the gestation, calving, and production period.

Feed and manage the calves produced.

To exhibit at state shows, members must have registration or transfer papers in their name by July 1.



Keep production records on each current lactation. Dairy production records start October 1 and end September 30 of each year.

## 177 Dairy Beef

Own one or more steer calves of dairy breeding.

Project may start with a baby calf or feeder steer and terminate with a feeder or slaughter steer.

The steer must be fed and managed for a minimum of 140 days.

Consider including the Veterinary Science Program, page 14, if you enroll in the Dairy Project.

## 178 Dairy Goats

Own one or more purebred or high grade does.

Feed and manage the doe for breeding purposes.

Breed doe to registered buck.

Feed and manage the kids produced.

## Dog Care and Training

Care for and train one or more dogs.

Dogs may belong to member or to member's family, may be male or female, spayed, registered or unregistered, and may be of any breed or combination of breeds.

Keep records on cost of care and feeding of dog. You may enroll in any one or combination of the three phases at the same time.

## 180 Unit 1: Dog Showmanship

Learn how to groom and handle your dog for the show ring.

## 181 Unit 2: Dog Obedience

Learn how to train your dog for obedience.

## 182 Unit 3: Breeding and Management

Raise dogs for sale.

Consider including the Veterinary Science Program, page 14, if you enroll in the Dog Project.

## Ecology

## 185 Understanding the World Around Us

Members will explore the relationship with the living and nonliving beings in the environment. They will read about the secrets which keep the earth alive and well. They have the opportunity to go into the field and study wildlife, insects and

the thousands of living things around them. The emphasis is on studying the relationships which living things share. We hope it will help them fit into this gigantic and complicated mechanism so that they can live in harmony with the magnificent system of life.

## Electricity

### 190 Unit 1: Exploring the World of Electricity

Unit designed to develop an understanding of the basic principles and theories of electricity — definition, basic terms, types of circuits, resistance and resistive heat, electric light and electric safety activities.

### 191 Unit 2: Electricity's Silent Partner — Magnetism

Unit deals with the relationship between electricity and magnetism and the way they work together to provide us many of the conveniences for our modern living.

### 192 Unit 3: Working with Electricity

This unit includes wires and cords, electric connections, basic equipment, home wiring, planning home wiring, grounding, maintaining home electrical equipment.

### 193 Unit 4: Electricity

## for Family Living

Topics include electricity in the home, lighting and lamps, heating appliances, operation of motors, refrigerators and air conditioners, electronic appliances and maintenance concepts.

### 194 Unit 5: Behind the Switch

A basic knowledge of electricity through the study of previous units in the 4-H Electric Program is necessary. The project deals with how electricity is produced, explains the generation, transmission and distribution of electrical energy and explores the fuels used to power generators.

### 195 Unit 6: Introduction to The World of Electronics

A basic knowledge of electricity through the study of prior units in the 4-H Electric Energy is necessary. Topics include Electronics and Waves; Basic Electronic Devices — Resistors; Basic Electronic Devices — Capacitors; Basic Electronic Devices — Coils; Resonant Circuits and Filters; Electronic Tubes; Electronic Circuits; Solid State Electronics; Electronics for Communication; Electronics for Business Components and Computers — The Thinking Machine.

## Entomology

### 200 Introductory Phase

This is suggested for the 7- to 9-year-old or interested beginner of any age.



Computer joins the line-up of Kansas 4-H projects this year. Piloted two years ago, many youths have taken computer as a self-determined project in the past. Many counties now have county-wide computer project leaders, and county-wide computer camps are offered at Rock Springs 4-H Center each summer.

4-H'er should remain in this phase no more than two years. They will learn to catch, pin, label and identify at least six orders of insects. At least 15 insects, and no more than 30 can be displayed in two cigar boxes. Date/locality labels required on each specimen. This phase will **not** have a state fair class.

## 201 Beginning Phase

Suggested for 4-H'ers who have completed in the Introductory Phase, or for members at least 10-years-old who have had some basic training in entomology in school.

Members are expected to advance to the next phase at their own speed and on the advice of their leader.

Suggested guidelines for advancement are three years in one phase, or exceptional progress at the local level, or state fair purple or blue ribbon exhibit.

Display a minimum of 50 and not more than 150 specimens in one standard box with glass cover. Specimens should represent at least 8 different orders and a date/locality label is required for each specimen. A special educational exhibit may be made as an option to the collection exhibit.

## 202 Intermediate Phase

For members who have advanced from the Beginning Phase by satisfying their leader with progress at the local level, or a state fair purple or blue ribbon exhibit, or a maximum of three years in the previous phase.

Display a minimum of 100 and not more than 300 specimens. Two standard boxes can be used. Specimens must represent and identify at least 10 different orders. Only specimens of six common orders need be identified to family. Date/locality labels required. A special educational exhibit may be made as an option to the collection exhibit.

## 203 Advanced Phase

For older members who have advanced from the Intermediate Phase by satisfying their leader with progress at the local level of a state fair purple or blue ribbon exhibit, or a maximum of three years in the previous phase.

Display a minimum of 150 and not more than 450 specimens in not more than three standard boxes. Specimens must represent and identify at least 12 different orders. Specimens of six common orders need be identified to family. All butterflies labeled with correct common name. Date/locality labels required. A special educational exhibit may be

made as an option to the collection exhibit.

## 204 Bee Science

4-H'ers should be 10 years and older. They will establish one or more colonies of honey bees and manage them for one season. They may exhibit extracted (liquid) honey produced by these colonies or choose to exhibit a special educational exhibit. Initial cost for establishing one honey bee colony may be \$100-150.

## 205 Exploring

This project strives "to search through or into for discovery." Exploring is an experience of discovery for the young 4-H'er or new 4-H members. This is a project designed to be done in small groups in which 4-H'ers sample a variety of activities offered in 4-H such as cooking, safety, craftsmanship, woodworking, drama, animals, nature, recreation as well as the variety of talents and interests within themselves. The possibilities for exploration are limited only by those limits set by the group itself.

Exploring deals with questions like how am I alike and different from my friends? what's a 4-H club? what can I contribute to my family? Learning occurs by involvement with family and project group members as 4-H'ers explore themselves and the world around them.

Some sample project meetings have been: hillbilly band day, hazard hunt day, make a giant pizza day, create a creature day, junk food day, animal day, nature day, have a party day. Your project leader can help you explore other possibilities.

Materials are designed to be best used by 4-H'ers who are 9 years old and older.

## 206 Family Strengths

Explore family heritage with your family and do other fun activities together as a family.

## Foods and Nutrition 208

### Neat-to-Eat Snacks

For 7- and 8-year-old beginning cooks. Develop food preparation skills, and learn about nutrition and food safety as they make and eat nutritious snacks from the four food groups.

## 209 Snacks and Mini-Meals

For the not-quite-beginning-stage cooks who want to learn recipes which

are a bit more difficult and make use of the stove. This phase continues training in good cooking habits and eating proper foods.

## 210 Fitting It All Together

Introduces 9-12 year-old members to information on nutrition, fitness and a healthy lifestyle. Will prepare pizza, milk drinks, nachos, sandwiches, fruit snacks, stir-fry vegetables and chili-con-carne. (Counties **must** purchase member books)

## 211 All American Foods

For 10- to 12-year-olds. Explore America in a unique way — discovering the people, history, and traditions of our country through the foods we like to eat.

Examples of nutritious meals included are:

- Pecos Bill Burgers.
- Star Spangled Salads.
- Yankee Snickerdoodles.
- Squanto's Beans.
- Dixie Breakfast.

## 212 Quick Meals

Learn to plan and prepare quick meals such as:

- Spaghetti.
- Stew.
- Main dish salads.
- Omelet.
- Beans.
- Cornbread.

## 213 Foods with an International Flavor

Learn to explore the language, foods, and traditions of our neighbors around the world. Cook foods from Mexico, Germany, Scandinavia, Italy, and Japan.

## 214 Teens Entertain

Learn to entertain friends with snacks, meals and parties through serving chili, pizza, lasagna.

Plan and serve a luau.

Learn to make mealtime special.

## 215 Yeast Breads

Understand the principles and techniques involved in making yeast breads and rolls.

## 216 Advanced Foods

Explore your food interests. Spend 30-50 hours involved in a special food interest area such as:

Microwave cooking.

Entertaining.  
Decorating foods.  
Dried foods.  
Gifts from the kitchen.  
Weight control, etc.

220

## Food Preservation

Enroll in food preservation and select one or more of the 4 units which are suggested in the member material:

### Unit 1

Canning and freezing fruits, canning tomatoes, and making home sweet spreads (except jelly).

### Unit 2

Canning and freezing low acid foods and making pickles and relishes.

### Unit 3

Making jelly, freezing main dishes, baked products, desserts, etc., and preserving more of other foods.

### Unit 4

Drying fruits, vegetables, herbs, and meats.

## Forestry

227

### Junior 4-H Forester

This project emphasizes tree identification through tree leaf or leaf, twig and fruit collections. The member will learn to use a tree key and various references to assist in identification, and obtain a basic understanding of how a tree grows. Leaf or leaf, twig and fruit collections may be exhibited at the county fair.

A 4-H'er should enroll in this phase a minimum of two years before enrolling in the Senior 4-H Forester phase.

228

### Senior 4-H Forester

This project can involve any one or a combination of the following: forest, Christmas tree, windbreak or fuelwood planting, or improving an existing woodlot through pruning, thinning, etc. The project will develop an understanding of the interrelationships between forest, soil, water, wildlife and man.

Members will begin with a plan and then actually carry out the prescribed activities with the resource. A resource area must be available to work with. It may belong to the 4-H'er, his parents, or any consenting landowner.

A three-ring loose-leaf binder project book will contain written and pictorial documentation of activities and accomplishments.

An area extension forester will provide consultation and direction to each member.

233

## Fun with Children

This project gives the 9- to 12-year-old member a chance to help a pre-school "fun friend" in his development in many areas such as Stories and Make Believe, Art and Music, Toys and Play, and Nature and Animal Activities.

## Geology

Members may enroll in only one of Units 1, 2, or 3 in any given year. However, they may take Unit 4 in combination with any other unit during the same year. Progress from the beginning to the advanced phases upon satisfying the project leader. If they enroll in Unit 1, 2 or 3, secure a copy of the Geology manual, *Exploring the World Through Geology*. If they enroll in Unit 4, ask for the manual, *Cutting and Polishing Gemstones and Minerals*.

235

### Unit 1: Beginning Geology (Collecting Rocks, Minerals, and Fossils)

Learn how to properly take a field trip for the purpose of collecting rocks, minerals, and fossils.

Learn how to clean, identify, label, and display the specimens you collect.

Make a collection of the rocks, minerals, and fossils collected. Use project book (4-H 303) as a guide to the number of specimens to have in the collection depending upon the number of years enrolled in the beginning project.



Safety is an important aspect of the electric project.

Do one or more of the additional exercises suggested in the project book.

236

### Unit 2: Intermediate Geology (Classifying Rocks, Minerals, and Fossils)

Continue to add to the rock, mineral, and fossil collection.

Learn how to properly classify rocks, minerals, and fossils.

Make at least three of the tests for identifying rocks and minerals mentioned in the Geology manual (hardness test for minerals, acid tests for calcium carbonates, streak tests for minerals, luster test, etc.).

Make at least two field trips each year to areas different than those visited in previous years.

Each year, select and carry out a special project (see project book, 4-H 304, for suggestions).

Collections should have at least 45 rocks, minerals, and fossils.

Exhibits of Indian artifacts or lapidary work (polishing stones) may be used as special project under this unit.

237

### Unit 3: Advanced Geology (Use of Geological Information in Everyday living)

Select and complete one of the special projects described in the 4-H Geological

Information in Everyday Living." Use the project book, 4-H 302.

**238**

### **Unit 4: Lapidary (Cutting and Polishing Gemstones and Minerals)**

Learn about the sources and uses of rocks and minerals which will be polished.

Collect rocks and minerals from Kansas and other states that can be cut and polished.

Exhibit results of the lapidary project and record findings on the lapidary record sheet.

After completing the first lesson, "Gemstone and Mineral Collection," 4-H'ers may select one or more of the remaining eight lessons each year. Each lesson has a basic phase and a certain number of optional exercises which are required to complete the lesson. These lessons are described in the member's manual, *Cutting and Polishing Gemstones and Minerals*.

Younger 4-H members may select the beginning lessons, but should be at least 12-years-old before enrolling in lessons which require skilled power equipment (lessons 3-9).

**243**

### **Health**

Develop desirable health habits and attitudes toward personal health — physical, mental, and emotional. Focus on health areas such as smoking, drug abuse, alcohol, and personal fitness.

**245**

### **Home Environment**

Acquire a knowledge of principles and materials necessary to make the home more attractive, convenient and comfortable within the family's resources.

Make things for your own room, such as rugs, wastepaper baskets, bulletin boards, etc.

Make a list of things that would improve the rooms in the home.

Decide what you and your family will do each year. We encourage the 4-H'ers to work with other family members in making their home improvements. Just keep a record of what member does and what other family members do.

**250**

### **Horse**

Manage at least one light horse of any breed or age.

Keep records on horse or horses from the start of the 4-H year, or as soon as the horse is purchased. Member must manage the horse at least 75% of the time from May 1 through September 30.

Properly identify your horse project on the "4-H Horse Identification Certificate."

Certificate must be in county Extension office by May 1.

Each project horse must be owned and/or managed according to the following:

You may own the horse yourself or immediate family, or your legal guardian.

No more than two members of a family may carry the same horse as a project.

**253**

### **Horseless Horse**

Designed for 4-H'ers who would like to learn about horses, but who are not able to own a horse. They may want to visit a farm or stable to learn about horses, or study project material that is available.

Suggested experiences include presenting a talk or demonstration about something they learned about horses, or participating as a horse judging or horse bowl team member. They may also want to assist with 4-H horse events in their county.

They must enroll in the regular horse project and meet the requirements to be eligible to show a horse at the District or State 4-H Horse Shows.

*Consider including the Veterinary Science Program, page 14, if you enroll in the Horse project.*

### **Horticulture**

The 4-H Horticulture project has six phases. Each phase is independent of the others. Members may work in one or more phases or in just one phase for any number of years.

**255**

### **Flowers and Houseplants**

Grow annual and/or perennial flowers in the yard or garden. Grow and care for houseplants.

**256**

### **Landscape and Turf**

Care for the existing lawn, renovate or establish a new lawn.

Make a plan for the yard or grounds.

Plant the trees or shrubs called for in the plan. One or more years to complete this part of the plan may be needed.

**257**

### **Food from a Minigarden**

If members lack space for a regular garden, they may grow plants for food in window boxes, baskets, tubs, or other containers.

**258**

### **Food from a Family Garden**

Grow vegetables and/or small fruits for family use. Size of the garden varies with member's age.

**259**

### **Food from a Market Garden**

Grow vegetables and/or small fruits for sale. Members may grow only one crop such as tomatoes or potatoes.

**260**

### **Science in Horticulture**

This unit provides 4-H'ers of any age with the opportunity to perform simple experiments with plants.

**265**

### **Knitting**

Each year the 4-H'er will make one large or two small articles. Begin by learning how to cast on, do knit-and-purl stitches, how to increase and decrease.

Each year try new stitches and/or patterns.

### **Leadership**

**273**

### **Focus on Leadership**

4-H'ers will learn about the different styles of leadership they can use to help other 4-H'ers learn. The leadership record is a valuable tool to help teen leaders (same as junior leaders) as they plan and put into action the things they want to do in leadership.

**280**

### **Meats**

New learning experiences expand on foods, beef, swine, and sheep project experiences.

Many individual's interest areas may be explored. Some of the more common include:

Identify retail cuts with methods of cookery.

Evaluate carcasses and cuts for quality and yield differences.

Study food value contribution of meat to human diet.

Select and prepare meat for family meal.

Study meat marketing chain from livestock producer to processor to retailer to consumer. Learn about career opportunities.

Participate in meat identification and judging contests.

### **Pets**

**285**

### **Aquarium Pets**

Keep and observe one or more aquarium pets such as fish (tropical or gold), frog (tadpole) or toad, lizard or salamander, or snake.

Read one book or pamphlet about their kind of pet.

Give a talk or demonstration about their pet.

Complete the record sheet and write a story about the project.

## Enjoy Your Cat

Take care of and learn about at least one cat during the year.

Start with a kitten or mature cat.

Learn the health needs of cats.

Observe and understand the physical make-up of cats.

Teach the cat the rules of the house.

Fill in appropriate pages in the project booklet.

Give a presentation showing something they have learned.

Build a carrying case for their pet (optional).

## 287

### Hand Pets

Keep and care for one or more hand pets (at least four months.)

Read one book or pamphlet about their kind of pet.

Complete the record sheet and write a story about their pet project.

A hand pet may be a rabbit, guinea pig, hamster, or gerbil.

## Photography

## 290

### Getting Acquainted With Your Camera

4-H'ers may use a pocket, instant, semi-adjustable, or fully-adjustable camera. The pictures will be snapshot size and may be of any subject the 4-H'er wishes. While taking pictures 4-H'ers will learn to:

Load and unload film.

Hold and aim the camera.

Take care of film and negatives.

Take horizontal and vertical pictures.

Clean the camera.

Discover how the film works.

## 291

### Improve Your Picture Taking Skills

4-H'ers may use a pocket, instant, semi-adjustable, or fully-automatic camera. The pictures they take and use may be snapshot size or enlargements. 4-H'er should learn to:

Take shots from different angles.

Use the "rule of thirds".

Frame a subject or scene.

Use perspective and leading lines.

Why different films have different speeds and how to use them effectively.

Mount photographs for display.

Take pictures that tell a story.

Record an event, activity, or trip.

Use simple flash.

Make trick shots.

## 292

### Branching Beyond The Basic Camera

4-H'ers may branch and experiment in different areas of photography. Some youngsters may want to concentrate in one or two areas of study. 4-H'ers will learn to:

Use filters, different kinds of lenses and meters.

Take portraits and studio and nature shots.

Make and use a pinhole camera.

Use a twin reflex camera or camera that uses film plates.

Double mount or use other special display techniques.

Make and use a copy stand.

Make your own title slides.

Make a four-to-seven minute slide tape.

Handle a motor drive effectively.

Take pictures to illustrate a book, project records, club history or family memories.

Judge photographs.

Study the history of photography.

## 293

### The Photography Darkroom

4-H'ers concentrate on darkroom techniques and developing film and prints. They may learn to:

Develop film and make proof sheets.

Process and mount slides.

Make a simple enlargement.

Crop effectively, dodge, burn in or edgeburn.

Select a filter or paper grade that is just right.

Tone photographic paper.

Create special effects — printing with double negatives, screening, etc.

Use lithographic film.

Make photographic plates for printing.

## Poultry

## 298

### Market Poultry

Broilers, roasters, capons or turkeys. Start with any number of chicks or poults of either sex for broilers, roasters, and turkeys or cockerels for capons. Follow recommended practices to grow birds to market age in the most economical manner. Keep accurate records.

## 299

### Laying

Grow and/or manage pullets or hens for laying during the project year. Keep accurate records.

## 300

### Exhibition

Start with any number of one species of exhibition poultry (chickens, turkeys, ducks, geese) and feed and manage. Keep appropriate records.

## 301

### Pigeons

Own and care for a minimum of one pair of birds with at least one brood during the first year.

## 305

### Public Speaking

Strive to bring the purpose and value of 4-H work to the attention of the general public in greater measures. You may do so in one or more of these ways.

Talks.

Demonstrations.

Exhibits.

Radio and TV.

Organizing new clubs.

Obtaining new members.

Colored slides and photographs.

Panels and discussions.



Displaying wheat in a booth at the Kansas State Fair is one aspect of the wheat variety test plot program. The state fair also is a place for the sharing of ideas for 4-H'ers across the state.

Plays, skits, and ceremonies.

**306**

## Rabbits

Own and care for one or more does. Raise at least two litters a year from each doe.

Consider including the *Veterinary Science Program*, page 14, if you enroll in the *Rabbit Project*.

## Reading

**307**

### Reading for Enjoyment

Read a minimum of five books, two of which are non-fiction.

Share the book you enjoy best with someone — parents, family, leader or 4-H'er.

Do one or more of the suggested activities and as much of "Know Your Library" as possible. (See *4-H Reading Project*, 4-H 191).

*Optional:*

Prepare an exhibit, either as an individual or club.

Prepare a poster or book display of library aids, such as card catalog, references, or "Readers' Guide."

**308**

### Reading for Project Enrichment

Read project material.

Read for information about projects from other sources.

Read at least one book for pleasure that is related to a project.

Do one or more of the suggested "Activities" and as much as "Know Your Library" as possible. (See *4-H Reading Project*, 4-H 191).

*Optional:*

Make an educational exhibit as an individual or club.

**311**

## Recreation

Plan and conduct recreational activities for family, club, and others. Members may do this alone or with help from others. They may work in one or more of these areas or in other areas of recreation.

Singing and music.

Folk and square dancing.

Sports.

Arts and crafts.

Hobbies.

Parties and picnics.

Social recreation.

Family fun.

Plays.

Stunts.

Outdoor cookery.

**313**

## Rocketry

Develop an awareness of the basic concepts of space science and aeronautics.

Obtain an interest and awareness of the impact of the aerospace program on society.

Explore areas of interest in the aerospace program.

Explore aerospace careers.

Participate in experiences in aerospace science that will enhance the individual's responsible growth toward productive citizenship.

Learn to design, construct and fly rockets.

Give talks and demonstrations on rocketry.

Keep a record on rockets built, flown and displayed.

Learn and practice rocketry safety.

**315**

## Safety

Study and practice safety living habits and develop greater safety awareness within family and community.

Member may work as an individual or as a club.

Work in one or more of these areas:

Farm.

Traffic.

Home.

Fire.

Animals.

Recreation.

Chemicals.

Related to other projects.

Survey of Safety.

"Survey of Safety" is a two-level program which provides opportunity for participation and recognition of 4-H'ers of different age levels in the "Safety Starter" and "Safety Senior" programs. (See *Survey of Safety*, 4-H 129, for details).

**330**

## Self Determined

Create a project by developing the *what, why, when, where, who* and *how* into an action plan designed by and for the member.

A self determined project may be:

A new or different project.

An expansion of a traditional project.

A self determined project is a process of problem solving.

Request bulletin 4-H 394, *Select, Plan and Evaluate*, from your Extension agent.

Examples of the self determined project titles are:

*Agriculture and Related Areas*

Comparison of Hay Making Methods.

Small Animal Behavior.

Taxidermy.

Welding.

Skiing.

Weather Forecasting.

Range Management.

*Home Economics*

Cake Decorating.

Completing Your Family Tree.

Early Childhood and Learning.

Consumer Laws.

Changing Food Patterns.

Changing Lifestyles.

Value Comparisons Between Generations.

Fashion Design.

Mobile Home Living.

*Other*

Radio and TV Advertising.

Leisure in Today's Society.

Working with Handicapped Children.

Cross Cultural Exchanges.

Automotive.

Arrowheads.

## Sheep

**333**

### Market Lamb

Own one or more purebred, crossbred, or grade lambs at least 90 days before any recognized show.

Identify all animals with an approved tag. Feed and manage the lamb during the fattening period.

Weigh market lambs when the project starts and at fair time to figure average daily gain, feed costs, and financial return.

**334**

### Registered Breeding Sheep

Own one or more registered purebred ewe lambs, yearling ewes or older ewes.

Feed and manage ewes for breeding.

Keep appropriate production records including ram service fees.

Lambs produced may be fed for market or breeding.

Identify animals properly and register with breed association.

**335**

### Commercial Breeding Sheep

Own one or more serviceable ewes. The ewes may be purebred, grade, range or native.

Breed ewes to a sire-breed ram. (Ram may be part of the project.)

Feed and manage ewes through the gestation, lambing, and nursing period. (Lambs produced may be fed out or sold as feeder lambs).

Consider including the *Veterinary Science Program*, page 14, if you enroll in the *Sheep Project*.

**336**

## Shooting Sports

Learn a safe and effective way to shoot a pellet gun; .22 rifle, and shotgun. Enroll in this project ONLY if your county has a 4-H trained team of leaders.

## Small Engines

340

### Unit 1: Operation and Maintenance

Learn the parts of a gasoline engine and their functions.

Perform service on one or more small engines.

Keep a record of the service performed on the engine.

Practice safe operation of implements, tools, and use of fuels.

Develop a system for checking a non-running or a poorly operating engine for causes of trouble.

Become competent in correcting engine troubles.

342

### Unit 3: Lawn and Garden Power Equipment

This phase is mainly about the rotary lawn mower, the rotary tiller, and how power is transmitted.

Learn and practice safety rules for a mower and/or tiller.

Learn how to operate this equipment correctly.

Learn how power is transmitted from the engine to the working unit.

Learn to do minor maintenance jobs on the mower and/or tiller.

## Swine

345

### Market Pig

Own one or more purebred, crossbred, or grade feeder pigs.

Feed and manage the pig during the fattening period.

Pig must be owned for at least 90 days to be eligible to be exhibited.

Weigh and identify your pigs at the start of the project.

346

### Breeding Gilt

Own one or more purebred or crossbred gilts.

Manage and feed the gilts for breeding purposes.

Gilt must be owned for at least 90 days to be eligible to be exhibited.

Only registered gilts born after February 1 of the current year can be shown at state shows.

347

### Sow and Litter

Own one or more purebred, grade, or crossbred sows.

Breed Association programs should be followed as to care and management of project.

Keep records on fall farrowed litters as well as spring farrowed litters.

Pigs shown from these litters may be

exhibited in market barrow or gilt classes if members are enrolled in those projects and complete the appropriate records.

Consider including the *Veterinary Science Program*, page 14, if you enroll in the *Swine Project*.

## Tractor

Be responsible for the correct care and maintenance of one or more farm tractors.

Fill out the worksheets on each tractor.

If members do not drive a tractor or are just learning to drive, enroll in the first year. Choose second, third, or fourth year according to the amount of experience they have had in driving a tractor.

350

### First Year — Get Acquainted With Your Tractor

Learning How to Be Safe

What Makes an Engine Run

Nuts, Bolts, Screws, and Rivets

The Instrument Panel

Controls for Your Tractor

Daily Maintenance and Safety Check

Starting and Stopping Your Tractor

Clean Air for Your Engine

Periodic Lubrication and Maintenance

351

### Second Year — Assuming Safe Efficient Operation

Tractor Safety on the Farm

Oil for the Engine

Mixing Fuel and Air

Battery Service and Spark Plugs

Cooling Systems for Engines

Care of Tires

General Lubrication

Tractor Records and Operating Costs

352

### Third Year — Improving Your Skills

Tractor Safety on the Highway

Engine Ignition Systems

Hitches, PTO, and Hydraulic Controls

Steering, Brakes, and Front Wheels

Valves and Valve Service

Power Transmissions

Winter Care and Trouble Shooting

Tractor Records and Ownership Costs

353

### Advanced Years — Machinery Care and Safety

This unit is planned so members may work in machinery care for three or four years.

Safe Use of Farm Machinery

Transmitting Power

Tools for Breaking the Soil

Applicators for Chemicals

Servicing Seed Planters

Cutters for Crops

Seed Separation

Farm Machinery Management

The unit, "Tools for Breaking the Soil," may be a year's work if there are several machines in this unit on the farm. If not, combine one or two machines from this unit with machines from other units to make a year's work in the project.

The unit, "Farm Machinery Management," should be part of the third or fourth year's work in machinery care.

354

## Hazardous Occupations

This makes it possible for 14- and 15-year-olds to work on a farm driving a tractor for someone other than a parent. Federal regulations require 14- and 15-year-olds to have this training to permit them to drive a tractor for someone other than a parent.

## Veterinary Science

To help youth better understand animals, their health and disease problems, and how this relates to man, three units of study are offered:

360

### Unit 1: The Normal Animal

Attitude and Behavior

The Skin Membranes and Intestinal Discharges

Body Temperature, Pulse, and Respiration Rate

Maintaining Animal Health

Cleaning and Disinfection

The Cells of the Animal Body

The Organs and Systems of the Animal Body

361

### Unit 2: Animal Disease

Introduction to Disease

Bacteria and Disease

Viruses and Disease

External Parasites

Nutrition and Disease

Poisons and Disease

Stress and Disease

Hereditry and Disease

362

### Unit 3: Immunology, Zoonoses and Public Health

Introduction to Immunology

Mechanisms of Invasions by Pathogens

Development of Immunity — Natural,

Acquired, Active, and Passive

Immunization of Animals — Biologic Agents and Their Administration

Allergin Theory

Zoonoses and Public Health

The completion of one unit of study could be considered a project, or the unit of study may be used to enrich any livestock, horse, poultry, rabbit, dog or dairy project.

# Wildlife

365

## The Birds Around You

"Birds Around You" was designed to help members learn to identify and manage the bird life we share. Emphasis of the project is on identification of birds, identification and improvement of habitat for birds and studying birds' nesting and feeding habits. The project includes field trips, study hikes, and construction of bird houses and feeders.

366

## Reptiles and Amphibians

Most young people have strong feelings about snakes, frogs, toads, and turtles. This project offers help in finding, identifying and studying these important creatures.

The project emphasizes learning to treat reptiles and amphibians in a positive and mature way.

367

## Acres for Wildlife

Members practice management of land and the living things on it. Major steps of the project are: to contact a landowner or operator, seek his cooperation, locate an acre or more of wildlife cover which he is willing to set aside, ask him to enroll this land and manage this land for wildlife production. Members have the opportunity to help the landowner/operator with wildlife management practices, record these practices, and record the wildlife usage of the area.

368

## Fur Harvest

The member has the opportunity to identify and study the natural history of fur bearers, learn how to set the most humane and efficient traps, make efficient sets, catch and harvest fur bearers, skin and prepare the furs for market, and tips on marketing or preserving furs. In agriculture, traps are often necessary to control wildlife damage to sheep, cattle and other livestock and poultry. This project offers training to help solve wildlife-caused problems. Record keeping is optional. In the autumn of most years two - to -three-day area fur harvest camps are conducted. These provide material related to this project.

369

## Kansas Mammals

Learn about mammals and how to classify them into seven major groups. Key characteristics of each group showing tracks and suggested activities to learn about mammals are included. Additional suggestions about handling wild mammals, materials and equipment and assembling notes and data are included in the member's manual.

370

## Endangered Species

This project is divided into two parts. One is devoted to a study of and a search for a black-footed ferret, the rarest and most endangered mammal in North America that might be still living in western Kansas from Highway 81 west. The other division of this project involves all endangered wildlife and a study of the total subject.

371

## Let's Go Fishing

Like most activities, fishing requires a certain degree of knowledge and skill for success. This project helps beginning anglers learn the basic elements of how, when, where and with what to fish.

Goals include a study of life processes (food habits, predation, habitat requirements, etc.) Records are not required. In the late spring or summer some area 4-H fishing clinics are held.

## Woodworking

The project is divided into four units which differ in the amount of experience required, woodworking competence and ability to do a larger volume of work. Experience determines the unit in which 4-H'ers enroll.

375

### Unit 1: Working with Wood and Tools

Those who are learning to use hand tools should enroll in this unit. 4-H'ers may carry Unit 1 for one or more years. Use hand tools only.

Learn about tools needed for this unit, measuring and marking, making a square cut, cutting curves, nailing, and finishes for the articles you make.

The following are suggestions of things to make:

- Napkin holder.
- Sanding block.
- Book ends.
- Broom holder.

376

### Unit 2: The Wonderful World of Woods

Because members will be learning to use power tools, for safety purposes they should be at least 10 years old.

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MANHATTAN, KANSAS**

4-H 430 Revised

Learn how to identify, measure, and buy wood; use an electric drill, sander, saber saw, and jig saw to make woodworking items from suggested plans in the member's guide.

377

### Unit 3: Building Bigger Things

Those who enroll in this unit should have some experience in woodworking. They may make articles or do repair or maintenance jobs or a combination of both.

Learn about kinds of wood, particle and fiberboard, how to use and sharpen wood chisels, how to use planes and clamps, and about joints in wood.

The following are suggestions of types of things to make:

- Sawhorse.
- Book rack.
- Household furniture.
- Gun rack.
- (See note.)

Suggestions for repair or maintenance jobs:

- Replace windowpane.
- Replace screen on door or window.
- Reputty a window.
- Paint porch floor.
- Rehang a door.
- Refinish a piece of furniture.
- Paint a building.
- Reroof a building.
- Repair a squeaky floor.

378

### Unit 4: Craftsman

Those who enroll in this unit should have considerable experience in woodworking. They may make articles or do repair or maintenance jobs or a combination of both.

Learn to care for and sharpen tools; learn about a grinder, electric hand saw, saber saw, circular saw, jointer, band saw, drill press, gluing, painting, and finishing wood. The emphasis in this unit is learning to use power tools.

The following are suggestions of the type of articles you may make:

- Work bench.
- Study desk.
- Picnic table and benches.
- Household furniture.

See suggestions for repair and maintenance given in Unit 3.

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File Code: 4-H and Youth—2



# Youth is avid cyclist

## He talks about war wounds

by Joan Istas

The newly emerging sun catches the lone bicyclist in its rays, holding him, pinpointing him against the southeastern Kansas sky.

It's 7:15 a.m., and 16-year-old Tom O'Bryan is making his daily sojourn to school — a ride that takes him 10 miles.

An avid bicyclist, Tom rides a U.S.-made Klein he purchased for \$875 — a buy, he says, that was quite a step up from his Trek touring bike.

"It was like going from a Ford to a Cadillac or an Italian sports car," the 6'6" teen says.

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*"My life rotates around riding my bike ..."*

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Tom shopped for a half year for the Klein while he compiled money. Tune-ups and repairs made in his bike shop — Tom's Bike Shop —, sales from 4-H pigs and money earned by working for his Uncle Daniel all went toward the purchase.

When he purchased the Klein, he got exactly what he wanted — a frame made of high-strength aluminum steel that keeps the total weight of the bike at 22 pounds, custom-made wheels and sealed bearings.

Tom has racked up over 4,000 miles on the bike, including his first race competition in which he reached speeds over 20 miles per hour. He also participates in the annual Bike Across Kansas.

The Bourbon County youth didn't start with lightweight bikes. Like most youngsters, his first bike was a special dirt bike. Shortly after he enrolled in 4-H and the bicycle project at the age of 7, he tore the bike apart until it was mere pieces strewn across the garage — pieces he was unable to fit back into a semblance of bike again.

"I just got carried away," he says with a rueful grin.

A local bike shop was able to assemble the pieces into a bike, but by that time Tom, with the advice of a friend, was purchasing a Trek touring bike for \$350.

"I bought it; then realized how much that was," Tom says. He didn't have to break the news to his mother; she was with him when he made the purchase, but Dad was a different story.

"I was kind of afraid to tell Dad," Tom recalls. Surprisingly Dad took it in stride and even purchased Mom a bike for Mother's Day so she could accompany Tom on his first Bike Across Kansas. A year later, sister Ann, joined the two in the state outing.

As a veteran bicyclist, Tom talks about war wounds — about the accidents and near misses every bicyclist has on the road. There was the time he took a spill and washed



Tom with the bicycle stand he made.

the blood from his knees with Kool Aid. It was the only liquid available. And the time he almost got lost when he took the wrong route on the Bike Across Kansas. His heart still thuds a bit when he remembers the time he almost got hit by a semi-truck.

These experiences have made Tom a strong advocate of bicycle safety. He always wears a helmet and bright clothing. He rides next to the white line on the highway at all times and uses hand signals for turns. If possible, he looks behind him before making turns.

As the Bourbon County bicycle project leader, he tells his project members about safety, helps the youths repair their own bikes and shows them how to adjust their bikes to fit their body. Each project member is encouraged to exhibit a bicycle safety poster at the county fair.

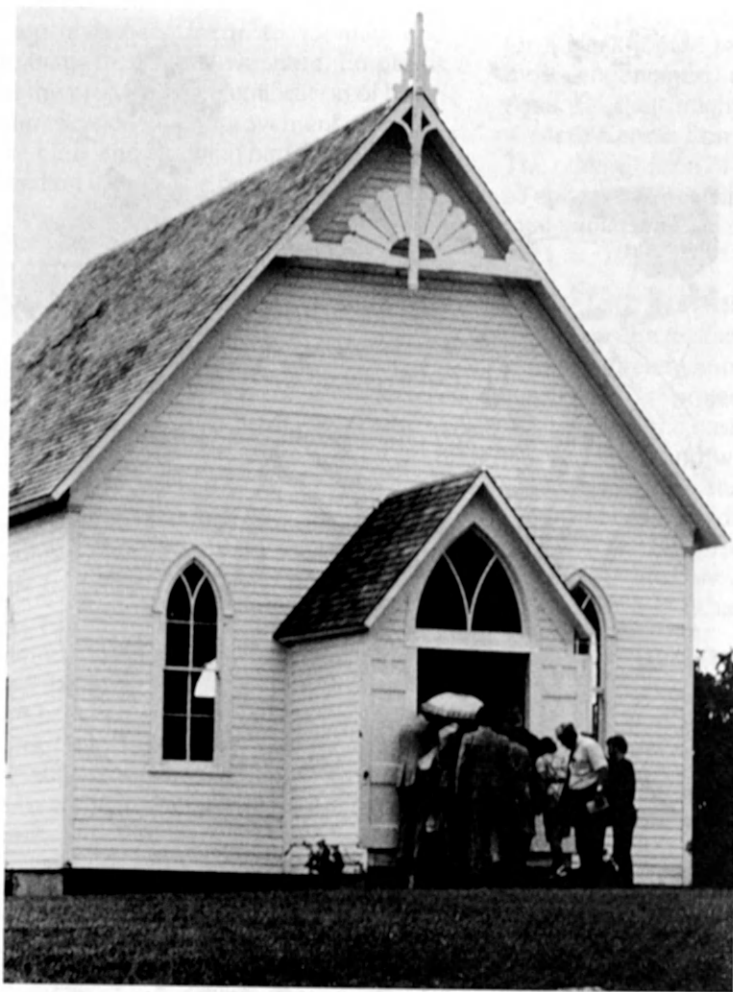
Tom shares his knowledge of cycling by speaking about the sport to Hiattville 4-H club members, at club days and in his high school speech class.

Tom also planned a bike tour of southeast Kansas in which 38 bicyclists covered 57 miles.

Someday Tom hopes to be biking across Kansas with his bicycle project members. And upon graduation from high school he and a friend plan to bike across the U.S.

"My life rotates around riding my bike and helping others become aware of the benefits of cycling," Tom says. "I consider bicycling to be a life-long sport for me."

# Century-old church is at RSR



The 100-year-old Parallel Presbyterian Church is now a part of the historical area at Rock Springs 4-H Center.

The wood frame church, a project of the Master Farmer-Homemaker Association, joins the one room schoolhouse in that area. The area preserves a piece of history for youths and others who use Rock Springs facilities. Both schoolhouse and church are available for use by groups.

The country church was moved to Rock Springs from Garfield Township in Clay County where it was built in 1885. Vacant since its merger in 1967 with the United Presbyterian and Methodist churches of Clifton, it appeared it might go the way of many old buildings and be used to store hay.

But the people of the community were determined this was not to be its fate. When they heard the Kansas 4-H Foundation wanted a country church, it seemed the answer to their prayers, and the township soon donated the church to the Foundation.

The church was transported 70 miles to the year-round conference center, west of Junction City, in the late fall of 1984. The move was not an easy one. Because of its great height, the roof had to be removed before transporting.

New wood shake shingles now provide roofing, and the original cathedral ceiling is back in place. The interior has been papered with wallpaper authentic of the 1885 era. The lattice work in front of the church has been repaired and the church painted white. Work was done by Rock Springs Ranch Staff.

The Master Farmer-Homemaker Association has donated \$60,000 to the Kansas 4-H program in its 30-year history.

## Quinlan Honored

The photograph of the master planner at Rock Springs 4-H Center, L.R. Quinlan, Manhattan, now hangs in Williams Dining Hall.

Quinlan, who is nationally known for his ability to create and preserve nature's beauty in his landscaping work, has been a member of the Rock Springs committee since 1946 when the ranch was purchased for 4-H groups. He provided the master plan for buildings and landscape at the year-round conference center.

"His ability to visualize the possibilities can now be seen by everyone. His work is a beautiful and lasting moment to him," said J. Harold Johnson, Kansas 4-H Foundation board member.

During the almost 20 years Quinlan served on the Rock Springs board, Heritage Hall, Williams Dining Hall, the chapel and winterized cottages were constructed. All include native limestone in their structure and blend naturally into the landscape. The tree walk, council circle and shelterhouses have become a reality.



## Youth works for 4-H goals

Beef, wildflowers and horse all are part of agriculture for 17-year-old Rachel Smith of the Sheridan County Solomon Valley 4-H Club.

In taking wildflowers as a self-determined project, Rachel learned about the musk thistle, a noxious weed, and spoke about its effects on rangeland.

She annually shows a market steer at the county fair and remembers her first steer as a big animal that was just plain mean. She'll probably never forget the steer her family nicknamed her "praying steer." From time to time the animal would just drop down on its knees in a praying position.

Though Rachel enjoys the beef project, her favorite project is horse.

"I like showing horses; I have horses in my blood," she says.

Rachel shows in both western and English classes in 4-H and Quarter Horse association shows.

She especially enjoys riding English because it offers variety western riding doesn't. "When you post at a trot, you have more contact with the horse," she explains.

Rachel learned how to ride English last year and also started jumping late last summer.

In 4-H Rachel has learned to continue to work to achieve her goals. Last year she finally attained a long-time goal when she qualified at district to compete at the state 4-H horse show.

"I enjoyed competing at state," she says. "It was really neat. I looked forward to it for a long time. I'd gone down and watched for so many years."

Rachel competed in senior horsemanship, trail and showmanship at halter at the state show.

The 17-year-old youth has competed at the state horse judging contest as a member of the county horse judging team.

"I enjoy judging," she says. "It helps you when you are showing a horse. It puts you on the other side of the fence."

Rachel says she has learned a lot by being in 4-H.

"I have learned how to make friends, not to judge people by the way they look, to look deeper," she says. "I have learned if you want something you have to work hard to accomplish it."

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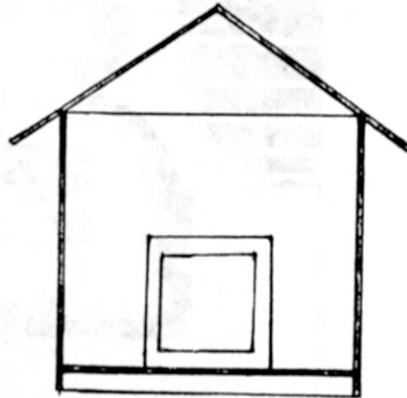
The great Kansas get-together is together again! Grandstand entertainment from a variety of car races and combine demolitions to 'star' celebrities, livestock exhibits to fine paintings, domestic arts to commercial displays, and of course, The Royal American Midway. It's all together again.

## Great *Free* Entertainment

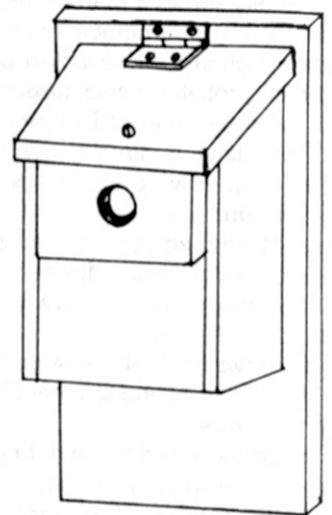
- **THE KINSMEN** (*One of Australia's top vocal groups*)  
Saturday, Sunday, and Monday
- **SAWYER BROWN** with Kathy Mattea - Tuesday
- **TRUTH OR CONSEQUENCES** and Ventriloquist  
JAY JOHNSON - Wednesday and Thursday
- **PINKARD & BOWDEN** - Friday, Saturday, and Sunday

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## 4-H Woodworking Plans from YOUR LUMBER DEALER



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# Woodworking members build bluebird houses

## OTHER PLANS AVAILABLE

- Accent Table
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- Chain-Saw Box
- Deacon's Bench
- Gun Rack
- Hall Tree
- Martin Bird House
- Microwave Stand
- Night Stand
- Oak Chair
- Paper Towel Holder
- Patio Table
- Pedestal Desk
- Plant Stand
- Redwood Cart
- Stereo Case
- Spoon Rack
- Toy Boat
- Wooden Stool
- Work Table
- Bird Feeder
- Tool Box

Lucky 4's woodworking project members of Woodson County are building bluebird houses that club members will put up along a nature trail in the rural area.

The bird houses have openings of no more than 1½ inches in diameter. Larger openings allow starlings to use the house. The roofs are hinged so the old nests can be removed and the house cleaned at the end of the nesting season. Drain holes in the bottom allow rainwater to run

## A game idea for your club

This game is usually best played on all fours and with lots of hot air!  
Equipment: Plastic drinking straws, cut in half

Styrofoam packing bits  
Scraps of paper

Space: Any open room  
Time: 15 minutes

The Game: Set up a beginning point and goal. Teams or individuals use the straws to push, blow, or carry the styrofoam bits or scraps of paper across the floor to the goal line. One way is to blow the bits along the ground. Another way is to suck in on the straw and hold the bit or paper in place with suction. No fair stabbing the styrofoam piece with your straw! Take turns in a relay race. See which ways you and your friends can move the bits most quickly.

*Club game ideas are welcome. Please submit contributions to the Kansas 4-H Journal, 116 Umberger, KSU, Manhattan, KS 66506.*

out.

The houses will be erected overlooking open spaces on trees or posts 5 to 10 feet above the ground. Houses will be put up a quarter mile apart and face away from roads and trails.

Houses should be erected in March for the bluebird migrates here from the north at this time. Plenty of bird houses should be put up because the sparrow also uses the houses for nesting.

The bluebird is near extinction because it nests in dead trees and stumps with openings created by decay, or tree hollows abandoned by woodpeckers. Man cuts down the trees and uproots the stumps, eliminating the bird's natural nesting place.

Club members believe this is a very worthwhile project.

—Mike Cavender, Jr., reporter

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## Recognition gets results

Elk County Club Days are an important part of that county's 4-H program.

Every club has a model meeting, and a high percentage of individuals participate in one or more events. In 1985, there were 98 entries in demonstrations, project talks, public speaking and talent. Forty-seven 4-H'ers were in three or more events.

Agents KelLee Parr and Rachelle Mengarelli honor participants by presenting special ribbons which show how many events they participate in. Last year "I love 4-H" buttons were used, and this year, Kansas 4-H pins presented. 4-H'ers in three or more events receive pins with 1 1/4 inch grossgrain ribbon for each event.

Pins and congratulatory letters are mailed to the 4-H'er so 4-H'ers can wear pins to club days.

## Acts needed for art-in

Participants are still needed for the art in at the Kansas State Fair.

Skits, dance numbers, vocal groups, bands and other acts that lend themselves well to the stage are welcome. Acts are needed for the weekends of Sept. 7 and 8 and 14 and 15.

For more information, contact Marcia McFarland, 211 Umberger Hall, KSU, Manhattan, Ks. 66506.

## Thank you

Thanks to the First State Bank of Leoti for sponsoring Kansas 4-H Journal subscriptions for Wichita County 4-H families for 33 years, say Pleasant Valley Boosters club members.

In appreciation of the bank's long-time support of the Wichita County 4-H program, the club presented Bill Speak, bank president, with a gigantic thank you card made by club members. Danny Wieggers, club president, and Christine Gerstberger, club secretary, made the presentation.

"The Pleasant Valley Boosters felt the card would be a nice way to say thank you to the bank for its generous support of 4-H," said Mary Gerstberger, a 4-H leader.



## Is There Life After 4-H?

Leadership in agriculture is important. That is why Farm Bureau supports leadership development programs like 4-H.

Farm Bureau knows that agriculture's future leaders will surface through organizations stressing individual achievement, community support and leadership skills.

To further develop the **head, heart, hands** and **health**, Farm Bureau's Young Farmers and Ranchers program offers opportunities for local involvement through the state's largest farm organization.

Check it out by contacting your local county Farm Bureau office.



**Kansas Farm Bureau, Inc.**

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# Southeast area roundup



The five 4-H clubs in Elk County helped make the 50th anniversary celebration of the Elk County Extension service a success. Each club had a parade entry, and clubs throughout the county joined together to sing for the afternoon program. Four 4-H'ers in the photography project were official photographers.

Osage Pioneers Junior Leaders of Osage County provide a unique traveling trophy for the individual who gives the best project talk or demonstration at each club meeting. A panel of two judges selects the winning entry.

The winner of the trophy takes it home for a month and returns it at the next club meeting.

—Kelly Burger, reporter

The Blue Ribbon 4-H Club of Coffey County had a busy summer. Five of the club's families hosted LABO youths from Japan. The club also hosted an exchange meeting with the Stringtown Bombers and had a tour of livestock projects.

—Susan Hamman, secretary

Lyon County's Busy Beaver club, with the aid of a grant through the Kansas 4-H Foundation from Pioneer Hybrid International Inc., Lincoln, Neb., is cleaning and repairing the Hoosier Creek Community Center.

Grant funds are being used to purchase draperies, stain the new wooden trim around the windows, paint and repair playground equipment and the center sign.

The restoration and maintenance of the building is an ongoing club project. In the past, club members have painted the exterior, helped shingle the roof, erected a sign to identify the building and worked to improve the interior.

Wesley Miller, reporter

Neosho Valley Busy Bees of Neosho County recently constructed 10 bluebird houses during a club meeting then erected them at the VFW Lake, south of Chanute.

The project is part of the Acres for Wildlife club project. The club's goal is to improve wildlife habitat at the lake. Club members have planted grain sorghum and sunflowers as a source of food for upland game birds like doves, planted non-game wildlife bundles to attract songbirds and built brush piles to protect rabbits and other small wildlife.

Guest speakers have appeared at club meetings to talk about wildlife, and 4-H'ers have taken special field trips to zoos and to the Neosho Wildlife Refuge to observe migratory waterfowl.

—Lora Kilgore

Older members of the SHAFF 4-H Club of Franklin County annually go on a skiing trip.

The trip was begun to keep older club members in 4-H, and it's working.

Money for the trip is raised with monthly paper drives, a volleyball tournament, bake sales, garage sales and by operating concession stands.

By working together to raise funds for the ski trip, older club members also are taking a greater interest in other club activities.

Connley Litton, reporter

The Hillcrest club of Galesburg ordered and distributed over 500 telephone labels on which were printed the name and phone number of the fire and sheriff departments. Over 250 homes were reached with the project.

The project is part of the club's PRIDE project. The club also furnished refreshments for monthly fire department meetings, served a dinner for the Southeast Area Fire Chiefs and purchased marigolds for the planters at the Galesburg school.

Each family has adopted a grandparent, and one member used her calligraphy talent to pen 20 certificates for the senior citizens.

Saying cheese brings a smile to the faces of Bee Creek Beavers of Chautauqua County.

The club annually sells cheese as a club project and one year sold \$12,000 worth of the product. Club jackets are awarded to those who sell \$175 or more of cheese.

Cheese sales pay camp expenses for club members. Sales also have paid for five sets of square dance outfits, a complete sound system and community service projects.

—Sandy Thorne, reporter

The Spirit of '76 4-H Club of Labette County has participated in the Amyotrophic Lateral Sclerosis rummage sale for two years. The sale helps those in the surrounding area who are afflicted with the disease and also goes for research.

ALS strikes four times as many people than muscular dystrophy and as many as multiple sclerosis.

"Our thanks go to those who donated clothing, money and time," says Rebecca Newcomb, club reporter.

Rolling Hills club members gave Miami Countians a breath of life by promoting health as a club project.

The Vial of Life program was promoted through booths and talks. Club members wrote newspaper articles about the Cancer Hotline and other health organizations. CPR was promoted.

Floats in parades told about immunizations, eating the correct foods, exercise and blood pressure checks. Skits presented at club meetings told how to react in an emergency.

During the Christmas season, club members took apple cider and cards and sang carols for the shut-ins in the community.

Donna DeSpain

A bicycle judging contest? Yes, even bicycles can be judged, say Cherokee County Glittering Stones bicycle project leaders Marlene Clark and Carol Phelps. Project members considered safety when judging bicycles and chose the bicycle they thought was the safest.

"4-H Showtime Theatre" was a success in Chautauqua County. About 60 people attended the dinner theatre that raised money for the county 4-H fund.

Guests enjoyed a meal prepared by 4-H families, and entertainment featuring acts performed at club days. Square dancing, singing, instrumental numbers, dramatic readings, aerobic dance routines, a magic act and a play were presented.

"Everyone did a super job at club day, and we wanted to make the community aware of 4-H talent," says Chautauqua County Home Economist Sharolyn Flaming.

NAB's (non-alcoholic beverages) were served at the two performances. Proceeds from the "4-H Fizz" and fruit drinks went to help pay expenses for a 4-H'er to attend Citizenship-Washington Focus.

Motorists aren't buckling up Montgomery County Rambling Rangers club members found when they served motorists who pulled into a local service station on Memorial Day.

Only 21.8% of the 298 passengers surveyed were wearing seatbelts. Motorists who answered the 4-H'ers survey had their windshields washed free of charge.

The club also plans to sponsor the convincer at the Montgomery County Fair this summer.

Safety has been a club project for three years now. Club members have worked with the sheriff's department on the identification system of crime prevention, given a safety demonstration at county camp, presented talks on seat belt safety to local organizations and sponsored a meeting about tornado safety. The club also donated a child restraint seat to the local Red Cross for the Buckle Up Babes program.

4-H'ers learn about safety through club talks and special demonstrations.

—Salina Smith, reporter

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## HELP WANTED

**4-H Electric Leaders.** **Qualifications:** Enjoy working with boys and girls. Interest in and basic understanding of electricity. No experience necessary. **Responsibilities:** Conduct project meeting. Help 4-H'ers

fill out electric project records. **Starting date:** October 1, 1985. **Fringe Benefits:** Respect and gratitude of 4-H'ers.

### Sound like a big job?

It would be if each electric leader had to start from scratch. But, many resources are available to make the electric project leader's job easier.

- *Complete set of materials.* Each unit includes a manual for leaders and members' manual. The leaders' guide outlines experiments, materials you will need and ideas for extra activities.
- *A Leader's Idea Book* full of plans for 4-H'ers to build.
- *A special electric leaders workshop.* This workshop features sessions on electronics, fair judging, ideas for projects to build, etc. Many electric leaders return year after year to exchange ideas with other leaders.
- *Other help:* Call on other experts to take part in your meetings or to answer specific questions. County Extension agents, local power company representatives and local electricians are good sources of help.

**APPLY NOW!** Contact your County Extension Office  
or your local 4-H club community leaders.

Watch This Page For Ideas on Farm and Home Electric Projects

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