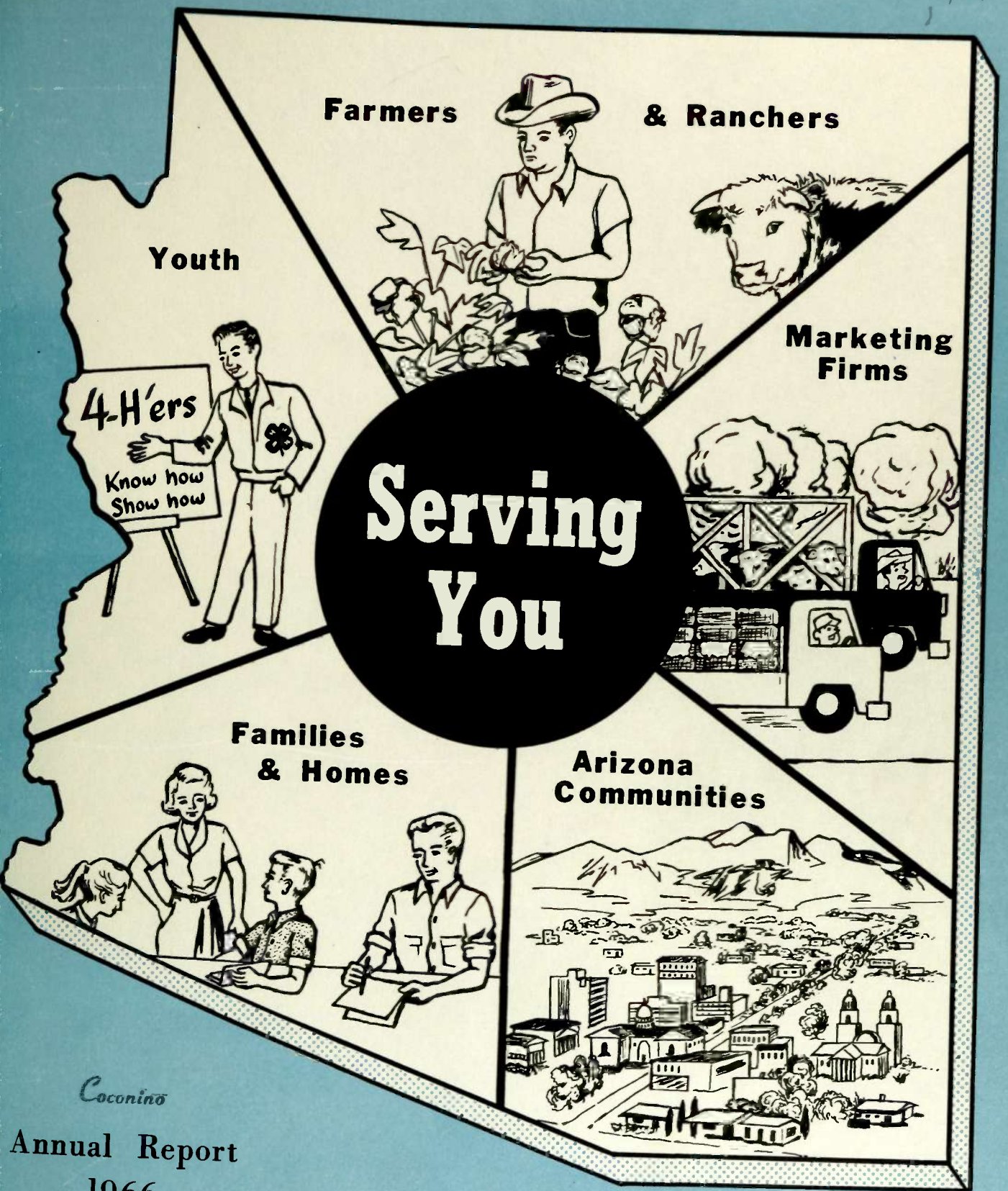


#1



Coconino

Annual Report
1966

Cooperative Extension Service
The University of Arizona
Tucson

COOPERATIVE EXTENSION WORK
IN
AGRICULTURE AND HOME ECONOMICS

STATE OF ARIZONA
P. O. BOX 790
FLAGSTAFF, ARIZONA 86001

THE UNIVERSITY OF ARIZONA
COLLEGE OF AGRICULTURE
U. S. DEPARTMENT OF AGRICULTURE
AND COCONINO COUNTY COOPERATING

AGRICULTURAL EXTENSION SERVICE
AGRICULTURE
HOME ECONOMICS
4-H CLUB

Dear Extension Friend:

Just over fifty years ago, the Smith-Lever Act (1914) created the United States Department of Agriculture and the Extension Service. Part of the law reads: ".....to aid in diffusing among the people of the United States useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of the same....."

The main function of the Extension Service is educational, and this unique program is widely recognized as one of the most successful, out-of-school educational programs in existence. We are in partnership with the U. S. Department of Agriculture, The University of Arizona, and the County Board of Supervisors, to put research to work on farms, in our towns, in our market places and in the homes, so that we, who are here today, and those, who will come tomorrow, may continue to be well-fed, well-clothed and prosperous.

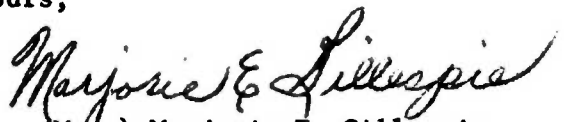
The Extension program had its beginning in Coconino County in 1917. At the present time, the offices are located on the second floor of the Burrus Building, 119 East Aspen, Flagstaff. Your calls and your visits and requests are welcomed. The office is open Monday through Friday, from 8:00 to 12:00 and 1:00 to 5:00. The telephone number is 774-5011, Extension 33; and the mailing address is Post Office Box 790, Flagstaff, Arizona 86001.

We are willing, at all times, to help with related programs in the broad areas of Agriculture and Home Economics.

Sincerely yours,



William M. Brechan
Agricultural Agent in Charge



(Mrs.) Marjorie E. Gillespie
Extension Home Economist

TABLE OF CONTENTS

	Page
I. EXTENSION ORGANIZATION AND PROGRAMMING	1
County Staff and Their Major Areas of Responsibility	
Professional Improvement Opportunities	
How the Extension Program is Developed	
Advisory Groups - The Purpose and Membership	
1966 Education Program by Communities	
A Program Evaluation Project	
II. EXTENSION INFORMATION	5
Circular Letters	
Radio	
Bulletins and Publications	
Press	
III. AGRICULTURE	8
Livestock	
Agronomy	
Horticulture	
IV. MARKETING	18
Livestock Listing Service	
Deciduous Fruit Marketing	
V. FAMILY LIVING	19
Homemaker Clubs and Their Programs	
Special Interest Education Groups	
Other Family Living Programs and Events	
VI. 4-H CLUB ORGANIZATION - YOUTH DEVELOPMENT	32
Club Members Show Diverse Interests	
4-H Leaders	
Junior Leadership	
Leaders Prepare	
Awards and Recognition	
Projects & Related Activity	
Activities and Events	
Serving Other Youth	
VII. COMMUNITY IMPROVEMENT AND PUBLIC AFFAIRS	44
Community Beautification	
County Fair	
Cooperation with Other Agencies and Organizations	

Extension Organization Programming & Evaluation



The Director of the Cooperative Extension Service . . .

--Strives to administer the Extension Service in the most efficient and effective manner possible to ensure that its educational capabilities continue to be readily available to local groups in assisting them to search out and work on pockets of opportunity for raising individual, family, and community well being.

EXTENSION ORGANIZATION AND PROGRAMMING County Staff

MAJOR AREAS OF RESPONSIBILITY

The Agricultural Extension Staff of Coconino County consists of three people: William M. Brechan, Agricultural Agent-in-Charge, who came to the county in 1949; Mrs. Marjorie E. Gillespie, Extension Home Economist, who came to the county in 1963; and Mrs. Rosemary Miles, secretary since 1963.

The Agricultural Agent is responsible for the administration of the overall program, all Agricultural phases of educational work, and the Agricultural phase of the 4-H work. The Extension Home Economist is responsible for all Home Economics phases of educational work, and the Home Economics phases of the 4-H Club work.

PROFESSIONAL IMPROVEMENT OPPORTUNITIES

The Extension Agents take full advantage of keeping abreast with the rapid changes in the fields of Agriculture and Home Economics by the many forms of professional improvement opportunities offered them each year.

The Agricultural Agent attended a one-day Nematology Workshop in Phoenix, to secure up-to-date information on nematode control.

Livestock is the main Agricultural industry in Coconino County. To keep abreast with the latest research information in the feeder cattle phase, the Agricultural Agent attended a three-day school in Tucson on Feeder Cattle.

Greenhouse vegetable growing is becoming more popular to the backyard gardener. A one-day school on greenhouse construction and growing of plants in the greenhouse was attended by the Agricultural Agent.

A Beef Cattle Reproduction Clinic was attended by the Agricultural Agent. This one-day clinic was presented by Dr. Jan Bonsma, a world-known authority in selecting cattle for efficient production, who is doing his research in Pretoria, South Africa.

The Agricultural Agent kept up-to-date on fruit and vegetable judging by judging three County Fairs this year.

The Agricultural Agent was sent to Yakima, Washington, for one week, to secure the latest information on deciduous fruit production. This information is to be conveyed to Arizona County Agents and fruit growers at a Fruit Growing School to be held in 1967.

The Extension Home Economist attended the American Home Economics Association Annual Meeting, in San Francisco. Lectures were heard on housing, clothing, Home Economics research, food additives and consumer breakthroughs. Suggestions on Methods of Working with Low Income Families were emphasized.

The Extension Home Economist also had the experience of judging clothing and foods, both 4-H and Open divisions, at three different County Fairs this year.

How the Extension Program is Developed

The Coconino County Extension Program develops from expressed needs of County residents. The Extension Agents are alert to problems when they are meeting with groups, or when making individual contacts. From these problems, direction is given to the plan of work of the County Extension Agents.

In addition, the Extension Home Economist relies on the assistance of the Coconino County Homemakers' Council. Inasmuch as they represent a cross section of homemakers in the county, numerous program needs are expressed, and the Council functions to determine which should be given priority.

A tentative yearly plan of work, outlined by the Agents, is then presented to the County Agricultural Extension Board, for their approval. Additions, criticisms, and clarification of the proposed plan of work, give the Agents added confidence in bringing to the residents, information that is pertinent, and that will bring about a more abundant and happy life.

Advisory Groups

THE PURPOSE AND MEMBERSHIP

In 1964, the Arizona Legislature adopted Senate Bill 179, which authorized the creation of County Agricultural Extension Boards. This board is composed of seven members--four from the board of directors of non-governmental farm and ranch organizations organized in the county; one member from the 4-H Leaders Council; one member from the Homemakers Council; and one member at-large. All members must have as their principal business, the production of Agricultural commodities. In Coconino County, the Farm Bureau is the only non-governmental farm and ranch organization. The purpose of this board is to assist the County Extension Agents in preparing their plans of work, and to review and approve the County Extension Budget.

Members of the County Agricultural Extension Board are:

<u>Name</u>	<u>Organization</u>	<u>Term Expires</u>
Douglas McClain	Farm Bureau	1968
E. Lee Hutchison	Farm Bureau	1968
Duane Miller	Farm Bureau	1967
A. E. Thompson	Farm Bureau	1967
Mrs. David G. McNelly	Homemakers	1968
Mrs. David Blair	4-H Leaders	1967
Merrill Button	At-large	1968

The County Staff wishes to thank the Coconino County Board of Supervisors for their fine cooperation in enabling the County Agents to carry out their 1966 program; the County Farm Bureau and its officers, for their assistance to the County Extension program; the County 4-H Leaders Council; the County Homemakers Council; and the many other individuals who also have assisted the Agents in preparing a meaningful County Plan of Work.

Meeting places and conference rooms are an essential facet in furthering the County Extension program. We recognize the cooperation of Northern Arizona University; the Southern Union Gas Company, in allowing the use of the Blue Flame Room for numerous meetings; the Arizona Employment Office; the ASCS for use of their conference room; Cogdill Hall in the Brannen Homes area; the Doney Park Community Hall; Flagstaff Public Schools; Williams Public School; and various church meeting rooms and homes throughout the county.

Cooperation of county agencies, service clubs, and business firms is also acknowledged. Radio Station KCLS has been generous in the program time allotted the Extension Service. The Arizona Daily Sun, Williams News and Red Rock News publicize county events and County Extension programs. We are most appreciative of their cooperation.

A Program Evaluation Project

The Homemaker Newsletter has wide distribution, and despite changes and mobility of population, we have kept the mailing close to 650. The mailing list is brought up-to-date yearly, and the form used by the homemaker to return her request often brings favorable comments.

However, this year, a random sampling was made, and 70 evaluation cards were sent to readers. This random choice included all areas in the county, and several out-of-county areas. Questions asked, and choice of answers, of the 36 replies received, were as follows:

How much of the Newsletter do you read?	All (35)	Part (1)	None
How useful is Newsletter to homemaking?	Very (18)	Somewhat (16)	Never
How easy is the Newsletter to read?	Too technical (1)	Satisfactory (35)	Too Simple
How long should individual items be?	Shorter	As is (33)	Longer (3)
Are the subjects interesting?	Usually (32)	Seldom	Never
Is the Newsletter coming	Too often	Often enough(28)	Not often enough (5)
The length of the Newsletter is.	Too long (2)	Just right (30)	Too brief (3)
Each issue is.	Filed (21)	Saved for a time(12)	Thrown away (2)
The Newsletter is <u>more</u> or <u>less</u> valuable than:			
News articles	More (20)	Same (8)	Less (5)
Radio programs	More (25)	Same (4)	Less (2)

1966 Education Program

by Communities

Extension Program	Flagstaff	Fredonia	Job Corps Center	Leupp	Mountaineira	Page	Parks	Sedona	Tuba City	Williams	Winona
AGRICULTURAL PRODUCTION											
Fertilizer Test on Apples (1)								1			
Scoring Test on Apples (1)								1			
Pruning Test on Spur Apple Trees (2)								2			
Sugar Beet Seed Test (1)		1									
Irrigated Pasture Demonstration (1)		1									
Farm Weed Control Demonstration (10)		9					1				
Range Weed Control Demo. (1)										1	
Greenhouse Vegetable Demo. (1)	1										
Beef Performance Test (2)								1		1	
Lawn Disease Test (2)	2										
Livestock Insect Control Demo. (3)										2	1
Garden Problems (8)	3				1			2		2	
FAMILY LIVING											
Homemaker Clubs (12)	4		1		1	2		1		2	1
Special Interest Meetings											
Commodity Foods (1)	1										
Money Management (4)	4										
Credit (1)	1										
Child Care (1)	1										
Getting Along w/Children (1)	1										
Breadmaking (1)	1										
Mending (1)	1										
Low-Cost Desserts (1)	1										
Salads (1)	1										
Basic Sewing (3)										3	
Housecleaning (1)	1										
Remaking Used Clothing (1)		1									
Special Meetings											
Home Ec. Extension Program (1)	1										
Report on T&CL (1)	1										
Craft Workshop LTM (1)	1										
Dietetics (1)	1										
YOUTH DEVELOPMENT											
4-H Clubs (17)	5	4		1		1		1	2	2	1
Leader Training (2)	1									1	
COMMUNITY DEVELOPMENT											
Home Grounds Demonstrations (1)										1	

Extension Information



The Extension Information Service . . .

- Reinforces and supports all five Extension program areas. News releases, bulletins, circulars, radio and television programs, exhibits, visual aids and films disseminate state wide the latest developments and information from the University of Arizona, College of Agriculture, the School of Home Economics and the U. S. Department of Agriculture.

EXTENSION INFORMATION

The direct contact, or visit, to the farmer, homemaker, or the 4-H youngster is by far the best communication method the Extension staff has today. The time involved, however, does not permit this method to be used too heavily. Other media must then be used.

Circular Letters

Circular letters can be a very effective tool in disseminating information, if used correctly. A newsletter will be read if it contains information the reader is seeking or interested in.

Coconino County prepares two regular newsletters monthly--the 4-H and the Homemakers newsletters. Each of these contain useful and timely information, and aid the Agents in getting messages and information to these two groups. Additional newsletters are written periodically to Livestockmen, to Orchardists, etc., when there is a need for them.

Radio

Radio is another media used to a great advantage in Coconino County. The Agricultural Agent has two weekly programs keyed to timely subjects in all phases of Agriculture. These programs assist in answering the countless questions that occur in the different seasons. A good example is in the spring. After the snows thaw, everyone is anxious to get outside and work in their yards. Office calls and telephone calls are reduced substantially by keying the radio programs, at this time of year, to this particular clientele.

The weekly radio program of the Extension Home Economist is keyed to the project lesson for homemaker groups, to seasonal events, to County Extension activities, and serves to re-emphasize the broad program of Extension and stimulate awareness to changes in practices affecting home and community. Comment from homemakers, and written word, give reason to think that the radio does serve to inform the listening public on vital issues. Letters and comments from listeners come from outside Arizona, as well as from Coconino County and other Arizona counties.

Bulletins & Publications

The two bulletin racks in the County Extension Office display over 150 publications. In addition to these racks, there are over 300 more on the shelves in the storage room. The number of publications distributed this year, will again be several thousand.

The Agricultural Agent and the Home Economist write several mimeographed circulars each year. These are on subjects that are unique to this county. An example is the one written on, "Pruning Spur-type Apple Trees."

Press

Newspaper coverage of Coconino County's Agriculture and Home Economics is good. This year, a weekly news column was started by the Agents. It contains timely information about Agriculture, Home Economics or 4-H work. The column is carried in the Arizona Daily Sun, Williams News and Red Rock News.

Special events have been well covered by the county papers, many of which have been front page stories and pictures.



779

Farm & Home Visits



Press Articles
Prepared & Published

100



Telephone Calls

1,367



Office Calls

1,392

*Methods Used &
people Reached
with Agricultural
& Home Economics
Information*
1966
The University of Arizona
Cooperative Extension
Service



6

Result Demonstrations
& Tests Established



14,903

Bulletins Distributed



176

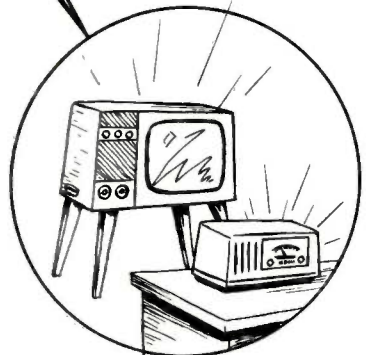
Meetings, Tours, Field Days
Attendance

6,348



102

Circular letters prepared



Television Broadcasts
Radio Broadcasts

153

Agricultural Production, Management & Resource Use



The Extension Service strives to . . .

- Assist farmers and ranchers to use research and technology
- Create awareness of change in the farm scene
- Increase farm income and living standards
- Help farmers' and ranchers' produce products to meet market requirements
- Update management procedures and product quality standards

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AGRICULTURE

Residents of Coconino County are varied in their interests. This county covers 18,238 square miles and extends from Flagstaff, the county seat, two hundred miles to the north, thirty miles to the south, forty miles to the east, and one hundred and ten miles to the west. The majority of this vast area lies in the higher elevations, from 5,000 feet to 8,000 feet, and is either National Parks, National Forests, State Land, BLM or Indian Reservations.

The weather in most of the county is cold. Winter temperatures in the higher elevations often hit 15 to 30 degrees below zero. The frost-free days, or more commonly called "the growing period," will vary from 80 days to about 150 days.

Agriculture in the county is just as varied as the elevations. Dirt farming has declined substantially over the past decade. The majority of the 35,000-plus acres of cultivated land is dependent on rainfall. There are still areas that farm and feel they are an important segment of the county's Agriculture. There are small areas of fruit growing--and it might be added, the best fruit in the Southwest comes from these small orchards. There are many individuals who pride themselves as expert gardeners, both vegetable and flowers. Many cherish their small backyard poultry flock, that dairy cow, a pig and a hutch or so of rabbits for family meat. The largest segment of Agriculture in the county is the livestock industry. Many thousands of head of cattle and sheep range our lands and produce millions of pounds of meat to the consumer.

Regardless of what phase of Agriculture our people may be practicing, everyone is doing his share to provide the livelihood they have chosen, and the Coconino County Agricultural Extension Service is proud to be able to have a part in permitting them to achieve their goal of life in this great country of ours.

Livestock

POISONOUS WEED CONTROL

All ranges have a potential poisonous weed threat each year. Whether or not it materializes depends on such factors as moisture, temperature, range conditions, etc.

In order to be prepared with the latest information on control measures, a result demonstration was established in 1965 on Whorled Milkweed, one of the most poisonous plants found on the range. Results of this test are recorded in the table on the following page.

These results cannot be considered conclusive after only one year but they do indicate what can be expected from the various chemicals.

**WHORLED MILKWEED CONTROL DEMONSTRATION
COCONINO COUNTY, ARIZONA
Rod Graves, Cooperator**

Plot established: August 1965

Plot No.	Chemical Used	Amount per Acre	Control as of July 1966
1	Amitrol Powder with Wetting Agent X77	4 lbs.	About 95% control; occasional stray plant growing.
2	Amitrol-T with Wetting Agent	4 lbs.	No reduction in number of plants; plants do show stunting.
3	Chlorea-3	6 lbs.	Good control, about 98%
4	Altacide	4 lbs.	About 90%; occasional plant.
5	2,3,6-TBA	20 lbs.	About 98%, occasional small plant.
6	Tordon	1 lb.	80% control; several plants showing.
7	Tordon	2 lbs.	Complete control, 100%
8	Check	-	Heavy vigorous plants growing.

PERFORMANCE GRADING

Performance grading is becoming a fairly well recognized program for all registered and many commercial herds. Good conformation in beef cattle is economically important. It is important to all segments of the beef industry, from the breeder to the commercial producer, feeder, packer and beef retailer.

The Rod Graves Ranch, west of Williams, has completed ten years of performance grading. This rancher has improved his type of cattle and increased calf weaning weight by over 50 pounds.

The Crooked H Ranch is also doing this grading. This year, the Agent graded two year old heifers and selected 91 replacement heifers by performance grading.

RANCH MANAGEMENT

The Agricultural Agent has assisted ranchers this year in setting up or revising their ranch management plans.

Mr. Dick Hutton, a new rancher in the county, has requested assistance in preparing a complete ranch plan. The cattle he now has will be sold and a new line bought. Mr. Al Lane has assisted in this work during 1966. His ultimate goal is to have a top registered herd of cattle and quarterhorses.

Mr. Milton Sechrist, owner of the Crooked H Ranch in the Long 'Valley area, requested assistance from this Agent and the Range Specialist, to prepare a new range management plan. This work was started in the spring by a complete survey of the range. This was followed by a meeting with the Forest Rangers of that area. Recommendations were given to the Forest Rangers for their consideration. A second survey of the range was made in the fall with the Forest Rangers. This was followed by a meeting over the map. Considerable favorable progress was achieved by the rancher. Further work will be done on this in 1967.

Mr. John Rich, partner of the Vermillion Cliffs Cattle Company, requested assistance this year in his insect control and breeding program. Recommendations were given on fly and grub control. All animals were dipped in May. The use of Vitamin A for all cows was introduced and results have been very remarkable. This year's calf crop is above 90%; previous years, it has been around 65%. Mr. Rich credits the Vitamin A and other recommended breeding practices, such as pregnancy testing, for this increase. He has just completed pregnancy testing his herd and again results show over 90% pregnant.

SCREWWORM ERADICATION PROGRAM

The screwworm, once considered the livestockman's greatest and most costly enemy, is about eradicated in Arizona. The eradication program extended into Arizona in 1965. Full cooperation of livestockmen dealt the fly a lethal blow in 1965 and 1966. There are still cases occurring, however, the control methods are very active and the alertness of the livestockmen will soon drive the fly south of the Mexico border. No cases of screwworms were reported in Coconino County in 1966.

BRUCELLOSIS TESTING PROGRAM

Coconino County is a Modified Brucellosis Free Area. In 1966, the county had to be tested for renewal of this classification. The Agent talked to several cattlemen about going all out for a Certified Brucellosis Free rating. It was met with unanimous approval. Meetings were held with various agencies and the testing began in the spring. By late fall, well over 50% of the total beef herds have been tested. It is hoped by the fall of 1967, testing will be completed.

This program will benefit producers who ship cattle in and out of the county. All of Arizona soon hopes to have this rating.

Agronomy

The cash crop, or dirt farming, in Coconino County has been decreasing for several years. This year, the farming remained about the same and it shows prospects of increasing slightly in the next few years.

The majority of the farmers south of the Colorado River are only part-time farmers--not because they want to be, but because they have to be in order to meet their financial, family obligations. Oats is by far the largest cash crop. Most of the oats is now cut for hay rather than grain. Through the

efforts of the Agricultural Agent, farmers have realized greater profits can be secured from this crop by feeding it through their livestock. Much of the acreage is in permanent grasses for livestock grazing. This, too, is another project the Agricultural Agent encouraged the farmers to establish.

In the Fredonia farming area, that is located north of the Colorado River in what is called the Arizona Strip, there are about 1,000 acres of potential farm land. Today, only about 600 acres are being farmed. Kanab Creek furnishes this area with irrigation. The area has an irrigation district and a board of directors for their project.

WEED CONTROL

Farming in the Fredonia area remained fairly stable in 1966. Water became low in late summer because of drouth in the watershed area. Weeds are still the main problem. Three of the most serious farm weeds--Hoary Cress, Poverty Weed and Bindweed--are scattered throughout the farming area. If these cannot be checked, then the farming picture cannot improve. Weed control demonstration plots were started in 1965, hoping to come up with a practical control method. These plots were continued this year and two more were added. The following tables describe only a few of these demonstration plots and the results to date.

HOARY CRESS WEED CONTROL DEMONSTRATION
COCONINO COUNTY, FREDONIA, ARIZONA
Jessie Judd, Cooperator

Date: June 1964

Plot No.	Chemical Used	Amount per Acre	Percent Control (Visual Observation)		
			June 1965	Nov. 1965	April 1966
1	TEA	20 lbs.	0	5	50
2	Check	-	0	0	0
3	Tordon	1 lb.	0	0	0
4	MBA	10 lbs.	80	70	90
5	2,4-D Ester	2 lbs.	0	0	10
6	Chlorate-Borate-Munuron	2/100 sq. ft.	60	50	98

HOARY CRESS WEED CONTROL DEMONSTRATION
COCONINO COUNTY, FREDONIA, ARIZONA
Jessie Judd, Cooperator

Date: July 1965

Plot No.	Chemical Used	Amount per Acre	Percent Control (Visual Observation)	
			November 1965	April 1966
1	2,3,6-TEA	20 lbs.	80	20
2	2,3,6-TEA	40 lbs.	80	50
3	Picloran	1 lb.	0	0
4	Picloran	2 lbs.	0	0
5	Picloran	4 lbs.	60	90
6	Munuron	20 lbs.	0	50
7	Munuron	40 lbs.	0	80
8	Diuron	20 lbs.	0	10
9	Diuron	40 lbs.	0	15
10	Check	-	0	0

**POVERTY WEED CONTROL DEMONSTRATION
COCONINO COUNTY, FREDONIA, ARIZONA
Pat Jensen, Cooperator**

Date: June 1966

Plot No.	Chemical Used	Amount per Acre	Percent Control (Above Ground) August 1966	Percent Control (Root Examination) November 1966
1	Tordon	1 lb.	5	5
2	Tordon	3 lbs.	70	50
3	2,3,6-TBA	10 lbs.	50	0
4	2,3,6-TBA	20 lbs.	95	55
5	Banvol-D	10 lbs.	95	95
6	Banvol-D	15 lbs.	98	98
7	Check	-	0	0

**POVERTY WEED CONTROL DEMONSTRATION
COCONINO COUNTY, FREDONIA, ARIZONA
Dave Ulrey, Cooperator**

Date: June 1966

Plot No.	Chemical Used	Amount per Acre	Percent Control (Above Ground) August 1966	Percent Control (Root Examination) November 1966
1	2,3,6-TEA	10 lbs.	5	20
2	Tordon	2 lbs.	40	45
3	Tordon	4 lbs.	80	55
4	Tordon	3 lbs.	70	50
5	Banvol-D	10 lbs.	95	85
6	Banvol-D	15 lbs.	98	95
7	Check	-	0	0

SUGAR BEET SEED DEMONSTRATION

Coconino County farmers are always in search of a new crop that might be profitable to grow. The production of sugar beet seed was tested in Fredonia, in the summer of 1965. The planting was made in a sandy loam soil and irrigated. The plants grew well and went into the winter in good condition. The question was, would they survive the low winter temperatures?

The beets came through the winter in good condition and began to grow in early April. In July 1966, the beets were checked for seed production. Each plant had set seed and it was dry and ready for harvest. No accurate estimate on pounds of seed per acre was made; however, the demonstration did show that sugar beet seed could be grown in this area.

IRRIGATED PASTURE DEMONSTRATION

Irrigated pastures continue to gain in Coconino County. Farmers and ranchers can see where permanent pastures return more profit per acre than most any other crop.

Certain areas are more favorable to permanent pastures, as moisture is a very vital factor in establishing a good pasture. Fredonia has grown

irrigated, permanent pastures for many years; however, only two or three varieties were ever grown. In 1965, a demonstration was established in Fredonia to test out twenty-two different grasses and pasture mixes. The demonstration was very successful and accurate records were kept.

In late April, the Agricultural Agent and Extension Agronomist conducted a field day in Fredonia, to show the farmers and ranchers the result to date on these pasture varieties. The interest in this demonstration has definitely stimulated irrigated pastures in the Fredonia area.

When the pasture mixes were planted in 1965, it was doubtful if all varieties would survive through the winter. Temperatures in the Fredonia area may drop to 0°F. during winter storms. The winter of 1965-66 was fair as far as moisture was concerned, and was exceptionally cold. Temperatures of 0°F. or lower were recorded several times. The pasture demonstration was checked carefully in early April after spring growth had sufficient time to occur. The following table records the finding at that date.

IRRIGATED PASTURE DEMONSTRATION
COCONINO COUNTY, FREDONIA, ARIZONA
Merrill Button, Cooperator

Date: July 1965

Grass or Pasture Mixture	Winter Tolerance of Grasses & Mixes (Visual Observations Made April 1966)
1. Goar Fescue	Very few plants left. Winter killed badly.
2. Alta Fescue	Survived fine. New growth vigorous.
3. Lincoln Brome	Survived fine. New growth good.
4. Crested Wheatgrass	Survival good. Growth small but vigorous.
5. Luna Pubescent Wheatgrass	Survived fine. Spring growth excellent.
6. Latar Orchardgrass	Survived good. Spring growth small but vigorous.
7. Blue Panicgrass (Antidotale)	Heavy growth in 1965; spring growth good.
8. Blue Panicgrass (Staph)	Heavy growth in 1965; spring growth fine.
9. Greenar Wheatgrass	Survived good. Thick spring growth.
10. Ranger Alfalfa	Good, strong spring growth. Stand good.
11. Nomad Alfalfa	Survival excellent. Strong spring growth.
12. Ladino Clover	Winter killed badly. Occasional plant found.
13. Sainfoin	Survived well. Stand and growth good.
14. Sisor Milk Vetch	Winter killed badly. Occasional plant growing.
15. Birdsfoot Trefoil	Stand severely reduced. Survived plants small.
16. Burnett	Partial winter killed. Survived plants look fair.
17. Ranger Alfalfa and Latar Orchardgrass	Alfalfa survived; orchardgrass gone.
18. Apache Blend	Stand severely reduced. Recovery poor.
19. Weeping Lovegrass	Excellent growth in 1965; spring growth excellent.
20. Wilman's Lovegrass	Good growth in 1965; spring growth good.
21. Boar Lovegrass	Severe winter kill. Spring growth very poor.
22. Lehman's Lovegrass	Excellent growth in 1965; winter killed severely.

Horticulture

DECIDUOUS FRUITS

Deciduous fruit growing, namely apples, peaches and pears, is one phase of horticulture in Coconino County. Over 90 per cent of the fruit growing is done in Oak Creek Canyon area, which begins 15 miles south of Flagstaff. Although these fruit growers are small, they contribute a sizeable figure to the economy of Coconino County.

Apples are the largest crop produced in the Oak Creek area. The Red Delicious, Golden Delicious, Winesap, Jonathan, Grimes Golden, Arkansas Black, Red June and Rome Beauty are some of the varieties raised. The quality of the fruit from this area is very high compared to other apple raising areas. Growers from the Pacific Northwest and the eastern states visit these orchards and remark that they don't see how we can raise such a high percentage of fancy apples.

This year, after continued efforts of the Agricultural Agent, Mr. Roger Button planted seven acres of deciduous fruit trees in Fredonia. This area is well adapted to fruit growing, and new highways in the area have opened up a good roadside market.

The Agricultural Agent assisted the grower in laying out the orchard with 18 feet between rows and 18 feet spacing between trees for peaches and pears. Spacing of 9 feet was set out for dwarf apples. There were 550 pear trees planted, of which over half were the new Red Bartlett variety. Only 50 peach trees were planted, and it is the grower's plan to increase these trees in the future. There were 482 dwarf apple trees planted--half Red and half Golden Delicious. All the dwarf apple trees were on EM IX rootstock. These apple trees will be supported by a three-wire trellis, as the root system of this rootstock is very shallow. Fruit production on the full dwarf rootstock can be expected in three to four years. The normal apple tree requires 8 to 10 years before profitable production can be expected.

The deciduous fruit orchards in Oak Creek were hit by a severe frost on April 19th. All fruit trees were in heavy bloom or past full bloom. About 90 per cent of the fruit was ruined.

Frost Protection

Each year, as this year, a killing frost usually reduces, or completely kills the fruit crop in many orchards. The oil burning type heater has been used by some orchards. This method can only raise the temperature about 3 - 5°F. under favorable wind conditions.

Wind machines have been discussed as another possibility of saving fruit in Oak Creek from late freezes. This year, one grower bought a wind machine. This method of frost control got a good test on April 19th, when temperatures dropped to the low 20's in Oak Creek Canyon. Many growers used oil burning heaters but could not raise the temperature sufficiently; consequently, they lost their entire crop. This grower was able to raise the temperature

sufficiently and get the air moving and saved his crop. This orchard had cherries, plums, peaches, apples, pears and nectarines--all were saved and produced bumper crops. Orchards surrounding this machine lost 100% of their fruit.

This excellent demonstration may bring more wind machines to Oak Creek. Other methods of frost control will also be tried in 1967.

Spur-type Apple Tree

The spur-type apple tree is the result of a mutation that occurred on certain varieties of apple trees in the State of Washington, following a heavy pruning after the destructive 1955 freeze. It is significant to note that this natural phenomenon seems to be occurring most extensively in Red and Golden Delicious, our two leading commercial varieties. During the past three years, Winesap, Lodi, Erliblaze and Arkansas Black have been added to the spur-type. The great demand and popularity of this type of tree is that it reaches full production in about four years, and the tree is very stubby and short. This makes it easy to spray and harvest.

This new type of tree has been increasing in the Oak Creek area. There are now about 500 of the spur-type apple trees planted. It appears more will be planted in 1967. This tree is much smaller than the normal tree, it fruits in about 3 - 4 years, is easier to fertilize, spray and harvest, and on a per acre basis, it produces more fruit than the normal apple tree.

Special pruning procedures are required for this tree. The Agricultural Agent has worked closely with these new growers, advising them on pruning and fertilizing. A circular was written by this Agent on, "Pruning Spur-type Apple Trees," to fulfill the needs of these growers.

Deciduous Fruit Tree Diseases

Fruit tree diseases are always a threat to growers, large or small. Oak Creek growers have been quite fortunate by not having any too serious outbreaks of diseases. Fireblight, a bacterial disease, is the most common in Oak Creek. It has been quite successfully controlled by sprays during blossoming time, pruning out infected branches in the fall, and removal of heavily infected trees. Powdery mildew, a fungus disease on new leaf and branch growth, has been quite successfully kept under check by early sprays in the spring.

Bitter Pit in apples occurred in Oak Creek for the first time in 1964. This is actually not a true disease, but it must be treated as such. This condition is caused by a breakdown of the cell structure within the apple. The cause of the cell breakdown can be caused by several un-normal management practices. This makes the control almost impossible as many of these practices are governed by weather.

In 1965, a Boron spray was used during bloom as a possible check, and apparently did some good. In 1966, one orchard in Sedona that escaped the disastrous April freeze had a severe infestation of Bitter Pit on only one variety of apple--Starkcrimson Red Delicious. The disease hit the fruit in early August, quite uncommon, as it usually shows up in September or October during harvest time. This disease apparently is in Oak Creek to stay or until a satisfactory control can be found.

The Agricultural Agent has made arrangements with this grower to do some extensive work on the control of this disease in the spring of 1967. Soil analysis, petiole analysis, sprays, etc., will be incorporated into the program hoping to uncover more facts about this disease and its eventual control.

During the latter part of the summer, many apple trees in Oak Creek showed considerable yellowing of leaves, particularly at the new growth areas. This could be either an iron or zinc deficiency or both. The Extension Plant Pathologist and County Agent established a result demonstration in the Bill Todd orchard to see if this yellowing could be corrected. Three different chelate mixtures were used. Iron chelate, zinc chelate and a mixture of both were applied to apple trees. A second spray 12 days later was applied. The visual results, as of the end of the summer, were as follows:

Zinc chelate - Yellowing is still present at the tips of the limbs. Other parts of the tree, there has been some correction.

Iron chelate - This spray shows the best results of the three sprays. It has not, however, eliminated all the yellowing.

Iron chelate-zinc chelate - Some yellowing is still present, but not as much as on the straight zinc chelate treatment.

HOME LANDSCAPING

Home landscaping in Coconino County is one of the most popular and active outdoor projects of the home owner. This project requires the Agricultural Agent to spend about one-fourth of his time on this work.

Coconino County is mostly in a high altitude. Flagstaff and Williams, the two main cities, are at 7,000 feet. This requires the home landscaper to take extra precautions in his plantings. The Agricultural Agent writes his own circulars for this work. In 1965, a revised circular, "What to Grow from 4,500 to 7,000 Feet in Coconino County," was printed. This circular lists trees and shrubs for this elevation. The Agent also wrote a new circular in 1965, "Lawns - How to Prepare a Lawn in Coconino County." Both of these circulars are very popular, and hundreds were distributed to the public in 1966.

In 1966, the Agricultural Agent spent at least one-fourth of his time working with the problems of the homeowner on trees, shrubs, flowers and lawns. The Agent spoke to many garden clubs, civic groups, faculty wives, sorority groups, etc., on outdoor landscaping. The Agent and Extension Specialist in Landscaping conducted a "Gardener's School," in Flagstaff in May. Varieties, diseases, etc., were discussed.

Lawn Diseases

Recent years has seen a steady increase of fungus diseases in lawns. The year 1966 was no exception. Over half the lawns in Flagstaff were infested with one or more of the diseases. Control measures were recommended and a fair control was achieved.

The Bureau of Reclamation, at Page, Arizona, called for the assistance of this Agricultural Agent in controlling lawn diseases in that area.

Upon investigation, it was found that many home lawns and lawns around administrative buildings were severely infested with Brown Patch. Large areas had to be removed, treated and replanted. Over-watering plus the use of fertilizers were stimulating the spread of this fungus. The Agent outlined a management practice for these lawns, and in a check of the area in November, revealed excellent control of the diseases.

GARDENING

The backyard vegetable garden can be a supplement to the food budget of any home. Many countries still depend on the home garden for the majority of their fresh vegetables. Convenience foods have discouraged the backyard garden over the past decade. The County Agent has, however, over the past decade tried to encourage more gardening.

In this area, the rainfall is usually sufficient to insure a fine vegetable crop. In the past two or three years, there has been a noticeable increase in backyard gardening, despite the increase of convenience foods on the market. The Extension Agent has continued to emphasize the quality of these home-grown vegetables.

In 1966, two very noticeable increases in home gardening have been evident. Our 1966 County Fair had its largest exhibit of vegetables since the Fair began in 1949. Almost 100% of these vegetable exhibits were grown in backyard gardens. People are realizing the enjoyment of outdoor gardening and the high quality of the vegetables raised.

The second noticeable increase was the large number of inquiries the Agricultural Agent had on backyard greenhouses. The Agent pushed this practice heavily in 1965, and saw results in 1966. Several greenhouses were built from plans furnished through the Extension Office. Tomatoes were the main vegetable grown in the greenhouses. There is no doubt that more greenhouses will be built in 1967, as word soon spreads about good, home-grown tomatoes.

Agricultural Marketing & Utilization



Extension Agents and Specialists . . .

- Promote efficiency in marketing systems to reflect change rapidly
- Assist firms dealing with farm products
- Help farmers and processors improve and maintain product quality
- Help producers establish convenient livestock marketing outlets.

MARKETING

Livestock Listing Service

The most successful year yet, in the Coconino County Fall Feeder Cattle Listing Service! This was the consensus of the cattlemen and the Coconino County Farm Bureau.

This year, over 12,000 head of cattle were listed. A summarized report was made and sent to over 400 cattle buyers. More new buyers to the area were noticed than in previous years. Prices firmed up after a slow start and cattlemen were well pleased with their contract prices.

Deciduous Fruit Marketing

Oak Creek Canyon raises apples, peaches, pears and many other fruits and berries that are second to none in quality. All fruit is tree ripened, something larger fruit producing areas cannot do. The potential for local marketing of this fruit is excellent. The Agricultural Agent has been instrumental in convincing the local growers about this situation. Travel by tourists, plus weekend drivers out of the Phoenix area, has brought thousands of cars to this area each summer.

This year, the fruit in Oak Creek was almost 100% frozen by a late spring freeze. This gave two growers the opportunity to catch up on some building of storage space that will benefit them in future years. One grower has now completed a packing shed and cold storage facility all under one roof. This will enable his fruit to come from the orchard directly to the cold storage. This will enable fruit to be held over a longer period to take advantage of stronger prices.

Family Living



Extension Home Economists assist families develop . . .

- An understanding of human growth and development, family life, and human relationships
- An understanding for making family choices in the use of time, money, energies, abilities to analyze family needs and goals, and to balance these against the family resources
- An understanding of the market place and the many goods and services offered to the consumers, and an analysis of family needs and facts for making buying decisions.
- An ability to perform certain homemaking tasks and skills
- An awareness of the need for people to assume leadership in the community and to understand good citizenship.

FAMILY LIVING

Evidence of total family participation in the Extension program continues to place emphasis on the initial goal of the Cooperative Extension Service, that of helping families to help themselves.

This far-reaching adult education program penetrates into all phases of family living. In recent years, the emphasis and apparent need of direction toward consumer education, has drawn the head of the family to an awareness of the assistance available to help his family toward a better life.

Family living education extends beyond the home needs. Understanding problems of the community, through group association provided by Homemaker Clubs, further extends interests into state and world affairs.

Serving Homemaker Club Members and Their Program

ORGANIZATION

Coconino County Tops State in Receipt of Charters for Newly Organized Clubs

During the 1966 Annual Town and Country Life Conference, the Coconino County Homemaker Council was presented 6 Homemaker Club Charters, in recognition of recent organization of homemakers in areas throughout the County. The charters recognized the following clubs:

Jolly Job Corps Homemakers (Job Corps Youth Center, Winslow)	Mrs. Clara Mae Hatch, President
Ponderosa Homemakers (Flagstaff)	Mrs. Charles Dawson, President
Elden Belles Homemakers (Flagstaff)	Mrs. Dale Cowan, President
Pine Park Homemakers (Flagstaff)	Mrs. Bob M. Lewis, President
Williams Homemakers (Williams)	Mrs. David G. McNelly, President
Mountaineer Homemakers (Mountaineer Rural Station, Flagstaff)	Mrs. Warren Borgeson, President

The Morning Glories Homemaker Club, at Williams, will also be chartered in the near future.

Other existing charter clubs in Coconino County are:

Red Sands Homemakers (Page)	Mrs. L. K. O'Neill, President
Shifting Sands Homemakers (Page)	Mrs. J. F. Perry, President
Country Club Homemakers (Winona)	Mrs. Russell Meredith, President
Sedona Homemakers (Sedona)	Mrs. Myron Loy, President
Flagstaff Homemakers (Flagstaff)	Mrs. Richard Carroll, President

Club enrollment indicates a membership of 192; however, this figure in no way gives the true picture of the total number of homemakers participating in the year's program, as the constant mobility of the population brings about an ever-changing membership.

Profile of Homemaker Clubs

It would be difficult to pinpoint with accuracy, the age groups that predominate in the respective clubs. Perhaps, we could safely say that the Sedona Homemakers are in the retirement group, gathered from far-reaching areas but with a continued interest in home and all facets contributing to the good life. This also would be partially true of the Red Sands Club in Page. Perhaps the youngest age group would be the membership at the Job Corps Center. Other clubs have age variations from newlyweds to grandmothers. Mutual interests, however, bring about a most harmonious and cooperative group.

Achievements of the County Homemaker Council

Officers who served this past year were:

Mrs. Bill (Ruth) Smith, Route 1, Flagstaff	President
Mrs. Durward (Lenore) Reed, Williams	Vice President
Mrs. Charles (Nell) Dawson, Flagstaff	Secretary-Treasurer
Mrs. Charles (Sylvia) Nemeč, Sedona	Town and Country Life Representative

Membership of clubs in the Council requires a nominal fee paid by club members. To further support the State Council and the need for additional funds, a rummage sale was promoted through contributions from the county clubs. This achieved its purpose in contributing the assessment to the State Council and adding to the treasury of the County Council.

Mrs. Smith resigned in May, and Mrs. Reed has moved out of the state. At the present time, a Council is not functioning. However, Mrs. J. F. Perry,

of Page, has agreed to serve as County Beautification Chairman, and Mrs. Rufus Snyder, of Sedona, has accepted the responsibility of County Safety Chairman.

Proceeds from rummage sales have provided funds to defray expenses of Council officers who can, and will, attend State Council Board meetings.

All Homemaker Clubs are affiliated with the County Council. A few are hesitant to affiliate with the State Council, because to date they have not participated in any State Council events to realize the value from joining.

LEADERSHIP TRAINING

Participation and Responsibilities of Members Develops Leadership Ability

Officer responsibilities are rotated among the membership. Also, members are called upon to conduct special interest lessons in skills they are knowledgeable in. In some instances, a member is responsible for securing programs. Conducting a meeting, giving instruction, introducing guests and speakers, are facets toward the development of leaders.

Countywide meetings, either in the interest of County Council or project leader training, have not been successful. Conflict of interests, distances to travel, working outside the home, family responsibilities and not driving a car are reasons for this "lag."

HOMEMAKER CLUB EDUCATIONAL PROGRAM

Learning Something at Each Meeting - The Uniqueness of the Homemaker Club

It is expected that all women will have a voice in planning the various programs for Homemaker Club meetings. When their interests are expressed and their needs recognized, then the stage is set for learning. Actively participating at the meeting, taking part in the discussion, asking questions, responding to a questionnaire or check sheet, taking the information to neighbors, friends, relatives and family members are the carryover of the effectiveness of the lesson. Contributions of homemakers to the text of the lesson expands the scope to provoke thinking.

Extra copies of project material are requested for neighbors or friends. Reports indicating that project material is discussed with the family members, or evidence that project lessons are practiced in the home, are indicative that the program is contributing to home efficiency and the homemaker's desire for self-improvement.

Business Services Reviewed

Business Facts for the Homemaker were studied, relating to services offered at the Bank, Post Office and Telegraph Office. Admitting that the telegraph office was little used by local residents, few were aware that regular wires were charged on a basis of 15 words. All agreed there were emergencies and occasions when the telegraph office could perform a service. Special

occasion telegrams were shown. Money sent via telegraph service proved expensive and this service was to be used only in emergency.

Understanding postage rates, postal regulations, postal terminology and extended services of the postal department challenged thinking along the lines of, "Why the profuse amount of 'trash mail' delivered to private mail boxes, why rapidly increased costs for comparable service, and why add to postal costs by the printing of numerous different postage stamps?"

Banking services had been given little consideration in the past. To some, the free service of a notary public in a bank was unknown. A display of the helpful literature and guides found at the bank, created interest in preparing a record of valuable papers, in studying more of the property rights in Arizona, of preparing a will, seeking counsel in investments, recognizing errors in writing checks, and the importance of savings or a financial plan. Families reported consultation with their banker or financial adviser following this meeting.

Study Provokes Effort Toward Personal Efficiency

Excerpts from the book, "All the Time You Need," (Updegraff) were provided the homemakers for study. Also, the books, "Management in the Home," co-authored by Lillian Gilbreth, Orpha Mae Thomas and Eleanor Clymer, were placed on loan from the office. The goal for 12 homemakers to read these books was achieved. Also on loan were copies of the book, "Cheaper by the Dozen." Though entertaining, this story was an eye opener to efficient management practices. Eighteen women reported reading this book.

Leading to a discussion of factors limiting personal efficiency, the homemakers listed homemaking tasks they disliked most. Contrary to a national poll, ironing did not head the list--rather, sweeping, dusting and dishes were prominent dislikes.

Contributing to personal inefficiency were interruptions, illness or poor health, restrictions from clothing, poor working tools, working heights inadequate, poor planning or organization, hesitancy to accept responsibility, lack of rest and relaxation, and the physical aspects of room color, light and ventilation.

Taking a look at one's own personal efficiency rating, taking steps toward abating and controlling inefficient practices, are ways homemakers will "buy" time at low cost.

Homemakers Interested in "Buying" Time and Energy

Undoubtedly, the text of this lesson stimulated more family discussion on a subject than any lesson thus far. However, "Business Facts" was reported to have been of interest to the husband. The brief of "All the Time You Need," by Updegraff, was shared with the family and much favorable comment was expressed.

A review of the University of Arizona publication, "Getting the Most Out of Your 24 Hours," helped women to realize that there are enemies of time

and energy. How to buy time was a question that provoked considerable thought, and the answers were most enlightening to the realization of the worth of time and, indirectly, energy. It is apparent that the series of lessons on management have created an awareness in examining one's own habits and attitudes.

Radio programs, news articles and excerpts in the newsletter extended some thoughts on management as were drawn from the project materials.

The Master Mix: A Convenience Food Contributing to Meal Economy

One of the ways to stretch the food dollar and release time and energy expenditure is preparing and making continual use of a Master Mix. Because of the high altitude problem in the greater area of this county, the circular, "Quick Mixes for High Altitude Baking," was used as resource material and made available to homemakers interested. The versatility of the master mix provided baked products, as pudding, breads, cookies and cakes. Comments regarding this demonstration were, "I've made this mix numerous times; in fact, I wouldn't be without it. It is the answer to my baking." "The yeast coffee cake is delicious." "I've never made a better pineapple upside down cake." "This mix is the answer to being prepared for summertime company."

The homemakers were pleased with the ease of preparation, the economy of the home-prepared mix as compared to the commercially-prepared, ease of storage, the variety of baked goods that could be prepared, and the quality of the products baked and used as refreshments at all meetings.

Buymanship Interests Directed Toward Carpet and Rug Selection

Realizing a need for better understanding of the fibers now being used in the carpet industry, homemakers wanted up-to-date information on fiber content, construction, wearability and cleanability. Carpet samples were used at the meetings so women could compare appearance, construction, feel, and, in some degree, costs.

The film, available through duPont, "Step Out On Color," was an excellent visual, showing types of construction, how colors are determined, but with emphasis on the duPont 501 Nylon. Another film of interest was "Beauty by Design." This related to creativity of design and its application to home furnishings; also, the dye processes used. Room interiors showing color coordination brought out the importance of extensive planning and thought before the purchase of soft floor coverings. The University of Arizona circular, "The Rug and Carpet Picture," was reviewed so that homemakers were alerted to the guides set forth in the booklet and would use it for future reference. Few homemakers indicated they were in the market for carpets at the present time, but they remarked that they had a much better conception of what to look for in a carpet than ever before.

Creative Expression Answered Through "Christmas in October" Fair

Holiday festivities always calls upon the homemaker for ideas for gifts, dress accessories or home decoration accessories. Through popular demand, a day early in October was selected so that sufficient time would remain

to prepare these various projects for the holiday. Members of the Homemaker Clubs volunteered to prepare and give the demonstrations. Mary Russell Borcherding, of the Flagstaff Homemakers, ably demonstrated "Covering a Shoe with Fabric." Mona Cox, also of the Flagstaff Homemakers, showed the making of a "Madonna." She also had several completed, which were on display. Donna Cowan of the Elden Belles Homemaker Club, showed the "Antiquing or Glassing of Artificial Flowers." Mrs. Lillian Tippetts, Sedona Homemakers, showed the "Techniques of Preparing a Base for a Christmas Wreath," using a wire hanger and fine mesh chicken wire. She then proceeded to make up a wreath using Arizona cypress, yucca, sycamore balls and cones.

I repeated the "Making of the Plastic Trivet," for the benefit of some club groups that had not participated in a workshop. To climax our "Fair" Mona Wright, of the Arizona Public Service, gave a film presentation of "Christmas Lighting."

This program served as a leader training lesson, and reports show small groups of women are meeting to work on crafts of special interest. This "Fair" was well received, and an attendance of 35 leaders representing 15 organized groups was particularly gratifying.

Problem Windows? Homemakers Seek Answers

Through Sears Roebuck Consumer Division, the booklet, "How to Select Window Treatments" was secured for the homemakers' information. The contents of this booklet were reviewed and discussed. The film, "The Trouble with Windows," from the National Cotton Council, was introduced. The outstanding features of the film were called to the attention of the women before it was shown. A film strip from Sears on "Window Treatments," was also used. It gave more detailed information on comparative treatments.

Current magazines, clippings, "1001 Decorating Ideas," and the Kirsch manual on "Windows," were available for the women to browse through before and after the lesson. A kit of window treatment notions helped to understand the manipulation of the Austrian and Roman shades. Because of the popularity or use of arcadia doors in this area, the women were pleased to have ideas on treating this glassed area. Another problem which was answered was decorating odd-sized windows within the same room.

OTHER HOMEMAKER CLUB ACTIVITIES

Council Has Rummage Sale for Fund Raising

This was the second sale sponsored by the Council. It was decided that all material remaining at the close of the sale would be turned over to the Sunshine Rescue Mission.

Funds from this sale were used to pay a State Council special assessment, and the excess funds were added to the County Council treasury for the purpose of defraying expenses of delegates to State meetings.

Former County Council President
Serves as State Council President

Mrs. Charles (Sylvia) Nemeč, a member of the Sedona Homemakers, is completing her second year in the term of office on the State Council. Mrs. Nemeč has represented the State at two National meetings, one held on the campus of Purdue University, and the 1966 meeting on the campus of Colorado State University.

Interest Aroused in Color Study

Because of the unique nature of the Color Study, and for homemakers better to understand what the study would involve, a preview of the material and its uses, together with many colored pictures, helped the women to recognize their ability to see color.

Fourteen women in Sedona purchased charts, and a three-day workshop was organized to study, in depth, color as it relates to the individual. Members of the Winona Club have purchased color charts, and the Williams evening club have indicated a desire for this study. Undoubtedly, this study will be scheduled early in 1967.

Special Lesson Requests

The Pine Park Homemakers met to have instruction on Knitting. An afternoon was spent in practicing knitting and purling, and a demonstration was given on making the pompom. Many pairs of knitted TV slippers resulted from this meeting.

The Williams Morning Glories Club participated in a lesson in which was demonstrated the techniques of Furniture Refinishing, also the techniques of Antiquing Furniture. Following this meeting, a home visit was made in regard to refinishing a piano.

The Williams evening club and the Mountaineer club requested a lesson on Sewing Shortcuts. This demonstration appeared to be one of intense interest. Comments were that they learned many techniques that would improve or make their home sewing easier. There were 17 women in attendance at the Williams meeting. Not one was familiar with the overall patch. The hostess supplied a pair of overalls to be mended. As a result of this meeting, one of the members organized a Basic Sewing Workshop. Eight women were enrolled.

Sedona Homemakers Active in
"Arizona Beautiful" Program

Keeping the highways free of paper and cans was a project the Sedona Homemakers were actively engaged in. Designated areas simplified this assignment. The Homemakers take an active part in community improvement and are always invited to send representation to improvement meetings.

HOMEMAKER CLUB PROGRAMS 1966

Community & Clubs (Enrollment in parentheses)	Program Plans for Year	Learning to See Color	Business Facts for Homemaker	Refinishing Furniture	Managerial Skills	Managing Time & Energy	Master Mixes	Salads	Stitchery	Carpet & Rug Selection	Grooming	Knitting	Crafts	Window Treatment	Sewing Shortcuts	Safety - First Aid
FLAGSTAFF Flagstaff (10)	8		9			7							6			
Ponderosa (24)		12	8			9	9				21		14	10		7
Elden Belles (17)	14		16		14		8			15			14			11
Pine Park (10)	10				11	11	14					11	9	11		
MOUNTAINAIRE Mountaineire (16)	10					14						(12)				
PAGE Red Sands (14)	13		9			12		15		15			17	10		
Shifting Sands (10)			4			8										
SEDONA Sedona (32)	21	9	18			29	29		29	15				16		
WILLIAMS Morning Glories (17)	7			17	13	8	8			23			8			
Williams (16)	11				14	15							15		17	
WINONA Country Club (17)	12									13			12	12		
WINSLOW Jolly Job Corps (17)	15		16		14	11	12	10		13						7
TOTAL (200)	121	21	80	17	66	124	95	10	29	94	21	23	111	43	24	18

*Presented by Extension Home Economist
**Presented by Agricultural Agent

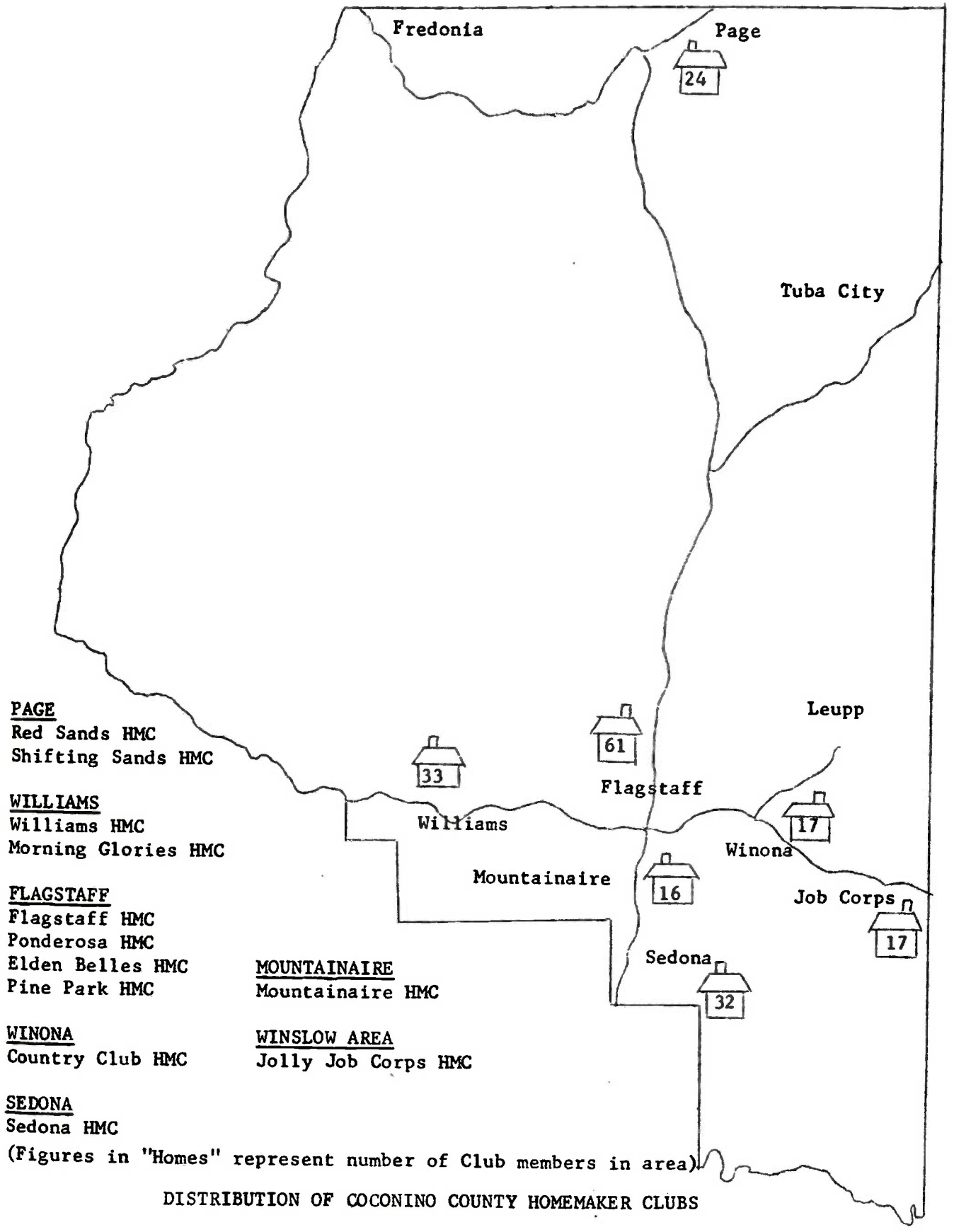
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HOMEMAKER CLUB PROGRAMS 1966

(continued)

Community & Clubs (Enrollment in parentheses)	Pastries	Textile Painting	** Garden Problems	Candy Making	
FLAGSTAFF Flagstaff (10)				8	
Ponderosa (24)			11		
Elden Belles (17)					
Pine Park (10)					
MOUNTAINAIRE Mountaineire (16)			10		
PAGE Red Sands (14)					
Shifting Sands (10)					
SEDONA Sedona (32)					
WILLIAMS Morning Glories (17)					
Williams (16)					
WINONA Country Club (17)	14	12			
WINSLOW Jolly Job Corps (17)					
TOTAL	14	12	21	8	

HOMEMAKER CLUBS



PAGE
 Red Sands HMC
 Shifting Sands HMC

WILLIAMS
 Williams HMC
 Morning Glories HMC

FLAGSTAFF
 Flagstaff HMC
 Ponderosa HMC
 Elden Belles HMC
 Pine Park HMC

WINONA
 Country Club HMC

SEDONA
 Sedona HMC

MOUNTAINAIRE
 Mountainaire HMC

WINSLOW AREA
 Jolly Job Corps HMC

(Figures in "Homes" represent number of Club members in area)

DISTRIBUTION OF COCONINO COUNTY HOMEMAKER CLUBS

Serving Special Interest Education Groups

Survey Study of Teenage Marriage Sent to Parents of Junior and Senior High School Students

A summary of a ten year study of Teenage Marriage, undertaken by the University of Nebraska, was important enough for us to talk with the Assistant Superintendent of the High School and the Girls' Counselor, to gain their permission to send parents of the Junior and Senior students this paper. We were given access to the registration cards for addresses. Approximately 1,000 letters were mailed, individually, as well as copies included in the Newsletter.

Many favorable comments were received by this office from the parents, most of them coupled with requests for additional copies to be sent to friends or relatives, in other counties or states, who also had teenagers.

City of Flagstaff Housing

Working in cooperation with the Home Counselor, Mrs. Jerry Clark, we attempted a series of meetings that coincided with the apparent needs of families receiving Commodity Foods, or families in the low-income bracket. These families were predominantly Negro, Mexican and Indian. The Welfare Department was consulted concerning these educational meetings and were asked to encourage their clientele to attend. There was little response. Radio, newspaper and a bulletin were used to alert the women to the time and nature of the meeting. The facilities at Cogdill Community Hall, in the Brannen Homes area, are a most satisfactory place to conduct these meetings.

The series during the year, included Casserole Dishes Using Commodity Foods, Money Management, Mending, Bread Making, Low Cost Desserts, Salads Rich in Vitamins A and C, and two lessons on Makeovers from Used Clothing. The average attendance at these meetings was 16--varying from 8 to 24. The audience was most receptive and, at successive meetings, reported the applications they had made of previous helps.

Money Management Lesson Draws Large Audience

The largest audience we had of disadvantaged families were gathered to hear Miss Corinne Stinson discuss Money Management for Families. This was the first time men had been in the audience. Miss Stinson reviewed principles of money management and stressed the importance of record keeping. The USDA bulletin, "Managing Your Money, A Family Plan," was reviewed with the group. Twenty-two men and women participated.

Color Study Stimulates Interest

Late in the year of 1965, homemakers were alerted to the context of a study into Color. Early in 1966, 14 homemakers in the Sedona area enrolled in a Color Workshop. This carried for a three series study with the ladies studying the principles of color, charting their personal color and discovering the

colors and combinations complementary to their personal coloring. Five women in Page, three in Winona, and one in Williams have the charts. Mrs. David (Joyce) McNelly, in Williams, has a group of 8 women ready to study color when time can be arranged through the Extension Office.

Variety of Interests Reported in Programs

Knitting has attracted many homemakers as an art to occupy some leisure hours and satisfy a creative urge. Organized groups used the talents of neighbors or members or the assistance of instructors at yarn shops. I taught 11 homemakers the basic stitches and all report completing several pairs of TV slippers.

Techniques in Clothing Construction Helps Thirty Homemakers

Eight homemakers, in the Williams area, enrolled in a Basic Sewing Workshop, receiving instruction in the making of a cotton dress. Twenty-two women observed demonstrations on sewing shortcuts and hints to simplify the sewing task.

The Winona club called on the talents of their membership and enjoyed demonstrations on pastry and textile painting. The Ponderosa and Elden Belles Clubs followed a recommendation from the State Council and featured Safety at a special meeting. A qualified first aid instructor, from the City Police Department, stressed water safety and gave the women instruction on mouth-to-mouth resuscitation.

Twenty-three young mothers of the College LDS Ward were instructed in the principles of Money Management. The Flagstaff 2nd Ward heard a lesson on Simplifying Housecleaning.

The Fredonia Relief Society participated in a lesson on Preparing Used Clothing for Makeover, Techniques of Washing a Wool Sweater and Blocking, and a two-day workshop was offered in Remodeling Clothing. Six women participated in this. Leaders in the Fredonia Relief Society have received instruction and helps in presenting lessons on Convenience Foods, and Baked Products from a Master Mix.

The "Grass Roots" program is in the formative stages, but under the enthusiastic direction of Mr. Joe Montoya, the program is making a noticeable impact in the organization of neighborhood councils, and securing "aides" to help families in the many communities. I have given help to Mrs. Alta Brooksby in Fredonia, and Mrs. Ruby McCain in Flagstaff. Mr. Montoya has copies of materials received at the office that would be a distinct help for aides working with these disadvantaged families. Mr. Montoya states that his program will be so organized early in 1967, that he will ask for instruction from the Extension Office.

SPECIAL INTEREST PROGRAMS 1966

(Number of Participants)

Community	Child Care	Rug & Carpet Selection	Casserole Dishes Using Commodity Foods	Money Management	Breadmaking	Mending	Low-Cost Desserts	Salads	Basic Sewing	Getting Along with Children	Housecleaning Techniques	Remaking Used Clothing	Credit
Flagstaff	8		18	94	24	8	14	14		8	29		23
Fredonia		20										6	
Williams									8				
TOTALS	8	20	18	94	24	8	14	14	8	8	29	6	23

Serving Families Through Other Family Living Programs and Events

Letter to Parents of Pre-Schoolers Helpful

Parents of young children are urged to request this monthly letter, formerly prepared by Mrs. Carol Doty, Extension Home Economics Specialist, and at the present time, by Joyce M. Huggins, Assistant Professor, School of Home Economics, The University of Arizona. Subjects are varied but relate to understanding children's behavior and guidelines toward a happy, healthy childhood and young adult life. The present mailing goes to about 200 families.

Newspaper Column a Joint Effort of Extension Agents

"The Coconino County Agents' Newslines," was a new project for this year. This column has appeared regularly in the local paper. Topics for the newslines related to highlighting current projects with homemaker groups, timely seasonal topics, and answering queries directed to home problems. Copies of the "Newslines" were sent to The Arizona Sun at Flagstaff, The Williams News at Williams, The Red Rock News at Sedona, and The Lake Powell Chronicle at Page.

Monthly Newsletter to Homemakers Extends Home Economics Program

With the exception of combining the May-June, July-August and the Holiday letter of November-December, some 650 homemakers are kept currently informed on timely topics relating to home living, helpful hints, briefs of homemaker project lessons, a few recipes and some guides to family fun. Many favorable reports come to the office secretary as homemakers visit the office, or a request is made for additional letters to friends or relatives. Information on an evaluation study of this newsletter may be found in Section I.

Weekly Radio Program Adds Impetus to Homemaker Effort

Many of the subjects selected for the radio programs are taken from material being discussed at current meetings of homemakers; for instance, if the homemaker program topic is "Selecting Carpeting," then radio programs feature this topic. Radio Station KCLS has wide coverage, and we do hear from homemakers in neighboring counties and Indian women on the Reservation. Effort will be made in the future to have radio time corresponding to that of the Agricultural Agent. In order to accomplish this, it may mean three programs a week.

Youth Development



4-H Helps Members . . .

- Acquire knowledge, skills and attitudes for useful living and a satisfactory home and family life
- Learn through real life experiences a sense of responsibility and pride of ownership
- Develop an ability to make decisions, solve problems and manage time, energy, and money
- Explore career opportunities and recognize the need for a continuing education
- Appreciate the heritage and culture of self and others
- Develop their leadership and citizenship potential

4-H CLUBS

Club Members Show Diverse Interests

Club members in Coconino County have a wide interest in project work. The table below indicates the enrollments in the various 4-H Club projects:

<u>Members</u>	<u>County</u>	<u>BIA</u>	<u>Total</u>	
Girls	157	29	186	
Boys	62	23	85	(271)

<u>Projects</u>	<u>Total</u>	<u>Boys</u>	<u>Girls</u>
Crafts	43	31	12
(Woodworking)	(25)	(21)	(4)
(Leather)	(18)	(10)	(8)
Photography	11	10	1
Textile Ptg.	14	-	14
Beef	21	15	6
Goats	4	3	1
Horse	47	20	27
Poultry	6	3	3
Rabbits	5	3	2
Sheep	19	15	4
Automotive	2	2	-
Electricity	12	9	3
Entomology	1	-	1
Clothing	83	-	83
Knitting	39	-	39
Child Care	11	-	11
Food Prep.	94	11	83
Outdoor Cookery	13	7	6
Home Management	5	-	5
Garden:	5	1	4
Boy Jr. Leader		8	
Girl Jr. Leader			23

Leaders

With no leaders, there would be no 4-H Clubs. We wish to take the opportunity, at this time, to thank the leaders who so ably conducted Coconino County's 4-H program during the 1965-66 Club Year:

4-H CLUBS AND LEADERS

Cinder Hillbillies

Mr. Art Bleak
Mr. Joe Adragna
Mr. Bob Piper
Mr. Joe L. Sanchez
Mrs. Robert Wilkes

Fort Valley Mavericks

Mrs. Donna Sapp
Mrs. Pat Haydis
Mr. Mark Sapp

Frisco Peaks

Mrs. Eldy Findlay

Hoofbeats

Mrs. Wanda Hunsaker
Mrs. Bill Bullmore
Mr. Bill Bullmore
Mrs. Bill Burgan
Mr. Bill Burgan

Ponderosa Pinettes

Mrs. Margaret Crozier
Mrs. W. V. Borcharding
Mrs. W. M. Brechan
Mrs. Betty Elmer
Mrs. Arvilla Futch
Mrs. Donald Jameson
Mrs. Leon Jenkins
Mrs. Peggy Kittredge
Mrs. R. D. Merrells
Mrs. Charles Moore
Mrs. W. P. Morse
Mrs. Opal Mullen

Tall Pine Aggies

Mr. H. Stuart Houston
Mrs. Charles Blanchard
Mrs. Ernest Burrus
Mrs. June Collins
Mr. Wallace DeVaney
Mrs. Otis Lockwood
Mr. Ralph Setser
Mrs. Nancye Setser

Tuba City

Mrs. Pauline Yellowhair
Miss Betty Atakai

Fredonia

Mrs. Gladys Brooksby
Mrs. Georgia Heaton
Mrs. Joy Jordan
Mrs. Dixie Judd
Mrs. Elaine Pratt

Desert Aces (Leupp)

Mrs. Eldon Francisco
Mr. Loyd Lewis
Mr. Larry Biakeddy

Kanyon Kids (Sedona)

Mrs. Evelyn Todd
Mrs. Millard Dickison
Mr. Harvey Johnson
Mrs. Lucy Livingston
Mrs. Annie Logan
Mrs. Paul Lynch
Mrs. Charles Nemeo
Mrs. M. F. Peterson
Mrs. Paul Roberts
Mrs. Grant Smith
Mrs. Gertrude Steele
Mrs. Will Steele
Mr. Will Steele
Mrs. Dan Wilson
Mrs. F. L. Miller

Page

Mrs. Ann Jourdain
Mrs. Carol Keller
Mrs. Ramona Chamberlain

4-H Clovers (Williams)

Mrs. Virginia Evans
Mrs. Elaine Taylor

Williams Mountaineers

Mrs. Cecil Wells
Mrs. Cherrie Blair
Mr. Vaughn Gum
Mr. George McNelly
Mr. Allyn Cureton

4-H CLUBS

FREDONIA

Flowering Gals
 Little Miss Fixits
 Buzzing Machines
 Kitchen Maids

PAGE

Page

TUBA CITY

Fairchild
 Cardinal

LEUPP

Desert Aces

WINONA

Cinder Hillbillies

FLAGSTAFF

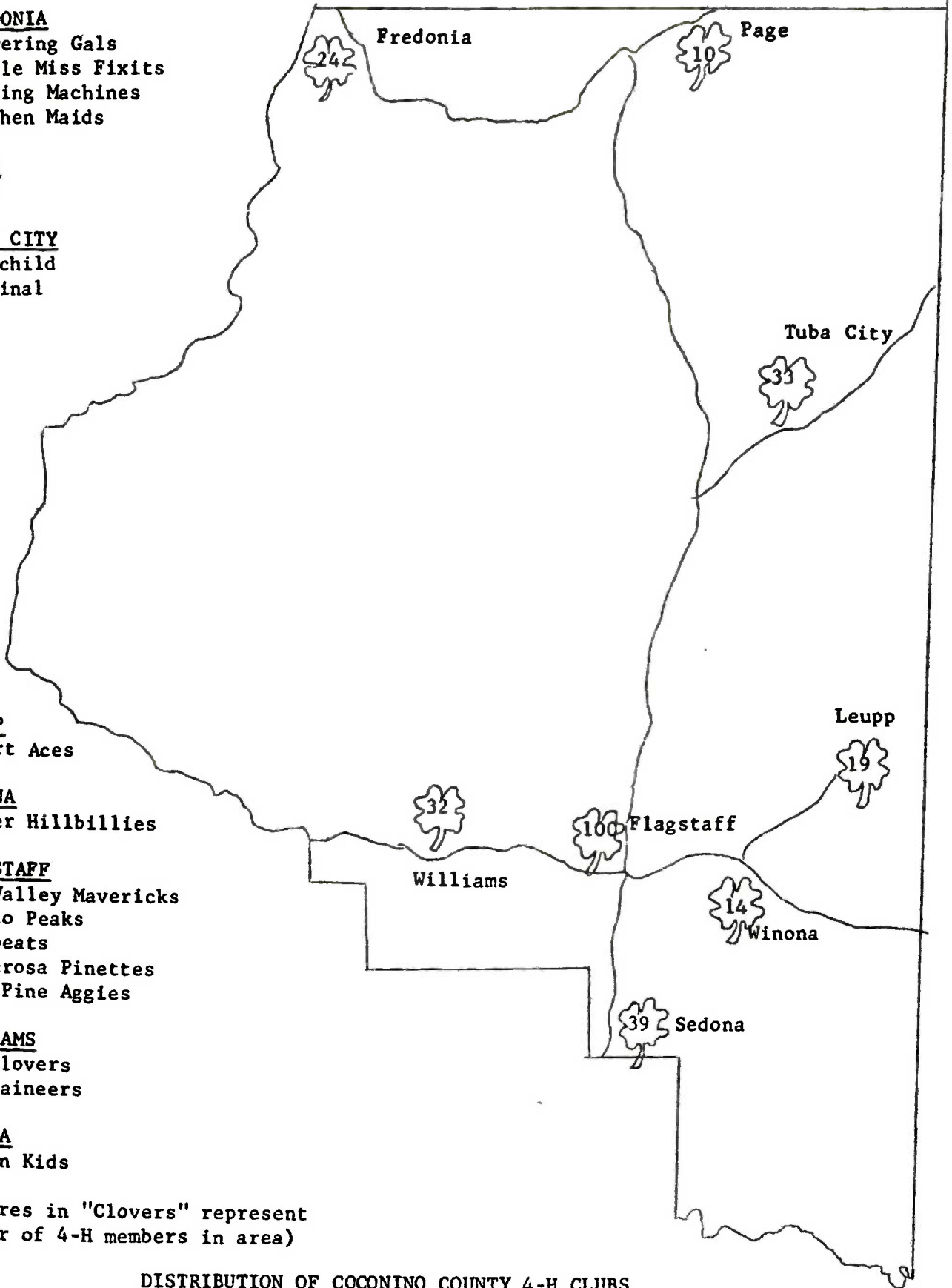
Ft. Valley Mavericks
 Frisco Peaks
 Hoofbeats
 Ponderosa Pinettes
 Tall Pine Aggies

WILLIAMS

4-H Clovers
 Mountaineers

SEDONA

Kanyon Kids



(Figures in "Clovers" represent number of 4-H members in area)

DISTRIBUTION OF COCONINO COUNTY 4-H CLUBS

4-H Leaders' Council

Coconino County has been privileged in having an active 4-H Leaders' Council for many years. This council was organized to help plan and carry out the 4-H program, in accordance with the policies of the Agricultural Extension Service.

The officers for the Leaders' Council for 1965-66 were as follows:

Chairman:	Mr. Ralph Setser
Vice-Chairman:	Mrs. Evelyn Todd
Secretary-Treasurer:	Mrs. Eldy Findlay

The Council meets at least twice a year, with special meetings when needed. Other members to the Council come from the clubs in the county. Community clubs--both Agriculture and Home Economics projects--have two members each, and project clubs, one member.

Leaders are recruited for various clubs by existing leaders. The Agents assist in recruiting leaders, only if requested by individual clubs.

The Council appoint committee heads to plan and assist with the major events and activities of the club year.

Junior Leadership

Junior Leaders are an invaluable part of Coconino County's 4-H program. Junior leadership is an activity and a project in Coconino County. The junior leaders work under the supervision of their adult leaders in planning and carrying out the club's program. Each junior leader is required to assist at least three younger 4-H members, and also assist in county activities and events.

In order to qualify for a junior leader in Coconino County, there must first be a need for their assistance in the club. The adult leader then secures an official application form from the Extension Office, that is filled in by the junior leader. Approval must be made by the adult leader and the Extension Office before they can become an official junior leader. They must also be at least 14 years old and in their third year of club work.

In 1966, the Junior Leaders' Council was again organized. The group met monthly during the school year. Many fine educational programs were presented to the group. The County Extension Office assigned responsibilities to the group which they carried out wonderfully.

Individual project meetings are greatly helped with assistance from the junior leader. Members' interest is stimulated, and clubs are showing larger percentages of completions.

At the County 4-H Camp, junior leaders assumed responsibilities in recreation roles, campfire programs, counseling younger members and cooperating with the adult supervision.

Under the leadership of Clara Jones, Junior Leader, the County 4-H Annual Bar-B-Que was most successful. Miss Sheryl Setser was responsible for assigning leaders and members to work in the 4-H building during the Fair.

As the Junior Leaders' Council grows in experience, the 4-H Club program in Coconino County will expand.

There were five Junior Leaders who attended the Junior Leader Lab in Prescott this summer.

Leaders Prepare

LEADER TRAINING MEETING IN CITIZENSHIP

This year, Coconino County was fortunate in sending our senior leader, Mr. H. Stuart Houston, to California to attend a Western Leaders Forum. The training meeting was on "Citizenship." This leader then prepared training meetings for 4-H leaders in the county.

These leader training meetings were held in November and December. The meetings were taken to the communities, and this insured good attendance. Mr. Houston presented a fine program, and it was felt by this Agent, that all leaders left the meetings with much food for thought. Follow-up sessions will be done with individual clubs in early 1967.

4-H Communications in Action

4-H NEWSLETTER

A monthly 4-H newsletter is prepared by the Extension Office. This has proven to be a most efficient way of communicating with the adult and junior leaders. The letter is kept very timely, and not too long. On the envelope, the words, "4-H Newsletter" are stamped in green and green mailing labels are used for the address. This identifies this particular piece of mail, and the Agents are sure the leaders read them rather than throw them away.

CLUB NEWSLETTERS

The Sedona Canyon Kids 4-H Club prepare their own monthly newsletter. This fine letter discusses the previous club meeting, welcomes new members and visitors, and briefly outlines the next club meeting by giving time, place, member assignments and program. This newsletter has proven to be a real stimulant for this club.

Awards and Recognition

The Annual 4-H Recognition Banquet was held on October 3, 1966, for the National County 4-H Medal Award winners of Coconino County. There were thirty-five 4-H'ers receiving these medals. These members, their parents and all 4-H leaders, with their wives or husbands, are guests of the local Valley National Bank. Mr. John Christianson, of the Valley National Bank, was the guest speaker this year.

The following were the winners of this year's medal awards:

ACHIEVEMENT	Kathleen Morse Sheryl Setser Kathy Crozier John Avery
AGRICULTURAL	Britt Steele Christine Piper Kathleen Avery Dale Cureton
AUTOMOTIVE	Stan Widman
BEEF	Bill DeVaney Alan Blanchard
BREAD	Terri Blanchard Linda Anderson Karen Widman
CLOTHING	Mavis Brechan Lucile Moore Janet Morse Amy Schleef
DAIRY FOODS	Linda Summers
DRESS REVUE	Billie Evans Christine Babbitt Janet Mullen Debbie Jenkins
ELECTRIC	Bill DeVaney
ENTOMOLOGY	Sheryl Setser
FOOD - NUTRITION	Lindy Borcharding Cynthia Setser Cathy Copeland Karen Elmer

HOME ECONOMICS	Christine Babbitt Karen Widman Janet Mullen Nancy Todd
HOME MANAGEMENT	Kathy Crozier
HORSE	Cheri Lynn Blair Katy Mills Christine Willett John Avery
HORTICULTURAL	Vicki Blanchard Lucile Moore
LEADERSHIP	Cheri Lynn Blair Clara Jones
PHOTOGRAPHY	Cheri Lynn Blair Douglas Wells
POULTRY	Steven Piper
SAFETY	Dennis Wells

Miss Cheri Lynn Blair won a trip to the National 4-H Club Congress in Horsemanship.

ADULT LEADERS HONORED

Four adult leaders were honored this year at the Annual Recognition Banquet for Five Years of voluntary leadership. They were Mrs. Jewel Blanchard, Project Leader of the Tall Pine Aggies Club, Mrs. Margaret Kittredge and Mrs. Geraldine Morse, Project Leaders of the Ponderosa Pinettes, and Mr. Mark Sapp, Project Leader of the Fort Valley Mavericks.

4-H FAMILY HONORED

The Bill Todd Family was honored at the Annual 4-H Recognition Banquet as the "4-H Family of the Year." Each year, a family is selected from entires submitted by club members. The 4-H Leaders' Council presents the family with a plaque.

The Bill Todd Family has been very instrumental in keeping the Kanyon Kids of Sedona an outstanding 4-H Club. Mrs. Todd has been the Community Leader of that club for several years, and has served as a project leader for the same club. Daughters Terri, Mary Lou, Billie Bea and Nancy all have been or are active members of the Kanyon Kids 4-H group. Mr. Todd, as the entry said, "is always available for transportation, helping set up tents at 4-H Camp, attends all community meetings, and is just there when you need him."

CLUBS HOLD RECOGNITION EVENTS

Achievement programs were held by many clubs during October and November. Club members and leaders were honored by presenting each with a certificate and 4-H pin. Parents and friends were invited to these meetings by the various clubs.

Education Through Projects and Project Related Activity

Project Groups Provide Opportunities for Judging

Evidence of practice judging at club meetings came to light in the County Roundup, when 43 girls took part in the judging contest. Fourteen entered in Clothing and 29 in Foods. The large majority were in the Junior Division. Two Senior 4-H girls scored in Clothing judging and were awarded a trip to the State Roundup. They were Clara Jones and Beth Sterner, both of the Ponderosa Pinettes 4-H Club. Beth moved to Ohio and did not participate in the State Roundup. Numerous judging rings in Home Management-Home Furnishing, Food and Nutrition, and Clothing are available on loan from the Extension Office. The Ponderosa Pinettes, Canyon Kids and the Fredonia clubs were helped individually in the judging activity.

Demonstrations Popular with 4-H Members

A record of 60 girls and boys, taking part in 59 Home Economics demonstrations, displayed the abilities as well as indicating practice and a corresponding amount of encouragement from parents and leaders. Many outstanding presentations were given, both in Junior and Senior Divisions.

Sheryl Setser, with her preparation of Sukiyaki, and Terri Blanchard, with a Yeast Bread demonstration of Stollen, won trips to State Roundup where each won a blue ribbon. These girls are from the Tall Pine Aggies 4-H Club. Christine Babbitt won honors in Clothing demonstration of Stain Removal, but she also placed in Style Revue, and she chose to represent the County in the Style Revue. Christine is from the Ponderosa Pinettes.

Style Revue Featured at County Roundup Awards Assembly

Mrs. Ralph (Nancye) Setser assumed the full responsibility of staging and narrating the Style Revue. She was assisted by her daughters, Sheryl and Cynthia. Early Spring flowers were used on the stage, which Mrs. Setser secured from friends in Sedona. Forty girls took part in the revue. Eleven Navajo girls, from Tuba City, were popular favorites as they passed in review in their crisp cotton dresses. Billie Evans, of the Williams 4-H Clovers,

and Christine Babbitt, of the Ponderosa Pinettes, were selected to represent the county at State Roundup. Judges were Mrs. Imogene Ainsworth, Home Economist, and Mrs. Kenneth Derifield, homemaker.

4-H Program Helped Through Assistance of Students at Northern Arizona University

The Eta Epsilon Eta, Home Economics Honorary Sorority, selected as a service project, to assist with the County Roundup events. Ten members worked diligently in managing the judging contest, acting as judges of the demonstrations, and in the capacity of introducing the participants in the demonstration contest.

College girls, enrolled in an Educational Psychology class, are requested to work 12 hours with youth. Many with 4-H experience have been of invaluable help to the adult leaders. One girl was helpful in assisting the girls in perfecting their demonstrations for State competition.

New Projects Spark New Interest

The new Third Year Clothing project of "Bedtime and Sportswear," was popular with girls embarking in their "teen" years. Knitting also added interest to the 4-H program. Five new leaders took over this project in five different clubs.

Summer Program Favored by Fredonia and Page

For the past two years, a highly successful 4-H program has been carried on in Fredonia, and this past year, noticeable progress was made in Page. Mrs. Joy Jordan, in Fredonia, has been a key leader and has been supported by Mrs. Georgia Heaton, Mrs. Gladys Brooksby, Mrs. Barbra Brooksby, Mrs. Dixie Judd and Mrs. Elaine Pratt. Two Clothing and two Foods groups were active this year, with a total of 24 girls enrolled.

Plans are to enroll early enough so that members can be prepared for participation in the County Roundup events the coming year. An overnight camp-out at Pipe Springs credited the girls with camping experience. Craft material was provided by the County 4-H Office. An Achievement Day, prior to the Fair, made it possible to enter their project work at the County Fair. Approximately 70 exhibits were on display.

A woman has indicated her interest in leading a group of boys in Entomology. There is also the possibility of two new clubs in Food and Clothing. It is probable that 60 or more club members will be enrolled in the Fredonia area.

Mrs. Carol Keller and Mrs. Ramona Chamberlain led a Foods club in Page, and Mrs. Ann Jourdain led a Clothing club. There were 10 enrolled from this area. They provided nearly 30 entries in the County Fair. It is expected that the 4-H program will gain a foothold in Page with the interest of Mrs. Keller and Mrs. Jourdain.

Clothing Program Helps Stretch the Clothing Dollar

The Clothing project work is so planned that garments constructed are added to the individual wardrobe for school, play or dress-up occasions. Many of the girls are sewing for other members in the family. Knowledge of clothing care, and the incentive through participating in 4-H to conscientiously take better care of one's clothing, is rewarded through better personal appearance. Girls are learning to be more careful buyers. They recognize good material and good construction.

Favorite Food Shows

Favorite Food Shows were held at Sedona, Williams and Fredonia. The study of basic nutrition is one of the outstanding features of the 4-H Food and Nutrition project.

One purpose of the Favorite Food Show is to have the members relate their favorite food to these learnings. Setting a table properly and attractively and preparing a favorite food is part of the activity. Miss Mona Wright, Home Economist, Arizona Public Service, judged the show at Williams and reported a rewarding experience.

Activities and Events

NATIONAL LIVESTOCK JUDGING CONTEST

Coconino County sent four members to this contest in Phoenix. The team did well, earning 710 points; 770 points was the top team.

ARIZONA 4-H CITIZENSHIP DAY

Coconino County sent Miss Billie Bea Todd and Mrs. Sylvia Nemecek as Coconino County's representatives to Citizenship Day at the Arizona Capitol.

COUNTY 4-H ROUNDUP

April was 4-H Roundup month. Three phases of the Roundup were held, on April 16, 23 and 30.

On April 16, Horsemanship members participated in a Horsemanship Proficiency Contest held jointly with Yavapai County. Three members qualified for State Roundup at this event. They were John Avery, Cheri Blair and Martha Hunsaker.

On April 23, Agricultural and Home Economics demonstrations, talent, and Home Economics judging were held. There were over 100 demonstrations presented, which was a record number.

On April 30, the County Style Revue was held in the morning, and this was followed by the Awards Assembly. Fourteen boys and girls were awarded

trips to the State 4-H Roundup in Tucson. The Tall Pine Aggies re-captured the Participation Sweepstakes Cup, after having lost it the past two years.

COUNTY 4-H CAMP

County 4-H Camp is one event that is looked forward to each year as an experience never to be forgotten. The 1966 County Camp was no exception.

Coconino County has its annual camp at Dairy Springs Forest Camp, which is on the west side of Mormon Lake, 30 miles south of Flagstaff. At the campsite, only outdoor toilets and running water are available. This makes the camp a truly outdoor camp.

The purpose of this camp is to give the 4-H member the opportunity to learn to live out-of-doors and appreciate the wonders of nature. It also helps train them how to camp out and cook over campfires.

This year's camp staff included: Dr. Howard Ray, University of Arizona; Mr. Sidney Caylor, U. S. Forest Service; Mr. Robert Mitchell and Mr. Dave Summerville, U. S. Soil Conservation Service; Mrs. Marjorie Gillespie, County Extension Home Economist; and, Bill Brechan, County Agricultural Agent.

Camp activities this year included nature hikes, soil conservation study, crafts and recreation.

Camp begins on Tuesday morning and concludes after breakfast on Friday. Youngsters are up early and eager for the day's activities. Meals seem to be the main item for most of the members. Appetites are unbelievable, but the amount of food consumed proves that out-of-doors stimulates the appetite. The camp fee is \$6.00 per person, and this includes meals, crafts and insurance.

COUNTY FAIR

The 4-H clubs of Coconino County exhibited their projects at the Annual Coconino County Fair. The 4-H clubs have their separate buildings for the livestock and other 4-H exhibits. This year's exhibits were good. Livestock was larger in numbers than previous years. The horse section of the 4-H exhibits was outstanding this year.

The Fat Stock Sale was again a success and highlight of the Fair. There were 16 steers and 10 fat lambs sold at auction. The auctioneer again was Mr. Johnny Whizenant, of Phoenix. The Grand Champion Steer was shown by Miss Jacque Raycraft, and sold to the Lumberjack Cafe for 95¢ a pound. The Grand Champion Fat Lamb was shown by Dale Cureton and was sold to Radio Station KCLS for \$1.50 a pound.

The Coconino County Extension Service wishes to thank the following who purchased animals at the Auction Sale:

Valley National Bank, Flagstaff
First National Bank of Arizona, Flagstaff
First National Bank of Arizona, Williams
Arizona Bank, Flagstaff
Merrill Young Distributors, Flagstaff

(continued)

Northland Press, Flagstaff
El Rancho Market, Flagstaff
Rod's Steak House, Williams
Southwest Forest Industries, Flagstaff
Lumberjack Cafe, Flagstaff
Hotel Monte Vista, Flagstaff
Babbitt Ranches, Flagstaff
Southwest Flour and Feed, Glendale
A. J. Bayless, Flagstaff
Radio Station KCLS, Flagstaff
Nelson Market, Sedona
Les Fuller, Cottonwood
Mormon Lake Lodge, Mormon Lake

4-H CHICKEN BAR-B-QUE

The Eleventh Annual 4-H Bar-B-Que was held in conjunction with the County Fair. This is Coconino County's one and only fund raising event. This annual event is one of the highlights of the County Fair and is looked forward to by many people.

This year 600 halves of chickens were cooked over charcoal and served with a fine meal. All chickens were served in two hours.

The Junior Leader Council was responsible this year in organizing the event, arranging for serving and clean-up. They did a wonderful job. A nice profit was made as most all the food is donated by "friends of 4-H" in Coconino County.

Serving Other Youth

Through contact with the Grass Roots program, the Extension Home Economist received an invitation to speak before a group of Senior high school students at the Guadalupe Church, on "Money and Family Relationships." Father Lindenmeyer, the pastor, was conducting a series of meetings on Preparation for Marriage. Twenty-three Spanish-American young men and women were reached. They were attentive, and their response indicated interest. With the cooperation of Miss Corinne Stinson, Extension Specialist in Home Management, a second meeting was held with this group on the subject of "Credit."

Community Improvement & Public Affairs



Cooperative Extension Helps Citizens . . .

- Develop community leadership
- Develop understanding of public issues and policies
- Improve community environment
- Improve economic opportunities through the analysis and development of the communities human, natural, and economic resources.

COMMUNITY IMPROVEMENTS AND PUBLIC AFFAIRS

HOME AND PUBLIC BUILDING LANDSCAPING

This phase of work continues to be very popular and steadily increases. Throughout the year, the Agent has advised hundreds of homeowners on landscaping of their homes and large number of public buildings. Much of this information is disseminated by radio, bulletins and talks before civic groups, women's organizations and college classes.

A public school on general landscaping was presented this year. It was well accepted and will be followed up in 1967. Special bulletins and circulars are written by the Agricultural Agent to apply to the planting conditions found in this county. These bulletins are passed out by the hundreds to homeowners, especially newcomers to this county.

County Fair

The Coconino County Fair has tried to maintain the true purpose of a county fair--to educate. The Agricultural Extension Service works directly with the Fair Director and Commission and has complete supervision of departments pertaining to Agriculture, Home Economics and 4-H.

The 1966 County Fair was good. Exhibits were the largest in its history in all departments pertaining to Agriculture and Home Economics. It was felt that thousands of people had the opportunity to educate themselves more about Coconino County's resources.

Cooperation with Other Public Agencies and Organizations

Throughout 1966, the Extension Staff has had many occasions to assist and work with many groups, within and outside Coconino County. Some of these contacts may have only been answering a question or two, while others entailed considerable time and effort of the Agents. Some of these agencies, the Agents serve as ex-officio members and meet regularly with the group. The groups the Agents worked with in 1966, are as follows:

High Schools of Flagstaff, Williams,
Page and Fredonia
Northern Arizona University
USDA Marketing Service
Coconino County Farm Bureau
Tall Pines Farm Bureau
County Fair Commission
County Defense Board
Soil Conservation Service
Bureau of Indian Affairs
Agricultural Stabilization and
Conservation Service
Flagstaff Training School
City of Flagstaff Housing Authority
County Welfare Department
County Health Department
National Youth Corps Camp
Civic Organizations
Community Hospitals
Fish and Wildlife Service
Church Organizations
Neighborhood Youth Corps
Job Corps Youth Center
Grass Roots
Head Start
Community Action Project

Coconino Extension Service Provides Resource
Material for Students and Faculty of Northern Arizona University

At the beginning of the school year, the new faculty members' wives are entertained; and as a part of the welcoming to Flagstaff, they are presented with Extension bulletins, principally relating to High Altitude Cookery and planting problems. Bulletins requested for this event numbered around 400.

The Home Economics and Forestry Departments also draw heavily on bulletins in the fields of nutrition, clothing, management, home furnishings and forestry. Over 1500 copies are distributed each year.

Agents answer requests to speak before class and fraternal groups, to inform them of the scope of Extension work, or discuss career possibilities in Home Economics and Agriculture.