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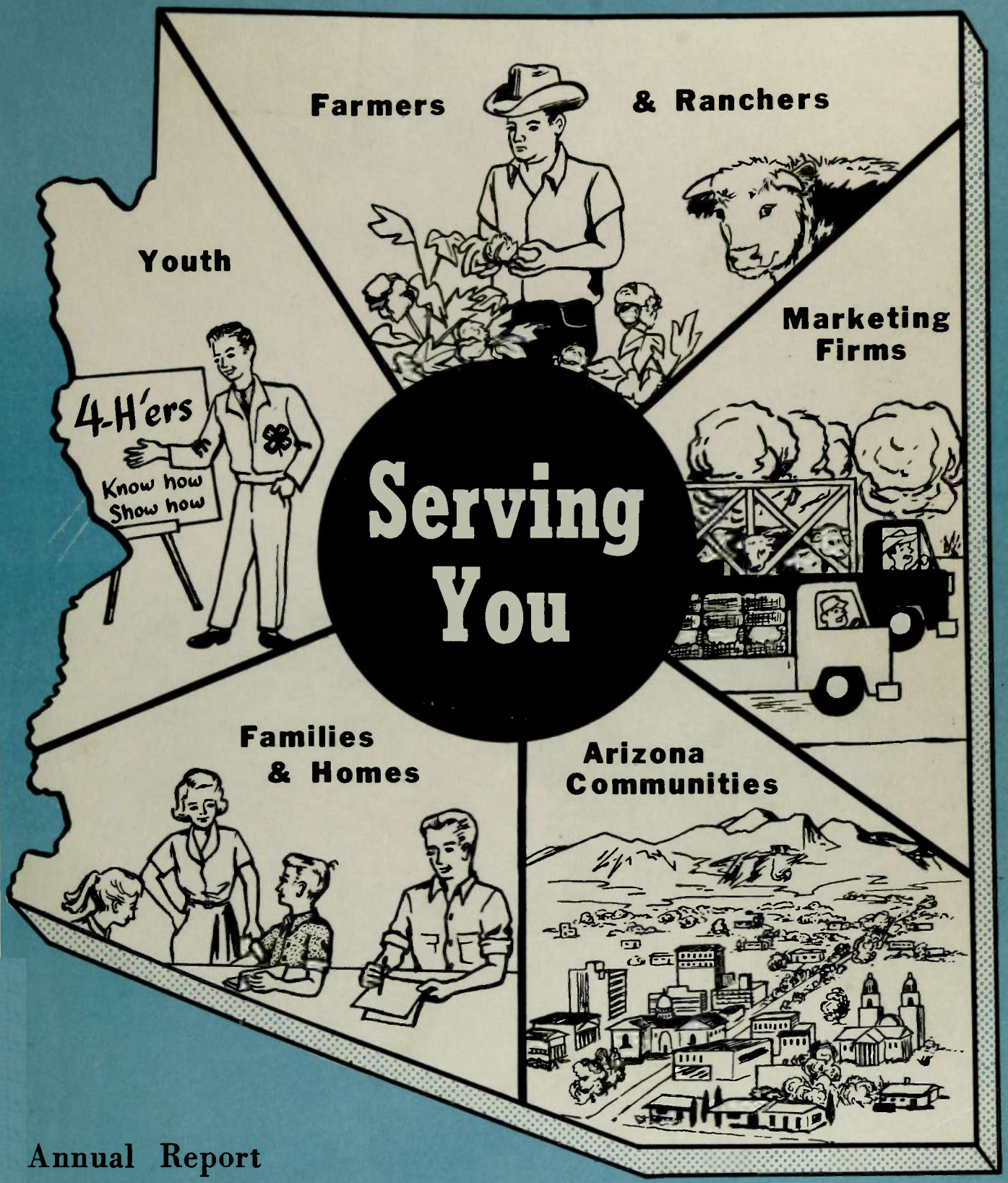

Annual Report
1966
MOHAVE

Cooperative Extension Service

The University of Arizona
Tucson

MOHAVE COUNTY, ARIZONA

J. N. McDougal
Agricultural Agent in Charge

Audrey M. Davies
Extension Home Economist

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1966

SITUATIONAL STATEMENT

SITUATIONAL STATEMENT

Mohave County is the fifth largest county in the United States. There are 8,486,400 acres within its boundaries, including three Indian Reservations which total 559,972 acres.

The northern one-third of the county is separated from the southern portion by the Grand Canyon. The southern two-thirds of the county is crisscrossed with four hundred twenty-four miles of oiled Federal, State, and County Highways. The transcontinental highway 66 and U.S. 93 cross at the county seat, Kingman. Highway 95 is now under construction which will link northern Yuma County to southern Mohave County. The towns being Parker, Arizona and Lake Havasu City, Arizona, both on the banks of the Colorado River and Lake Havasu. The northern one-third of the county has only thirty miles of oiled road. The remaining 2,000 miles of dirt roads in the county are only fair weather roads and subject to closing due to cloud-burst or inclement weather. The Santa Fe main line, which is a double track system, has over one hundred miles of double track, crossing the county near the center of the county running from northeast to southwest. The County Seat is serviced by Bonanza Airlines, Greyhound and Las Vegas-Tonopah-Reno bus lines.

The population of Mohave County is approximately 17,000 with over one-half of this population living in the county seat of Kingman. With completion of the Duval Corporation's mine and mill facilities and McCulloch's manufacturing plant, in operation at Lake Havasu City, Mohave County is without a doubt due 100% population increase within the next 2-5 years. There are one hundred forty ranch and farm families in the county, most of which live on their farm or ranches in the southern part of the county. In the northern part, very few actually live on their holdings but live in adjacent small communities out of state. More and more suburban living is being noticed all up and down the Colorado River and in the Sacremento Valley to the east of the river range

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SITUATIONAL STATEMENT (continued)

Mohave County, as a whole, is a livestock county with recreation and mining following closely behind. It is anticipated that manufacturing will become the largest factor for population increase in the near future. This will be due to the large McCulloch project at Lake Havasu City. Mining is still gaining in importance and will likely move up the line as Duval Corporation is in the production of copper. Two large mining concerns are doing development work and are quite sure to add to the population and economy of the area. Mohave County in the past twenty years, has probably lost as much mining population as has any other county in the state. There are three mining "ghost towns" that, at one time, could boast of over 5,000 population and there were many small communities of five hundred or more that today are non-existent.

There are 11,500 acres of irrigated cropland in Mohave County. The principal crops are: alfalfa, milo, cotton, cereals, pasture and produce. The dry land farming on the Strip is just about out of the picture as moisture has been too limited for much production. As a whole, most of the farms are small and sub-marginal with only a few larger operators that depend solely on farming as a livelihood. It is estimated that within ten years, fifty to sixty thousand acres of good agricultural land on the Colorado River could be developed. In fact, two sections of brush land are in the process of being cleared or cleared for cultivation. Most of this land is river bottom and is a checkerboard pattern of Indian and White ownership. One new area has opened up for farming and this lies in and adjacent to Red Lake, northeast of Kingman. There are three separate farms in this area and are looking forward to increasing their 400 acres to 2-5,000 acres. Forage type crops are now being raised under sprinkler irrigation with commercial vegetable companies and pure seed producers looking to this area for its isolation benefits. An increase over last years acreage is also due to the Colorado Milling and Mining operation on the Bill Williams where several thousand acres are being formed by flooding of the river. The dam at Alamo Crossing, on the Bill Williams, will greatly improve the down stream farmers flood damage problem upon its completion in 1967.

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SITUATIONAL STATEMENT (continued)

Mohave County boasts of over one thousand miles of shoreline and more water than all of the other counties in the state. There are three large lakes in the county and they are fast becoming the Recreation Playground for boater, skiers, and fishermen. The dams forming these lakes are used for hydro-electric power. It is not uncommon for as many as five thousand people to enjoy the facilities at Lake Mead or Lake Mohave on any Labor Day or Memorial Day weekend. Boat racing has become very popular at Lake Havasu City as 20,000 are expected at this years annual race.

There are over 1,500 children of 4-H age attending schools in the county. Less than two hundred fifty are of Indian or Spanish-American descent. A 4 year church college is planned for Lake Havasu City. The land has been appropriated and approximately one-third of the funds promised for the institution. A Junior College is still being talked of for the county and some planning has been done.

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.

I. EXTENSION ORGANIZATION AND ADMINISTRATION

The Mohave County office is staffed by J. N. McDougal, Agent in Charge whose responsibilities are agriculture with a joint 4-H responsibility.

The Home Economist is Mrs. Audrey Davies whose responsibility is Home Economics also with a joint 4-H responsibility.

Mrs. Eleanor Maffeo occupies the secretarial position.

The organizations assisting in programming are: The Mohave Livestock Association, the Cowbelles Association, the Mohave County Area Development Council, the 4-H Leaders Council, and the Homemakers Clubs within the county.

In planning the Family Living program a group of lay-leaders representing low income, minority groups (Indian), Church, youth (4-H), Garden Club, Womens Club, and Homemakers Clubs met last year to study the county situation. Recommendation from this lay group are used in long range programming. These suggestions were used this year in establishing priorities for the coming year's program. The planning committee met twice during the year to work up the program.

The Homemaker Club and 4-H programs are planned by representatives of these organizations keeping in mind the recommendations of the over-all county group.

The Family Living Planning Committee, 4-H Leaders Council, officers of Mohave Livestock Association, Mohave Cowbelles and the County Extension Board Members are the main framework for an advisory group although civic organizations which assist are:

1. Rotary, Soroptomists, Lions, Optimists, Womens Clubs, Garden Clubs and Kiwanis.

2. The County Extension Board Members are as follows with their tenure of office:

John Odle, Chrman	2 years	Melba Smith	2 years
Clover Odle	1 year	Grace Neal	1 year
Jack Wilson	2 years	Frank Stephens	2 years
Sophia Wilson	1 year		

This group met once approving the budget and Plan of work at one meeting. A good working relation is had by the staff and the advisory group.

1966 Extension Education Program by Community

- An Overview

Extension Program	Davis Dam - Bullhead City	Hackberry	Kingman	Kiabab	Lake Havasu City	Mohave Valley	Moccasin	Peach Springs	Topock	Valentine	Wikieup	Yucca	Walapai Valley	Round Valley	County Wide
Agricultural Production															
Ant Trials, Eradication													2	2	
Soy Bean						1									
Cotton Variety Trial						1									
Small Grain Trial													1		
Fertilizer Trial										1					
Vegetable Trials															10
Parasite Control		2													
Vitamin A		3													
Marketing															1
Family Living															
Homemaker Clubs			3		1				1						
Other Organized Groups			1												
Special Interest Ed. Prog.			6	1	1	1	1					1			
Youth Development															
4-H Clubs	1		6					2			2				
Training Meetings															5
Livestock Showing & Fitting															1
Livestock Judging															5
Nature & Conservation															2
Community Improvement															
Home Grounds Improvement			1		1										
City Park			1		1										

PROGRAM EVALUATION PROJECTS

- Vitamin A Results

Livestock health and vigor needed improvement. Too few ranchers using Vitamin A in supplemental feeds. The first trial in 1960 was successful but needed momentum. Appendix gives details.

- Food Buymanship Series

Questionnaires and personal interview were used by the Extension Home Economist to determine any changes made or knowledge gained through series on food buying. Of forty responding, only one had made no change in food purchasing habits. Details in V Family Living section.

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.

II. EXTENSION INFORMATION

Serving. . . PEOPLE WITH AGRICULTURAL AND HOME ECONOMICS INFORMATION

Many methods are used by Extension workers in supplying information to the people of Mohave County as indicated in the diagram on the following page. The results of research in Arizona, the results of research in other areas, and the results of research by the United States Department of Agriculture -- together with practical experience in the local adaptation of such information -- is made available throughout the county in the fields of Agriculture and Home Economics and to adults and to youth alike.

Mass media used during the past year included articles in the county weekly and Phoenix papers as well as the local papers on the Strip, Lake Havasu City, and Bullhead City; circular letters; a weekly radio program; and distribution of U.S.D.A. and University of Arizona Extension Service bulletins. Bulletins were distributed in the following manner: three bulletin racks were rotated in five outlying communities throughout the county; bulletins were placed in local stores to answer specific problems; a bulletin rack was available at the Mohave County Fair, and a large display was available in the Extension Office and mailed upon request.

Farm & Home Visits
234

Press Articles
Prepared & Published
42

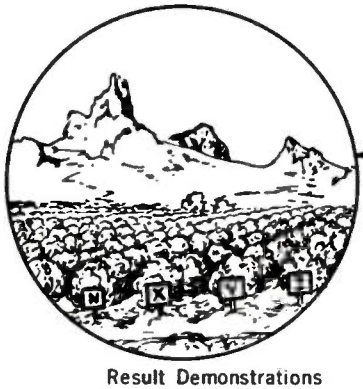
Telephone Calls
1,081

Methods Used & people Reached with Agricultural & Home Economics Information

1966

The University of Arizona
Cooperative Extension
Service

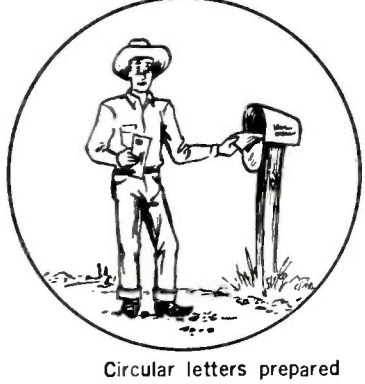
Office Calls
595



Result Demonstrations
& Tests Established
11

Bulletins Distributed
6,293

Meetings, Tours, Field Days
Attendance
101
12,388



Circular letters prepared
598

Television Broadcasts
Radio Broadcasts
37

Serving . . . THROUGH SPECIAL EXTENSION INFORMATION PROJECTS

_ "Notes for Young Homemakers" Reaches Non-Joiners

An effort to reach young women who do not join Homemakers Clubs or attend other meeting was made through a series of letters mailed weekly over a three month period. Bulletins or mimeographed material accompanied each letter. The letters were short and easy to read. They were to encourage action or changes in practice. A full report is given under V. Family Living.

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

III. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE

Serving . . . COTTON GROWERS

- Field Demonstrations Acquaint Cotton Growers with Newer Varieties

Three new varieties of cotton were placed on trial at the Eldon Parrish farm on the Colorado River; Delta Pine - 5540, Delta Pine 45A and Hopi Cala. All three have done real well as far as appearance. Harvesting will be delayed until later in the year; it is hoped that weights can be obtained for final evaluation.

Serving . . . SMALL GRAIN GROWERS

- Small Grain Forage Trials Observed with Interest

Seven small grains were tried on the Claude Neal farm under sprinkler irrigation in 1966. The varieties were Balboa Rye, Albon Rye, New Mexico Winter Barley, Markton Oats, California Mariout Barley, a hooded variety barley unnamed, and a wild oat cross. These were all pastured for a short period then cut for hay. The top yield was obtained from the New Mexico Winter Barley, followed closely with the Albon Rye. These trials will not be duplicated as the rancer feels the bearded barleys are still the highest producers of quality hay for this elevation.

Serving . . . SOYBEAN GROWERS

- New Cash Crop for Mohave County

The first soybeans to our knowledge were planted on the Duke Stroble farm on the Colorado River. The soil was tight, dank, and salty but the soy beans were estimated to produce in the neighborhood of 35 bushels per acre. This appears to be a crop that can help take the place of cotton with the bollworm or grain sorghums with which such a bird problem exists. The variety was Gila and as more is learned about varieties and cultural practices, it is hoped to see considerable acreage planted to this crop.

Serving . . . HOME FRUIT GROWERS

- Pruning Demonstrations Prove Interest Among Home Owners

Demonstrations were held in Kingman and Lake Havasu City with nice turnouts at both locations. The Horticulturist Specialist presents an excellent demonstration along with answering questions on pruning and the adaptability of different trees, shrubs and ornamentals to be used in home landscaping. People are learning to take better care of their trees and grounds as is observed by driving down the streets in these communities.

Serving . . . FLOWER GROWERS

- Bullhead Community Gets Guides from Local Paper (Colorado River News) on Flower Planting

The garden editor uses the University of Arizona publication "Flowers for Southern Arizona" for keeping their circulation informed for bulbs, flowers, etc. that will grow in their area and the time of planting along with when blooms are expected. Assistance also comes from the Extension Service office on this matter.

Serving . . . LIVESTOCK PRODUCERS

- Screwworm Program Deficit Alerts Livestock Association

The Screwworm Committee of the Mohave Livestock Association hit the traces again coming up with approximately $4,000 to help Arizona meet its goal. This brings Mohave County total voluntary contributions to over $15,000. The committee responsible were: Jack Wilson, Frank Stephens, Clint Cofer, Howard Grounds, Leonard Neal, Len Collins, and Clayton Atkin.

The committee's remarks were, "What would have happened if we hadn't had this program and ran up against a year like this where we collected over ten times as many larvae as in any year in the past". They feel this voluntary program to be worth all their time and effort to help stamp out this dreaded pest.

- Vitamin A for Health and Vigor

An effort to get more ranchers to use Vitamin A in their supplemental feeding program was failing due to the instability of this material in early years. During the Fall of 1960 a trial was established on the Rubel ranch with Mr. Rubel to inject directly into the rumin non sterile Vitamin A. Approximately 180 head were injected and 180 as a check. Excellent results were observed in general appearance and calf vigor on the trial animals.

The following year the trial was increased to approximately 800 head with a check. No problem was had in selling Mr. Rubel and since this has been an annual practice.

In 1964 four more ranchers adopted this practice and in 1966 approximately 20 ranchers are using this material in one form or another to increase the Vitamin A supply in their range cattle.

Serving . . . THROUGH SPECIAL EMPHASIS PROJECTS OR PROGRAMS

Range Management

- Burning and Seeding Eye Opener to County Ranchers

Through joint efforts by the B.I.A. and the University of Arizona Extension Service, the Walapai burn tour was conducted again this year. A large crowd was in attendance observing the nine year consecutive burning and seeding. Large areas of Mohave County are quite similar to this area and seeing is believing. Possibly some of the thousand of acres in private ownership could well benefit from these trials. Also observed were catchment basins, simply constructed for water short areas. The local interest in this tour is growing from year to year; it is hoped that this can coincide with the Arizona Section of the American Society of Range Management next Spring.

- Loss of Usuable Livestock Forage Through Damage by Red Harvester Ant Astounding

Trials using five commercial anticides and one private mix were established on four ranches: Leonard Neal ranch, Grounds ranch, Blake ranch, and Chet Cofer ranch. On all four ranches like results were obtained. The trials were started on July 14, 1966 and read at monthly intervals for three months. The readings taken in August and September by the Entomologist and County Agent showed some different results from those made in August. At these readings the Korlan private mix bait looked good, also the two mixes 150 and 135 looked good as well as the Keepone. The reading in October showed that Keepone was the outstanding material and mixer 150 looked only fair. All of the others were poor to of no value.

In this year's tests, stakes were placed at four corners. It has been suggested that next year, each hill be staked and marked as too many new hills were observed after heavy rains making observation results almost impossible. Some plots had twice as many hills at the conclusion as at the beginning.

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.

IV. AGRICULTURAL MARKETING AND UTILIZATION

Serving . . . AGRICULTURAL MARKETING

- Mohave Livestock Marketing Association Looking Into Auction Sales

The listing service has worked real well for a number of years here in Mohave County. The dollar squeeze is necessary to stay in ranching, so ranchers are in the talking process of sales by auction. This has been discussed at different meetings and is hoped that Bob Boice, the Gila Cattle Growers president, and Pat Gray will further enlighten them at a spring meeting on the merits and problems of establishing such a sale.

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.

V. FAMILY LIVING

Serving . . . HOMEMAKER CLUB MEMBERS AND THEIR PROGRAM

Organization

- Situation at Beginning of Year

At the beginning of 1966 the Morning Glory Homemakers Club, which is the oldest in Mohave County, had a membership of twenty-four members. A new club, Cactus, had been organized in the Butler Addition with eleven members, the Havasuettes at Lake Havasu City had twelve members, the Young Kingman Homemakers still had twelve on their membership list and Topock Roadrunners were down to eight members. The Tumbleweed Club seemed unable to add to their four remaining members so had decided to disband.

- Charter Club Provides Support to County Program

The Morning Glory Homemakers Club members continued to provide the leadership for the Home Economics Extension program. During this year their membership increased to thirty-two. Their members represent the county on both the State Council and the Town and Country Life Conference Advisory Committee - the club helps pay expenses of representatives attending the semi-annual meetings in Phoenix. The annual Homemakers Tea was sponsored again this year by the Morning Glory's. The 1965 slate of officers were re-elected for the 1966 year; so Mrs. John (Eileen) King continued to serve as president.

- Club Grows In New City

The membership list of the Havasuettes in Lake Havasu City has grown to thirty-seven during this year. Growth has probably taken place because members, who are all relative newcomers, make an effort to meet and invite new women to their meetings. Mrs. Robert (Mildred) Whitaker was reelected president assisted by Betty Elliott, vice president and Elizabeth Perryman as secretary-treaurer.

- Enrollment Remains Same

In spite of the increase in size of the Havasuettes and Morning Glory Homemakers Clubs, the enrollment has remained about the same in the county.

In February, Ann Wyatt, president of the Young Kingman Club moved to Battle Mountain. Two factions developed within the club with the result that the club disbanded in May. Some members are still active in the Extension program although not enrolled in a club.

Several of the young couples at the El Paso Gas Camp at Topock have been transfered. Newcomers are not yet settled so the Roadrunners have not resumed their meetings this fall.

The Cactus Homemakers Club has only five members this fall. Some have moved - others are working. Unless new members are added, this club will become another casualty.

- Groundwork Laid for New Club

For several months Mrs. Davies has been working to get a group together in South Kingman. Up until now there have been a number of delays in starting: women working, lack of evening meeting place, sick children. Very soon conditions should be right. In the meantime, individuals have been involved in the Extension program through workshops and special meetings.

Leadership Training

- Lay-leadership Continued

The lay-leader taught lessons in the Homemaker Club program have been continued this year even though the number of clubs has decreased. This develops a leadership that can be depended upon when growth takes place and also allows leaders to have the advantage of exposure to specialists who often present the training. Project leaders conducted four of the club educational programs: Getting the Most In Your Market Basket, The Most for Your Protein Dollar, Control of Household Pests, and Record Keeping.

- Leaders Learn Most

Women have been willing to take the time for training and to assume the responsibility of presenting the educational program because of the additional information they learn. Leaders usually become interested enough that they do further study before giving the lesson. One leader borrowed a chemistry book and read about amino acids after the protein training meeting - - "just because I want to know". Another, who has a home business, set up her own records before teaching ABC's of Record Keeping. It is interesting that many different women volunteer for leadership rather than the same few each time. Twenty-four different women attended adult training meeting this year.

Homemaker Club Educational Program

- Program Meets Needs of Members

The educational program planned by representatives of the clubs to meet the needs and wishes of the members offered a variety of subjects again this year. Consumer education has been selected to receive main consideration in long range program planning. Getting the most for the food dollar was given first priority and major emphasis was placed in this area during 1966. Home improvement through lighting and use of accessories was also studied. Control of household pests, requested by newcomers to Arizona, offered even more variety. Some clubs completed the Communications series that had been started in the fall of 1965. The following chart shows the 1966 program and the club participation.

Homemakers Clubs Educational Program

Club and Community	Membership Enrollment January, 1966	Membership Enrollment December, 1966	Participation in Programs								
			More Food in Your Market Basket	Most for Your Protein Dollar	You Bought It - Now Use It	Record Keeping	Lighting In the Home	Accessories In the Home	Controlling Household Pests	Communications: Father - Child	Communications: Husband - Wife
Cactus - Kingman (Butler Add'n)	11	5	9	8	6		5		8		6
Havasuettes - Lake Havasu City	12	37	16	16	16	17	14	17	12		
Kingman - Kingman	12		8	7	5					7	
Morning Glory - Kingman	24	32	21	21	27	26	25	27	26	23	
Roadrunners - Topock	8		7	5	4				5		6
Total	67	74	61	57	58	43	44	44	51	30	12

- Food Buying Series Timely

In view of the nationwide protests over high food prices, the decision of the Mohave County Homemakers Club members to become better informed in food buymanship seems especially appropriate. In a series of three lessons the women were shown the importance of planning, comparison shopping for quality and quantity, and of caring for and properly using foods after purchase.

June Gibbs, Extension Nutritionist, conducted a two-day training session for project leaders, who in turn, led the meetings in their respective clubs.

Getting the Most Food Into Your Basket stressed the need for using a market list (impulse buying is responsible for many expensive, unnecessary purchases.) Studying labels, comparing brands for cost, quality and quantity, buying foods in season, making substitutions based on a knowledge of nutrition, and recognizing the importance of saving pennies were also included in this first lesson. A Budget Gadget was introduced as a simple way to figure per unit cost. Forty - nine women purchased these "gadgets" for a few cents and have reported that they found them very useful in deciding brand and size to buy.

Because protein foods make up the most expensive food group in our diet, a lesson was devoted to Getting the Most for Your Protein Dollar. The importance of protein in the diet was reviewed. Foods having similar amounts of protein were compared to show economical proteins. "As purchased portions" were compared to "edible portions" to show that per pound price is not a good guide to economy. One homemaker reported, "We just quit eating bacon after I'd had that lesson."

Planning and wise selection of food are ineffective if food is not cared for and used properly after purchase. Mrs. Davies concluded the series with the lesson, You Bought It, Now Use It, on elimination of waste and use of left-overs.

- Management More Effective Than Boycotts

At least 58 women feel that they are better prepared to cope with rising food prices. Most frequently mentioned comments were, "I am more careful of package size. The 'large, economy' is not always the best buy.", "I buy 'first things' first!", "I read labels to get the quality I need for the intended use!", "Before buying meat I consider the amount that is eatable!", "I was amazed how little meat is a serving of protein". One woman wrote, "Having been born in Europe, where food wasn't so plentiful, nothing is ever thrown out - not even a piece of bread. In the pamphlet were many good points to prepare beef-leftovers."

Only one woman admitted having made no changes in her buying habits; however, she does comparison shop and does separate non-food from food items before figuring cost; so, perhaps her buying habits were good to start with.

Some women still count non-food items (i.e. detergent, paper towels, cigarettes) against the food budget and one woman makes no effort to keep track of expenses. By contrast, one young woman who is a cooperator in a result demonstration, carefully separates her purchases in the store and has a sub-total rung up on food items before inedible items are added. She is keeping a detailed record of all foods and has even broken down amount for sales tax.

- Record Keeping a Must for Money Management

If making better use of available money is to be a long range goal in the Homemaker's program, the planning committee recognized the importance of record keeping as a means of reaching that goal. The ABC's of Record Keeping familiarized the women with types of ledgers available, simplified ways of keeping records and use of records for future planning. The women were especially interested in the way in which records could be used to save on income taxes. Mrs. Taylor, lay leader, presented the lesson to the Morning Glorys; Mrs. Davies took the material to the Havasuettes. "Now all we need do is get started."

- Lighting Popular Lesson

Lighting in the Home for efficiency and beauty was the first lesson given by Mrs. Davies this fall. Types and placement of lamps, overhead lighting, kinds of electric bulbs and ways of improving present lighting were discussed with aid of a kit of visuals from Corinne Stinson, Home Management Specialist. Booklets giving recipes for lighting, obtained through a local shop, were distributed. The women were enthusiastic about checking their own home lighting. One woman who is adding a room commented, "I've made up my mind. We're going to have overhead lights in the family room."

- Accessories Add Individuality to Home

"Now we'll go home and put away some of our things" was the thought expressed after each lesson, Accessories In the Home taught in November. Forty-four women were present at the Havasuettes and Morning Glory meetings. Mrs. Davies pointed out that home furnishing is an art rather than an exact science. The guide lines of good design should be considered, but individuality can be expressed through use of accessories. Clutter can be eliminated by planning and not displaying all possessions at once.

- Newcomers Interested in Control of Pests

Control of Household Pests was requested by newcomers to the area who were unable to cope with the insects that were unfamiliar to them. Dr. Roney, Entomologist, conducted a training meeting for leaders from five clubs. Materials prepared by Dr. Roney and copies of Household Pests were available for leaders to distribute to members. In addition to telling how to control pests, the leaders showed tools for the job. The lesson, presented in May, was given just when warm weather had brought out the insects. Most questions were asked about ants, cockroaches , and termites.

- Family Communications Study Continued

Cactus and Roadrunner Clubs had not completed the communications series in 1965. Mrs. Davies presented Husband/Wife Communications lesson to them in January.

Morning Glory and Kingman Young Homemakers elected to study the fourth in the series, Father/Child, during January. Using the printed material and record prepared by Carol Doty, two leaders from each group, prepared and presented this lesson. A few members asked to borrow the record so that their husbands could hear it also.

Other Homemaker Club Activities

- Homemakers Sponsor Annual Tea

Forty-three women attended the Fifth Annual Homemakers Tea held May 12 at the Chamber of Commerce. Each year this tea is held during National Homemaker's Week. Helen Church, Clothing Specialist, spoke on, "Clothes Make a Difference". Clare Carter, accompanied by Gene Gaddis, sang two numbers. Hilda Rutschman was tea chairman with Harriet Welsh again in charge of decorations. A great deal of advance radio publicity at least made listeners aware that there are Extension Homemakers Clubs in the county.

Serving . . . SPECIAL INTEREST EDUCATION GROUPS

- Special Audience and Specific Interest Education Serves Many Needs

Women (and men) in six different communities were involved in eight different programs of foods, clothing, and family finance. Each served an expressed need of some group. The following chart shows the program and the communities participating.

SPECIAL AUDIENCE AND SPECIFIC INTEREST EDUCATION

Community	Participants in Programs							
	Feeding Young Families ("Head Start")	Clothing Judging	Better Dress Workshop	Cotton Dress Workshop	Make - Over Workshop	Color Workshop	Wills	"Married Money"
Kiabab					23			
Kingman	18	5	10	10		3		4
Lake Havasu City						17		
Mohave Valley	9							
Mocassin							9	
Yucca	6							
Totals:	33	5	10	10	23	10	9	4

- 'Head Start' Parents Learn About Child Feeding

Portions of the "Feeding Young Families" Series were adapted for use with interested parents of children enrolled in the Head Start program. Emphasis was placed on nutritional needs (basic four) and feeding problems of children. Visuals were used to simplify instruction and parents were free to ask questions or participate in any way. During the discussion on snacks, Mrs. Davies served peanut butter - powdered milk kisses (made from commodity foods). These were popular with adults and children. Mrs. Robinette, Head Start dietitian, and Mrs. Spencer, supervisory teacher, arranged the meetings which were held at St. Mary's School and the Presbyterian Church in Kingman, the school in Mohave Valley, and the school at Yucca.

- Better Dress Workshop Helps Sewers

It was evident from clothing entries at the fair and from observing garments worn that many women sew who have not had formal training.

A workshop was held this fall for women who wished to improve their sewing skills. Ten women made garments - three women did not sew but came during specific instruction. Zippers, facings, and set-in sleeves were the problems of most who attended. Inter-facing, seam grading, and understitching were all new techniques learned. One woman who does much of the sewing for herself and her eight children was very pleased with the dress she made for a teen-age daughter. Her comment was, "Beside this dress all of my other sewing looks cheap."

- Cotton Dress Workshop Saves Money

Ten women attended a cotton dress workshop to learn simple construction techniques. They were interested in learning to make simple summer dresses and shifts for themselves and daughters. Their expressed reason was the high cost of simple ready-made garments. Three women immediately made other garments at the completion of the workshop.

- Kiabab Women Turn Old Garments Into New

Thirteen Indian women, four school girls and one white woman had the satisfaction of making twenty-four usable garments from discards during a workshop held in Kiabab during June. A total of twenty-three took part in the class. Although most garments were made for children, the girls made or altered dresses for themselves. Two women remade dresses for themselves and one woman altered trousers for her son. No attempt was made to keep track of the number of patterns cut by these women and by the women who came from Mocassin to get ideas and to cut patterns. Two women from the Mocassin Relief Society assisted Mrs. Davies.

- Workshop Makes Women Color Conscious

Seventeen women analyzed their personal coloring, selected becoming colors, and studied their wardrobes as related to their personal coloring at a workshop held at Lake Havasu City in February. One woman who had always worn blue found the red family much more flattering. A large woman with graying hair had always worn black because of her size. She found that dark value blue and blue purple did not increase her size but did much for her hair, skin and eyes.

The women were all enthusiastic about the information they gained in the four day workshop (the extra session was at their request). They were becoming more color conscious at each meeting and expected to get increased use of their color kits. In November, at the bottom of a letter written on another subject, one of the workshop members wrote, "I still enjoyed the color workshop most".

Mrs. Davies worked with three young women in Kingman on the use of their color kits. These women passed the information on to the rest of the eight who had purchased kits. This method was used because many babies made it impossible for the group to meet for all day meetings.

- "Wills" Still Popular Topic

Eight women and one man attended an evening meeting in Mocassin at which the Home Economist discussed the need for wills and emphasized the importance of keeping records and certain business and personal papers available. Copies of the mimeo, "Wills", and "Inventory of Important Papers" were given to those attending. This meeting was scheduled by request.

- "Married Money" Series Attempted

Much time was devoted to planning, preparing and promoting a series on money management called "Married Money". The series of five weekly lessons was intended for young couples only.

Two families were involved in a pre-planning session in the spring. Miss Stinson and Mrs. Davies worked with one couple during the spring and summer to help them set up a record-keeping system. This couple is most pleased with their system and are beginning to plan for future spending. They were ready to set up a business center when they purchased a trailer and moved - new arrangements will be made. These "cooperators" are eager for more help and excellent supporters of Extension.

Advance publicity for the series was given through newspaper articles, radio spot announcements, letters sent to parents on pre-schooler mailing list and a bulletin board at the County Fair. Eight couples pre-registered - two couples attended the first meeting. All others had valid reasons for not coming. After the second meeting, the series was discontinued. Mrs. Davies has continued working with the original couple. A church group has indicated an interest in sponsoring the series after the first of the year; so another attempt will be made.

Serving . . . FAMILIES THROUGH OTHER FAMILY LIVING PROGRAMS AND EVENTS

- Letters Reach "Non-Joiners"

Letters are being used to carry information to the young homemaker who would otherwise not be exposed to the Extension home economics program. A series of fourteen short, informative letters called Notes for Young Homemakers has been prepared by the home economist. These letters accompanied by University of Arizona Extension Service or U.S.D.A. bulletins, or mimeographed material are mailed one each week to a list of fifty. A file for keeping letters and bulletins was included in the second mailing. A partial profile shows that most of the women receiving the letters are in the 20-25 years age bracket, seven or eight are under 20 and a few are over 30. Although the letter was intended for those married only a short time, two have been married six years. There are many brides - this is probably because Mrs. Davies used wedding announcements in the local paper as one source for making up the mailing list. Radio and newspaper publicity, and a bulletin board in a laundromat (accompanied by cards to be sent in) were means for contacting others on the list. Over half were not familiar with the Mohave County Extension Service before receiving the letters.

Proof that the letters are being read comes from requests for bulletins that are mentioned in the letter but not included. An evaluation is already planned to be used at the end of the series.

- Weekly Radio Program Extends Information

The home economist uses her weekly radio program as a way to extend Homemakers Club and special interest information to a larger audience. The food buymanship series was used as the basis for a series of radio talks after the club programs. Two programs on feeding young families took these ideas beyond the few who had attended the "Head Start" meetings. A series on money management tied in with preparation for the "Married Money" workshop. Many of the ideas from Notes for Young Homemakers made radio material, too. Radio also served as a means of sharing a Nutrition Seminar attended in March and a housing conference in June.

- Commodity Recipes for Welfare

Mrs. Davies prepared a four sheet mimeo of recipes using powdered milk and cornmeal at the request of the Welfare Department. The mimeo's, Family Meals at Low Cost, Getting Enough Milk, and Ways of Cooking Pinto Beans were sent along with the Commodities to the thirty families living in Supai Canyon. The Welfare Director learned on his annual visit to the canyon that this information was needed.

- Trip to Town and Country Life Conference Worth Effort

One Mohave County woman who traveled a thousand miles round trip to attend conference was making plans to return next year before she was back home. When Mrs. Davies visited Littlefield later, Mrs. Reber was still enthusiastic. An attempt by Mrs. Reber to organize a Homemakers Club in her community failed but she will serve as a liaison person when the home economist visits "the Strip".

"Thank you for taking me to Town and Country Life Conference. My sister's baby is alive because you took me!" This was appreciation from an Indian woman who had attended conference twice. The safety program had taught her mouth to mouth resuscitation which she knew how to use in an emergency.

Although leaving families is difficult, those who do make the trip to the University come back with fresh ideas for their families and friends. Again this year, delegates shared their experiences with members of the Morning Glory Homemakers Club at their June meeting.

- List of Parents Receiving Letter Increasing

Ninety-eight persons are now on the list of those receiving the Letter to Parents of Pre-school Children and new names continue to be added.

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

VI. YOUTH DEVELOPMENT (4-H CLUBS AND OTHER YOUTH)

Serving . . . 4-H CLUB MEMBERS AND THEIR PROGRAM

Organization

- One hundred and ninety-eight boys and girls enrolled in eleven clubs learned through the 4-H program. Twenty-four different projects were carried with the largest enrollments being in clothing, foods preparation, and beef fattening. Horse, sheep, and crafts were also popular. 127 boys and girls fulfilled project requirements to receive completion certificates and year pins.

- Leaders Council Actively Assists Clubs

The 4-h Leaders Council under officers: Mrs. Robert (Abbie) England, president; Mrs. John (Clover) Odle, vice president; and Mrs. Sterling Corley, secretary-treasurer continued to serve the 4-H program in many ways.

The Council meets four times during the year for educational training, to discuss policy, and to suggest program development. Members serve on the awards committee.

Members also help plan and operate the county camp and raise funds for 4-H activities.

Proceeds from the food concession at the County Fair are used to finance expenses for camp, Junior Leader Lab, and to help pay for delegates to attend Roundup and Citizenship Day. Barbara Seapy managed the concession this year.

- Junior Leader Council Gets Underway

A Junior Leaders Council is in the organization process and should offer additional means for Junior Leaders to strengthen the 4-H program. Isabelle England is Chairman pro-tem since Jessie Seapy has moved to California.

- 4-H Receives Community Support

Mohave County Cowbelles continue to support the clubs by the presentation of membership pins. Not only does the Cowbelles organization pay for the pins, but a Cowbelle attends the awards program to give out the certificates and pins to 4-H members.

Valley National Bank again purchased record book covers for new members.

Trophies for the livestock division at the Mohave County Fair were donated by:

Bonanza Airlines	Alex Lamb
Kiawanis Club	Rotary Club
Mohave County Jeep Posse	Frank Finn's Flying A Service

Leadership

- Good Leadership Essential to 4-H

Twenty-eight women and six men served as leaders this year. Of this number, eight have been leaders from five to seven years and thirteen have served from two to four years - the remainder have just completed their first year. Nine clubs have two or more adult leaders with one serving as the organizational leader and the rest chiefly responsible for project assistance. Five clubs had sixteen Junior Leaders also helping members.

- President Attends Regional Leaders Forum

Abbie England, representing Mohave County, attended the Western Regional 4-H Leaders' Forum in Pacific Grove, California to bring back ideas for improving the club program.

- Junior Leaders to Lab

Jimmylee Todd, Kathy and Darcy Kimball, Lea Ann Thompson, and Terry Lee Hunt attended Junior Leader Lab near Prescott this summer. All brought back ideas which they shared with their clubs and others. Jimmylee has just completed his club work and will be assisting his mother as a senior leader this coming year.

- Club Officers Attend Training Meeting

Isabelle England, Junior Leader, assisted Mrs. Davies in presenting a training program for new officers. Conducting a meeting, keeping minutes and reports, planning programs, were all included as well as a review of officer's duties. Eighteen officers from eight clubs attended.

- Service Club Takes Project Leadership

The Zonta Club of Bullhead City assumed leadership for the foods projects in the Busy Bees Club this year. Dorothy Cornwall served as liaison betweenthe two clubs the first half of the year with Nira Flader replacing Mrs. Cornwall for the second half. Mrs. Cornwall and Mrs. Flader arranged schedules and attended training meetings - Zonta members volunteered for project lessons which they felt competent to teach. The experiment was successful enough that the same arrangement is being made for this coming year. Zontas had helped the Busy Bees in the past by providing equipment and materials but this year they also gave of their time.

- Leaders Trained for Clothing Work

Two training meetings were held for clothing leaders. Last year the leaders had an opportunity to start a demonstration kit by making shorts for Unit III. This year a blouse with set-in sleeves and convertible collar was added to the kit. Sears Foundation furnished material for the demonstration blouse.

A second workshop taught by Helen Church, Clothing Specialist, trained clothing judges. Hilda Rutschman, member of Morning Glory Homemakers was among those attending the judging training. At the county fair, Mrs. Rutschman put her training to use by judging Units I, II and III in the 4-H division.

- Favorite Food Show Subject of Training

June Gibbs, Nutrition Specialist, conducted a training meeting to help foods leaders better understand the place of the Favorite Food Show in the 4-H program. Objectives were discussed and ways to set up attractive, informative exhibits were demonstrated. Leaders from the four clubs conducted training in their own clubs. Exhibits are improving as a result.

Education Through Projects and Project Related Activities

- 4-H Members Learn Through Projects

Club members select projects suited to their needs and abilities. These projects are completed in the home using educational material furnished through the Extension Service. Members are assisted in developing their projects at work-meetings supervised by project leaders and junior leader assistants.

- Demonstrations - Show and Tell

Each 4-H member is expected to give at least one demonstration or illustrated talk during the club year. The demonstrators learn more about their subjects while preparing for their demonstrations. In addition they gain self confidence by appearing before a group.

Most of the demonstrations are given at the regular club meetings. No member is required to participate in county competition. Twelve demonstrations were given in the county contests in home economics and general projects. Connie Powsky, Peach Springs; Kay Clutter, Davis Dam, and LaRee Morago, Kingman received blue ribbons which entitled them to participate in state competition during Roundup, held annually on the University of Arizona campus, Tucson.

- Beef Contest Receives Cowbelles Support

A new contest, supported by local Cowbelles, offered an opportunity for Virgil Short to give his illustrated talk before hundreds at Chris-Town in August. Virgil received a leather awards ribbon and ten dollars for representing Mohave County in the Junior Division of the Beef Contest. Cowbelles located a place for the local run-off to be held and provided publicity.

- Decision-Making Part of 4-H Program.

Decision making through judging has long been recognized as an important part of the 4-H program. Club members receive training in judging based on a stated situation using learned standards. Thirty-seven girls and two boys took part in the county contests. Junior Leaders assisted the Home Economist in setting up judging rings.

Those taking part in home economics judging at Roundup were: Isabelle England, Home Furnishings-Home Management; Gaye Bandy and Yvonne Silva, Clothing; and Darcy Kimball, foods.

- Combined Activities Draw Crowd

The Dress Revue, Favorite Food Show, and Public Speaking contest held at the fairgrounds after the Forceful Feeders barbeque attracted a crowd of one hundred and thirty.

Margaret Ann Thomas, Busy Bees 4-H Club, served as commentator for the Dress Revue. Judges Alex Thompson, Phyllis Glawson, and Syd Clayton chose Margaret Thomas and Jessie Seapy, Trout Creek Club, as winners. Jessie Seapy represented the county in the state Revue.

Marilyn Leslie, Busy Bees, and Jimmylee Todd, Cactus Wrens, were selected by judges Mary Jane Wienke and Eleanor Maffeo of the Mohave Toastmistress Club to present their speeches at Roundup.

Mr. Julian, in charge of the Job Corp foods training program, served as judge of the Favorite Food Show. He was pleased with the knowledge shown by those participating.

- Clover Leaf Club Mends Clothing

The Peach Springs Clover Leaf Club held a family mending "bee" at one meeting. The girls made repairs on clothing belonging to all members of their families. This was an especially important service because many of the girls come from homes without machines.

- Open House Shows Achievements

Most clubs plan some type of meeting at which parents and visitors have an opportunity to learn of members accomplishments during the year.

An interesting and well organized program was given during the Busy Bees open house in September. Work done during the year was on display. Members told of club activities and three members gave demonstrations. Margaret Thomas West's wedding dress was exhibited beside the first apron she made to show her growth in skill during seven years of 4-H work.

- Cactus Wren's Tour Turquoise Shop

Craft members of the Cactus Wren Club and others interested toured the turquoise processing plant to learn about its operation.

Other Club Activities and Events

- Three to Citizenship Day

Margaret Ann Thomas and Jimmylee Todd represented the county at Citizenship Day in Phoenix. They were accompanied by Mrs. Gene Thomas, leader.

- Citizenship Short Course Brings New Experiences

Margaret Vaughn, Peach Springs, and Jessie Seapy, Troutcreek, were sent by their clubs to Citizenship Short Course in Washington, D. C. The girls reported to their clubs and to leaders and members at the annual picnic.

- Roundup Delegates Bring Home Honors

Two Mohave County girls received honors at Roundup. Isabelle England received the Shield and Clover Award (highest score) and Jessie Seapy ranked in the top five in the Dress Revue. The delegation included nine girls, five boys and four leaders.

- 4-H Sunday Observed

Members of the Busy Bees Club, Bullhead City, and their families observed 4-H Sunday by attending a picnic at Katherine's Landing. Kingman members of the Methodist Church attended in uniform. The church program contained the notice of 4-H Sunday and the Rev. Cavanaugh made the announcement.

Big Sandy 4-H Club held a breakfast in honor of their Mothers.

Annual Family Picnic Draws Crowd

150 4-H members, leaders, and families attended the annual picnic held at Hualapai Park. Junior Leaders were in charge of group singing and games.

- Big Sandy Holds Carnival

Big Sandy 4-H members held a barbeque, carnival, and talent show to which the community was invited. The event served as combined community entertainment and money-making project.

- Cactus Wrens Work for Beautification

Cactus Wrens purchased three trees which were planted in the new city park on Hilltop.

- 4-H and Girl Scouts Help Heart

Members of 4-H Clubs and Mrs. England's Girl Scout troop together "manned" the food concession at the Heart Sunday Carnival. Their sign read: "Mohave County 4-H and Girl Scouts Working Together to Help Your Heart". They cleared over $60.00 for the fund. A good example of cooperation between youth organizations.

- Two Clubs Assist Cancer Crusade

Cactus Wrens stuffed kits for the county Cancer Crusade and Junior Leaders of the Roadrunners worked on the drive.

- Eighty-six Attend 4-H Camp

Junior Leaders took complete charge of recreation at the annual 4-H camp held August 19, 20, and 21 at Camp Levi-Levi in the Hualapai Mountains. Eighty-six members, leaders and their families attended the three day camp. Again this year members assisted in the preparation, serving, and clean-up of meals.

Mrs. Searles supervised a paper-craft "hobby" project. Members made paper beads (reminiscent of grandma's portieres) and mosaic pictures of crepe paper.

Jim Jett of the Arizona Game and Fish Department showed film and spoke on Conservation.

Junior Leaders should be commended for their excellent assistance in the camp program. This was the first project handled by the newly organized Junior Leader Council.

- Mohave County Fair

4-H members again acted as host and hostesses in the 4-H Building.

- Forceful Feeders Fat Beef Club Attend Arizona State Fair

Forty members, leaders, parents, took a chartered bus spending two full days in a learning experience. This trip was financed by the club's annual barbeque which usually nets 60.00 to 80.00 dollars. This is the fourth large trip this club has sponsored in its nine year existance.

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.

VII. COMMUNITY IMPROVEMENT AND PUBLIC AFFAIRS

Serving . . . Communities in More Adequately Developing Their Resources

-Cacti Herbarium to be Joint Venture of City Council, Local Leaders and the University of Arizona

The County Agent has been called upon by the Mayor and City Council in trying to get a cacti herbarium established in one of their parks adjacent to Highway 66. There is a great deal of interest in this project as most varieties of cacti are in our desert flora. Permits have been secured from the State Entomologist Office, Horticulture Division and work has started in the collecting and transporting of these plants. A retired botonist from Stanford University along with our horticulturist specialist will assist in the classifying and naming of these different plants.

Mohave County abounds with a great number of the cacti family. Inquiries to the state, county and Chambers of Commerce can greatly be assisted by a well planned herbarium when people can get their own information and observe the beauty of the plantings.

-Surveys Sponsored by Mohave County Area Development Council, Inc. Bring Results

The Airport Feasibility Study results has brought one new industry to the area. The General Cable Corporation purchased 56 acres from the county, planning to employ approximately 200 people when in full operation. This plant will occupy an area that has been idle since World War II and greatly improve the economy of Mohave County. These feasibility studies are filed nationally and we are told this is the only way new industry will consider an area as the information they need is readily available and complete.

-New Industries

New industries in the county are sure to need community development. A new copper plant north of Kingman and the new Industrial Complex at Lake Havasu City along with the others mentioned in this text, are indications that the area is growing fast. The Chamber of Commerce and the Development Council are working together to help meet the community needs.

VIII. SUMMARY AND OUTLOOK

The youth program has been steadily moving forward on sound footing and surely will continue to. The Lake Havasu City community is already planning on its own high school, Bullhead City is also giving this some consideration. The Bullhead school district has been notified to plan for an additional 300 students in their grammer school system by January, 1967 as California Edison is building a large electrical generating plant just across the river in Nevada.

Other communities have grown steadily and their youth are interested and encouraged to partake in programs offered by the University of Arizona.

Mohave County's agriculture is growing as is its population; an additional two thousand acres of farm land has been developed in the last year. Many more acres could be farmed. Approximately three hundred allotted acres of cotton were purchased in 1966 with more in prospect. New crops in the area such as safflower and soybeans are potentials.

Mohave County as a whole is growing beyond anyone's expectations. The Colorado River area is the focal point for inhabitants that are constructing the large electrical power plant on the Nevada side of the river along with thousands of retirees and recreationists that are moving in.

Lake Havasu City has a population of over two thousand with new industry and business coming daily. Kingman and vicinity have three new industries that have a potential of over four hundred workers with employment in these three now at approximately one hundred fifty persons. With the increased persons coming into the area, the Extension Service will be called upon more and more for the University of Arizona information and services.

With the added impetus the general public is placing on recreation and this type living Mohave County, as the most underdeveloped potential in the west, will have to gear up to keep pace.